DEIR EL-BACHI

SANDALS, SHOES AND OTHER LEATHERWORK FROM THE COPTIC MONASTERY DEIR EL-BACHIT

ANALYSIS AND CATALOGUE



André J. Veldmeijer

SANDALS, SHOES AND OTHER LEATHERWORK FROM THE COPTIC MONASTERY DEIR EL-BACHIT

Analysis and Catalogue

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For Erno

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PART I. ANALYSIS

PREFACE

I am grateful to Günter Burkard, Daniël Polz en lna Eichner for allowing me to study and publish the leather finds. Ina Eichner has been of great help throughout the project, for which I am truly grateful. I thank Joanne Ballard for correcting the English of the catalogue. Sue Winterbottom has checked the English of the scientific analysis. Moreover, she critically viewed the contents for which I am especially grateful: her suggestions, remarks and overall insight greatly improved the analysis. As always, I thank Erno Endenburg for his photography, collaboration in fieldwork and all other work he did for the present publication. Adri 't Hooft is thanked for preparing the photographs for publication. I mention Geert Jan Engelmoer for his help. Pieter Collet is thanked for the field drawings of several of the book cover fragments. I have benefited from the discussions with Carol van Driel-Murray and Gregor Neunert. I thank Martin Moser for allowing me to use some of his results of experimental work and I thank Susanna Epple for permission of publishing the photograph of Choke. I am grateful to Renee Friedman for sending me the photographs of the Hierakonpolis leatherwork. The York Archaeological Trust for Excavation and

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> Amsterdam August 2011

INTRODUCTION

The Archaeological Investigations

The Coptic monastery and cemetery Deir el-Bachit stands on the hilltop of Dra' Abu el-Naga (figure 1), the well-known necropolis in Qurna (West Bank Luxor). It is the largest Coptic monastery complex preserved in Western Thebes (Eichner et al., 2009: 92) and "bietet sich die im thebanischen Raum sonst nicht mehr vorhanden Möglichkeit, eine große koptische Klosteranlage in ihrer Gesamtheit zu erfassen, d.h. das Kloster an sich, seine Wirtschafsbetriebe und eine nordwestlich, außerhalb der Klostermauern gelegene, größere Nekropole archäologisch zu klären." (Burkard et al., 2003: 45) and "damit einen Beitrag zur besseren Kenntnis der im Verhältnis zu den pha-

raonischen Monumenten vernachlässigten spätantieken un mittelalterlichen Denkmaler auf dem thebanischen Westufer zu leisten" (Eichner et al., 2009: 92-92). Until the start of the German investigations in 2001 with a survey (*Ibidem*: 93), little research was done (Burkard et al., 2003: 46-47). After three seasons of preliminary research, full archaeological research was started in 2004.

The project was initiated by Günter Burkard "als DFG-Project des Ägyptologischen Instituts der Ludwig-Maximilians-Universität München" and "wird logistisch, technisch und personell seitens des DAI Kairo, vornehmlich Daniel Polz, massiv unterstützt." (Eichner et al., 2009: 93) – this was due to the investigations of the Pharaonic tombs K93.11, where the



Figure 1. Overview of Deir el-Bachit. The monastery is visible in the centre of the hill with immediately behind it the cemetery. The Nile is visible in the far distance. Photography by I. Eichner.

latest building phases and occupational layers were dated to the Coptic period (*Ibidem*: 92).

The leatherwork was studied during two weeks in 2007, the work of which consisted of verbal description, measuring and, if necessary, drawing. Moreover, all fragments were photographed in overview (obverse/reverse, if the condition allowed the turning of the fragment) and, if necessary, in detail. The camera used was a Canon Digital Rebel/EOS 300D and a Tamron 90/2, 8 DI CAF SP Macro lens. Each photograph included the useful Kodak Colour Separation Guide.

In good consultation with the excavation's direction, it was decided to proceed with the publication of the present analysis and catalogue in order to avoid further delay - details about the precise context and dates are, therefore, missing. Linking various fragments is also depending on the precise context and is therefore scheduled for the future. However, since all finds come from the Monastery it is reasonable to assume a date as for the monastery itself, i.e. somewhere between 6th through 9th c. AD, possibly even 10th c. AD (Eichner et al., 2009: 97-98). Obviously, more precise dating is preferred but this not likely to change the overall picture significantly, for which there are several reasons. First, most of the footwear has been used well beyond repair, due to which the original shape and construction (and thus type) cannot be recognised anymore. Secondly, footwear is not prone to rapid change. In other words, types and techniques were in use for a long time.1 This is even more so for leatherwork that is more functional in nature, such as leather used for tying, and for religionrelated objects such as book covers.

The Leather Research

As explained elsewhere (Veldmeijer, 2008b: 230-231) the footwear, besides being analysed within the excavation's theoretical framework (see above), will be analysed within the framework of the Ancient Egyptian Footwear Project (AEFP). The AEFP is a multidisciplinary research project on ancient Egyptian footwear from Predynastic to Coptic times (see Veldmeijer, 2010a: 11-15 for a detailed account). Obviously, the non-footwear leatherwork is analysed within the excavation's theoretical framework too but also within the framework

of the Ancient Egyptian Leatherwork Project (AELP). A detailed explanation of this project is presented for the sub-project on Amarna's leatherwork (Veldmeijer, 2010b); a comparable approach is used for Deir el-Bachit's finds.

In contrast to published footwear typologies such as the one published by Montembault (2000), the typology developed by the AEFP, which is based on Montembault's and Goubitz et al.'s (2001) work, includes among others date and distribution as diagnostic characters. Moreover, the AEFP is based on more objects relative to the number on which Montembault's typology is based, resulting in expansion and refinement of the typology.³ Finally, as explained elsewhere (Veldmeijer, 2010a: 15) recognisability is used, based on the work of Goubitz et al. (2001), in some cases. Leguilloux (2006) has established a typology on the basis of the objects from Didymoi but because this is based on the finds from only one site and of limited time period, it is not used here. A concordance, however, is provided for whenever necessary.4 None of the typologies use the shape of the sole as character, although Leguilloux (2006: 98-101) recognises the distribution of shape in time. Since a typology that also incorporate date and distribution can only be established on the basis of a large sample of varying date and from various sites, Montembault's typology will be used here for the time being.

Naturally, the objects from Deir el-Bachit are compared with published objects but also with finds that are housed in several collections as well as with finds that were recovered by modern excavations – all of which were studied by the author.⁵ Publication of these items is forthcoming, due to which no references to literature are made in the present text. Monographs on the leatherwork from Qasr Ibrim are in preparation (Veldmeijer, In preparation b; Veldmeijer & Van Driel-Murray, In preparation); therefore, references to the Qasr Ibrim finds are made in notes with some exceptions, such as the book covers.

The Catalogue

Catalogue Number (Cat. No.): All finds have been given a catalogue entry number to facilitate the reader searching through the corpus of finds.

Find Number (Find No.): The unique number given

by the excavation record, allowing for the tracing of the context of the object. A find number can include several fragments of leather, which, in order to separate them from each other, have been subnumbered by means of letters (a, b, c etc.) by me. Leather finds might originate from different types of objects. Therefore, sub-numbered fragments may have been catalogued in different places/separately because the catalogue is divided in functional groups (see below). If this is the case, a reference to the other fragments is included under 'Remarks'.

Group:

All finds within the find number and context. The entry is only used when some of the sub-numbered fragments are described elsewhere.

Measurements: If two measurements are separated by a hyphen, it indicates the smallest and largest size. Measurements of fragments of which sides cannot be determined and hence no 'length' or 'width' can be recognised, are noted with 'x'. Usually, but not exclusively, these are featureless scraps. All measurements are in millimetres, unless stated otherwise. Abbreviations: d = diameter; h = height; l = length; t = thickness; w = width. Measurements marked with " are approximate.

Colour:

The colour is only indicated in general terms. A colour designation using for example the Munsell Color System, has not been used.

Remarks:

Information about where to find the sub-numbered objects that are not described under the present catalogue number (see explanation of Find Number) can be found here. Furthermore, it is stated here whether the object is not illustrated or sub-numbered or if the entry includes not-described, featureless scraps. Occasionally, information of a different nature can be found here as well.

Description:

All objects are described in detail. Since it is a description, no references are included: these can be found in part I, the scientific analysis. However, occasionally one can find references to text figures in order to guide the reader through the specialist terminology (a good example is the reference to text figure 7, showing the different types of knots). The terminology that is used in the present work is based on Goubitz et al. (2001) but because they based their work on European footwear, expansion and adjustment proved inevitable for Egyptian material. Therefore, terminology for the description of footwear is used as discussed by Veldmeijer (2010a). Terminology of knots is after Veldmeijer (2006).

The Illustrations

Photography is by Erno Endenburg unless stated otherwise and courtesy of the Institut für Ägyptologie an der Ludwig-Maximilians-Universität München. The photographs are prepared for publication by Adri 't Hooft (Adri 't Hooft Photographic Services). The field drawings of the book covers (figures 22-35) were done by Pieter Collet, but turned into publication format by the present author. All other illustrations are by André J. Veldmeijer/Erno Endenburg unless stated otherwise. The scale bars are 50 mm unless stated otherwise. Construction drawings are not to scale.

ANALYSIS

Quantity and Breakdown by Functional Groups

The finds are discussed by functional groups, the breakdown of which resulted in nine groups: 'Footwear' (subdivided into 'Sandals' and 'Shoes', 'Insignias', 'Book Covers', 'Fastenings', 'Belts, Straps, Cordage and Related,' 'Bags and Related Objects', 'Offcuts and Waste', 'Miscellaneous' and 'Unidentified.' Some of the functional groups need explanation.

Footwear is always an important group of objects within the find category 'leather' on an archaeological excavation. Here, there are 101 entries (Cat. Nos. 1-101), of which 98 are related to sandals. However, the number of (nearly) complete sandals is remarkably low as is the number of shoe and shoe parts.

The group 'Insignias' consists of 11 entries (Cat. Nos. 102-112). 'Insignias' are named without knowing the function of these objects, as will be explained below, hence the quotation marks.

The group 'Book Covers' consists of 63 entries (Cat. Nos. 113-176), describing the fragments with decoration and/or other features such as slits and stitching in detail. A table presents the featureless scraps, which are 47 in total. It did not prove possible to estimate how many books there must have been. Clear is on the basis of the differences in decoration schemes, however, that the fragments came from several books.

The group 'Fastenings' (Cat. Nos. 177-178) consists of only two objects. Objects such as these are known from footwear, but also from bags. Although it is perhaps more likely that the Deir el-Bachit fastenings originate from footwear, this is not at all certain and hence they are put together in one group.

Sixty-one entries are described as 'Belts, Straps, Cordage and Related' (Cat. Nos. 179-240). By 'belt'

is meant the strip of leather with a buckle or comparable fastening that is used in clothing; strips of leather that are used for tying are referred to as 'strap' (not to be confused with the straps in a sandal's strap complex, which are usually referred to in a more specific way, *i.e.* front, back- and heel strap). Braided fragments and fragments that are made by the slit-and-pull technique are regarded as straps. Some of these might originate from sandals, but such objects have also been used in, for example, book covers - hence the inclusion of those fragments whose precise identification is impossible within this group. The distinction between belts and straps is not always easy to make and often even impossible, hence their classification in one group; the quantity should be viewed in this light. By 'cordage,' objects are meant that are plied (and sometimes cabled), like rope and string that is made of vegetable materials.

'Bags and Related Objects' is a small group of only four entries (Cat. Nos. 241-244). The leather from bags is often not recognisable, especially when the leather fragments originate from the body of the bag and are without features such as edges and handles.

The group 'Offcuts and Waste' (Cat. Nos. 245-255) only includes the more remarkable fragments: the quantity of offcuts and waste is large but most are featureless fragments. These are listed in Appendix I.

The small group 'Miscellaneous' (Cat. Nos. 256-258) includes extraordinary items, some of which were not usually made of leather such as the ring and the pot lid. The third entry is a repair patch, which might have been used to repair a bag. In the analysis, no attention is given to this group (but see the catalogue).

The largest group, with 151 entries (Cat. Nos. 259-410), is 'Unidentified'. Typically, this is the largest group for which several explanations can be offered. In antiquity, objects were often used beyond

repair (the degree might differ from site to site, as will be explained below). In Deir el-Bachit it was common practice to repair things over and over again, beyond further repair. This means that, even if still in use, often the original shape already could not be determined anymore. Moreover, after discarding the object, decay sets in,6 varying according to the influence of anything from moisture and wind to the likes of insect and rodent activity. These processes alter the object even more. No attention is given to this group apart from several extraordinary fragments.

Preservation

Generally speaking, the preservation⁷ of the leather is good. The fact that so many entries are only small fragments is due to use and wear rather than to bad preservation. Indeed, considering the fragility of the book cover leather, one could even say the preservation is excellent.

One of the most characteristic conditions of visible deterioration of leather is a condition usually referred to as 'melting'. This is caused by moisture, allowing microbial attack or hydrothermal shrinkage and gives the leather a resinous appearance. The process is irreversible and will continue if not stopped. This is observed in very few fragments, DB 1167 (Cat. No. 30) and DB 3746b (Cat. No. 64) being the most obvious examples. However, both fragments show a resinous-like condition only in cross-section: the surface itself is surprisingly intact. The absence of this type of deterioration suggests predominantly dry conditions. Examples of extreme melted leather are known from Amarna the material suffered especially or in most cases only post-excavation (Veldmeijer, 2010b; Veldmeijer & Endenburg, 2007) - and from Tutankhamun's tomb (Veldmeijer, 2010a and references therein).

Skin Processing

Skin Type Identification

As explained elsewhere⁸ (Veldmeijer, 2010b: 18 and references therein),⁹ identification of the skin type

of archaeological leather is problematic. The worn character of much of Deir el-Bachit's leather, in combination with post-depositional circumstances, even if the preservation can be qualified as excellent, prohibits identification in most cases through the absence of an upper surface and/or hair. Identification on the basis of fat content, DNA or protein sequencing of the collagen using soft-ionization mass spectrometry has not been tried: one of the reasons is that these research methods are expensive and might be only partially successful, ¹⁰ another is that it requires specialised laboratories for which sampling is needed.

In general, ordinary leather footwear is made of cow's leather (own observation, but see also Van Driel-Murray, 2000: 302) and the thickness of the leather of Deir el-Bachit's footwear leaves no doubt that this is the case here as well. The book cover leather has not been identified, but possibly is calfskin judging the thickness of some. However, the Nag Hammadi covers have been made of sheepskin and goatskin (Gabra & Eaton-Krauss, 2009: 153).

Preparing the Skin, Curing/Tanning, Colour

The slaughtering of the animal, depilating the skin and preparing it for curing/tanning11 - the first elements of skin processing, together with the actual curing/tanning, before the manufacturing of the objects - will not be given attention here. Processing of skin into leather is rather universal and described in various handbooks, giving a good idea of the process and the reader is therefore referred to these general overviews (focussing on ancient Egypt, see Van Driel-Murray, 2000: 299-306; Forbes, 1957: 1-21; Veldmeijer, 2008a: 3 and Veldmeijer & Laidler, 2008: 1216; for a description of these parts of the process on the basis of two-dimensional art and anthropological data see Schwarz, 2000: 39-70). However, very few of these tasks can be deduced from the archaeological record as presented.12 Equally, the way a skin is made durable by curing can only be confidently identified by chemical analyses and even with these modern methods many problems have been noted (see Van Driel-Murray, 2000: 316-317). A fieldtest for identifying vegetable tanning (Van Driel-Murray, 2000: 316-317; 2002a; 2002b; Leach, 1995) is a fairly simple test but the results are not always as unambiguous as one would hope (own observation Qasr Ibrim; see also Thomson, 2006: 59; Van Driel-Murray 2002a: 19-20; Veldmeijer & Van Roode, 2005). This test has not been applied and might be undertaken in the future.

Colour, besides the natural colour of the leather or colour that is due to skin processing, was not identified. In other words, with DB 2826 (Cat. No.163) being the only exception, no paint, dye or pigment seems to have been used to decorate the leather. Technically there is a distinction between pigment, paint and dye (see for example Lee & Quirke, 2000). The present work refers to these three as 'paint' because no analyses were done to determine the physical properties. Meant by the term 'paint' is a colour other than the colour of the leather itself or the colour of the leather due to the skin processing methods. There is quite some distinction in colour of the leather, varying from a light brown (e.g. DB 2725, Cat. No. 264) to the greyish black leather of the book covers (e.g. DB 2676, Cat. No. 171). It is plausible to suggest that these extreme differences in colour are due to the type of skin, in some cases in connection with the skin processing methods. Other causes of the difference in 'natural' colour are the use of the object (natural fats in the skin further cure the leather), specific circumstances during burial, which might differ distinctly - even between objects in close proximity.

Manufacturing Technology

Stitches and Seams

The use of leather thong in stitching is fairly limited before Roman times. Indeed, nearly all Pharaonic footwear (Veldmeijer, 2009a; 2009b; 2009c; 2009e; 2010a), Achariot leather, including bow cases and quivers (Veldmeijer, 2010b) and other objects such as the tent of Istemkheb (personal observation 2009; see also Schwarz, 2000: 253-258) studied thus far is predominantly stitched with sinew and, to lesser extent, flax (see also Van Driel-Murray, 2000: 207-208). This differs from leatherwork of Nubian origin, as finds from for example Hierakonpolis' C-group suggest (Veldmeijer, 2007b), which are far more often made with extremely fine and delicate

leather thongs. In post-Pharaonic times, the use of leather thongs gained importance over flax and sinew and was the main material to secure the sole layers in sandals and for stitching seams in objects such as bags and tents.

The variety in stitching and seams in Egyptian leatherwork is limited (Veldmeijer, 2010b: 19-22) but the variety in Deir el-Bachit's leatherwork is even less: only two constructional stitch types are registered. This is at least partially due to the nature of the corpus: the majority of the finds are sandals and book covers. Note, however, that more delicate leatherwork does not necessarily have to be made with different stitches: also the much older, beautifully decorated, coloured so-called chariot leather from Amarna, for example, is made with running stitches (*Ibidem*).

Running Stitch

By far the most common stitch is the running stitch (figure 2), which is the only type of stitching that was identified in the sandals. All stitching is done exclusively with narrow leather thong. The spacing of running stitches may vary. In DB 853B (Cat. No. 14), for example, the stitching is about evenlyspaced at the dorsal surface of the insole and ventral surface of the treadsole (figure 2A). In DB 879 (Cat. No. 2), the stitching is slightly more uneven; the stitching, however, is secondary, because the original slits along the perimeter have partially been cleared of the original stitching. In DB 1100 (Cat. No. 6), the stitching is very regular, but at the dorsal surface of the insole the space between the short stitches is much bigger. The reverse situation is, of course, true for the ventral surface of the treadsole (figure 2B; other good examples are DB 1501, Cat. No. 299 and DB 1903, Cat. No. 355). Stitching as shown in figure 2C can be seen as the extreme variant of the one that is shown in figure 2B.16 In contrast to the previous variant of running stitching, however, the stitching is done much more diagonally (red line in figure 2C inset) rather than nearly vertical. This is also an important feature for identification: the stitches on the obverse and reverse of an object are not opposite each other but slightly off (figure 2C Inset). The thicker a layer is (or when the stitching is done through more layers), the better this is visible. Moreover, the stitch holes appear

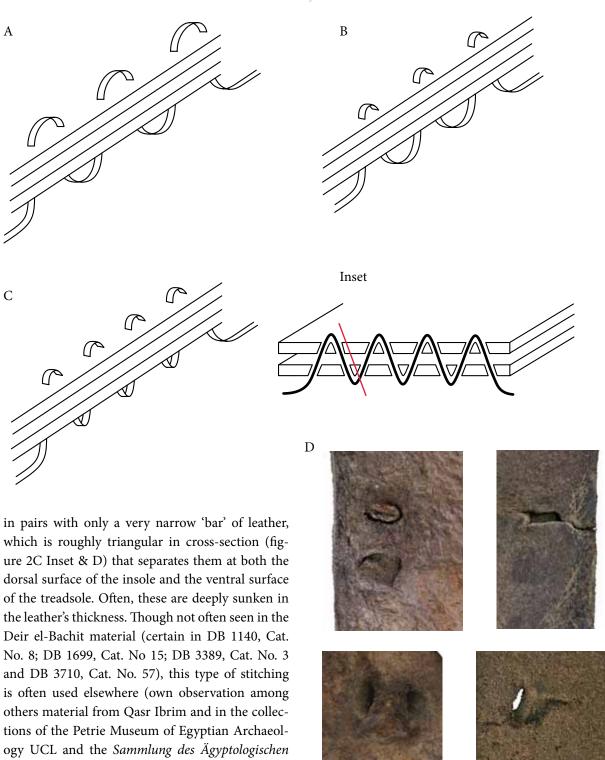


Figure 2. Several variations of leather thong running stitching. A) Evenly-spaced; B) Regular, widely-spaced short stitches; C) Extreme version of B. The thong runs much more diagonally through the leather (see also D); D) DB 1699c (Cat. No. 15). The stitch hole of the running stitch shown in C. The 'bar' has a triangular cross-section due to the diagonal course of the thong (ventral view of treadsole). Note the sunken stitch at the dorsal surface of the insole. Scale bar is 10 mm.

Several sandals from Didymoi (Leguilloux, 2006: 54 [S-092]) have been reported with running stitching as shown in figure 2C & D. Although the

Institut der Universität Heidelberg, but see also Leguilloux, 2006, discussed in more detail below, and

Montembault, 2000: 58, 93-97) and must, therefore,

be much stronger than the appearance suggests. On

the other hand, often the 'bars' are broken whereas

the leather thong is still intact.

ventral surface of sandal S-092 is not depicted, it is hard to believe that this surface shows long stitches that are shortly-spaced. But the stitches are sunken very deep and in most, the triangular 'bar' is likely to be broken. Sunken stitches do not a priori mean that the stitching itself is done diagonally. If the stitching is extremely closely-spaced - as for example seen in Didymoi's sandal S-106 (Leguilloux, 2006: 54) where the stitches almost touch each other resulting in a near-continuous row - and pulled very tight, the stitch will sink into the thickness of the sole layer too. However, the 'bar' will not have a triangular cross-section but a square/rectangular cross-section. Thus, whether or not stitching is done diagonally can only be ascertained when also the ventral surface of the sole is studied. (Near) equally-spaced stitching (figure 2A and to certain extent the stitching seen in figure 2B) can be found in Pharaonic footwear but the more extreme version (figure 2C) is post-Pharaonic – judging from the fact that it seems to occur for the first time in the Roman period, it might be a Roman introduction that lasted well into Christian times.

Whip Stitch

Whip stitching is registered in only several examples. Both functions for which this stitch is used most,17 i.e. securing an additional piece of leather (figure 3A) such as a repair patch (seen in DB 3764a, Cat. No. 387) or to close a seam (figure 3B; seen in DB 950, Cat. No. 293 and DB 2048, Cat. No. 305) occur. In all cases the stitching is done with narrow leather thong. In three examples the thong is not preserved anymore, but the traces left by whip stitching can be easily recognised by their S-shape if it is used to close a seam (DB 1719a, Cat. No. 277; DB 1314, Cat. No. 278; DB 3755b, Cat. No. 364).18 DB 3769 (Cat. No. 384) also has whip stitching to close a seam or hem - the edge of the sheet of leather is folded and secured with the stitching - but here two thongs are stitched over each other, which results in a decorative pattern (figure 3C & Inset). This type of stitching is rare and has not been noted in other Christian leatherwork.¹⁹ However, it is known from Roman leatherwork (Veldmeijer, 2007a: 35, Cat. No. 230). Moreover, there are some examples of the use of this double whip stitch in non-footwear leatherwork from Ottoman Qasr

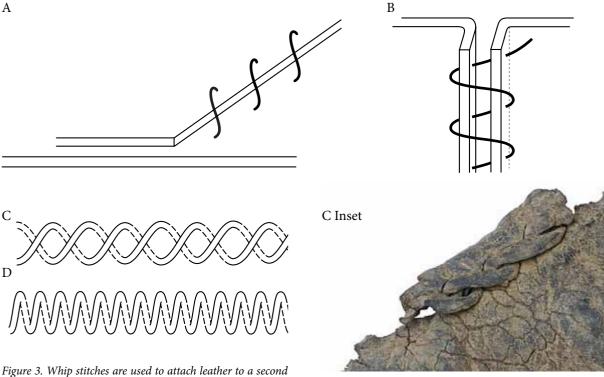


Figure 3. Whip stitches are used to attach leather to a second surface (A) and to close seams (B). Whip stitching with two thongs results in a decorative motif (C), not to be confused with single stitching that is oriented far less diagonally (D).

Figure 3C, inset. Example of decorative whip stitching (DB 3769, Cat. No. 384). Scale bar is 10 mm.

Ibrim (such as asw-0585, cam-0771 and cam-1045). Positive identification, however, is sometimes difficult, especially with close stitching and/or badly preserved fragments: the double whip stitching can be confused with long 'single' whip stitching that is orientated less diagonally (figure 3D).

Sailor Stitch

Usually, sailor stitches (figure 4) are used for repairing tears, as in all cases recorded for the Deir el-Bachit leatherwork (DB 3708c, Cat. No. 100; DB 3733a, Cat. No. 400 and DB 3212, Cat. No. 316). The diagonal stitching that runs alternately over and under both edges of the tear and thus pull them together makes it very suitable for this purpose. Its predominant use as a repair-stitch is the reason that it is not often encountered. Finds from Hierakonpolis' C-group (c. 2494-1550 BC; find HK27C 03-181) suggest that the technique was used from a very early date.

Sole/Upper Constructions

All stitching is done with leather thong, except for one of the objects that are classified as 'shoe'. Here, the stitching is done with flax. DB 3708a-c (Cat. No. 100) make up a large part of a partially intact upper and fragments of the sole. Unfortunately, the leather is hard and brittle due to which a detailed study proved impossible prior to treatment, but the different parts of the upper are secured with folded edges and flesh-grain stitching (figure 5A; this is basically a running stitch, but made with two threads in the opposite direction).²⁰ The sole/upper construction

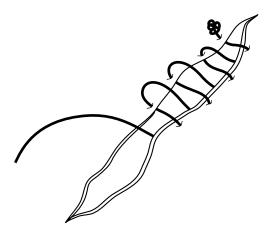


Figure 4. In sailor stitches diagonal stitching runs alternately over and under both edges of the tear to pull them together.

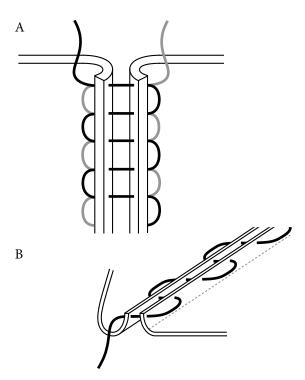


Figure 5. A) The seams in the upper DB 3708a (Cat. No. 100): the edges are folded and stitched with flesh-grain stitching of flax. Cf. figure 6; B) Probable sole/upper construction: leather thong running stitches without a rand.

in 3708a-c (Cat. No. 100) is uncertain, because the sole and upper are separated, but small remnants together with the rather crude leather thong stitches suggests that the upper was secured to the sole with running stitches (figure 5B). No remnants of rand survive.

DB 3795 (Cat. No. 99) is classified as a shoe fragment, because the smallest scrap that survives is of a much sturdier leather and seems to be part of a sole; the larger scrap is thinner and more flexible and therefore identified as upper. However, two comparable fragments (DB 945, Cat. No. 330 and DB 1509, Cat. No. 331) resemble DB 3795, except that both elements at either side of the passepoil²¹ are equally flexible and thin. Moreover, the obverse (grain surface) is decorated, suggesting that these belonged to another object than a shoe. Although impressed line decoration in shoes' uppers is noted in examples from Amarna (Veldmeijer, 2010b: 26, 87-92; AM AM 048, Cat. No. 30), it is extremely rare. The seam in DB 3795 (Cat. No. 99) is made of the folded edges of the two scraps of leather, in between which is positioned a lengthwise-folded strip of leather (figure 6). The edges and strip are secured

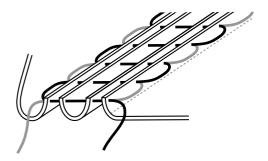


Figure 6. The seam in possible shoe fragment DB 3795b-d (Cat. No. 99) includes a rand. The stitching is done with flesh-grain stitching of flax.

with flesh-grain stitching. A passepoil is also registered in DB 3074 (Cat. No. 101), but unfortunately no sewing thread survives.

In Europe, rands are recorded as late as 1100 AD (Goubitz et al., 2001: 91) but Mould et al. (2003: 3258)²² mention rands from a 7th c. AD context. The emergence and development in Egyptian footwear is as yet unclear. However, most of the Christian and Ottoman shoes from Qasr Ibrim (respectively, Veldmeijer & Van Driel-Murray, In preparation; Veldmeijer, In preparation b) were made with rands and finds from Gebel Adda, currently under study, also show shoes with rands. Some of the shoes that were found in the Amenhotep II temple in Luxor, and dated to Ptolemaic times (Sesana, 2005: 221), are made with a rand too (Veldmeijer, In press a).23 Passepoils are a well known constructional element in later times (see Veldmeijer, In preparation b; Veldmeijer & Van Driel-Murray, In preparation) but were used in Pharaonic times too, as the chariot leather, which is dated on technological arguments to New Kingdom times, shows (Veldmeijer & Ikram, 2009).

Knots

Several types of knots have been recorded: half knots, overhand knots, reef knots, mesh knots, true-lovers-knots and hitches (figure 7). The reader is referred to other works for a detailed discussion on knots (Veldmeijer, 2006 for knots in ancient Egyptian cordage; Ashley, 1993 for knots in general). The most interesting object with a knot is without a doubt DB 3715a (Cat. No. 257), which consists of a narrow leather thong in which the ends are knotted into a reef knot. Probably, the object is a small finger ring, in which the reef knot functioned as decorative element.²⁴

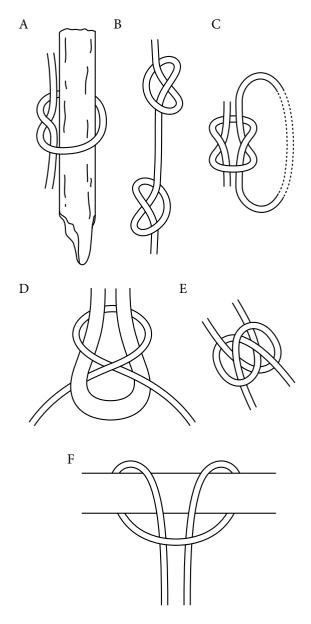


Figure 7. Knots encountered in the leather. A) Half knot; B) Overhand knot; C) Reef knot; D) Mesh knot; E) Truelovers-knot; F) Hitch. For variants and other orientation see Veldmeijer (2006).

Slit-and-Pull Technique

An often recorded technique is the 'slit-and-pull' technique.²⁵ This technique is used in two ways: two pieces of leather strips are connected to each other by one slit-and-pull connection (figure 8A) or continuously (figure 8B). The single variety is mainly used to create straps. Examples of single slit-and-pull attachments from Deir el-Bachit are DB 3753E (Cat. No. 66), DB 1103B (Cat. No. 82), DB 3725 (Cat. No. 83), DB 3712c (Cat. No. 222) and DB 3793

(Cat. No. 230). In most cases, except for the last two - hence their classification in the category 'Unidentified' - these are associated with the sandals. DB 3753e (Cat. No. 66) is a particularly good example: it is of a pre-strap with a scrap of back strap that is attached to a second scrap by the slit-and-pull technique. This suggests that the technique is mainly used for repairing two broken parts. However, a pair of sandals in the Sammlung des Ägyptologischen Institut der Universität Heidelberg shows this single slit-and-pull technique as an original construction (junction of the front and back straps).²⁶ The single slit-and-pull construction in an extraordinary shoe in the British Museum London is original too.²⁷ In a pair of sandals in the collection of the Louvre, the front strap is looped around the back strap and secured with a single slit-and-pull (Montembault, 2000: 99).

The other way of using this technique is by creating a continuous row of slits through which strips of leather are pulled. Often, this continuous slit-and-pull construction is used for aesthetic reasons. However, straps made with this technique might be stronger because of the double layer of leather: slits are cut at regular intervals in two strips of leather (or in one strip

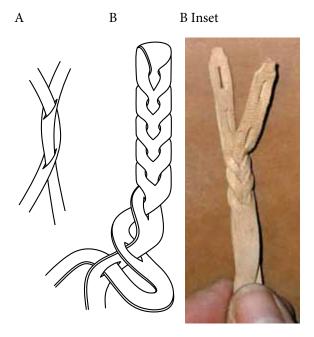


Figure 8. A) A technique to attach two pieces of leather strip, mainly used as a means of repair rather than for aesthetic reasons; B and B inset) Repeating the slit-and-pull construction results in a decorative strap, which is often seen in footwear but occasionally associated with book covers. Photography by Martin Moser.

of leather which is folded, as is shown in figure 8B inset, after which the strips are pulled through these slits alternately. The association with sandals is clear from the Deir el-Bachit finds (DB 1104a, b, Cat. No. 80; DB 997a, Cat. No. 84; 1823a, b, Cat. No. 85; DB 2203, Cat. No. 86; DB 1290, Cat. No. 87; DB 2634, Cat. No. 89; DB 3707, Cat. No. 90 and DB 335a, Cat. No. 92). More complete finds from elsewhere confirm the identification as parts of the strap complex (Brunton, 1948: pl. LXIX for examples from Matmar; Kueny & Yoyotte, 1979: 170 [note that this sandal from Antinopolis is a different type]; Montembault, 2000: 108 [is a particular beautiful example also shown in colour on the cover], 109, 110 [in two different colours, see p. 20]; Nauerth, 1996: 171-712 for a possible example from Karare/El-Hibe; Russo, 2004: 193 for another possible example from Antinopolis; Veldmeijer, 2010b describes an isolated example from Kom el Nana, Amarna [TA AM 130, Cat. No. 236] whereas another example from Kom el Nana shows the same technique, but two of such strands are attached with a leather strip; Ibidem: 237).28

Two fragments of slit-and-pull straps, however, are clearly associated with book covers (DB 2676d, Cat. No. 171), one of which is made of strips of different colour (DB 989b7, Cat. No. 149). A cross (DB 782, Cat. No. 157) is made of several strips of leather, which are secured at right angles with slit-and-pull straps. The cross is interpreted as part of a book cover and most likely hung from the bookbinding, thus possibly acting as book-marker.²⁹

Slit-and-pull technique in footwear has been reported from early Roman context (Leguilloux, 2006: 190 [dated to 110 AD]) but it does not seem to be a popular technique. The same is true for pre-Roman times. Examples from later contexts, however, are numerous (for example Brunton, 1948: [Coptic – Matmar]; Nauerth, 1996: [Coptic – Karare/El-Hibe]; Russo, 2004: 191 [Coptic – Antinopolis]), although a sandal from Antinopolis is dated to the 3rd c. AD (Kueny & Yoyotte, 1979: 170).

A comparable appearance to the continuous slitand-pull technique is the so-called 'split thong seam', which is made with one strip of leather in which "each return stitch passes back through a split in the thong itself" (Mould *et al.*, 2003: 3413; figure 8B) and which can also be seen in fibre footwear (Veldmeijer, 2009d: 100-102, 123; 2010d: 79, 106).³⁰

Braiding

One braided leather strap is registered. DB 853a (Cat. No. 199) is a strap that is made with three narrow strips of leather that are braided in an 'over one, under one' pattern. The fragment is found together with two small fragments of sandals (DB 853b & c, Cat. No. 14), although the identification of DB 853c (Cat. No. 14) as part of a sandal sole is rather uncertain.

Braiding is a good way to obtain stronger ropes. The technique is especially used with materials with short fibres, such as goat hair, but, as the leather braid indicates, not limited to these kinds of material. Braiding with leather is not uncommon (see also Leguilloux, 2006: pl. 191), although in most cases the braids are made for decorative purposes. A good example of decorative braids, albeit of a much later date and worn as late as the 19th century, is the *rahat*, a skirt made of hundreds of narrow braids that hang from a waistband (figure 9). The *rahat*, however, is a Nubian piece of clothing and although fairly common in the Ottoman layers from Qasr Ibrim, 31 they are far less abundant from the Chris-

tian layers (Adams, 1996: 175). Moreover, the *rahat*-braids are much smaller. Functional applications of braids that are roughly comparable in size to DB 853a are as handles of bags, as many examples from Qasr Ibrim prove (Veldmeijer, In preparation b; figure 10). A braid such as DB 853a (Cat. No. 199) could have been used for a variety of applications, but, remarkably, sandal straps were either plain strips of leather or made in the slit-and-pull technique and braids were never used.³²

Coils and Tubes

Two elements in several sandals can be regarded as technological features, but the choice between these elements certainly is on aesthetic grounds.³³ Coils (DB 2153, Cat. No. 70; DB 2432, Cat. No. 71; DB 2689, Cat. No. 72; DB 3200, Cat. No. 69) occur in different sizes: the smallest is 13.0 x 12.7 whereas the biggest is 35.6 x 30.1. The technique, however, is the same: a narrow strip of leather is coiled into a circular or more often oval shape and is pierced at right angles so as to allow for the passing of a strip of leather or part of the strap complex (figure 11).³⁴



Figure 9. Example of the use of small leather braids in a rahat (Qasr Ibrim, Ottoman). Courtesy of the Egypt Exploration Society.

Sometimes the strip is folded lengthwise and might be made of leather of different colour, although both together are rather rare (figure 12). Often the passing strip can be seen in relief at the outside of the coil proper (especially clear in DB 2153, Cat. No. 70 and DB 2689, Cat. No. 72). The size differences in sandals depend on function: usually the small ones are purely decorative or used with several together in a functional way (see for example Montembault,

Figure 10. Fragment of bag from Ottoman Qasr Ibrim in which the animal's extremities are turned into braided handles. Courtesy of the Egypt Exploration Society.

2000: 108). Exceptions to this 'rule' are the very small, coarse, single coils in DB 2118 (Cat. No. 78) and DB 2125 (Cat. No. 79), where they are decorative but also functional: to keep the narrow strap in place in the pre-straps (see below for details of the construction). The bigger coils are used to secure

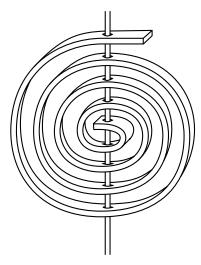


Figure 11. Coils (coiled, narrow strip of leather that is pierced at the edge) are often parts of a sandal's strap complex.



Figure 12. Pair of sandals (SAIUH.without number), which are held to the foot by means of heel- and foot straps. The foot strap consists of slit-and-pull strands that are attached in the centre by means of coils. These coils are made with strips of leather that are folded lengthwise and made of different colours. Courtesy of the Sammlung des Ägyptologischen Institut der Universität Heidelberg.

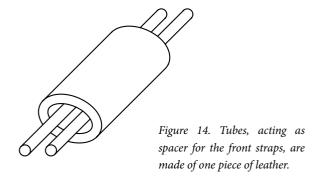
straps (*e.g.* Montembault, 2000: 110, see also figure 12). These coils are a common element in sandals as many finds suggest (for example Brunton, 1948: pl. LXIX; Kueny & Yoyotte, 1979: 170; Montembault, 2000: 108, 110; Nauerth, 1996: 271-272; Russo, 2004: 193-194); Veldmeijer, 2010b: 196 [TA AM 128, Cat. No. 125]).³⁵ Occasionally, coils are a decorative element in shoes, but these lack the piercing (Montembault, 2000: 160-161).³⁶

Seemingly, in sandals the coils are linked with slit-and-pull straps, but examples are known of strap complexes that are made of slit-and-pull strips without the coils to secure them; instead, these are secured by means of rectangular leather 'spacers' through which the slit-and-pull strips are pulled (figure 13).

DB 2844 (Cat. No. 33) and DB 3718b (Cat. No. 349) are 'tubes' – the cross-section is more or less square –



Figure 13. Pair of sandals (SAIUH 348) with partially preserved strap complex. The slit-and-pull strips are secured only by leading them through a rectangular 'spacer'. Courtesy of the Sammlung des Ägyptologischen Institut der Universität Heidelberg.



through which two narrow strips of leather are pulled that act as the sandal's straps (figure 14). The examples show plain straps rather than braids or are made in the decorative slit-and-pull technique. The tube does not have seams, which suggests that it is made from the leather of one of the limbs of an animal. The use of leg leather is not uncommon, as other examples from Deir el-Bachit show (DB 2725, Cat. No. 264 and DB 1551, Cat. No. 298). Bags in Egypt are often made in such a way that the leg skin was turned into handles (for example the bag in figure 10; see also Winterbottom, 2001: 330, fig. 10.17 on a possible example from Mons Claudianus).37 However, in DB 2844 (Cat. No. 33), the leather seems much too thick to be leg leather, because the skin in limbs usually is relatively thin. Possibly, the tube was made by a drilling a thick piece of leather, thus removing the inner part. Despite the low number of finds from Deir el-Bachit, tubes without seams are well known in sandals as spacers, mainly to secure, or possibly also to adjust and tighten, the front straps (figure 15) - examples are known from Amarna (Veldmeijer, 2010b: 234 [TA AM 131c, Cat. No. 233), the Christian layers of Qasr Ibrim (cam-3027) and from various collections.38

Montembault (2000: 95) described a tube that consists of a strip of coiled leather that is secured with leather thong stitches. Such a coil is registered from Deir el-Bachit too (DB 3729, Cat. No. 403): a coiled strip of leather is secured by stitching the outer end through the coil and, at the other side, back again, but this time not penetrating the entire coil. An even more complicated construction is seen in a sandal in the collection in National Museums Scotland, Edinburgh, which is made of one strip of leather that is folded in a serpentine fashion as to produce a decorative effect (figure 16).³⁹



Figure 15. Sandal (SAIUH 354), showing the tube in situ. Courtesy of the Sammlung des Ägyptologischen Institut der Universität Heidelberg.

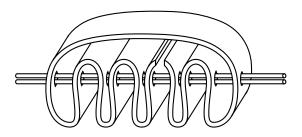


Figure 16. The sandal RSM 1911.271a in National Museums Scotland, Edinburgh, has a decorative 'spacer' for the front strap: one strip of leather that is folded in a serpentine way.

Decoration

The footwear shows several decoration techniques,⁴⁰ *viz*. impressing/stamping and the application of paint.⁴¹ The number of finds that exhibit decoration, however, is low: only three sandals showed decoration. Besides the fact that much footwear was not

decorated other reasons for the lack of decoration can be given too. Firstly, by far the most entries in the sandal category are related to straps, which usually are not decorated. Secondly, many fragments of sole are repaired extensively; if the original sole was decorated, it might not be visible anymore. Another major functional group, book covers, shows a variety of decoration techniques: impressed and incised decoration as well as painting.

Painted Decoration

DB 2031 (Cat. No. 7), a sandal's heel, is decorated with two parallel zigzag lines ('W'-shape) that are made up of black dots. Two of these relatively large 'W'-motifs are situated in the centre, between the slits for the reception of the pre-straps. Footwear with painted motifs on the sole is unusual. In contrast, sandals of which entire sole layers are made of painted leather are reported as early as the New Kingdom (Van Driel-Murray, 2000: 306-307; Veldmeijer, 2009b; see also Montembault, 2000: 110 for an undated but possibly Christian example).

One fragment of book cover (DB 2826, Cat. No. 163) has paint on the obverse. The U-shaped motif (with an average width of 3.5 mm) has a dark hue, and the leather surface is clearly affected, which is evidenced by the numerous small cracks. Possibly this is due to a chemical reaction between (elements of) the colour and the leather or the curing/tanning agencies, because the surface of the leather is damaged exactly where the colour was applied. This happened too with the two triangles that are situated inside this 'U'-motif. Above this 'U' are several red lines and other shapes of varying width, which might be remnants of text, but it is too badly preserved to be certain. In contrast to the 'U'-motif and the triangles, the leather surface here is not damaged. Although rare among the leather from Deir el-Bachit, evidence of painted decoration on book covers from Nag Hammadi (Gabra & Eaton-Krauss, 2007: 152-153), suggests it was not uncommon, although not the most favourite means of decoration.

Impressed and Stamped Decoration

The painted motifs are not the only decoration in sandal DB 2031 (Cat. No. 7) because at one of the

edges is a row of impressed zigzag motifs. These are very clear at one edge, but are less clearly defined at the heel and seem entirely absent on the other edge. The condition of the motifs at the heel and the absence at the opposite edge might be due to wear, although this would contradict the good, nearly undamaged condition of the painted decoration unless this was applied much later. It is remarkable that often this zigzag motif is ill defined.

Also the dorsal surface in the sole DB 3389 (Cat. No. 3) has impressed motifs. However, the shape is rather unclear, but is, possibly, just badly defined zigzag motifs rather than different motifs. In the centre, most of the decoration is worn away.

The stamped zigzag motif is one of the most often occurring motifs in the decoration of sandals and parallels are abundant (*e.g.* Brunton, 1948: pl. LXIX; Montembault, 2000: 92, 101; Russo, 2004: 189-190, pl. VII [note that here the motif seems incised rather than stamped])⁴² but does not occur before later Roman-early Christian times. In the Deir el-Bachit examples, the zigzag motif does occur alone, although usually it is combined with other motifs and/or lines. The impressed motifs along the edge of sole DB 2063 (Cat. No. 19) are not decorative but rather features of use. The motif is also seen in belt fragments (DB 2071, Cat. No. 182).

Only sandal DB 879 (Cat. No. 2) has other decorative motifs on the dorsal surface of the insole, but the pattern cannot be established in detail due to wear. There are at least two impressed lines that start at the front of the sandal and might have run lengthwise down the centre over the entire length. Medial to these are remnants visible of two double circles that most likely are impressed too. One of the characteristics of an impressed motif is that "because of the compressing of the leather a dark line or area will appear in these places" (Goubitz et al., 2001: 44).43 Circular motifs in particular vary in appearance. Some are impressed, showing the shallow lines that are characteristic of this technique (for example DB 2325c, Cat. No. 143; figure 17A). Other examples, such as DB 2676a (Cat. No. 171; figure 17B) already show the clear, sharp outer edges of the motif that suggests that they were made with a sharp knife-like instrument, although the perfect circular shape of the motif rules out their







Figure 17. Circular motifs in book cover leather in different appearances. A) DB 2325c (Cat. No. 143); B) DB 2676a (Cat. No. 171); C) DB 1269a (Cat. No. 122). Cf. catalogue for indication of scale.

having been cut by hand with a circular movement. Rather, they must have been made with a circular, very sharp tool like a hollow stamp. If so, the second, interior circle must have been added in a second phase. This kind of circular decoration is also seen in several fragments of book cover, such as DB

1269a (Cat. No. 122), DB 3422 (Cat. No. 170; note that here, several circles dropped out of the cut as is the case in DB 3401, Cat. No. 142) and possibly DB 2676a (Cat. No. 171). Sometimes the circular motifs were cut too far and nearly cut out of the leather (for example 1269a, Cat. No. 122; figure 17C). In contrast to the shallow impressed motifs, the centre is cut out. This, however, is coincidental rather than intended because it always occurs in the same object that also has motifs in which the interior is still present (belt DB 895b, Cat. No.184; DB 2554, Cat. No.189). Possibly the loss of the interior happened in use rather than during manufacture. Slightly different are the circles in DB 3754 (Cat. No. 195), which have comparable sharp edges, but the interior is still there. However, in at least two there are traces of a second circle inside the big one.

Circular motifs are universal in decoration and can be seen in many sandals as well as other objects (such as belts, see below; see Montembault, 2000: 97-98, 101, 103, 108-109, 111, 114-115 for several examples). Pharaonic leather sandals might have impressed decoration but the circular motif is not common (be it footwear or non-footwear). A pair of sandals from the Nagada I period in Turin has impressed, diagonal lines at the dorsal surface of the sole but the examples with impressed line decoration from later periods show simply one or two lines that follow the shape of the sandal along the edge, sometimes accompanied by a smaller 'sandal-shaped' line impression in the centre (see for example Veldmeijer, 2009b). Sandals of a Nubian origin, such as the Cgroup finds from Adindan (Williams, 1983: 65-75) only have impressed line decoration but finds from for example Gebel Adda, which is roughly contemporaneous with the Deir el-Bachit finds, sometimes have an intricate impressed design of several motifs (own observation, but see for an example Veldmeijer, 2010c). Also the motifs with lines that run diagonally across the dorsal surface as seen in the Nagada I period, mentioned above, are not uncommon in footwear that is associated with Nubians (for example from Hierakonpolis' C-group; note, however, that this decoration is incised44).

The most popular way in Pharaonic times to decorate sandals (Veldmeijer, 2009b), shoes (Veldmeijer, 2009a) and other leatherwork (Veldmeijer, 2010b; Veldmeijer & En-

denburg, 2007), besides the use of bright colours (especially red and green) is appliqué (see also Van Driel-Murray, 2000: 311; Veldmeijer, 2008a: 5; 2010b: 22-24, 93-143; Veldmeijer & Laidler, 2008: 1216), which is largely abandoned in post-Pharaonic times. In pre-Roman times impressed and stamped decoration occur in quivers (Schwarz, 2000: Catalogue C, no. 44-46) and dog collars, among others from Maiherpri (own observation)⁴⁵ but is not common. In mummy braces, however, it is very common (own observation Berlin; see also for example Doetsch-Amberger, 1995; Stannage, 2005)⁴⁶ as well as in wrist protectors (Müller, 1989).

Other impressed or stamped motifs are rectangles, seen at the anterolateral edge of sandal DB 879 (Cat. No. 2), close to the inner side of the edge stitching. These small rectangles are relatively deep. Several motifs only occur in belt fragments. DB 2071 (Cat. No. 182) has two horizontal lines and two vertical bands of X-motifs. As with the above-mentioned circular motifs, these X-motifs have sharply-defined, straight edges (figure 18A), suggesting they were made with a sharp knife. However, the regularity of the motifs suggests the use of a sharp X-shaped tool, most likely a stamp, driven into the leather with a swift but very powerful movement. Also on this fragment are the shallow W-motifs, which are impressed. In contrast to the X-motifs, the edges of the W-motifs are sloping rather than straight (figure 18B).

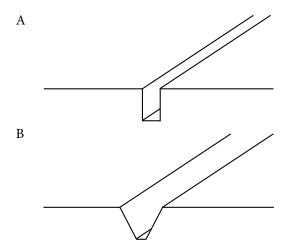


Figure 18. DB 2071 (Cat. No. 182) shows two different decoration techniques. A) Stamped X-motifs; B) Impressed W-motifs.







Figure 19. DB 2393 (Cat. No. 191) has three motifs. A) The rosette motif is universal; B) & C) These motifs are very rare and C) has no parallels thus far. Cf. catalogue for indication of scale.

Belt DB 2393 (Cat. No. 191) has an elaborate decorative design, consisting of three different motifs. The most common of these are the rosettes (figure 19A), which is a motif already common in the Pharaonic period in Egypt (and far abroad⁴⁷). The rosettes in DB 2393 (Cat. No. 191) are stamped with, interestingly, a stamp in relief because the centre of the stamped decoration is in high relief (thus in the stamp itself, this element would be hollow) and the





Figure 20. DB 2389 (Cat. No. 190) has two different motifs. A) Stamped motif (resembling a Coptic cross) in high and low relief; B) Incomplete impressed motif. Cf. catalogue for indication of scale.

petals in low relief (thus in high relief on the stamp itself). A stamp with high and low relief is also used to produce the other two motifs. These motifs, combining diamonds with dots and lines (figure 19B & C), are rare and the motif shown in figure 19C is, to the best of my knowledge, not reported anywhere else. The motif in figure 19B, however, is also present in one of the Coptic manuscripts in the Piermont Morgan Library (Cockerell, 1932: pl. V) and is dated to the end of the 10th c. AD. Another unique motif, which is also stamped with a stamp in relief, is seen in the possible belt fragment DB 2389 (Cat. No. 190). The square low-relief-motif (figure 20A) consists of two lines in high relief that cross each other in the middle. The terminal ends



Figure 21. DB 3013 (Cat. No. 181) is entirely covered with gouged motifs.

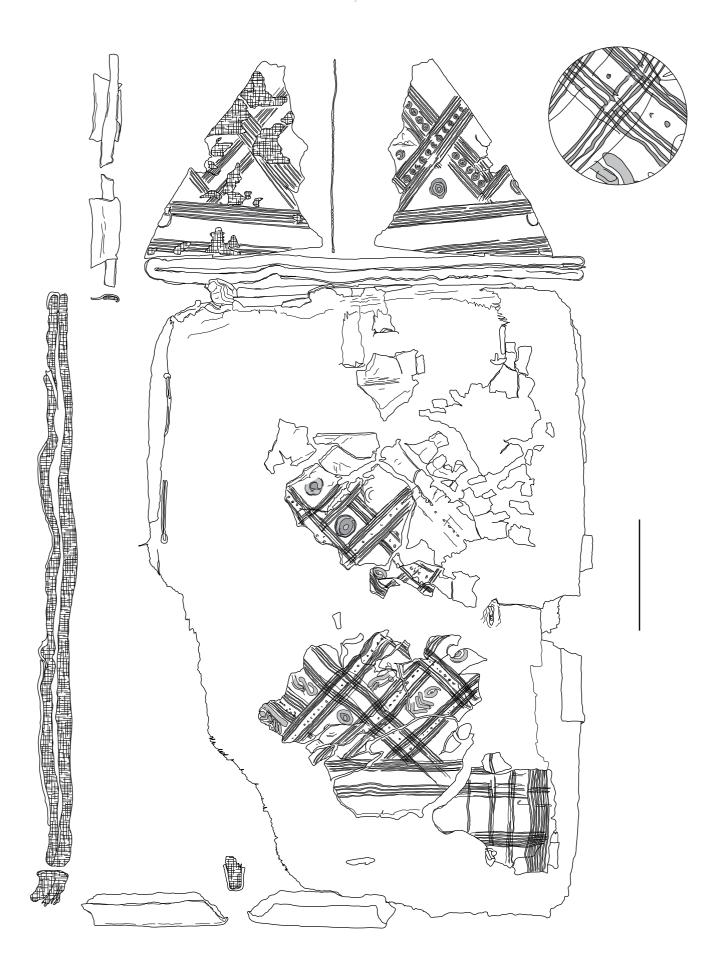
of the cross slightly increase in width, thus resulting in four compartments. Each of these compartments contains a circle in high relief. The fragment has another impressed motif, which is, unfortunately, incomplete (figure 20B). It consists of a central line that is orientated lengthwise, from which run diagonal lines outwards, ending in circles. The reverse(?) of DB 3013b (Cat. No. 181) is entirely covered with small motifs (figure 21). The rough surface of the motifs as well as the fact that the individual motifs slightly differ from each other, suggest that they are not made by stamping or impressing, but possibly by gouging, a technique that is very common in the leatherwork from Gebel Adda.

Some fragments of book covers show elaborate decorative designs, consisting of lines, rosettes, crosses, circles, stars, spirals and peculiar irregular motifs (seen only in DB 1306, Cat. No. 146), several of which are seen combined in some fragments.⁴⁸ All decorated fragments, however, have line decoration although the composition often differs. Usually, sets of parallel lines are used parallel to and/or at an angle to other sets of parallel lines. A set might consist of three lines (DB 2196, Cat. No. 175 [figure 35]; DB 975, Cat. No. 158 [figure 25]; DB 1306, Cat. No. 146 [figure 27]), four lines (DB 989b, Cat. No. 149 [figure 26B]; possibly DB 975, Cat. No. 158 [figure 25]; DB 1306, Cat. No. 146 [figure 27]; DB 2116, Cat. No. 127 [figure 33]; DB 322, Cat. No. 174 [figure 22]; DB 2027, Cat. No. 148 [figure 30]; DB 1510, Cat. No. 147 [figure 28]; DB 2044, Cat. No. 113 [fig-

ure 31] and DB 1716, Cat. No. 173 [figure 29]) or even more (five in DB 989a; Cat. No. 149 [figure 26A]; DB 989b, Cat. No. 149 [figure 26B]; DB 2143, Cat. No. 123 [figure 34]; DB 2027, Cat. No. 148 [figure 30] and DB 1510, Cat. No. 147 [figure 28] and six in DB 322, Cat. No. 174 [figure 22]; DB 989a, Cat. No. 149 [figure 26B] and DB 1510, Cat. No. 147 [figure 28]). Although it seems in most fragments that the sets are vertical and/or horizontal, the larger fragments such as DB 2196 (Cat. No.175; figure 35) and DB 322 (Cat. No. 174; figure 22) suggests that these too were part of a much more elaborate design that combines horizontal and vertical running sets with diagonal sets. DB 2196 (Cat. No. 175; figure 35) is exceptional in that the line decoration is made with sets of three (and one set of only two lines, which might be a mistake) whereas in most other fragments the design consists of sets of more lines and/or sets of different number of lines (cf. DB 989b, Cat. No. 149 [figure 26B] and DB 1510, Cat. No. 147 [figure 28] where a set of three, four, five and six lines are combined). Details like these allow us to rule out possible fits between the various fragments. An extraordinary design is seen in DB 325 (Cat. No. 169 [figure 23]) where single horizontal and vertical lines divide the surface into squares that are further divided by diagonal lines. Another design is unique too: the lines in DB 2100a (Cat. No. 128 [figure 32]) consists of three parallel lines, the outer two of which are in low relief and the middle one in high relief.⁴⁹ Usually, the lines that make a set as well as the sets themselves are clearly separated. In fragment DB 2044 (Cat. No. 113 [figure 31]), however, two relatively wide lines are placed against each other. These diagonal lines, as well as the other, vertical lines, are clearly defined, which differs from most of the line decoration in the other fragments.

Many of the impressed lines terminate in rounded ends and at some points the rounded end of the next line is positioned on top of or close to the previous one (*e.g.* DB 322, Cat. No. 174 [figure 22 inset] and DB 2196, Cat. No. 175 [figure 35 inset]). Moreover, some lines in DB 2196 (Cat. No. 175; figure 35)

► Figure 22. Fragment of book cover DB 322 (Cat. No. 174). The triangular piece is DB 1715, that apparently belonged to it. Inset: detail of the start of the impressed line decoration.



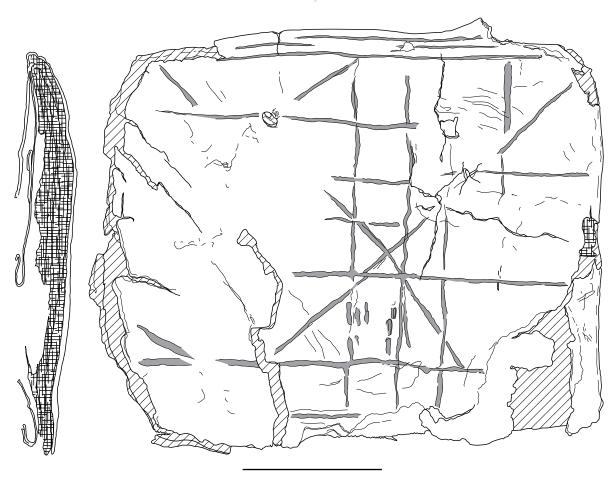


Figure 23. Fragment of book cover DB 325 (Cat. No. 260).

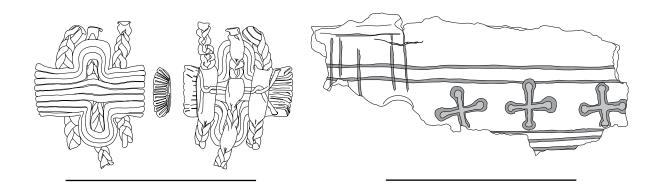
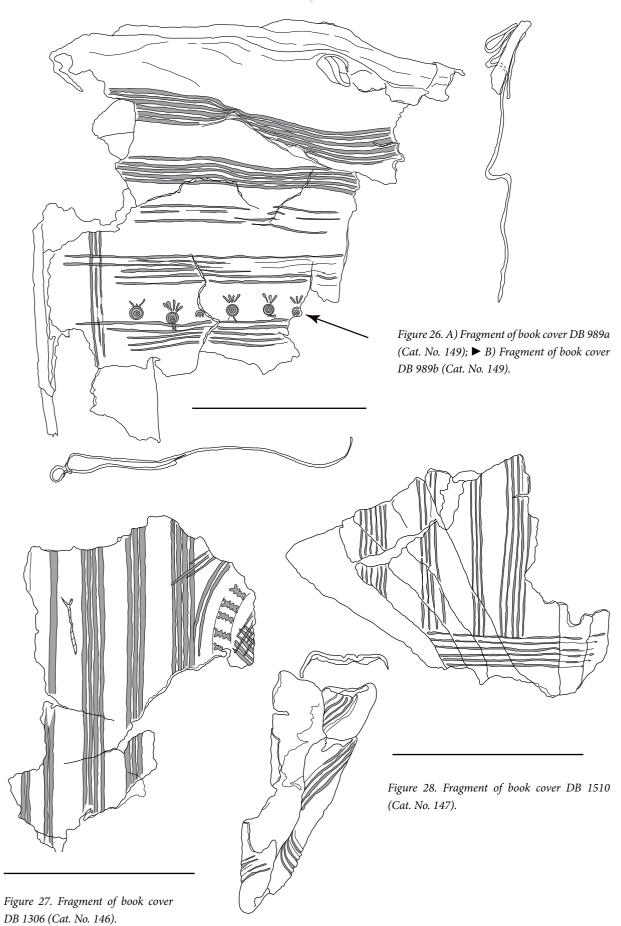


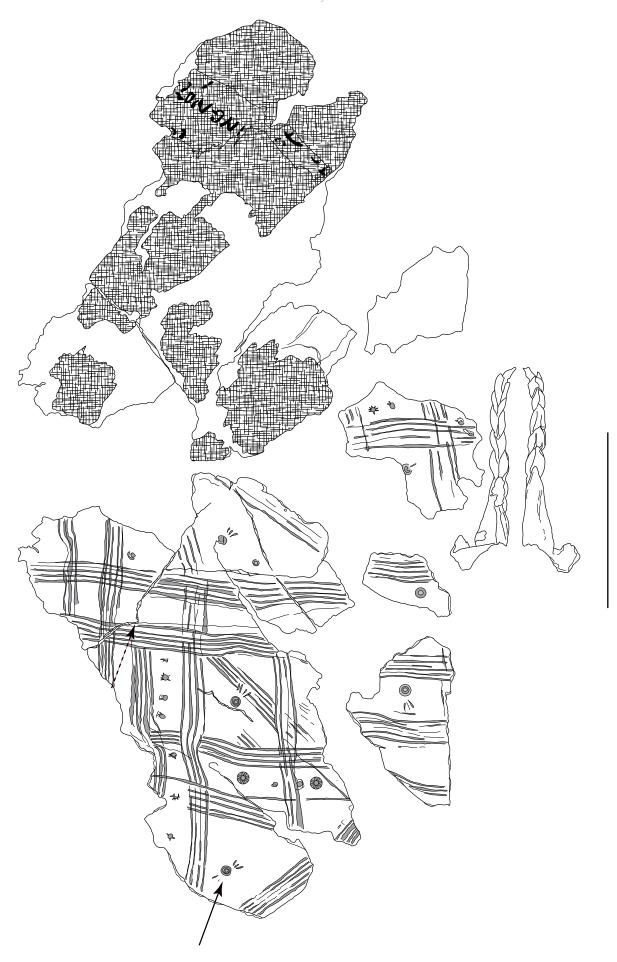
Figure 24. Fragment of book cover DB 782 (Cat. No. 157).

show such rounded ends at both ends of the line (arrows), suggesting the length of the tool that was used. Note that this does not necessarily mean that the tool itself had a rounded end: motifs made with this technique will not show clear-cut lines but have rather smooth lines instead (figure 36). The lines are about 65 mm long. The decoration of this fragment is partially based on the length of the tool:

Figure 25. Fragment of book cover DB 975 (Cat. No. 158).

rather than the line having been lengthened with an additional impression, lines were applied at an angle. Although it is possible that one tool was used that created several lines in one go, it is more likely that a tool was used that each time produced only a single line impression, judging by the differences in number of lines in a set. Moreover, the lines are sometimes so close together that it would be very





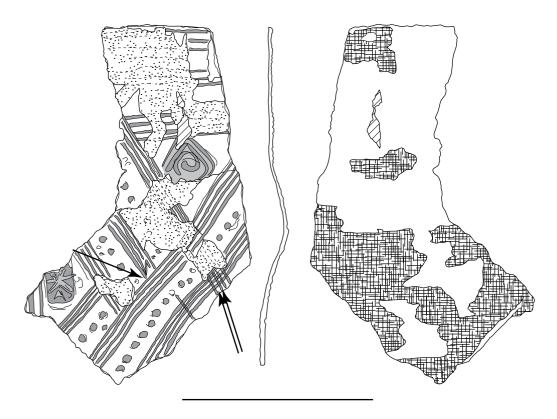
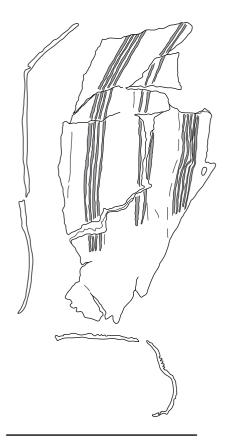


Figure 29. Fragment of book cover DB 1716 (Cat. No. 173).



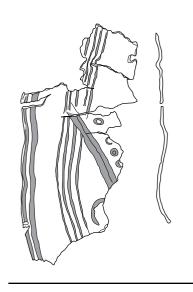


Figure 31. Fragment of book cover DB 2044 (Cat. No. 113).

Figure 30. Fragment of book cover DB 2027 (Cat. No. 148).

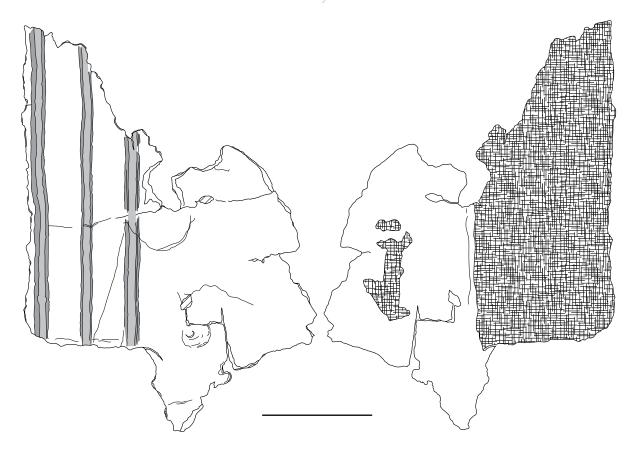


Figure 32. Fragment of book cover DB 2100a (Cat. No. 128).

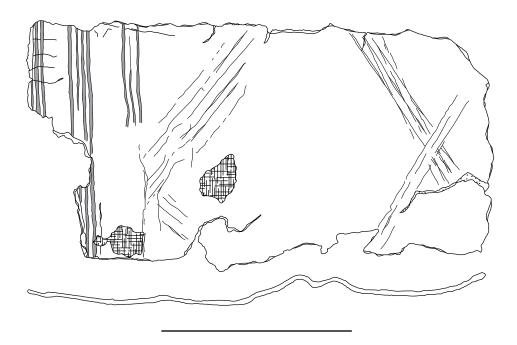


Figure 33. Fragment of book cover DB 2116 (Cat. No. 127).

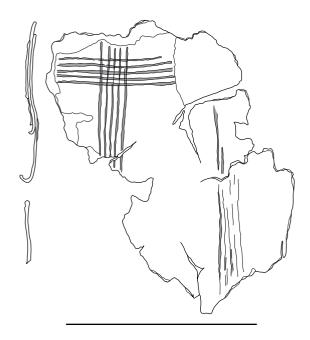


Figure 34. Fragment of book cover DB 2143 (Cat. No. 123).

difficult, if not impossible, to push the leather into the spaces between the lines of a tool that had to produce multiple lines in one go. The sequence of application often cannot be determined; it is therefore extraordinary that it could be established that the diagonal lines in DB 1306 (Cat. No. 146; figure 27) were applied over the vertical lines.

According to Goubitz *et al.* (2001: 44) "a dark line or area will appear" in the places that are compressed by impression or embossing. The reverse (*i.e.* flesh side) of DB 1715 (Cat. No. 172; figure 22) shows this very well, which suggests that at least in this example, the decoration was applied to the not-visible surface. However, the black colour of the obverse (*i.e.* grain side) often does not allow the recognition of the discoloration, but at least some motifs were clearly applied to the obverse.

Some of the most remarkable but nevertheless expected stamped motifs are crosses, which are seen in only two fragments. DB 975 (Cat. No. 158; figure 25) shows three almost complete crosses. The outline is impressed and thus in low relief. The centre appears in high relief but is not protruding beyond the rest of the leather's surface. In other words, the tool must have been hollow in the shape of the outline (figure 37). Although it is tempting to suggest that the double crosses in DB 2196 (Cat. No. 175; figure 35) are made by stamping them twice with the same tool as the aforementioned crosses in DB 975 (Cat. No. 158),

we can rule out this possibility because the inner parts are too different (especially the ends: in DB 2196 they widen much more than the ends of the crosses in DB 975). I have not encountered any parallels.

A peculiar and to the best of my knowledge a motif without any parallels, is the star-like motif in a rectangle in DB 1716 (Cat. No. 173; figure 29). The decoration is, however, badly preserved as can be seen in the photograph in the catalogue and we cannot, therefore, be entirely sure that it is actually a star. The rectangle is in low relief with the star-like motif in high relief. The same fragment has also a 'spiral' motif in a square or perhaps diamond: the spiral is in high relief. This motif might also be seen in DB 2196 (Cat. No. 175; figure 35) but the preservation is too bad to be certain. It might be something comparable to the motif seen

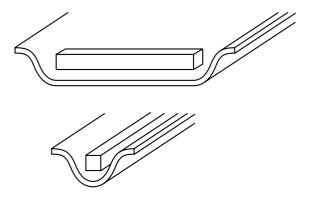


Figure 36. Longitudinal- and cross-section of applying impressed motifs. The edges of the impressed motif are not clear-cut as seen in incised or openwork decoration but rather smooth, which might lead to the erroneous assumption that the tool had a comparable shape.

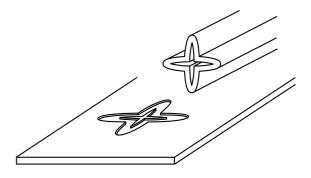
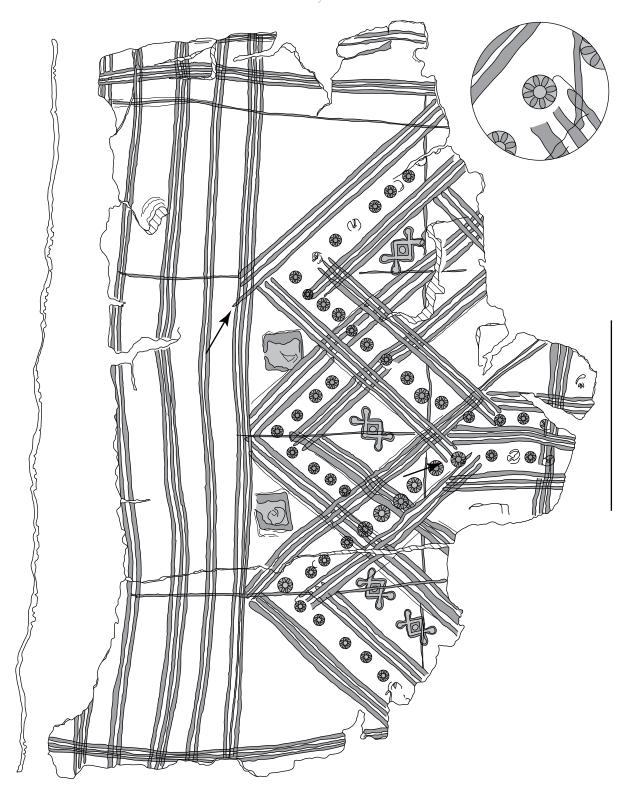


Figure 37. The crosses in fragment DB 975 (Cat. No. 158) are made with a hollow stamp.

► Figure 35. Fragment of book cover DB 2196 (Cat. No. 175).



in one of the Hamuli bindings headpieces (Depuydt, 1993: pl. 174).

The most popular motif that is used for decoration of the book covers, besides the impressed lines previously discussed and the circle motif discussed with the footwear (but see also below),⁵⁰ are rosettes. If we take

DB 2196 (Cat. No. 175; figure 35) as example, they are usually placed between sets of parallel lines. Different tools must have been used for these because they differ (slightly) in size. The average diameter, however, is about 3 mm. The entire motif is stamped, with the rosette (centre and petals) in high relief. Distinctly

different from this common rosette (note the difference with the rosettes in other objects, such as the belt DB 2393, Cat. No. 191 in which the centre is in high relief and the petals in low relief) are the rosettes seen in DB 2372a (Cat. No. 144). These rosettes are not only much bigger, but they have more petals as well, which are longer and more elongated. DB 989a & b (Cat. No. 149; figure 26A & B) shows remnants of rosettes(?) in which the petals seem to be detached from the centre (arrows), but the condition of the leather is too bad to be certain about the shape.

Incision

Incised decoration⁵¹ is only seen in several small fragments of thin leather, that are tentatively identified as book cover (DB 3801a-p, Cat. No. 176). The identification is tentative, because there are no parallels known from Deir el-Bachit or Qasr Ibrim. The small size of the fragments prohibits the identification of the motifs, but two fragments clearly show squares (DB 3801i & j, possibly DB 3801d too) and four show a combination of circular motifs and lines (DB 3801a, c, f & l). For incised circular motifs see 'Impressed and Stamped Decoration'.

Incision is one of the oldest, if not *the* oldest decoration technique. It might very well have been discovered by accident while cutting the leather into the required shape, leading to more complicated and elaborate decoration techniques. However, it has never gained much popularity in Egypt. Moreover, usually motifs are rather simple and the discussed Deir el-Bachit fragments are therefore an exception.

Weaving

Two fragments (DB 3464, Cat. No. 409 and DB 3742a, Cat. No. 405) have woven decoration, which is a type of decoration that is recorded at least as far back as Middle Kingdom times (fragment of quiver(?) from tomb 830 in el-Khokha, Thebes) and has been noted in several New Kingdom objects, including some of Tutankhamun's shoes (Veldmeijer, 2010a). However, despite the decorative value, it is only applied rarely until post-Roman times. In weaving, the leather is stabbed, resulting in short slits in multiple rows, through which a narrow strip of leather (or in the case of Tutankhamun's shoes

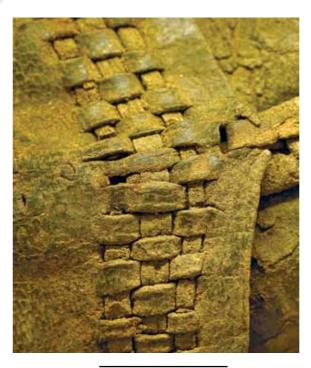


Figure 38. Decorative weaving was recorded twice. This is an example of alternating weaving of narrow leather strips through series of slits from Qasr Ibrim (cam-3682). Courtesy of the Egypt Exploration Society. Scale bar is 10 mm.

and sandals, a strip of gold) is woven, usually in an alternating pattern (figure 38). Often, the woven strip is of a different colour as seen in DB 3464 (Cat. No. 409), but not always. This type of decoration is used in a variety of objects, such as the above-mentioned footwear, but also in belts.⁵² Several fragments of book cover from the Early Christian layers of Qasr Ibrim are decorated with one narrow strip through slits.⁵³ This is only seen in two small fragments of book covers from Deir el-Bachit (DB 985, Cat. No. 126 and DB 3439, Cat. No. 165).

The Objects

Only those objects from the category 'Unidentified' of which tentative identification is possible due to their features or parallels are discussed.

Footwear

The ongoing nature of the AEFP means that a classification of the Deir el-Bachit footwear in the AEFP typology is, for the time being, not possible. There-

fore, as explained above and elsewhere (Veldmeijer, 2009f: 5), the finds will be referred to within existing typologies (Montembault, 2000; on Leguilloux's typology [2006] with regard to the Deir el-Bachit material see above and Veldmeijer, 2009f: 3).

Only four more or less complete sandal soles have been identified; all other entries are fragments. Most specimens show an extremely high degree of repair. This prohibits the identification of the original type of sandal. Besides these (fragments of) soles, there are several coils (such as DB 2153, Cat. No. 70; DB 2432, Cat. No. 71; DB 2689, Cat. No. 72 and DB 3200, Cat. No. 69), which originate from sandal straps (see 'Coils and Tubes'). However, because several types of sandals, and even shoes, might have such elements, the finding of these isolated footwear parts does not give a clear indication of the range of footwear.

All recognisable sandals (or sandal parts) fall in Montembault's category 'Class I, Type B, Variant 2' (Leguilloux 2b).54 Sandals I, B, 2 are characterised by the strap complex, and in particular by the construction of the back strap. A pre-strap, which basically is a narrow strip of leather, is pulled through slits in the insole on either side of the sandal (figure 39A); between the two slits, the pre-strap is thus sandwiched between the insole and the midsole (if there are more than two sole layers) or treadsole (if there are only two sole layers). In the examples known from Egypt (Montembault, 2000: 98-105; all sandals studied by the author), the slits in the sole are situated away from the edge quite distinctly. In two sandals from Gebel Adda, which are tentatively classified as I, B, 2 sandals,55 the slits are situated much closer to the edge. Gebel Adda is a Nubian settlement, south of Abu Simbel, but it seems premature to conclude that this small difference is due to difference in region and/or tradition. Moreover, as yet, the dates of the Gebel Adda examples are unclear.

A problem arises with isolated pre-straps, because it is not possible, in most cases, to determine whether they were pulled through slits in the insole or, as in Montembault's 'Class I, Type B, Variant 3', emerged from the edges of the sole (figure 39B). Remarkably, although this type of pre-strap usually consists of one piece of leather, each end of which emerges from one of the slits in the sole (see for example DB 1236, Cat. No. 5, but see also Mon-

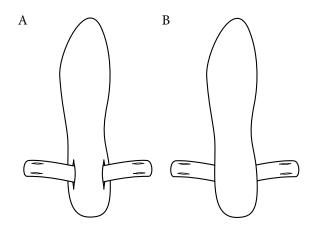


Figure 39. A) The pre-straps in Montembault I, B, 2 sandals run through two slits in the insole; B) In Montembault I, B, 3 sandals, the pre-straps emerge from between the insole and the mid- or treadsole.

tembault, 2000: 103), complete isolated pre-straps have not been found. Examples are known of sandals where a pre-strap does not run from side to side, but rather is secured at the slit from which it protrudes (cam-1258, Veldmeijer, In preparation b). This is a weak construction and the example referred to is clearly a repair.⁵⁶

The ends of the pre-straps have (a) slit(s), usually two or three, to which the back/heel straps are hitched. Montembault (2000) does not use the number of slits in the pre-strap in her classification. Enigmatic for the time being is why in some finds the back straps have been pulled through the sides of the pre-strap (*i.e.* through the thickness) after being hitched first (for example DB 2118, Cat. No. 78).

A strap construction as in I, B, 2 sandals (figure 39A) is known from Roman Didymoi (1st-3rd c. AD, Leguilloux, 2006: 3-4) and finds from the Ottoman layers of Qasr Ibrim (c. 1570-1811 AD)⁵⁷ show the long tradition of this construction. The origin, however, is less clear. It seems unlikely that the Romans brought it with them from Rome, because finds from Europe suggest they used the system of letting the pre-strap emerge from the sides rather than through cuts in the insole (personal communication Carol van Driel-Murray & Marquita Volken, 2009). Thus the origin might be found in a different region - possibly further south in Africa – or from within Egypt as an alternative to the Roman way of pre-strap attachment. This type of pre-strap (viz. the I, B, 2 strap - figure 39) was unknown in Pharaonic times.

The front strap in DB 879 (Cat. No. 2), though lost, would have been pulled through two slits in the insole, which are positioned transversely one behind the other. The front strap is thus sandwiched between the insole and treadsole and does not show at the ventral surface of the treadsole.58 The front strap is secured in a simple way: the terminal end has a larger width than the slit in the sole, preventing it from slipping through (DB 1155, Cat. No. 11 is a good example and DB 3714b, Cat. No. 93 possibly is another). This technique was already used in New Kingdom Egypt, as examples of composite leather sandals suggest (Veldmeijer, 2009b) but is, without a doubt, much older. It is used in a wide variety of sandals. Comparable sandals from Qasr Ibrim differ at one important point: the sandals have a double front strap running between the first and second and third and fourth toe as opposed to the single front strap that runs between the first and

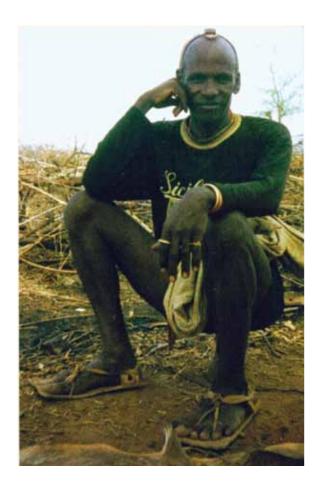


Figure 40. In Ethiopia, simple leather sandals with a double front strap are still being used. Note the pre-straps that are integrally cut from the sole's leather. Copyright by Susanne Epple.

second toe in the Deir el-Bachit finds (and the sandals published by Montembault). As explained elsewhere (Adams, 2005, Figure 61, Plate 25; Adams & Adams, 1998: 62-64; Veldmeijer, 2006/2007: 73; Veldmeijer 2008/2009: 111; see Williams, 1983: 75 for additional remarks), the double front strap is a typical Nubian or, perhaps more likely, African tradition of wearing sandals⁵⁹ and such sandals are still worn in, for example, present-day Ethiopia (figure 40).

DB 2903 (Cat. No. 43) is an interesting sandal. It is made of very thin leather that is roughly torn in the shape of a sandal, suggesting it was made of re-used leather. The straps – only a fragment of a cabled fibre string remains – were inserted through holes at the heel as well a through one hole in the front. The sandals seem to be a poor-man's sandal and/or made by someone him or herself whose occupation had nothing to do with leather or footwear. Sandals that are made of very thin leather are seen more often and usually, though not exclusively made for children. Makeshift, secondary straps of fibre are, surprisingly, not often seen – usually, the leather straps are repaired rather than substituted with fibre straps. He is a substituted with fibre straps.

No records from elsewhere are known of I, B, 2 sandals with a strap complex as seen in DB 2118 (Cat. No. 78)62 and DB 2115 (Cat. No. 79): it consists of two vertical elements that taper towards the top, which has slits to which the back- and heel straps are secured. Remarkably, comparable straps are not reported for any sandal to date, and although many features point to their being sandal straps (size, shape of the strips through which the narrow back- and heel straps are pulled, the small coils), we cannot be absolutely certain about this function without such an element in situ. However, if we accept this tentative identification, the straps are of unusual construction in the fact that two pre-straps are situated very close together, suggesting these both belong at one side of the foot. Although such a construction is rare, the use of 2 x 2 pre-straps, albeit of a different design, is seen in a much older, leather composite sandal (Veldmeijer, 2009b: 15-18). Possibly, the straps of only one sandal are amongst the Deir el-Bachit finds, because the other entry, DB 2125 (Cat. No. 79) might very well be the opposite part of this strap complex. Note that this strap complex includes a heel strap, an element that is not always present in sandals.

'Insignias'

Although most of the eleven objects, tentatively identified as 'insignia,'63 are made of fairly thin leather, several are made of thicker leather (among which is DB 2869, Cat. No. 105). A general description is difficult to give (see the catalogue), but most of them are made in the same way and include decorative stitching with leather thong. The objects consist of two layers on top of each other, one of which is pulled through a small slit in the other (figure 41). All seem to have been objects in themselves, but DB 3141 (Cat. No. 106) clearly shows evidence that it belonged to a bigger object: the leather is torn off without giving a hint of its use. No parallels are known for these enigmatic objects. At a meeting of the Archaeological Leather Group in Cambridge in 2009, the identification as insignia or token was regarded as plausible. An alternative explanation of these objects, however, might be as part of a leather sandal's strap complex. Sandals from the Christian layers from Gebel Adda and Qasr Ibrim sometimes have large, decorative elements on the straps to hide the junction of the back and front strap and/or the back strap with the pre-straps (figure 42). Possibly, the Deir el-Bachit 'insignias' are comparable elements. However, all known examples of these decorative sandal elements are of completely different

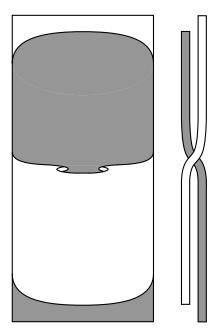


Figure 41. Construction of the objects that are tentatively referred to as 'insignia' (based on DB 1192, Cat. No. 109).



Figure 42. Nubian sandals such as these from Gebel Adda in the Royal Ontario Museum, Toronto (973.24.2699), sometimes have decorative elements to hide the junction between front and back straps.

shape and with different decoration (appliqué, open work rather than stitching). Moreover, sandals with such decoration are known from Nubian contexts and do not fit the 'Egyptian'/'Christian' tradition as we know it at the moment.

Another possibility, and perhaps more plausible, is that these items are parts of book-markers. Usually, book-markers consist of a small strap that terminates in a wider, decorated part (Lamacraft, 1939: 231, pl. Vb). Although the examples shown are much more decorated, I can imagine that less elaborately decorated book-markers did exists, perhaps the Deir el-Bachit 'insignias' being examples.

Book Covers

The fragility of the fragments of book covers makes the survival of large quantity as well as the size of some of these exceptional. Nonetheless, an estimated 120 original bindings are known in museums and libraries (Glaister, 1996: 113-114). A famous find is without a doubt the Nag Hammadi Library (Robinson, 1988), popularly known as 'The Gnostic Gospels'. These books are dated to the 3rd and 4th c. AD and is therefore somewhat older than the Deir el-Bachit material. Another important discovery of Coptic books is the Hamuli Gospels (found in Hamuli, Fayum), which date to the 7th or 8th c. AD.

Unfortunately, it cannot be identified with certainty for most of the Deir el-Bachit fragments from what type of binding they originate, because few constructional elements have survived,⁶⁴ but both common types of binding are among the finds. DB 2146 (Cat. No. 120) is the terminal element of the fore-edge flap as seen in the Nag Hammadi books (*cf.* the Hamuli bindings [with pegs] in Depuydt, 1993: pl. 460, but see also the straps in the Nag Hammadi Codices in Farid, 1972: 1-4;⁶⁵ nice image in Gabra & Eaton-Kraus, 2009: 152-153; Rosen-Ayalon, 1991: 408).

The covers of the Nag Hammadi texts were made of flexible leather that was stiffened with waste sheets of papyrus, which was a common technique (however, occasionally other materials were used to stiffen the cover, such as wood). The fore-edge flap was folded over the front edge and the fore-edge strip of leather was wrapped around it and tied (Ibidem; see also Szirmai, 1999: 9). Other, smaller, straps of leather were in some examples attached to the short sides of the book for tying it even more. Evidence that at least some of the books from Deir el-Bachit were closed with straps comes, besides the above mentioned fore-edge flap DB 2146 (Cat. No. 120), especially from DB 2676a & b (Cat. No. 171). Probably, many of the straps in the catalogue and possibly some of the belts are fragments of these fastening straps for books.

DB 325b (Cat. No. 169) and DB 322 (Cat. No. 174)⁶⁶ indicate that books with so-called boards were in use as well. As Rosen-Ayalon explains (1991: 408) "most fourth-century boards consisted of layers of waste papyrus cartonnage (paper boards) pasted inside leather covers to stiffen them" but again nothing can be said about the way these books were bound.

Comparisons of the fragments of book covers with other finds show that the design, despite several unique or rare motifs, is rather simple and open in its design (it is in post-11th c. AD times that the Coptic *horror vacui* reached its peak, Rosen-Ayalon, 1991: 409). The goat skin bindings of the Hamuli Gospels are elaborately decorated (some more elaborately than others, including many different motifs and designs). Although some motifs in these bindings are also found in the Deir el-Bachit covers, one binding is of particular interest (M599, lower cover; Depuydt, 1993: pl. 453; see also Falck & Lichtwark, 1996: 229) because the design includes horizontal, vertical and diagonal impressed lines as well as double circles. In addition there are cut-out circles, which might support the above explained theory about the nearly cut-out circles in some of the Deir el-Bachit finds.

There are many different crosses but the Coptic cross is always recognisable by its equally long arms. But details, especially the shape of the ends of the arms, differ. The Hamuli finds show that these ends can be triangular (e.g. Depuydt, 1993: pl. 24 & 26); can have bars at right angles to the arm (e.g. Ibidem: pl. 25); end in stair-step fashion (e.g. Ibidem: pl. 260) or a combination (e.g. Ibidem: pl. 27). The crosses in DB 975 (Cat. No. 158) differ from these, as the ends of the arms have a rounded shape, which is without any parallels. An example from the Pierpont Morgan Library shows a leather knob that is thought to represent a gemstone (Cramer, 1964: 125) and one wonders, therefore, whether the rounded terminal ends of the crosses in the Deir el-Bachit bindings have a comparable function, i.e. representing an expensive gemstone.

An interesting motif, although not seen in the leather bindings, is a painted rendering of the slit-and-pull technique of straps in the Hamuli books (Depuydt: *e.g.* pl. 178, 286). Several leather straps in this technique are clearly associated with book covers (DB 989, Cat. No. 149; DB 782, Cat. No. 157; DB 2676d, Cat. No. 171).

Fastenings

DB 3712 (Cat. No. 178)⁶⁷ is a narrow, long strip of leather that ends in a rolled toggle. Toggles like these are well known from Roman layers (Brun & Leguilloux, 2003: 543, figure 249; Leguilloux, 2006: 36, pl. 22; 90, fig. 60, pl. 50⁶⁸) and are either interpreted as 'strap' without a narrower indication of their

function or as part of the sandal strap complex. However, exactly how this would work is unknown as thus far they have never been found *in situ* in a sandal (also noted by Winterbottom, 2001: 338). It is therefore unlikely that they actually are parts of the strap complex. Interestingly, Goubitz *et al.* (2000: 57-60) show the rolled toggle as part of shoe fastenings, where they are pushed or drawn through toggle holes and thus close the upper around the ankle.⁶⁹

Belts, Straps, Cordage and Related

By straps, those other than sandal straps are meant, which, for example, might have been used to secure saddles or bags (cf. Goubitz, 2007), or just to tie things. Cordage is twisted (and plied) strips of leather with a (near) circular cross-section. The identification of a fragment as belt is sometimes uncertain: small fragments of limited width could, theoretically, originate from many types of objects, including shoes. If a fragment of limited width is made of fairly thick and sturdy leather with a hole or slit at (one or both?) terminal ends (such as DB 3733e, Cat. No. 194), it could either be a belt or strap, although it is more tempting to refer to it by the latter name. Fragments that are, in addition to the above-mentioned features, decorated (such as DB 2389, Cat. No. 190 and DB 2393, Cat. No. 191) are, in the present work, referred to as belt parts, because it is very unlikely that ordinary straps were decorated. If we accept this way of reasoning, there is a relatively large number of decorated belt fragments, most of which have been discussed in 'Impressed and Stamped Decoration.70 DB 1200 (Cat. No. 185), however, is not. It has, at the reverse, circular motifs in a V-shape with a base that is largely obscured by big, leather thong, repair stitches. DB 1717 (Cat. No. 192) is a big strap that consists of several layers and ends in a strong and inflexible loop to which a much narrower strap is tied. Remarkable is the fact that the loop is at right angles to the width of the belt proper. There are no exact parallels. Other belts with loops and 'buckles' have been found in Qasr Ibrim, but these loops and 'buckles' are in line with the belt rather than at right angles.71

Belts (or girdles) are an important part of clothing of modern day Copts, as explained on the world

wide web (http://www.coptic-cairo.com/culture/monk/monk/garment.html⁷²; see also the online Coptic Encyclopedia http://www.copticpedia.com, entry 'belt'⁷³): ""Fasten on your waist all the bonds of God and the power of repentance through our Lord Jesus Christ, to whom be glory for ever and ever, Amen". The girdle is also made of leather, as well as the three crosses braided on it. The nun puts this girdle on her waist so that it is located directly over the kidneys opposite to the center of the sexual drive. With the power of these crosses and stamps the nun is able to keep her purity and suppress the desires. This also helps in fasting and enduring hunger as well as in making successive genuflections." (Quote in original).

The relative lack of (recognisable) strap parts might be a surprise, because of their function of tying, but three reasons might be proposed for this lack: instead of using straps, leather might also be turned into cordage. However, leather cordage was not used much in Deir el-Bachit. A more important reason seems to be the use of fibre linear cordage for tying (donkey saddles, for example, were and are usually made of plant fibres; own observation Qasr Ibrim, but see also Wendrich, 1999: 234, pl. 11-22) instead of leather. Finally, as observed by Winterbottom (2001: 337) "even if broken, such items could easily be used again in modified form or for other purposes".

Although the number of straps is relatively small from Mons Claudianus (Winterbottom, 2001: 337) and Didymoi (Leguilloux, 2006) narrow straps that are comparable to DB 1719d (Cat. No. 200) and DB 3733e (Cat. No. 184) are abundant in Ottoman Qasr Ibrim⁷⁴ but less so in the pre-Ottoman layers.⁷⁵ Decorated belts have not been registered from Qasr Ibrim's Ottoman period⁷⁶ but are known from the pre-Ottoman period. However, they are still not numerous and those that are recorded show different decoration techniques.⁷⁷ In Hierakonpolis, fragments of a decorated, possible belt are known from the Pangrave culture, but these are much older than the Deir el-Bachit layers.⁷⁸

Several narrow, small strips of leather were found, all of which with a slit lengthwise in one of the ends (DB 2550, Cat. No. 211; DB 3702a & b, Cat. No. 221; DB 3704, Cat. No 226; DB 3793, Cat. No. 230; DB 3736c, Cat. No. 235; DB 2661, Cat. No. 212;

DB 1103a; Cat. No. 197). The fragments are folded lengthwise, except for DB 2661 (Cat. No. 212). Some are torn off, but others show that there was a slit at the other end too. One strip (DB 2661, Cat. No. 212) is much longer with slits along its entire length. Several fragments (DB 1103a, Cat. No. 197 and DB 3702a, Cat. No. 221) have a second narrow strip of leather attached to the slit. DB 3793 (Cat. No. 230) is exceptional: one end has an empty slit, whereas at the other end a second strip of leather is attached by means of a single slit-and-pull (DB 3793, Cat. No. 230). Usually, the second strip is attached by means of knotting (mesh knot, see for example DB 3702a & b, Cat. No. 221). Although there are parallels for the fragments with the slit-and-pull connections to sandal straps⁷⁹ (see above), the identification of the other strips is less clear but the small size suggests a rather restricted application. Equally tiny strips are reported from Didymoi (Leguilloux, 2006: pl. 22-24), but none of the illustrated strips are folded lengthwise. Leguilloux interpreted all of the examples as parts of the strap complex. Two comparable finds are known from Amarna (Veldmeijer, 2010b: 220, 224 [TA AM 071 and TA AM 098 respectively; 071 is short with two slits at each end and the leather is wrapped around plant fibre). Several sandals have front straps that are also made of a lengthwise folded strip with a slit in the end to which the back straps are attached (EA 26780 in the British Museum, London [dated to New Kingdom times] and the remnants E23909a & b in the Oriental Institute Museum, Chicago [dated to the C-Group from Adindan]). Except for the latter, these front straps, as well as the ones discussed below, have a bigger overall size (including the slit). In some, the slit is positioned in the fold of the strap (E30112 [from Adindan] and E30092 [also C-Group, Adindan] in the collection of the Oriental Institute Museum, Chicago). The strap in 36.3.159a & b (Metropolitan Museum of Arts, New York [18th Dynasty tomb of Amenhotpe]) is a single layer, rather than folded lengthwise and MFA 13.4000a & b (Museum of Fine Arts, Boston [Kerma]) has a strap from a single thick piece of leather with a nearly square cross-section. Note that all parallels are of a distinctly different date from the Deir el-Bachit examples. Thus, although it is tempting to identify these strips as elements of the strap complex, without any strong association with sandals, this identification remains tentative.

Bags and Related Objects

The evidence for bags is scarce, which is not a surprise: bags are often used beyond repair and if discarded, parts are often re-used (seen regularly among the leatherwork from Qasr Ibrim). Moreover, fragments of leather might not be recognised as such, especially if they originate from the body of the bag and do not have diagnostic elements anymore (seams and the like). Finally, it is very well possible that water bags were not much used at the monastery. Water bags are quite handy when travelling or living in a desert environment, such as Qasr Ibrim, and were used predominantly in these situations (Veldmeijer, 2010b: 29). In settlements with a less arid environment, pottery containers were used to store water. It seems more likely that the inhabitants used linen carriers for the transport of stuff rather than leather bags, as is common in Bedouin societies.

Handles such as DB 2670 (Cat. No. 243) and DB 3003 (Cat. No. 242) are usually identified as the handles of bags. There are many examples of comparable objects from Ottoman Qasr Ibrim,⁸⁰ but such objects are far less common in Roman Didymoi (Leguilloux, 2006: 82-93) or Mons Claudianus (Winterbottom, 2001).

Offcuts and Waste

The difference between offcuts and waste is that waste is all that is cut off from the skin, such as the rough edges, the legs, tails and the like, whereas offcuts are the fragments that are left from cutting out the objects (parts). The enormous amounts of both clearly suggest that leatherworking was one of the (main?) occupations of the monks in the monastery. It is unclear, but unlikely because of their messy character, that the slaughtering and skin processing took place in the monastery but for the time being we cannot entirely exclude the possibility that these activities were done close by. However, another possibility is that the hides were obtained elsewhere and turned into objects in the monastery. Exactly where within the monastery this work took place remains unclear at the moment, but will be the focus of future research.

The concept of Coptic monks producing leather objects is not at all strange: the importance

of leather is well attested. St Simaan, who lived at the end of the 10th c. AD, is known as 'St. Simaan the Tanner', 'St. Simaan the Shoemaker' and 'St. Simaan, the Cobbler' (Anonymous, 1994; Meinardus, 2002: 58). But there are many more indications that leatherworking was done by monks, who often lived as hermits in ancient tombs. TT 29, which was inhabited by Apa Frange⁸¹ and the Middle Kingdom tombs 1151 and 1152 north of Deir el-Medinah, where in 2005 a major find consisting of several papyrus books was made (see above)⁸² are some good examples.

Up until today, Asyut, a Middle Egyptian town still with an important Coptic community, is famous for their pottery, carved bone and wood, silk shawls and leatherwork.

Unidentified

DB 1694 (Cat. No. 410): Although the value of comparing the Coptic Deir el-Bachit leatherwork with finds from Medieval Europe is limited, a striking parallel is found in the case of DB 1694 (Cat. No. 410) with finds from Anglo-Scandinavian and Medieval York (figure 43; Mould *et al.*, 2003: 3408-3411) dating to the 10-11th c. AD. DB 1694 (Cat. No. 410) compares well in size, although most from York are slightly larger. Moreover, the York speci-

mens are of lozenge or elliptical shape whereas the one from Deir el-Bachit is more or less triangular. However, we cannot exclude that DB 1694 (Cat. No. 410) was longer as well and thus even more comparable in shape with the York specimens, because the bottom part is torn off. Some of the York panels have stitch holes at the edges and "four of the seamed panels appear to comprise two matching components (15673-5, 15771), apparently sewn back to back to stiffen and strengthen" (Ibidem: 3409 [italics in original]). Mould et al. (Ibidem) also mention finds from elsewhere (Hull, Gloucester and Dublin). One example of much later date and with slashed interiors was found with a knotted thong in a slit at the end. Again the authors mention the find of comparable panels from all over Britain as well as from abroad and, contrasting to York, from older contexts as well (8th-10th c. AD). Despite the wealth of examples, the use of these items is enigmatic. As Mould et al. (Ibidem: 3410) explains, the identification as sling was rejected because they are too small and too fragile.83 A much more plausible function is proposed too (*Ibidem*): like that of iron strap guides because they are of similar shape even though slightly larger. They add: "Perhaps they were used to suspend a sheath or scabbard from a belt, being attached to the back of the sheath at the terminals and the belt slipped through the loop [see

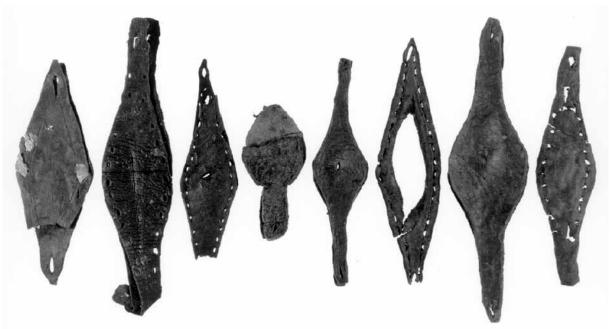


Figure 43. Selection of plain elliptical panels from 16-22 Coppergate (see Mould et al, 2003: 3408-3411). Courtesy of the York Archaeological Trust for Excavation and Research.

for example Goubitz, 2007: 41-42]. They are also of an appropriate shape to be small handles from box or chest lids, held by a nail or rivet at each end" (reference inserted by me).

DB 2721 (Cat. No. 261) is a curious object for which no parallels are known. The object is simple in construction (three lengthwise folded strips of leather, through which a fourth is pulled at right angles, thus holding them together, and forming a small loop). It is tempting to suggest that this is a decorative tassel, but evidence to support this identification is lacking.⁸⁴

DB 2048 (Cat. No. 305) is a sheet of leather that is made into a flattened tube by sewing the edges, flesh to flesh, with leather thong whip stitches. Although one end is clearly torn, the corner probably is complete, which means that the object is more or less of original length. Comparable objects are known from Roman Mons Claudianus (Winterbottom, 2001: 340, fig. 10.21 [96]) including the leather thong whip stitches. A fragment from Didymoi (Leguilloux, 2006: pl. 52 [239]) is sewn with leather thong running stitches, as is an example from pre-Ottoman

Qasr Ibrim.85 Winterbottom (2001: 340) suggests that a short tube like this might have been used to hold the front straps in sandals together but usually these tubes are seamless. The few that have stitches differ in the fact that these consist of a coiled strip of leather that is secured with a stitch at right angles. In these cases, the stitch is made of the tapering end of the coiled strip of leather (see DB 3729, Cat. No. 403). Also, these coiled tubes are much shorter. Note the difference between DB 2048 (Cat. No. 305) and objects such as described by Winterbottom (2001: 340, fig. 10.21 [94, 95]) and Leguilloux (2006: 90-91, pl. 52 [243-245]) and tentatively identified as protective sheet for ropes (longer, different stitching; see 'Belts, Straps, Cordage and Related').86 From Deir el-Bachit such an object is found, but the possible handle DB 2670 (Cat. No. 243) is not empty; instead, a lengthwise coiled strip of leather serves as core (cf. Winterbottom, 2001: 339, fig. 10.21 [90]). The size of the object does not exclude a function of protection of the end of the tumb or fingers when sewing or doing other sorts of manual work (leatherwork?) that could hurt your fingers.87

TOOLS: A SHORT NOTE

Experimental work should shed more light on the traces a particular tool leaves on the leather. However, one tool is readily recognisable from the leather. The edges of several objects (the best examples are DB 1232a, Cat. No. 186; DB 1660b, Cat. No. 46; DB 1710, Cat. No. 47 and DB 2066/2068, Cat. No. 17), which are made of fairly thick leather, have a convex shape. This has been done to obtain an aesthetically pleasing effect and was done with a special knife: the edge shaver or beveller. Such a tool consists "of a slender, curved shank with a groove

on the upper side forming a chisel-shaped cutting edge" (Darke, 2006: 105-106). Darke also notes that the tool is "particularly vulnerable to wear and damage" which might account for its near-absence in the archaeological record. The tool compares well with a gouge and might be mistaken as such (Schwarz, 2000: 94-100; *cf.* Petrie, 1917: pl. XXI and XXII) but has a long tradition: edge shaving is convincingly identified in Pharaonic two-dimensional art (Schwarz, 2000: 94-100).

WEAR, REPAIR, RE-USE

The high degree of re-use and repair does not come as a surprise given the nature of the site (monastery). Footwear, in particular, is fragmented and in some cases repaired over and over again, which sometimes does not leave any trace of the original type of sandal (DB 1647a, Cat. No. 48 is a good example). Other specimens are made of pieces and bits of other objects, often sandals, such as DB 951 (Cat. No. 34) and DB 1166 (Cat. No. 10). But some objects are repaired with patches (for example

DB 3764a, Cat. No. 387) and in others cracks are repaired with stitches (DB 3733a, Cat. No. 400 is a good example). The possible belt 1629c (Cat. No. 183) consists of two strips, the ends of which are put on top of each other and secured with leather thong running stitches. This does not seem to be a repair, because both ends are intact: there are no signs of being torn or worn. Probably the two were attached to lengthen it rather than to repair it.

DISCUSSION

The importance of leatherwork for Coptic monks is well known and the large amount of offcuts and waste together with the relatively low number of leather objects clearly indicates that the monks of Deir el-Bachit at least partially lived from this industry. In other words, they made leather objects, which they sold for a living. An exception might be the leather book covers, which the monks, without a doubt, have made themselves too. The degree of repair and re-use, especially seen in the footwear, is very high, which is not surprising giving the nature of the site. It is not clear yet whether the monks took care of their own hides or bought them from elsewhere.

Footwear from Christian times was very varied and often (elaborately) decorated but that is not the case here. Nevertheless, the recognisable types of sandals fall well within the tradition of this period, including the shape of the straps, having the pre-strap pulled through slits in the insole as well as the decoration and shape of the sole. Possibly, the construction with the pre-strap pulling through slits is an Egyptian alternative to the Roman habit of letting the pre-strap emerge out from either side of the sandal.

Securing the sole layers with leather thong (and often, beside edge stitching, lengthwise down the centre too) was the default, contrasting the predominant use of sinew in earlier times.

The reason for decorating leatherwork varies: the decoration of footwear might be related to magic, religious or popular traditions related to feet (Goubitz *et al.*, 2001: 41). For example, the back straps of a pair of sandals from Gebel Adda of post-Meroitic date are decorated with a painted image of a frog, which is an important symbol of regeneration (Veldmeijer, 2010c). In yet another example, the junction between the front strap and back strap is covered with a separate oval element with openwork design, among others showing a cross. Another reason for decoration

of footwear is to convey someone's wealth and status, whereas the decoration of book covers has, besides a simple decorative function (the line motifs), a symbolic one (crosses). However, Goubitz *et al.* (2001: 42) states that for European footwear "in all periods before the 20th century, decorated shoes were almost exclusively worn by the well-to-do" and although much more research on footwear in ancient Egypt is necessary to either confirm and dismiss such a hypothesis, the first results of the AEFP already point to such a situation in ancient Egypt as well.⁸⁹

Decoration in leatherwork varies greatly in time and space, even though some motifs (especially circles, lines and rosettes) and techniques (impressing, stamping) are universal. Comparisons of the fragments of book covers with other finds show that the design of the Deir el-Bachit covers, despite several unique or rare motifs, is rather simple and seemingly lacks the use of gold foil and gemstones (so far as we can infer from the recovered fragments). However, it does resemble closely a cover from the monastery of Saint Michael in Hamuly (Fayum). This seems to indicate that the monastery, despite the important place on the Theban westbank, was relatively poor. This suggestion is supported by the high degree of wear and repair.

The way leather can be decorated depends on several factors among which are skin processing methods, thickness and flexibility of the leather, function of the object, price, and tradition.

The variety in stitching and seams is limited and the ones that occur fall well within the known corpus of ancient Egypt. Tools have not been included in this stage of the research, but the objects suggest that the tool-kit of the monks was rather professional, judging especially by the presence of trimmed edges that must have been made with an edge-shaver or beveller.

NOTES

- Only when fashion became largely dictated by industrialisation, did types and construction of footwear begin to change far more quickly. Nowadays, new shapes and designs are developed several times a year.
- 2 More information on www.leatherandshoes.nl.
- 3 See for an example Veldmeijer (2010a: 226).
- 4 Note that Leguilloux's reconstructions (and hence typology?) are partially based on assumptions of the layout of the strap complex: no sandals with intact straps have been depicted and hence we can assume they were not preserved (more on the lack of straps: Van Driel-Murray, 2002c: 3-4).
- Collections: Ägyptisches Museum und Papyrussammlung, Berlin; Ashmolean Museum, Oxford; British Museum, London; Egyptian Museum, Cairo; Luxor Museum, Luxor; The Manchester Museum, University of Manchester (future project); Metropolitan Museum of Art, New York; Museo Egizio, Turin; Museum of Fine Arts, Boston; National Museum of Antiquities, Leiden; National Museums of Scotland, Edinburgh; Oriental Institute Museum, Chicago; Petrie Museum of Egyptian Archaeology UCL, London; Roemer- und Pelizaeus-Museum, Hildesheim; Royal Ontario Museum, Toronto; Sammlung des Ägyptologischen Instituts der Universität Heidelberg; World Museum, Liverpool. Excavations: Amarna; Amenhotep II Temple Luxor; Berenike; Deir el-Bachit; Dra Abu el Naga; Elephantine; Hierakonpolis; Mersa Gawasis; Qasr Ibrim.
- 6 Without proper treatment, decay of the skin sets in as soon as the animal dies. Here is meant further decay by agents in the ground.
- 7 Much research is done into the deterioration of leather, especially for the modern leather industry. For a good introduction on the mechanisms of deterioration see Florian (2006).

- 8 Skin processing yields waste; 'offcuts', however, usually only refers to fragments of leather that are cut off from a processed sheet of leather in order to obtain a suitable piece for the manufacture of an object. Both will be discussed in section 'Offcuts and Waste'.
- 9 The identification by various steps at http://www. furskin.cz is handy, although it relies heavily on hair. Moreover, powerful microscopes are needed, which are not always available in the field. A new project by Dominica D'Arcangelo at University College London (UCL) is meant to expand this system and focus more on the skin's grain pattern.
- 10 For fat contents, see especially Trommer (2005). Regarding DNA, Roy Thomson (2006: 58) wrote: "Work is being undertaken to analyse DNA extracted from skin-based objects. It might well be possible to develop such procedures for untanned materials and successful results have been reported with oil-tanned chamois leathers (Langridge, 2004). It is less likely, however, that successful methods will be found for use with vegetable- or mineral-tanned leathers as the cross linking mechanisms involved in the tanning processes will probably interfere with the extraction procedures." This means that the way a skin is prepared (so-called skin processing) needs to be known first in order to increase the possibility of positive skin type identification.
- 11 See also section 'Offcuts and Waste'.
- 12 But note that the discussion of the context is forthcoming, see above.
- 13 See note 8.
- 14 Stubbed-toe shoes, however, are usually made with leather thong. The dating of these shoes, unfortunately, is, as yet, uncertain.
- 15 Including the nearly complete chariot leather currently under study (see Veldmeijer, 2010b; Veldmeijer & Ikram, 2009).

- 16 Non-footwear examples DB 3701A (Cat. No. 358) and DB 3795A (Cat. No. 360).
- 17 Decorative stitching is sometimes done with whip stitching too. Good examples are the handles of water bags (the identification of which has been disputed for a long time, but convincingly proven by Volken, 2008) from Roman context (Leguilloux, 2006: 208 [193 Of-026], 209 [194 Of-028; 195 Of-029; 196 Of-036; 197 Of-037; Veldmeijer, 2007a: 3-5, 19 [Cat. No. 032], 23 [Cat. No. 151], 32 [Cat. No. 193], 33 [Cat. No. 200], 35 [Cat. No. 233]; most of the objects in Winterbottom, 2001: 336-337, fig. 10.19 are without decorative stitching).
- 18 It is not entirely clear whether DB 1314 and DB 3755b are seams or hems, but they are tentatively identified as seam (*i.e.* that it joined another edge). DB 1719a is probably a hem (a folded, free edge which has been stitched in a decorative way).
- 19 But this might be due to lack of research. The pre-Ottoman leatherwork from Qasr Ibrim as well as the mainly post-Meroitic leatherwork from Gebel Adda are currently under study by the author.
- 20 Note that in thick leather it is not always possible to differentiate between flesh-edge and flesh-grain stitching (*cf.* Goubitz *et al.*, 2001: fig. 4; more on this problem in Veldmeijer, In preparation b).
- 21 A strip, sometimes folded lengthwise, between two pieces of leather that is not part of the sole/ upper construction. It is the equivalent of a rand in shoes. According to Sue Winterbottom (personal communication January 2011) "This strip may have a similar function to the folded 'beading' strip used in the Roman period (Van Driel-Murray, 1998: 289) in constructions like the edge seam of small pouches and larger bags (often in combination with a narrow binding strip which covered the joined edges on the inside). In a coarser, heavier form it was also used in the seam, which joined the gable edges of Roman tents to the roof and side walls. [...] 'Beading' as just explained, however, does not involve any beads (the term comes from an architectural and woodworking term - 'a bead moulding', which is a narrow, linear, protruding moulding

- with a semicircular cross-section)." Because in Predynastic and Nubian leatherwork beads were sometimes included in seams for aesthetic reasons, in Egyptian leatherwork the term 'beading strip' is avoided.
- 22 Referring to K. East, "The Shoes" in Care Evans, A. Ed. Volume 3 in R.L.S. Bruce-Mitford, The Sutton Hoo Ship Burial (London, 1983: 788-812).
- 23 Several shoes with rand are reported by Montembault (2000) from the Louvre collection, but none are dated.
- 24 The use of knots for decorative element in rings is also seen in a ring from Qasr Ibrim, although made of vegetable material rather than leather (Wendrich, 1996: 63-64).
- 25 Some constructional elements are also decorative. For more decoration techniques see section 'Decoration Techniques'.
- 26 SAIUH 31912.3.
- 27 EA 53916.
- 28 Further examples are UC 28289 (Petrie Museum of Egyptian Archaeology, UCL); ASH 1890.421 (Ashmolean Museum, Oxford); 1654 (Roemerund Pelizaeus Museum, Hildesheim); SAIUH 1198.FJ1119, SAIUH 1162.FJ1827, SAIUH 348 (see figure 13), SAIUH.without number (see figure 12; Sammlung des Ägyptologischen Institut der Universität Heidelberg). Examples that are not related to footwear from Ottoman Qasr Ibrim are cam-0796 and cam-0839).
- 29 Nubian quivers from Meroitic Gebel Adda (currently under study by the author) often include decorative continuous slit-and-pull strings.
- 30 Also seen in leatherwork from Ottoman Qasr Ibrim, such as cam-0869 and cam-0896. That this technique is rather universal is suggested by the finds from York of belt purses with decorative slit-and-pull (Mould *et al.*, 2003: 3403) and the examples where seams were made with this technique (*Ibidem*: 3413, figure 15808). See also Goubitz (2007: 17, 24, 5, 35, 111) for examples from The Netherlands.
- 31 Rahats are also known from Gebel Adda.
- 32 Montembault (2000: 234-235) shows fragments of boots, but it seems not at all certain to me that the tiny braids were part of them, as none of the other boots include braids (*cf. Ibidem*: 206-211).

- 33 Some constructional elements are also decorative. For more decoration techniques see section 'Decoration Techniques'.
- 34 Coils that are made of plaited strips of palm leaf are sometimes used in fibre footwear (fibre shoes with full flexible upper [Veldmeijer, 2010e]; coiled sandals [UC 28307, Veldmeijer, In press b], isolated finds [QI 22028/A10 from Qasr Ibrim]).
- 35 Also SAIUH 1162.FJ1827; SAIUH.without number (*Sammlung des Ägyptologischen Institut der Universität Heidelberg*); UC 28289 (Petrie Museum of Egyptian Archaeology, UCL) and ASH 1890.421 (Ashmolean Museum, Oxford).
- 36 Also AM 6979 (Ägyptisches Museum und Papyrussammlung, Berlin); EA 57313 (British Museum, London); SAIUH 1181.FJ445 (Sammlung des Ägyptologischen Institut der Universität Heidelberg); 1654 and 2213 (Roemer- und Pelizaeus Museum, Hildesheim).
- 37 This is a rather universal way of making bags, as examples from the Cave of Letters (Yadin, 1963: 162-164, pl. 53-55) suggests.
- 38 AMZ 4313 but due to the condition of the sandals it could not be established beyond doubt that the tube is without seams (Ägyptisches Museum und Papyrussammlung, Berlin); EA 53914 (British Museum, London); E20542 (Oriental Institute Museum, Chicago). Probably in SAIUH.349 or 194, but certain in SAIUH 1164. FJ495, SAIUH 1165.FJ1228, SAIUH 1167.FJ507 (Sammlung des Ägyptologischen Institut der Universität Heidelberg).
- 39 RSM 1911.271a. According to the archives of the museum, the pair was excavated from Der el Hammalin and is of New Kingdom date. This, however, is a mistake judging by the pre/back strap construction and the use of a tube to secure the front straps (see below). Remarkably, the label on the ventral surface of the sole already says 'iv-vi cent'. Another example of a more elaborate tube is seen in SAIUH 155 as well as in SAIUH. without number, shown in figure 12 (both Sammlung des Ägyptologischen Institut der Universität Heidelberg), but these need further analysis.
- 40 Some constructional elements are also decorative. See the sections 'Slit-and-Pull Technique' and 'Coils and Tubes'.

- 41 See above for remarks on the term 'paint'.
- 42 SAIUH 352.FJ.unknown and SAIUH 1162. FJ1827 (Sammlung des Ägyptologischen Institut der Universität Heidelberg); AMZ 4313 (Ägyptisches Museum und Papyrussammlung, Berlin); 12.592a,b (Museum of Fine Arts, Boston); ASH 1962.956A,B (Ashmolean Museum, Oxford); UC 28327 and UC 28361 (Petrie Museum of Egyptian Archaeology, UCL); RSM 1903.331 (National Museums Scotland, Edinburgh). Examples with more elaborate zigzag motifs: OIM E21360, a Nubian sandal (Oriental Institute Museum, Chicago).
- 43 Goubitz *et al.* (2000: 44) clearly make distinction between 'impressing' and 'stamping', which is not always easy to make. Here, the term 'stamped' is used for small motifs that are seen repeatedly in one fragment. A good example is DB 2393 (Cat. No. 191).
- 44 I am grateful to Renee Friedman for sending me the photographs. The study of these leather objects is scheduled for the near future.
- 45 See for example Daressy (1902: 32) and Schwarz (2000: 243-244, Catalogue C no. 46 and 48). Other examples of quivers with impressed/stamped design are described by Schwarz (Catalogue C no. 43, 44). See also McLeod (1982: 62).
- 46 There are mummy braces in most collections, but few have been studied with leather as focus.
- 47 One such an example is a small fragment of decorated leather from Medieval-early post-Medieval backfill at Coppergate. The fragment, interestingly, is tentatively identified as book cover, but the authors warn "Once stripped away from the wooden board that they covered small bookbinding fragments are very difficult to recognise" (Mould *et al.*, 2003: 3412).
- 48 The drawn fragments, which have the best preserved decoration and/or the most extraordinary designs, act as example; see the catalogue for more decorated book cover fragments.
- 49 Combinations of high and low relief are more often used in other motifs, as will be explained below.
- 50 The combination of line and circle motifs is also seen in other "plats de reliure" (e.g. Malandain & Bouyeure, 2009: 54; Rutschowscaya, 1986:

- 71), markers (*e.g. Ibidem*: 65; Neunert, Forthcoming) but also in belt fragments (*e.g.* Falck & Lichtwark, 1996: 377).
- 51 An example from Hierakonpolis with incised decoration is mentioned above.
- 52 A fragment of unknown function from Ottoman Qasr Ibrim (cam-3373) has two sets of three woven strips.
- 53 Cam-3375 (see also Adams, 1996: 207-208), cam-3490; cam-3492D; cam-3502; cam-3503. Examples from Qasr Ibrim with multiple rows are cam-3341D (belt?; Roman), cam-3343 (unknown; Roman), cam-3579 (unknown; Roman).
- 54 DB 1261 (Cat. No. 1); DB 879 (Cat. No. 2); DB 3389a, b (Cat. No. 3); DB 1236 (Cat. No. 5); DB 3745 (Cat. No. 60). Possibly Montembault I, B, 2: DB 2031 (Cat. No. 7); DB 1269b (Cat. No. 16); DB 1710 (Cat. No. 47); DB 3709a (Cat. No. 54).
- 55 The collection in the Royal Ontario Museum is under study by the author and thus only a small part has been studied. It is likely that more sandals are among the collection leatherwork. The two are: 973.24.2942 and 973.24.2939.
- 56 The hole and the slit at the edge in DB 1297 (Cat. No. 98) seem to indicate a comparable repair.
- 57 Cam-0699 is only one example (see Veldmeijer, In preparation b).
- 58 There are examples of single-sole sandals that have a comparable construction, in which, consequently, the front strap is visible at the ventral surface and prone to wear (for example MFA 12.592a,b; WML 1973.2.123; WML 1973.2.126; NMS 1911.271a).
- 59 Note that the aforementioned examples from Gebel Adda only have one front strap, despite the fact that the settlement is Nubian too. As with Qasr Ibrim, both types are among the finds but the 'Nubian way of wearing sandals' is clearly much more common.
- 60 Examples from Ottoman Qasr Ibrim are cam-0657; cam-1263; cam-1281; asw-1121.
- 61 Exceptions from Ottoman Qasr Ibrim are cam-1269; cam-1271 and asw-0511c.
- 62 DB 3753e (Cat. No. 66) might be another example, but because only one vertical element is present, the identification is tentative.
- 63 The '.' indicates a tentative identification.
- 64 The identification of DB 2431 (Cat No. 124) and DB 985 (Cat. No. 126) is tentative.

- 65 The edges of this codex are not folded around the cover, apparently in contrast to the situation in codex I and VIII (Farid, 1979: 1-2).
- 66 Probably DB 989a & b (Cat. No. 149) and DB 2676a-d (Cat. No. 171) originate from comparable book bindings.
- 67 Here the focus is on DB 3712a (Cat. No. 178), because the function of DB 2100b (Cat. No. 177) as toggle is uncertain (see catalogue).
- 68 Toggles, comparable in shape but different in technique, have been reported from Berenike (Veldmeijer, 2007a: 10, figure 16) and Mons Claudianus (Winterbottom, 2001: 337, figure 10.20). Van Driel-Murray (1993: 48, no. 2, pl. X) described similar objects from the Roman fort of Vindolanda.
- 69 See for an example from Ptolemaic(?) Egypt (Veldmeijer, In press a).
- 70 DB 3013b (Cat. No. 181); DB 2071 (Cat. No. 182); DB 1200 (Cat. No. 185); DB 895b (Cat. No. 184); DB 2554 (Cat. No. 189); DB 2389 (Cat. No. 190); DB 2393 (Cat. No. 191).
- 71 Cam-1306 is only one of the many examples. Belts like these are made of goat hair, which is sometimes clad with leather. The buckle, however, is always made of goat hair and clad with leather and might include wood reinforcement elements.
- 72 Visited 13 February 2010.
- 73 Visited 21 December 2010.
- 74 Cam-0982; cam-0988; cam-1002 and cam-1016 are only several examples. Broader straps and belts are, for example, cam-0803; cam-0880; cam-0968; cam-0971; cam-0973 and cam 0976.
- 75 For example cam-3046; cam-3384 and cam-3385.
- 76 The great majority of the Ottoman leatherwork is without decoration.
- 77 For example cam-3302 (decorative weaving, see above); cam-3353 (simple impressed lines); cam-3439 (plaited fabric) and cam-3610 (decorative stitching).
- 78 Of course, straps and belts are universal objects, but still might differ in detail of decoration or manufacturing. *Cf.* for example the straps and belts from York (Mould *et al.*, 2003: 3367-3369, 3392-3402).
- 79 The unique shoe EA 53916 in the collection of the British Museum, London is only one example.

- 80 For example: cam-0195; cam-0725; cam-0757 and cam-0769 (including part of the bag's body). Far more numerous, however, are handles that are made of braiding narrow strips of leather around a core.
- 81 I am grateful to Laurent Bavay for his help.
- 82 See the website of the Polish mission at http://www.centrumarcheologii.uw.edu.pl/index.php?id=130&L=2.
- 83 Leather slings are known from Europe but seemingly not from Egypt. There are examples of slings from Egypt such as UC 6921 (possibly from Lahun) in the Petrie Museum of Egyptian Archaeology UCL, London, made of flax(?) and possible examples from Qasr Ibrim that are made of palm.
- 84 Decorative tassels are known from Qasr Ibrim (for example cam-1340) but these consists of a braided strip that is folded to make a loop; the narrow 'threads' of leather protrude individually from the binding that secures the loop. Usually, these are associated with *rahats* (*cf.* figure 9).
- 85 Asw-0683.
- 86 Linear cordage with a protective leather cover is known from Ottoman Qasr Ibrim (for example cam-0774; cam-0975[?]; cam-1302) and are of-

- ten part of belts and, therefore, usually much longer. This makes one wonder if these shorter leather tubes were used as a protective sheath for handles of (water) bags, which usually have a bigger diameter. However, the diameter is still somewhat larger than those of the reported handles, which are well known from various sites: Berenike (Veldmeijer, 2007: 3-6); Didymoi (Leguilloux, 2006: 82-86, pl. 41-42); Mons Claudianus (Winterbottom, 1991: 80-81; 2001: 335-337, fig. 10.19). See also Volken (2008). Remarkably, only one water bag handle is known from Qasr Ibrim (95.1.2/122).
- 87 I thank Sue Winterbottom for this intriguing suggestion.
- 88 At time of writing, no insight could be obtained about tools found in Deir el-Bachit therefore, this will be given attention elsewhere, together with a discussion on the identification of gouges versus edge shavers.
- 89 Compare for example the leather curled-toe ankle shoes (Veldmeijer, 2009a) with the leather stubbed-toe shoes (Veldmeijer, In preparation a).

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PART II. CATALOGUE

FOOTWEAR (CAT. NOS. 1-101) SANDALS (CAT. NOS. 1-98)

Cat. No.

Find No. DB 1261

Object Complete(?) sole

Measurements l: 114*; w heel: 51.5; w front: 64.0;

t: 2.0; l slits: 27.5

Colour Brown

Description

The heel is rounded and the width towards the front slightly but continuously increases in size. The waist is not restricted. The front is square cut. Most of the stitch holes along the edge have leather thong stitches *in situ*, suggesting that there was at least one other sole layer that was secured with running stitches. The stitches at the front are situated at a substantial distance from the edge, the ventral area of which is smoothed. Lengthwise down the centre are two short rows of stitch holes: one starting at the front and the other at the heel. In between the two rows is an empty area with a scratch that also runs lengthwise. This scratch does not go through the entire thickness. In the middle of the stitch row is a hole, containing the

remnants of a lengthwise-folded strip, which is all that remains of the front strap. Two large slits for the reception of the pre-strap are situated about halfway down the sandal's length rather than close to the heel's edge, which is usually the case. The ventral surface shows the wear that is caused by the pre-strap: the area between the slits is much smoother than the rest of the surface. It shows that the pre-strap was as wide as the length of the slits. The strange shape of the sandal, together with the two small cuts in the front edge and the forward position of the slits for the pre-straps, suggests that the sandal is made from a re-used piece of leather (probably cut from a larger sandal). In the current state, the sandal must have been meant for a child. The position of the front strap is perhaps too much anterior to be useful for going between the toes. A possibility, however, is that the insole was sewn onto a longer treadsole, which would have given the front strap a much better fit.



DB 1261. Ventral and dorsal view.

2

Find No. DB 879

Object Complete sole

Measurements 1: 232.0; w heel: 76.1; w waist: 68.7;

> w front: 92.9; t: 8.6; w pre-strap: 18.0; w slits front strap: 11.4

Colour Brown

Description

Complete sandal's sole, consisting of an insole and treadsole. The latter slightly protrudes from the former on all sides. The sandal has a rounded heel and distinctly restricted waist. From here, the width increases rapidly; the lateral edge curves rather abruptly towards the toe whereas the medial edge curves much more gently. Consequently, the sole is swayed; it is meant for the right foot. The sole layers are secured along the edge with leather thong running stitches, which are more or less evenly-spaced. However, there is some variation: the stitching at the heel is slightly more dense and shorter than at the medial edge. Three additional rows of leather thong running stitches (which appear short on both sides of the soles) are placed within the edge stitching: the outer two roughly follow the contour of the sandal whereas the middle one runs lengthwise down the centre. The dorsal surface of the insole shows impressed decoration, the pattern of which cannot be established in detail, due to the fact that much of the decoration has worn away. At least two lines lengthwise accross the surface and circles made part of the inner decoration; the edge, close at the inner side of the edge stitching, has impressed motifs that seem rectangular but unfortunately additional details cannot be determined. The pre-strap runs through two slits that are positioned lengthwise. They are in the insole but do not go through the treadsole: the part of the pre-strap in between the two slits is thus sandwiched between the insole and treadsole. Nothing of the strap complex is preserved besides the sandwiched fragment of the pre-strap and a small protruding element. There are two transverse slits, one behind the other, for the reception of the front strap. In between the slits are coarse leather thong stitches, which seem to be a reinforcement rather than repair (there is nothing broken at that spot). A repair can be seen lateral to the posterior slit; here, two coarse leather thong stitches repair the torn slit. Note that, although these stitches go through both sole layers, the ones in between the slits only go through the insole. Although the heel is worn through, compared to the other footwear (fragments) from the site, there is less wear and repair.

Find No. DB 3389a, b

Object Sole

Measurements (a) 25.9 - 48.3 x 88.8; t including

repair: 9.9;

(b) w at pre-strap: 74.0; w front (= w maximal): 103.0; t original: 5.7

Cat. No.

3

Colour Greyish brown to brown

Description

The two fragments fit together; the description therefore focusses on the complete object. The heel is missing. The width of the sandal increases from the waist forwards. The lateral edge curves gently towards the front; as the medial edge runs nearly in a straight, diagonal line towards the big toe, the sole's shape clearly indicates for which foot it is meant (swayed): the left foot. The insole and treadsole are secured with leather thong running stitches along the edge and with three rows of stitches that run lengthwise down the centre. All stitches are short but widely-spaced. The rows down the centre follow the shape of the sandal more or less: the spacing in between the rows increases with the width of the sandal. Note the larger leather thong running stitches at the lateral edge, which are a repair. Against the edge stitching, on the inner side, is a row of impressed decoration of zigzag motifs; this type of decoration can also be seen in several places between the centre rows of stitches. The front is repaired on both sides, but especially on the ventral surface of the treadsole. Here, two patches have been sewn on. One (the oldest one) is cut in the shape of the front part of the sole. It seems that all repairs have to do with the front strap: the sole does not show signs of severe wear. The pre-strap runs through two slits in the insole that are situated close to the edge: it is sandwiched between the in- and treadsole for the part in between the two slits. Two pair of stitch holes at the torn edge, just anterior of the pre-strap attachment, suggests a repair of some sort, which is possibly associated with the single stitch beside the slit at the medial edge.



DB 879. Ventral and dorsal view.

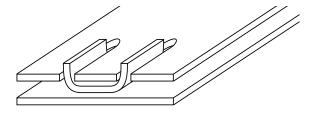
Find No. DB 3245
Object Sole fragment

Measurements w: 39.4 - 54.1; l: 67.7; t: 2.8

Colour Dark brown

Description

Irregularly-shaped fragment with three rows of running stitches (leather thong). One long edge is intact.



Cross-section showing the pre-strap and the way it is pulled through the slits.



DB 3389a & b. Dorsal and ventral view.



DB 3245. Dorsal and ventral view.

Find No. DB 1236

Object Sole and pre-strap

Measurements l: 120#; w heel: 49.3; w waist: 48#;

w front: 60.8; t sole: 5.2; l slits sole: 20.7; w pre-strap: 15.2; t pre-strap:

1.9; l slits pre-strap: 6.7

Colour Grey sole, reddish brown pre-

strap

Description

Back three quarters of the length of a small sandal. The leather is relatively thick. The heel is rounded and the waist is slightly constricted. Towards the front the width increases, but the sandal is incomplete which prohibits knowing exactly to what ex-

tent. The stitch holes at the heel, some of which still have the leather thong running stitches *in situ*, suggest at least one other layer originally, but whether it was an entire sole or only at the heel is uncertain. Anyway, it would have sandwiched the prestrap running underneath the preserved sole layer. The pre-strap, pulled through slits on either side of the sole layer, is situated rather far back. It is made of reddish leather as opposed to the grey leather of the sole. The malformation of the three slits at each rounded terminal end of the pre-straps clearly shows evidence of the attachment of the back and heel strap, now lost.





DB 1236. Dorsal and ventral view.

Cat. No. **6**

Find No. DB 1100
Object Sole fragment
Measurements l: 60.8; w: 21.1; t: 7.4

Colour Grey

Description

Crescent-shaped piece that consists of three layers. One of the layers (probably the treadsole) is substantially thicker. They are attached to each other by means of leather thong running stitches (approximately 3 mm long), which are widely, but evenly-spaced (approximately 5 mm). Two small empty stitch holes at the insole.

Find No. DB 2031
Object Sole fragment

Measurements 1: 79.6; w heel: 61.4; w front (as

preserved): 58.3; t: 6.0; l slit for

pre-straps: 37.6

Colour Greyish brown

Description

Heel of a sandal, consisting of at least two sole layers. The dorsal surface of the insole is decorated between the slits with two parallel zigzag lines made up of dots, which might be painted. On the outer side of one slit is a row of impressed zigzag decoration.

Cat. No.



DB 1100. Dorsal and ventral view.

Remarkably, this is not visible on the other side, but it might have been worn away. The heel shows many repairs: a row of big leather thong stitches between the slits; narrow leather thong stitches at right angles to the slits and slightly wider running stitches of leather thong along the posterior edge. Remnants of the pre-strap are still *in situ*.





DB 2031. Dorsal and ventral view.

8

Find No. DB 1140
Object Sole fragment

Measurements l: 92.8; w: 43.3 - 47.0; t: 18.9

Colour Brown to dark brown

Description

Crescent-shaped fragment consisting of three layers. One of these is much thicker than the other two and might be a secondary addition. The layers

are secured by means of a line of short, but widely-spaced running stitches made of leather thong that follow the curved edge. The remaining surface shows comparable stitches, but the fragment is too small to identify a pattern. However, it seems likely that these are lengthwise-running rows of stitches, which is often seen in multi-layer-sole sandals from this period.



■ DB 1140. Ventral and dorsal view.

▼ *DB* 1140. *Detail, showing the layers. Scale bar is* 10 mm.



Cat. No.

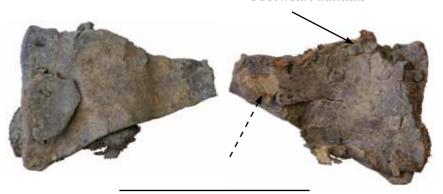
Find No. DB 1165
Object Sole fragment

Measurements l: 40.3; w: 53.0; t: 7.8 Colour Greyish brown to brown

Description

Roughly triangular part of a sandal's sole, consisting of two sole layers. On top of the original(?) insole is a scrap of a third layer, seemingly not original. If so, the sandal has been used even when the rest

of this layer was lost, judging from the smooth and worn edges of the scrap. The layers are secured by means of leather thong running stitches along the edge. Note, however, the stitches along one of the torn edges (arrow). The opposite edge seems too straight to have been torn and must have been cut. The treadsole shows the concentric impressions, resulting from being re-used as a door pivot (dashed arrow).



Db 1165. Obverse and reverse

Find No. DB 1166
Object Sole fragment
Measurements 1: 40.3; w: 53.0; t: 7.8
Colour Greyish brown to brown

Description

Fragment of a sandal, showing a distinct curve, but it is not clear whether it is the front or heel part. It con-

sists of two layers, which are undoubtedly re-used pieces of leather as the current treadsole shows the remnant of a pre-strap at the torn edge of the fragment (arrow). The two layers are secured, more or less along the intact edge, with coarse leather thong running stitches. Re-used as door pivot, evidenced by the concentric rings on the insole (dashed arrow).



DB 1166. Dorsal and ventral view.

Cat. No.

Find No. DB 1155

Object Sole and front strap fragment *Measurements* 1: 63.9; w: 83.2; t: 2.0 - 3.1

Colour Brown

Description

Front part of a sandal consisting of one sole layer. Intact leather thong running stitches along the edge. Note, however, that this stitching differs in spacing at the lateral and medial edges. The fragment shows a distinct rounded, pointed front. The attachment of the front strap is still *in situ*, showing

it was pulled through two transverse slits. The slits are situated closer to the medial edge, indicating the sandal was meant for the left foot. The end of the front strap is pulled through the second slit (from the front edge) and increases in width, resulting in a semi-circular extension; since the width is wider than the slit, it prevents it from slipping through. Possibly, the strap was secured with a stitch running over it at the first slit and at the dorsal surface of the sole, but the stitch is loose on one side, making it impossible to ascertain the construction. After

the strap was pulled through the first slit (from the edge) it must have turned back, running between the first and second toe, and back to the back straps. Note the two stitches next to the strap as well as an empty stitch hole, the function of which is uncer-

tain. Securing straps by means of increasing the width of the terminal end is often seen, but usually this is situated on the ventral surface of the sole rather than on the dorsal surface (*cf.* DB 1605b, Cat. No. 20).





DB 1155. Ventral and dorsal view.

Cat. No. **12**

Find No. DB 1109a, b
Object Sole fragments

Measurements (a) 1: 48.2; w: 32.9; t: 2.4;

(b) l: 41.1; w: 53.1; t: 2.8

Colour Grey

Description

- (a) Nearly rectangular fragment of a sandal's sole layer. The fragment has a small piece of original lateral or medial edge. Three rows
- of stitch holes run lengthwise; some still contain remnants of leather thong running stitches. Note that the stitch holes are not entirely on one line, but the spacing between the three rows is fairly equal.
- (b) Irregularly-shaped fragment, possibly originating from the same sandal or a comparable one, judging by the rows of stitch holes.



- ▲ DB 1109a. Dorsal and ventral view.
- ► DB 1109b. Dorsal and ventral view.



13

Find No. DB 920
Object Sole fragment

Colour Grey

Measurements l: 60.5; w: 36.8; t: 9.9 Remarks Badly preserved Description

Irregularly-shaped fragment, consisting of two layers. No features. Possibly sandal fragment.



DB 920. Obverse and reverse.

Cat. No. **14**

Find No. DB 853b, c

Group DB 853a-c

Object Sole fragments

Measurements (b) l: 26.7; w: 15.2; t: 5.0;

(c) l: 23.7; w: 19.6; t: 3.2

Colour Greyish brown
Remarks See also Cat. No. 199

Description

(b) Small, roughly crescent-shaped fragment consisting of two layers that are secured along the

intact edge, using leather thong in running stitch (spaced closely on one side, but further apart on the other). Note the single stitch at a right angle to the ones at the fragment's edge.

(c) Nearly square fragment consisting of two layers that are secured with leather thong running stitches. Parallel to these are two empty stitch holes. Uncertain if this is part of a sandal, although its association with (b) seems to suggest so.









DB 853b & c. Dorsal and ventral view.

Cat. No. **15**

Find No. DB 1699c, e
Group DB 1699a-e

Object Sole fragment and pre-strap *Measurements* (c) l: 35.7; w: 46.3; t: 2.2;

(e) w pre-strap: 14.4; l pre-strap:

41.1; w back strap: 7.1; w total:

20.4; t: 3.4

Colour Grey to greyish brown

Remarks See text figure 7. See also Cat. Nos.

271, 272

Description

- (c) Small thin fragment of a sandal's sole. Along the intact edge a single leather thong running stitch is visible. A little towards the other edge is another row of leather thong running stitches. The stitches appear very short on one surface but very long on the other
- (e) End of a sandal's pre-strap. The top is rounded and has one slit for the reception of the back strap, which is attached to it by means of a

mesh knot (text figure 7D). Just before running under itself, a second part has been attached by stitching it through the first part of the back strap as well as the pre-strap. Included in the back strap is a small string, which is prevented from slipping through by means of a Z-overhand knot (text figure 7B). Note the hole at the other, torn end of the pre-strap. There seem to be remnants of a second layer at the back of the pre-strap.

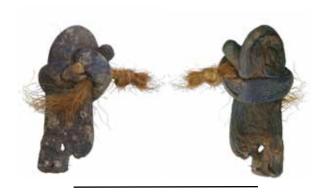


DB 1699c. Dorsal and ventral view.









▲ DB 1699c. Detail of stitches and stitch holes at the dorsal, ventral and ventral surface respectively. When the thong is pulled tight, the 'bar' sinks into the leather thickness (left). At the other side of the layer, the slits are more widely-spaced (centre and right). See also text figure 2. Scale bar is 10 mm.

Cat. No. **16**

Find No. DB 1269b
Group DB 1269a, b
Object Sole fragment

Measurements 1: 90.6; w: 12.2 - 41.8; t: 9.2. Scrap:

19.2 x 19.4; t: 3.5

DB 1699e. Obverse and reverse.

Colour Greyish brown
Remarks See also Cat. No. 122

Description

The fragment seems to consists of three layers, but one layer is possibly folded at the edge around the other. This, however, could not be determined for certain. The layers are secured at the edge with leather thong running stitches. Note the single leather thong stitch at the torn opposite edge. The small scrap, which is not numbered separately, has two empty stitch holes close to one edge.



DB 1269b, including the unnumbered scrap. Dorsal and ventral view.

Cat. No.

18

Cat. No. 17

Find No. DB 2066 & 2068
Object Sole fragments

Measurements (2066) l: 62.2; w: 18.9; t: 2.6;

(2068) l: 73.5; w: 41.2 (bent); t: 2.6

Colour Greyish brown to brown

Description

Two pieces fitting together. One long edge is still intact; the other edges are torn. Originally secured with leather thong running stitches along the edge as well as with a row of stitches lengthwise down the centre, suggesting a multiple layered sole. At the front it is heavily repaired, evidenced by the multiple, random stitches. Note the rounded edge. A row of incised(?) decorations is visible immediately on the inner side of the edge stitches (arrow). Although this type of decoration is often seen, it is strange that they are applied to the ventral surface. This might suggest that the sole was, originally, an insole with the current ventral surface acting as dorsal surface.

Find No. DB 2096
Object Sole fragment

Measurements l: 49.6; w: 7.6 - 36.0; t: 2.8 Colour Greyish brown to brown

Description

Tapering piece of a sandal's sole with one curved edge, which is original: the other edges are torn. Several random leather thong stitches suggests repair; other stitches suggests at least one other sole layer.



DB 2096, Ventral and dorsal view.



DB 2066 & 2068. Ventral and dorsal view.

Find No. DB 2063
Object Sole fragment

Measurements l: 52.1; w: 61.1; t: 10.2

Colour Greyish brown to brown

Description

Irregularly-shaped piece of sandal's sole, consisting of two layers. One edge is intact; the others are torn off. The layers are secured with leather thong running stitches, distinctly set inwards from the intact edge. Along the edge are empty stitch holes and several leather thong stitches are seemingly placed randomly. Their function is uncertain, but probably they have to do with repair. Note the comparable 'decoration' on the dorsal surface (arrow) as in DB 2066 & 2068 (Cat. No. 18).



DB 2063. Dorsal and ventral view.

Cat. No. **20**

Find No. DB 1605b
Group DB 1605a-e
Object Sole fragment

Measurements l: 94.8; w: 55.2; t: 4.0 - 11.5 Colour Brown to dark brown, black Remarks See also Cat. No. 284
Description

Front part of a sandal, repaired at the ventral surface with, what seems to be a partial (triangular in shape), back part of a sandal that is secured with

random leather thong stitches. The front strap would have gone through two slits, judging by the upwards curvature of the edges of the area between the slits (arrows; *cf.* DB 1155, Cat, No.11). Only the posterior slit is preserved. Note the rounded edges of the leather.



DB 1605b. Ventral and dorsal view.

Cat. No. **21**

Find No. DB 1624a, b
Object Sole fragments

Measurements (a) 1: 22.9; w: 42.1; t: 2.4;

(b) 92.1 x 73.5; t: 13.9

Colour Brown

Remarks It is not certain if both fragments

belonged to one sandal

Description

- (a) Small fragment of a sole, single thickness, showing one intact edge. It may have belonged to a multi-layer-sole sandal, judging by several leather thong stitches.
- (b) Irregularly-shaped fragment of heavily repaired sandal's sole. There are at least three layers (arrows), but possibly more, which cannot be established with certainty due to the repaired state. The fragment is covered with repair stitches of leather thong. Seemingly, the current sole is compiled of several other sandals and/or the parts of the broken sandal have been stitched together randomly. Clearly visible is the front of a sandal (dashed arrow) which no longer served this purpose in the lat-

er(?) stage of use of the object, because a front strap is visible on the opposite side. This front strap, consisting of a lengthwise folded strip of leather, is secured on the ventral surface by means of an enlargement, preventing the strap from slipping through the slit.

Find No. DB 1855a

Group DB 1855a-d

Object Sole fragment

Measurements 1: 61.6; w: 23.2 - 25.5; t: 6.7

Colour Brown

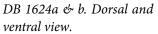
Remarks See also Cat. No. 205

Description

Fragment with one intact, curved edge. The other edges are torn. The fragment consists of two layers which are secured with fairly coarse (3-4 mm wide), widely but evenly-spaced (about 5 mm) leather thong running stitches along the edge. The stitches are barely visible on the ventral surface.

Cat. No. **22**







DB 1855a. Dorsal and ventral view.



Find No. DB 842

Object Sole fragment

Measurements l: 85#; w: 22.1 - 25.6; t: 4.3

Colour Dark brown

Description

Cat. No.

23

Crescent-shaped fragment, showing one intact edge. Barely visible are stitch holes along the edge,

DB 842. Dorsal and ventral view.

as well as a pair of stitch holes set slightly more inwards. Possibly, a second layer is visible on one surface.

Object Measurements

Find No.

DB 1549
Sole fragment

Measurements Colour l: 53.2; w: 28.4; t: 2.0 Greyish brown

Description

Irregularly-shaped fragment that is torn on three sides: the fourth edge may be intact (arrow). It shows two rows of paired stitch holes as well as two isolated stitch holes on both sides (possibly remnants of other rows, now lost). One corner has still remnants of a second sole layer *in situ*.

Cat. No. **25**

Find No. DB 1527
Object Sole fragment

Measurements l: 58.4; w: 19.2; t: 4.9

Colour Dark brown

Description

Irregularly-shaped sole fragment with one intact, curved edge. It consists of a single, fairly thick layer, but the fairly coarse (about 4 mm wide), widely but evenly-spaced (about 10 mm) leather thong running stitches along the edge, as well as a single leather stitch slightly inwards from the edge suggests at least one additional sole layer, which is now lost. In its construction, the fragment is not unlike DB 1855a (Cat. No. 22). However, in between the stitches, the dorsal surface of the sole has impressed zigzag decoration.

Cat. No. **26**

Find No. DB 1528
Object Sole fragment
Measurements 32.1 x 39.7; t: 9.4
Colour Greyish brown

Description

Small scrap consisting of several thicknesses, the exact number of which cannot be established with certainty; there are at least four. These result from repair, judging from the various random leather thong stitches.

Cat. No. **27**

Find No. DB 1691a

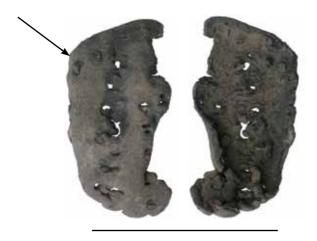
Group DB 1691a-c

Object Sole fragment

Measurements 54.3 x 37.0; t: 15.4

Colour Brown

Remarks See also Cat. Nos. 208, 290



DB 1549. Dorsal and ventral view.



DB 1527. Dorsal and ventral view.



DB 1528. Obverse and reverse.

Description

Incomplete sandal's sole, which is repaired so heavily that the original shape cannot be determined anymore, neither the front nor the back of it. On one surface (the dorsal surface?) the leather thickness is rounded, but this seems (partially?) due to breakage with the lower (ventral?) layer. The other end is folded towards the ventral(?) surface and stitched with coarse leather thong stitches. The sole layers have numerous stitches and empty stitch holes placed seemingly at random. Note the large leather thong protruding from one side.

Cat. No. **28**

Find No. DB 2440
Object Sole fragment

Measurements l: 75.4; w posterior: 81.3; t total:

14.3

Colour Brown

Description

Front part consisting of an insole and treadsole. The front tapers without any indication for which foot it is meant (straight). The treadsole protrudes slightly from the insole on one side. Along the edge of the insole are widely, but evenly-spaced leather



DB 1691a. Dorsal and ventral view.

thong stitches (3.0-4.0 mm wide, between 10.0-13.0 mm long, with a spacing of about 5.0 mm). In some of these stitches are remnants of another layer (or strip?) still *in situ*. Some of these leather pieces protrude from the insole's edge. One stitch at the front is sewn over the edge of the two sole layers (arrow). Lengthwise down the centre is a row of comparable leather thong running stitches; possibly these are part of the front strap.





DB 2440. Ventral and dorsal view.

Cat. No. **29**

Find No. DB 1175
Object Sole fragment

Measurements 1: 34.2; w: 23.5 - 31.5; t: 3.4

Colour Greyish brown

Description

Roughly rectangular fragment, showing two rows of fairly evenly-spaced stitch holes, some of which still contain remains of leather thong stitches. One edge is intact; the others are cut off. One short end has a cut lengthwise (about 9 mm long), the function of which is unknown. A large piece of thong protrudes from a stitch hole next to it.

Cat. No. **30**

Find No. DB 1167
Object Sole fragment

Measurements 1: 42.0; w: 21.2; t: 34.0 Colour Greyish brown to brown

Remarks Resinous appearance at one end

Description

Triangular fragment from a sandal's sole, consisting of two layers. Several stitch holes are visible, two of which still have the remnants of leather thongs.

Cat. No. **31**

Find No. DB 1194
Object Sole fragment

Measurements 1: 72.2; w: 18.6 - 23.5; t: 2.6 Colour Greyish brown to brown

Description

Roughly rectangular piece, covered randomly with stitch holes. One of the long edges seems intact. If so, however, the cutting of the sole was done very coarsely because cuts can be seen at several points, which marks the changing of the knife's direction (arrows). Note the sharp corner, which is unfamiliar in the known shapes of sandals. It might be a later rework.

Cat. No. **32**

Find No. DB 2369
Object Sole fragment
Measurements 32.3 x 41.2; t: 3.4

Colour Brown

Description

Roughly square fragment of single thickness. However, the stitch holes, some with remnants of leather thong running stitches still in them, suggest at least one more layer originally.

Cat. No. **33**

Find No. DB 2844

Object Fragment of strap complex

Measurements l: 107.8; d: 3.8 - 4.7; w tube: 12.2;

t tube: 8.2

Colour Greyish brown

Description

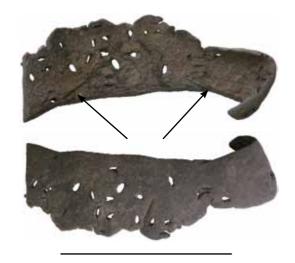
Two lengthwise-folded or slightly twisted pieces of leather that are held together with a tube of leather. The tube has no seams, but seems to thick for leg's leather?



DB 1175. Reverse and obverse.



DB 1167. Ventral and dorsal view.



DB 1194. Ventral and dorsal view.



DB 2369. Ventral and dorsal view.



DB 2844. Obverse and reverse.

Find No. DB 951

Object Fragment of sole(?)

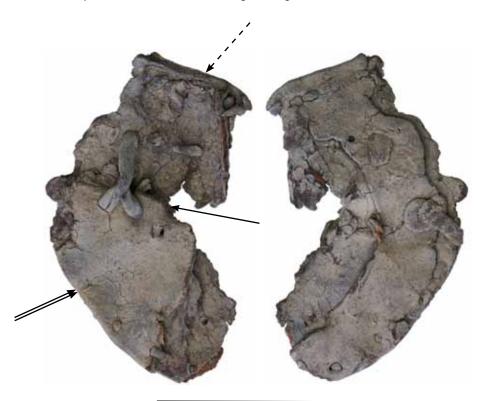
Measurements 32.9 - 37.2 x 77.8; t: 9.4

Colour Greyish brown

Description

Irregularly-shaped fragment of a sandal's sole. The object is assembled from various parts, either originating or not from the same sandal. There are at least three layers, one of which has an original edge,

indicating re-use (arrow). One of the outer layers also clearly shows part of the original edge of a now re-used sandal (double arrow). The opposite side of the object has a straight edge (dashed arrow). Several coarse, randomly-placed stitches keep the layers together. What part of the sandal the object is can no longer be identified; likewise, how it was worn cannot be ascertained either.



DB 951. Obverse and reverse.

Find No. DB 978a

Group DB 978a-c

Object Sole fragment

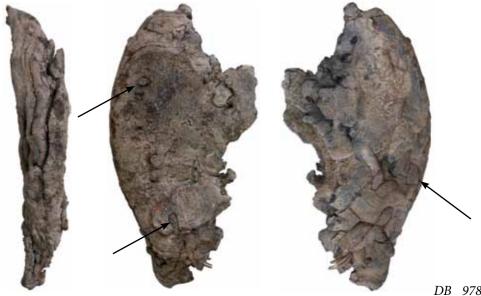
Measurements 1: 74.6; w: 25.6 - 40.7; t: 12.0

Colour Greyish brown
Remarks See also Cat. No. 295

Description

Irregularly-shaped fragment of a sandal's sole, the original shape of which cannot be identified any-

more. The fragment has one intact edge, showing a distinct curvature. The object consists of at least four layers, but not throughout the entire fragment. Several of the layers are later additions, judging by the fact that they run over previous stitches. Several 'original' leather thong stitches are still identifiable (arrow). It is remarkable that the repairs are cut nicely to fit the original sole.



DB 978a. Side, ventral and dorsal view.

Cat. No. **36**

Find No. DB 1235
Object Sole fragment

Measurements 1: 116.0; w: 39.5 - 55.6; t: 2.7

Colour Greyish brown

Description

Irregularly-shaped fragment, showing one piece of intact edge (arrow). Four rows of leather thong running stitches, widely-spaced, can still be identified in between the larger repair stitches. The presence of the stitches indicates that there was originally at least one more sole layer.

Cat. No. **37**

Find No. DB 2218

Object Sole fragment(?)

Measurements 1: 100.0; w: 23.9 - 55.4; t: 1.3

Colour Greyish brown

Description

The two pieces of intact edge form, if the object is a fragment of a sandal's sole, the front part. The lateral edge, which is the largest intact edge of the two, shows a distinct curvature before ending in the pointed front. The sandal consisted of at least one more sole layer, judging by the leather thong running stitches along the edge. Typically in sandals the additional rows of stitches are placed lengthwise down the centre; here, however, the two additional rows run diagonally from back to front. This fact is responsible for the '?' with the identification of the object as sole fragment. Moreover, the slit, tentatively identified as the one for the reception of the front strap, is placed diagonally too (at right angles to the diagonal rows of stitches), again a feature usually not seen in sandals.



DB 1235. Ventral and dorsal view.



DB 2218. Ventral and dorsal view.

38

Find No. DB 1195
Object Sole fragment

Colour Greyish brown to light brown Measurements 1: 56.1; w: 25.2 - 45.0; t: 2.5

Description

Irregularly-shaped fragment with several stitch holes, some of which still contain remnants of leather thong stitches. One edge seems intact (arrow).





DB 1195. Ventral and dorsal view.

Cat. No. **39**

Find No. DB 3264
Object Sole fragment

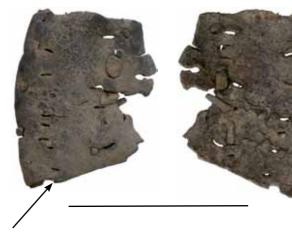
Measurements 1: 49.2; w: 34.9 - 39.3; t: 2.6

Colour Brown

Description

Irregularly-shaped fragment, showing one intact edge. Two rows of empty stitch holes indicate that

there was at least one additional sole layer, which is now lost. There are three secondary leather thong running stitches at the intact edge, which run from the edge slightly but distinctly inwards. Note the cut on one of the short edges (arrow).



DB 3264. Dorsal and ventral view.

Cat. No. **40**

Find No. DB 3309
Object Sole fragment

Measurements 1: 69.5; w: 29.4 - 40.2; t: 11.1

Colour Greyish brown insole; brown

treadsole

Description

Poorly preserved fragment of a sandal's sole, consisting of four layers. One edge, the only intact one, shows a gentle curvature. The layers are secured with leather thong running stitches along this curving

edge. Additional leather thong stitches set inwards from the edge suggests repair. The same is true for the layers themselves, but it cannot be established which ones are repairs. Note that the treadsole is slightly smaller than the insole and midsoles.



DB 3309. Ventral, dorsal and side view.

Find No. DB 2864 Object Sole fragment

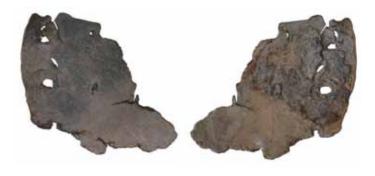
Measurements

Colour Greyish brown grain surface;

> brown flesh surface l: 41.5; w: 44.2; t: 1.6

Description

Irregularly-shaped fragment of sole, showing three stitch holes along the intact edge, as well as two additional stitch holes slightly inwards. Scraps of a second layer adhere to the flesh surface.



DB 2864. Dorsal and ventral view.

Cat. No. 42

Find No. DB 2616 Object Sole fragment l: 71.7; w: 78.7; t: 2.5 Measurements Colour Greyish brown

Description

The fragment has a rounded front; one side edge curves gently towards the straight back edge. The other side edge is straight. Thus, it might be the sole of a right sandal. The paired stitches along the edge (one of which still has remnants of leather thong stitches in situ) suggest that there was at least one additional sole layer originally. The back edge clearly shows it is cut off.

Find No. DB 2903

Object Nearly complete sole

l: 113.0; w back: 46.3; w waist: 35.8; Measurements

w front: 43.4; t: 1.2

Colour Black grain surface (= dorsal sur-

face sole); dark brown flesh surface

Cat. No.

43

Description

Thin layer of leather, which is torn off on most edges. However, two spots show intact edges (arrows). The child's sandal roughly follows familiar sandal shapes: the heel is slightly expanded in width, the waist is restricted but the width increases again towards the front and terminates in a rounded front. At the lateral edge, at the heel, a string $(sZ_{\gamma(2)}[S_3])$ is pulled through a hole, acting as back strap (the one at the medial edge is lost). At the front, a small longitudinal slit must have been used for the reception of the front strap, which is now lost.



DB 2616. Ventral and dorsal view.



DB 2903. Ventral and dorsal view.

Find No. DB 1643a

Group DB 1643a, b

Object Sole fragment

Colour Brown

Remarks See also Cat. No. 320

Measurements 1 including stitches: 57.7; w: 41.0;

t: 7.5

Description

Fragment of sole consisting of two layers. A small piece of original edge is still intact (arrow), including the leather thong running stitching. Two rows of stitches lengthwise down the centre can also still be observed.



DB 1643a. Dorsal and ventral view.

Cat. No. **45**

Find No. DB 1708
Object Sole fragment

Measurements l: 111.6; w at back strap (= waist?):

72.5; w front: 72.1; t total: 11.7

Colour Brown; the ventral surface of the

sole is black (charred)

▼ *DB 1708. Dorsal and ventral view.*

Description

The piece of sole consists of four layers, but the ventral two are probably repairs. The original layers are secured along the edge, and possibly also lengthwise down the centre. However, due to the numerous stitches, the original stitches can no longer be recognised. Note the fragment of the back strap: it is a repair and attached to the soles with a single stitch.



Find No. DB 1660a, b
Object Sole fragments

Measurements (a) l: 61.4; w: 30.3 - 37.5; t: 7.1;

d front strap: 4.1; (b) w: 47.0; l: 34.3; t: 2.9

Colour Greyish brown

Description

- (a) Piece of sandal's sole with rounded front, consisting of three layers. The insole has a row of leather thong running stitches lengthwise down the centre, which is also visible on the ventral surface of the treadsole. However, other stitches and stitch holes in the treadsole are not
- visible in the insole. Thus, at least one of the two sole layers is a later addition. The front strap consists of a lengthwise-folded strip of leather that is secured on the ventral surface of the sole by means of an S-overhand knot (*cf.* text figure 7B). The sandal was meant for the left foot; the size suggests a child's sandal.
- (b) Piece of sandal's sole (probably heel part) with a rounded, intact edge with stitch holes along it. Two stitch holes suggest there was a row of them lengthwise down the centre. This suggests there was at least one other sole layer.



DB 1600a. Dorsal and ventral view.

DB 1600b. Dorsal and ventral view.

Cat. No.

Find No. DB 1710
Object Sole fragment
Measurements 1: 68.2; w: 93.2; t: 9.8

Colour Brown

Description

Front part of a sandal, showing on both edges a distinct curvature towards the front. However, the curvature of the lateral edge (the sandal is meant for the left foot) is more continuous than the medial

edge. The result is a clear big toe area (even though this part is largely missing). The sole layers seem to have been secured along the edge, but numerous repair stitches across the surfaces prohibit identification of the original stitching. There is one transverse slit for the front strap, but most likely another one was positioned anterior to this one. Anterior to the visible slit for the front strap are coarse, leather thong repair stitches.



DB 1710. Dorsal and ventral view.

| Cat. | No. |
|------|-----|
| 4 | 0 |

Find No. DB 1647a

Group DB 1647a-f

Object Sole fragment

Colour Brown

Remarks See also Cat. Nos. 321, 216

Measurements 53.2 x 81.5 x 16.6

Description

Part of a thick, heavily-repaired sandal's sole, consisting of many fragments, all stitched randomly to each other with coarse leather thong stitches. Nothing can be said about the original shape anymore.



DB 1647a. Obverse and reverse.

| Cat. | No. | |
|------|-----|--|
| 49 | | |

Find No. DB 1684b-d
Group DB 1684a-d
Object Sole fragments

Colour (b), (c) Brown; (d) Brown, black

Remarks See also Cat. No. 334
Measurements (b) l: 34.9; w: 61.5: t: 1.8;

(c) 14.3 x 24.1; t incl. stitches: 4.5;

(d) l: 22.7; w: 27.2; t: 6.6

Description

- (b) Small fragment of sandal's sole. The width is intact, suggesting it was meant for a child. There is one, incomplete stitch hole on one of the edges.
- (c) Small, triangular fragment, which possibly is a part of a sandal's sole (of (b)?). There are two intact leather thong running stitches visible on the intact edge.

(d) The fragment consists of three layers that are secured with leather thong running stitches, of which only one is intact (situated at the intact edge).

▼ DB 1684b. Obverse and reverse; DB 1684c. Ventral and dorsal view; DB 1684bd. Various views.



Cat. No.

50

Find No. DB 1288

Object Sole fragment

Measurements 1: 35.8; w: 28.7; t: 2.5

Colour Brown

Description

Roughly square fragment, but tapering on one side. One edge is intact. Several stitch holes, some of which still contain remnants of leather thong running stitches *in situ*, suggest a fragment of a sandal's sole.

Cat. No. **51**

Find No. DB 3713a

Group DB 3713a, b

Object Sole fragment

Measurements 1: 74.2; w: 32.3 - 34.8; t: 3.4 - 5.3

Colour Brown

Remarks See also Cat. No. 346

Description

Parts of the two sides are still hanging on to each other by a small scrap of leather. The sole consists of two layers, which are secured with leather thong stitches along the edge. Slightly inwards from the edge are several additional stitches of leather thong, suggesting repair.



DB 1288. Obverse and reverse.



DB 3713a. Dorsal and ventral view.

Find No. DB 3710
Object Sole fragment
Measurements l: 60.0; w: 55.6; t: 3.6

Colour Brown

Description

Roughly square fragment of a sandal's sole, with, besides the row of leather thong running stitches

along the edge, two additional rows lengthwise down the centre. The spacing between the rows is about 15 mm. The stitches appear short on the dorsal surface of the sole but the spacing is wide. Remnants of the second sole layer are still *in situ* in some of the edge stitching.





DB 3710. Ventral and dorsal view.

Cat. No. **53**

Find No. DB 3711a

Group DB 3711a-c

Object Sole fragment

Measurements 1: 62.4 - 67.4; w: 61.3; t: 7.0

Colour Brown

Remarks See also Cat. No. 347

Description

A nearly square fragment of a sandal's sole, which consists of two layers. Remarkably, most of the five rows of leather thong running stitches are still intact. The rows are about 10 mm apart.





DB 3711a. Dorsal and ventral view.

Find No. DB 3709a

Group DB 3709a, b

Object Sole fragment

Measurements 1: 49.1; w: 36.2; t: 2.1

Colour Brown

Remarks See also Cat. No. 353. Cf. DB 3704a

(Cat. No. 354)

Description

A fragment of the sole of a child's sandal that consists of two layers, which are secured along the edge with leather thong running stitches. Note the difference in spacing at the front relative to the back part of the fragment. The fragment tapers towards the front, ending in a rounded toe part. In the longitudinal plane it is asymmetrical; this suggests it was meant for the left foot, which is confirmed by the off-centre position of the two slits for the reception of the front strap. Behind the front strap are four more slits to further secure the various sole layers. Usually a row of stitches runs lengthwise down the centre along the entire length. Here, however, this is the case only at the front part.

Cat. No. **55**

Find No. DB 3704b

Group DB 3704a-f

Object Sole fragment

Measurements 1: 86.5; w: 8.8 - 13.7; t: 2.5

Colour Greyish brown

Remarks See also Cat. No. 226, 252, 354

Description

Crescent-shaped fragment with intact edge. Several coarse leather thong running stitches are still *in situ* along the edge.

Cat. No. **56**

Find No. DB 3721
Object Sole fragment
Measurements 32.1 x 32.8; t: 7.7

Colour Black

Description

Triangular fragment of two layers that are secured with leather thong running stitches. Possibly, the stitches are repairs.



DB 3709a. Dorsal and ventral view.



DB 3704b. Ventral and dorsal view.



DB 3721. Obverse and reverse. Scale bar is 30 mm.

Find No. DB 3790a

Group DB 3790a-d

Object Sole fragment

Measurements 1: 19.3 - 35.9; w: 19.2 - 35.7; t: 4.7

Colour Dark brown

Description

Irregularly-shaped sole fragment, with one intact edge, showing widely-spaced leather thong running stitches that must have secured at least one more sole layer (now lost). Remnants of a second row, more inwards from the edge, are visible.

Cat. No. **58**

Find No. DB 3759
Object Sole fragment

Measurements 22.1 - 41.6 x 24.6 - 47.5; t: 1.1

Colour Brown



DB 3790a. Ventral and dorsal view.

Description

Roughly L-shaped fragment. There are several coarse leather thong stitches (three pairs, which are widely-spaced) at the edge for the attachment of another sole layer (now lost) to the existing one.





DB 3759. Dorsal and ventral view.

Cat. No.

59

Find No. DB 3786a

Group DB 3786a-e

Object Sole fragment

Measurements 24.5 - 39.8 x 56.4; t: 3.3

Colour Black to brown grain surface;

brown flesh surface

Remarks See also Cat. Nos. 103, 153, 253,

366

Description

Irregularly-shaped fragment of sole with paired stitch holes, suggesting that the running stitches appeared short on one side.





DB 3786a. Dorsal and ventral view.

Description

Cat. No. **60**

Find No. DB 3745
Object Sole fragment
Measurements 1: 54.2; w: 41.6; t: 4.4

Colour Brown



DB 3745. Dorsal and ventral view.

Edge part of the heel of a sandal, just showing small

remnants of the lengthwise positioned slit for the

reception of the pre-strap. The fragment consists

of two layers that are secured with coarse stitches, seemingly made of rawhide. It is certain that most

Cat. No. **61**

Find No. DB 3758a

Group DB 3758a, b

Object Sole fragment

Measurements 1: 82.0 - 88.0; w: 60.5 - 68.7; t: 3.0

Colour Brown

Remarks See also Cat. No. 394

Description

Centre piece of a sandal's sole, showing one intact side edge with a row of leather thong running

stitches along its edge, suggesting that there was at least one more sole layer originally (now lost). There are two more rows of stitch holes (in many of which are the remnants of leather thong stitches), which run lengthwise down the centre. The other edge is torn off, as well as both short edges. Note the relatively large hole on one of the short edges, just next to one of the rows of stitches. Its function is unknown.





DB 3758a. Ventral and dorsal view.

a

Cat. No. **62**

Find No. DB 3779a-c

Object Sole fragments(?)

Measurements (a) 13.0 x 28.1; t: 3.3;

(b) 12.3 x 38.8; t: 2.1; (c) 28.0 x 41.7; t: 3.1

Colour (a) Brown to greyish brown; (b)

Greyish brown; (c) Brown

Description

(a) Roughly rectangular fragment with one intact edge, showing two pairs of leather thong running stitches. The stitches are short on the dorsal surface and long on the ventral surface.

(b) Triangular fragment with remnants of leather thong running stitches.

(c) Irregularly-shaped fragment with two rows(?) of small stitch holes.





b



DB 3779a-c. Obverse and reverse view. Scale bars are 30 mm.

Cat. No.

63

Find No. DB 3792
Object Sole fragment
Measurements 1: 49.3; w: 40.1; t: 2.8

Colour Brown

Description

Larger part of the heel of a sandal, currently consisting of one layer. The stitch holes, however, some of which have remnants of leather thong running stitches *in situ*, suggest that there was at least one more sole layer originally.

Cat. No.

64

Find No. DB 3746a, b
Group DB 3746a-c
Object Sole fragments

Measurements (a) 43.2 x 64.1; t: 19.6;

(b) 25.8 x 46.0; t: 8.2

Colour Brown

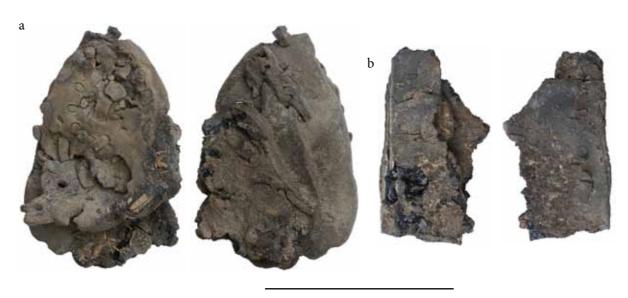
Remarks See also Cat. No. 239

Description

- (a) Much repaired fragment of a sandal's sole, consisting of two layers. The original shape can no longer be determined.
- (b) Nearly rectangular fragment of a sandal's sole, which includes a piece of the original edge. The sole consists of three sole layers that are secured along the edge with leather thong running stitches (more or less evenly-spaced). A single stitch more inwards from the edge suggests additional rows of stitching.



DB 3792. Ventral and dorsal view.



DB 3746a & b. Dorsal and ventral view respectively.

| Cat. | No. | |
|------|-----|--|
| 65 | | |

Find No. DB 3738 Object Sole fragment Measurements 1: 30.8; w: 53.3; t: 2.7 Colour Greyish brown

Description

The roughly rectangular fragment with a slit lengthwise, parallel at the intact edge. The hole at the opposite side is a purposeful hole rather than a torn slit.





DB 3738. Dorsal and ventral view.

Cat. No. 66

DB 3753b, e Find No. Group DB 3753a-f

Object Sole and strap fragments Measurements

(b) l: 84.5; w: 45.0; t: 9.3;

(e) 6.0 x 6.0 x 32.2 / 4.6 x 5.6 x

120.6 / l total object: 80.3; l pre-

strap: 38.0; w pre-strap: 9.3; t pre-

strap: 3.4

Colour Brown

Remarks See also Cat. Nos. 254, 404

Description

- (b) Fairly thick piece of a sandal's sole. The rounded edge suggests that the fragment is either a part of the front or the heel. Along the edge are leather thong running stitches (small on the dorsal surface, but large on the ventral surface), which suggests that there was at least one more sole layer originally. However, both surfaces show repair patches; the one on the ventral surface thus must have been applied after the second sole layer was lost. The patches are secured with leather thong running stitches; the one on
- the dorsal surface in a much coarser way than the one on the ventral surface.
- (e) Two fragments are lengthwise-folded strips of leather, some of which have so-called 'slit-and-pull' connections (see the section 'Slit-and-Pull Technique'). The bigger fragment consists of a pre-strap with a square top to which the back strap is secured through a mesh knot (text figure 7D). The ends of the strip that is knotted to the pre-strap emerges at the side of the pre-strap from between the two layers of which the pre-strap is made. No stitching of the two layers has been observed, even though the top of the pre-strap suggests it. The strip going through the pre-strap is connected, just before the pre-strap, with another strip in the slit-and-pull technique.



DB 3753b. Ventral and dorsal view.





67

DB 3715d-h DB 3715a-i

Group DB 3715a-i
Object Sole fragments and fragment of

pre-strap

Measurements (d) 61.8 x 92.7; t: about 7.8;

(e) w: 15.9 - 52.6 x 67.7; t: 6.2;

(f) l: 69.8; w: 79.5; t: 12.8;

(g) l: 50.6; w: 33.4; t: 4.7;

(h) l: 37.5; w: 16.3; t: 3.2;

Colour (d), (e), (g) Brown; (f) Dark brown

to black; (g) Brown to dark brown

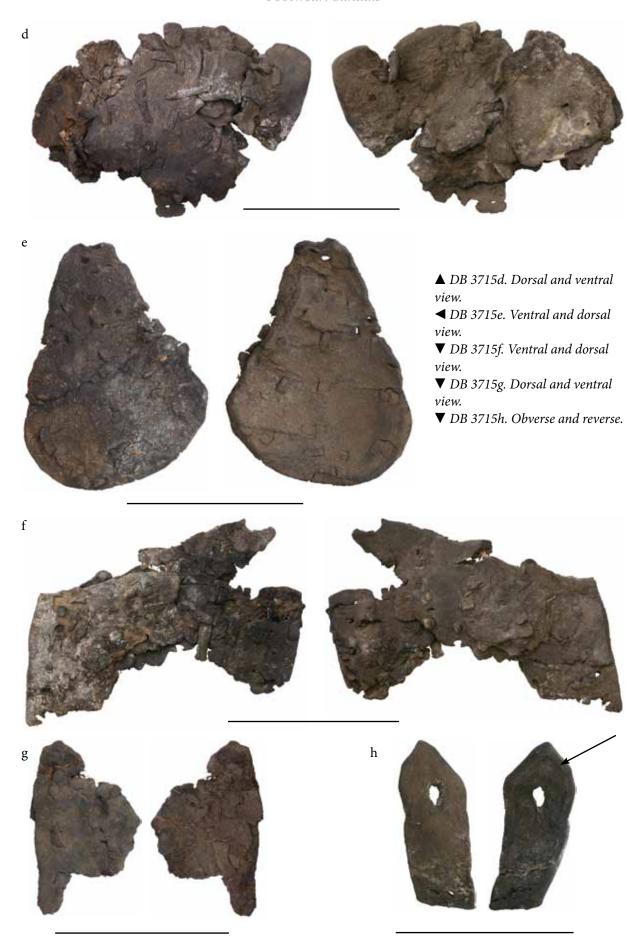
Remarks See also Cat. Nos. 257, 345

Description

Find No.

- (d) Heavily repaired fragment of a sandal's sole. The repairs are so numerous that the original shape or other features such as number of sole layers can no longer be determined.
- (e) Oval piece, consisting of a thick layer of leather. The rounded edge is intact. The leather thong running stitches along the edge as well as the rows lengthwise down the centre suggest at least one other layer.

- (f) Heavily repaired fragment of a sandal's sole, the width of which is intact. Several leather thong running stitches along the edge to attach the various sole layers (likely there were two originally) are still *in situ*. At least one row of leather thong stitches lengthwise down the centre belongs to the original sandal's construction.
- (g) Irregularly-shaped fragment, showing one intact edge. Here, leather thong running stitches are still *in situ*. A second row of leather thong stitches is set slightly inwards suggesting that the fragment originates from a sandal' sole.
- (h) Pre-strap, ending in a triangular top with one slit lengthwise for the attachment of the back strap (now lost). The outer, visible surface shows raised edges (arrow). Note the two stitch holes on the other end of the fragment, suggesting it was broken and stitched back to the sandal.



Find No. DB 2338Aa, e
Group DB 2338Aa-e

Object Sole fragment and pre-strap with

fragment of back strap

Colour (a) Brown; (e) Dark brown Remarks See also Cat. No. 240

Measurements (a) l: 98.7; w (maximal): 42.7; t: 3.4;

(e)lpre-strap:93.0;wpre-strap:16.6; t pre-strap: 1.8; l back strap: 60.5; w back strap: 4.0; t back strap: 2.4

Description

- (a) Incomplete front part of a sandal's sole. Paired, empty stitch holes that follow the edge as well as two rows lengthwise down the centre.
- (e) The top of this pre-strap is triangular/trapezoidal in shape and contains three slits, lengthwise, to which the back strap (more or less folded lengthwise) is hitched (text figure 7F).



DB 2338Aa. Dorsal and ventral view.



DB 2338Ae. Reverse and obverse.

Cat. No. Find No. DB 3200

69

70

Object Element of strap complex

Measurements 13.0 x 12.7; t: 7.1 Colour Dark brown

Small, coiled strip of leather. Description

Cat. No. Find No. DB 2153

> Object Element of strap complex

Measurements 35.6 x 30.1; t: 7.0 Colour Greyish brown

Description

Lengthwise-folded strip of leather that is coiled nine times. The shape is roughly circular and it is perforated through the long sides and through the width of the leather, through which, as parallels suggests, strips of leather were pulled. Note the elevation of the centre part as a result of this (arrow).

Find No. Cat. No. DB 2432

71 Object Element of strap complex

Measurements h: 15.5; w: 17.7; t: 7.2

Colour Brown

Description

Lengthwise-folded strip of leather, coiled nine times. The shape is roughly circular. Note the elevation of the centre part, due to the straps that used to go straight through the coil.

Cat. No. Find No. DB 2689

> Object Element of strap complex Measurements h: 18.0; w: 26.2; t: 7.2

Colour Brown to black

Description

72

73

Strip of lengthwise-folded leather that is coiled seven times. Note the elevation of the centre part, which is due to the straps that used to go straight

through the coil.

Cat. No. Find No. DB 870a-c

> Object Fragments of strap complex

Measurements (a) 1 pre-strap: 34.0; w pre-strap:

20.7; t pre-strap: 2.2; w back strap:

4.4;

(b) 1 pre-strap: 90.0; w pre-strap: 20.1;

t pre-strap: 1.0; w back strap: 3.9;

(c) 23.2 x 25.8 x 7.4

Colour Greyish brown, brown



DB 3200. Obverse and reverse.



DB 2153. Obverse, reverse and side view.



DB 2432. Obverse and reverse.



DB 2689. Obverse, reverse and side view.

Description

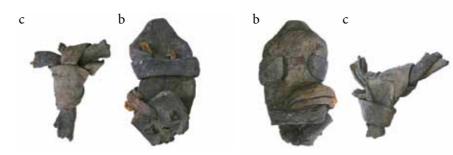
- (a) Incomplete pre-strap. One intact end is rounded and has one slit that is orientated lengthwise for the reception of the back strap, which is tied to it with a mesh knot (text figure 7D). The other end of the pre-strap is torn off.
- (b) Pre-strap with one intact end, cut into a trapezoid shape, with two slits lengthwise to

which the back strap is hitched (text figure 7F). The other end is torn and has a small, nearly square scrap of leather that is attached by means of a single leather thong stitch of a distinctly browner colour. Note the presence of three more stitch holes, in one of which

- are remnants of stitches. This fragment is also torn. Possibly, it is a repair of the pre-strap.
- (c) Two narrow strips of leather knotted in a 'true-lovers-knot' (text figure 7E). It is uncertain whether this is a part of a sandal, though the close association with (a) and (b) suggests so.



DB 870a. Obverse and reverse.



DB 870b & c. Obverse and reverse.

Cat. No. **74**

Find No. DB 2356

Object Fragment of pre-strap

Measurements l: 92.0; w: 12.1; t: 4.3; l slits: 5.0 -

10.0

Colour Dark brown

Description

Pre-strap of fairly thick leather with trapezoidal end. It has three parallel slits that are positioned lengthwise for the reception of the back straps.

Cat. No. **75**

Find No. DB 3787

ObjectFragment of pre-strapMeasurements22.4 - 22.7 x 88.4; t: 2.2ColourGreyish brown to brown

Description

Large fragment of pre-strap, the top of which ends in a trapezoid. At the same end are three slits that are orientated lengthwise (about 12 mm long) for the reception of the back strap (of which nothing



DB 2356. Obverse and side view.

remains). The middle slit stands wide open due to the fact that the back strap usually runs through it twice. The opposite end clearly shows the part that was sandwiched between the insole and subsequent sole layer.

Find No. DB 1629b Group DB 1629a-d

Object Fragment of pre-strap

Measurements l: 30.6; w: 17.6; t: 2.0

Colour Greyish brown

Remarks See also Cat. Nos. 183, 273

Description

Terminating, rounded end of a pre-strap. Note, however, that one corner is cut in a straight, diagonal line. The strap has three slits lengthwise for the reception of the back straps.

Cat. No. 77

Find No. DB 3757a Group DB 3757a-c

Object Pre-strap with fragment of back

strap

Measurements l: 38.5; w: 12.2 - 13.4 x 38.5; t: 2.3 Colour Black outer surface (grain); brown

inner surface (flesh)

Remarks See also Cat. Nos. 228, 367

Description

Pre-strap, the top of which is triangular. It has one slit to which the back strap (single layer, narrow strip of leather) is hitched (text figure 7F). Note that the extremities of the back strap do not emerge from the other surface, but are pulled through the thickness of the edges of the pre-strap. Note also the single stitch hole at the other end.

Cat. No. **78**

Find No. DB 2118
Object Strap complex

Measurements 1 total: 190.0; h pre-strap: 17.6;

t pre-strap: 3.1; w back strap: 5.4; h coil: 11.5; w coil: 6*; t strip coil:

1.8

Colour Brown

Description

Two pre-straps with trapezoidal ends are connected with a narrow leather thong (back strap). The back strap is attached to the single slit, orientated lengthwise, as is usually seen, *i.e.* hitching (*cf.* text figure 7F), but with one exception: instead of going through the slit, they are put through the thickness of the leather (arrow) and emerge from the outer sides of the prestrap, rather than the inner side, after which the back strap runs to the second pre-strap. In between the two pre-straps is an oval, triple coiled element that is made of a narrow but relatively thick strip of leather.



DB 3787. Obverse and reverse.

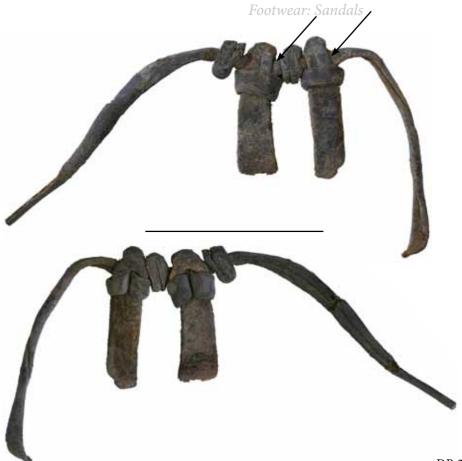


DB 1629b. Obverse and reverse. Scale bar is 30 mm.



DB 3757a. Obverse and reverse.

In this, it contrasts with, for example, DB 2153 (Cat. No. 70), which is made of a lengthwise-folded strip of leather that is far bigger and circular. On the other side of one of the pre-straps is another coil; there was probably also one on the opposite side of the other pre-strap, but it is not preserved.



DB 2118. Obverse and reverse.

Cat. No. **79**

Find No. DB 2125

Object Fragment of strap complex

Measurements 1 pre-strap: 105.0; w pre-strap: 9.7 -

12.6; t pre-strap: 2.2; w total: 114.1; d back straps: 2.1 x 4.1; coils: 5.4 x

6.1 x 11.0

Colour Brown

Description

Two pre-straps with triangular top ends and one slit lengthwise to which the lengthwise-folded back

straps are hitched (text figure 7F). Although the slit is cut through and through, the back strap is pulled through the leather's thickness at the sides of the slit. The back strap is decorated, on both sides of the pre-strap as well as in between them, with small coils (coiled twice) of single layer, relatively thick leather. Probably the main function was to prevent the back straps from slipping and moving too much. Note the unique joined start of the two pre-straps.



DB 2125. Obverse and reverse. The joined start of the two pre-straps is clearly visible.

Find No. DB 1104a, b

80 Object

Fragments of strap complex

Measurements

(a) l: 23.5; d: 3.2 - 3.4;

(b) l: 30.9; d: 3.0 - 3.5 Dark brown to black

Colour Description

Two fragments, both of which consist of two narrow strips, which are connected by the slit-and-pull

technique (text figure 8).

Cat. No.

Find No. DB 1875a, b

81 Object

Fragments of strap complex(?)

Measurements

(a) l: 74.7; w: 7.1; (b) l: 35.1; w: 7.6

Colour

Grevish brown

Description

(a) Two narrow leather strips, still connected to each other although the knot (possibly a half knot, text figure 7A) is largely lost.

(b) Two narrow leather strips that are attached by the slit-and-pull technique (text figure 8).

Cat. No. **82**

Find No. DB 1103b Group DB 1103a, b

Object Fragments of strap complex(?)

Measurements l: 60.1; d: 3.3 x 8.0 Colour Dark brown/black Remarks See also Cat. No. 197

Description

Two lengthwise-folded strips, which are attached by the slit-and-pull technique (text figure 8).

Cat. No.

Find No. DB 3725

83

Object Fragment of strap complex(?)

Measurements 4.7 x 7.2 x 47.2; w strip: 5.9

Colour Greyish brown

Description

Two narrow strips showing the start of the slit-and-pull technique (text figure 8).

Cat. No. **84**

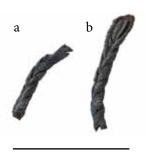
Find No. DB 997a
Group DB 997a, b

Object Fragment of strap complex

Measurements l: 34.6; d: 3.8 x 5.7

Colour Red and brown

See also Cat. No. 294



DB 1104a & b. Overview. Scale bar is 30 mm.



DB 1875a & b. Overview.



DB 1103b. Overview. Scale bar is 30 mm.



DB 3725. Side view and obverse. Scale bar is 30 mm.

Description

Slit-and-pull fragment, made of two differently coloured strips of leather (text figure 8). Part of book cover(?).

Cat. No. **85**

Find No. DB 1823a, b

Object

Fragments of strap complex

Measurements

(a) l: 20.9; d: 4.3;

(b) l: 77.2; d: 4.1

Brown

Colour

Description

Two fragments in the slit-and-pull technique (text

figure 8).

Cat. No. **86**

Find No. DB 2203

Object

Fragment of strap complex

Measurements

1: 43.7 (including bending of the

fragment); d: 3.5 x 4.0

Colour

Dark brown

Description

Fragment in the slit-and-pull technique (text figure 8).

Cat. No. **87**

Find No. DB 1290

Object

Fragments of strap complex

Measurements

l: 61.2; d: 2.1 x 4.1

Colour

Grevish brown

Description

Smaller and larger fragment of two strips made in

the slit-and-pull technique (text figure 8).

Cat. No.

Find No. DB 3310

88 Object

Fragment of pre-strap with back

strap

Measurements

l pre-strap: 42.1; w pre-strap: 27.2;

t pre-strap: 2.9; d back strap: 3.9;

w back strap (at attachment pre-

strap): 6.0

Colour

Greyish brown pre-strap; brown

back strap

Description

End of a pre-strap of trapezoidal shape. The prestrap has three slits lengthwise to which a length-

wise folded back strap is hitched (text figure 7F).

Cat. No.

Find No. DB 2634

89

Object Fragment of strap complex

Measurements 1: 244.0; d: 4.1 x 5.3



DB 997a. Obverse and reverse. Scale bar is 30 mm.



DB 1823a & b. Overview.



DB 2203. Overview.



DB 1290. Overview.

Colour

Dark brown to black original and

red-brown repair

Description

Fragment in slit-and-pull technique (text figure 8). Approximately halfway down a break is repaired with a red leather thong by winding it around the two ends and tucking it into the slit-and-pull fabric in a rather haphazard way.



DB 3310. Obverse and reverse.







DB 2634. Detail of the obstruction in obverse and reverse. Scale bar is 30 mm.

DB 2634. Overview.

Find No. DB 3707

Object Fragment of strap complex

Measurements $3.2 \times 3.5 \times 65.1$

Colour Brown flesh surface; blackish-

brown grain surface

Description

One strip in the slit-and-pull technique (text figure 8). One strip is used with the rougher flesh surface outwards; the other with the smoother grain surface outwards, resulting in a decorative effect.



DB 3707. Overview.

Find No.

DB 2695a-c

Object Measurements Pre-strap with back strap fragment (a) 1 pre-strap: 49.6; w pre-strap:

17.6; t pre-strap: 2.7; w back strap:

5.7; t back strap: 3.0;

(b) 1 pre-strap: 85.0; w pre-strap: 13.6; t pre-strap: 2.5; w back strap:

6.8;

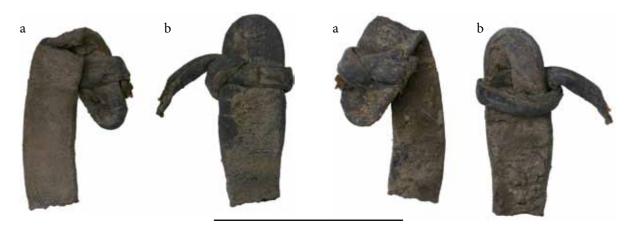
(c) l: 23.0; w: 5.1; t: 2.3 & l: 65.0; w:

5.2; t: 2.5

Colour Dark brown

Description

- (a) Pre-strap with rounded top (folded); the other end is torn off. The lengthwise-folded back strap is secured by means of a mesh knot (text figure 7D) to the single, lengthwise-orientated slit.
- (b) Same as (a). Note that the rounded top end is not folded. In both examples, the part of the back strap which is knotted to the pre-strap is not folded lengthwise: the folding starts after the ends return from the knot.
- (c) Two fragments of lengthwise-folded strips of leather, possibly parts of the back straps.



▲ DB 2695a & b. Obverse and reverse.

► DB 2695c. Overview. Scale bar is 30 mm.

Cat. No. **92**

Find No. DB 3351

Object Fragment of strap complex

Measurements 2.5 x 4.9 x 118.0 Colour Dark brown

Description

Very regular, well-made example of the slit-and-pull technique (text figure 8).

Cat. No. **93**

Find No. DB 3714b Group DB 3714a, b

Object Fragment of strap complex(?)

Measurements 1: 49.0; w: 8.4 - 18.7; t: 2.0

Colour Greyish brown
Remarks See also Cat. No. 352

Description

One end of this fragment is cut diagonally, the points of the end of which are currently slightly upturned. This part would have been pulled through a narrow slit, the corners preventing it from slip-



ping through. This construction is used in sandals. However, the other end of the fragment seems intact, which makes the object much too short to be a sandal's front strap.

Cat. No. **94**

Find No. DB 911

Object Pre-strap with back strap frag-

ment

Measurements 1 pre-strap: 46.2; w pre-strap: 4.4 -

20.0; t pre-strap: 2.5; w back strap: 3.9 - 7.4 (hitched part); t back

strap: 3.1

Colour Brown

Description

Pre-strap with trapezoidal top and three parallel slits, lengthwise, for the reception of the back strap, which is hitched to it (text figure 7F). The back strap is folded lengthwise, but the part going through the slits has lost its folding and the leather is of single thickness. The opposite end is torn off. A narrow, lengthwise-folded strip is inserted at the edge and secured by means of a Z-overhand knot (text figure 7B).

Cat. No. **95**

Find No. DB 1900

Object Pre-strap with back strap frag-

ment

Measurements 1 pre-strap: 36.5; w pre-strap: 17.1 -

21.7; t pre-strap: 2.3; w back strap:

5.9

Colour Brown

Description

Pre-strap, the top of which ends in a rounded triangle and has three slits lengthwise for the reception of the back strap. The back strap consists of two different parts: they run through the outer slits and one end of each is wound once through the centre slit. As usual, the short end opposite to the triangular end is broken off.

Cat. No. **96**

Find No. DB 1719b Group DB 1719a-d

Object Fragment of strap complex(?)

Measurements 1: 69.6; w: 11.2; t total: 5.2

Colour Brown

Remarks See also Cat. No. 200, 277



DB 911. Obverse and reverse.



DB 1900. Obverse and reverse.



DB 1719b. Obverse and reverse.

Description

Two narrow pieces, which are attached by mesh-knotting one through the hole in the end of the other (text figure 7D). Note that the end of this latter fragment terminates in a small but distinctly square area, containing the hole. The opposite ends are slightly wider than the rest of the strip too. Possibly terminal end of pre-strap.

Cat. No. **97**

Find No. DB 3752b Group DB 3752a, b

Object Fragment of strap complex

Measurements 22.5 x 54.2 x 8.4 Colour Dark brown

Remarks See also Cat. No. 406

Description

Small, messy piece, but a small coil, as seen in sandal's strap complexes, can still be identified.

Cat. No. **98**

Find No. DB 1297

Object Pre-strap with back strap frag-

ment

Measurements 1 pre-strap: 38.4; w pre-strap: 10.9;

w back strap: 5.6

Colour Brown to redbrown

Description

Pre-strap with triangular top and two parallel slits, lengthwise, for the reception of the back strap, which is hitched to it (*cf.* text figure 7F). However, instead of going through the entire thickness, the strap goes through the edge of the pre-strap, emerging again from its side. The triangular top is slightly constricted. The opposite end shows a single hole, probably for the reception of a leather strip as seen in, for example DB 911 (Cat. No. 94).



DB 3752b. Obverse and reverse. Scale bar is 30 mm.



DB 1297. Obverse and reverse. Scale bar is 30 mm.

FOOTWEAR (CAT. NOS. 1-101) SHOES (CAT. NOS. 99-101)

Cat. No. **99**

Find No. DB 3795b-d Group DB 3795a-d

Object Fragments of shoe's sole or upper

seam(?)

Measurements (b) 34.4 x 12.5; (t rand: 4.5; t total:

7.3;

(c) 18.0 x 38.2; t total: 9.5;

(d) 13.7 x 22.4 x 6.7

Colour Black grain surface; brown flesh

surface

Remarks See also Cat. No. 360. Cf. DB 945

(Cat. No. 330) and DB 1509 (Cat.

No. 331). See text figure 6

Description

- (b) The centre of this small fragment consists of a lengthwise folded strip, with small scraps of leather attached on both sides. These are secured with double string flax(?) stitches. One stitch is wrapped around the rand.
- (c) Like (b).
- (d) Scrap of leather with stitch holes and remnants of flax(?) stitches, comparable to (b) and (c). Probably of the same (kind of) object.



DB 3795b. Lateral and medial view. Scale bar is 10 mm.



DB 3795c. Lateral and medial view. Scale bar is 10 mm.



DB 3795d. Obverse and reverse. Scale bar is 10 mm.

Cat. No. **100**

Find No. Object DB 3708a-c

Fragments of upper

Measurements (a) 96.5 x 137.9;

(b) 54.0 - 56.7 x 70.9. Repair patch:

21.5 x 35.8;

(c) 29.0 x 50.2; t: 3.2

Colour

(a), (b) Greyish brown; (c) Black grain surface; brown flesh surface.

Remarks See text figure 5; (c) not illustrated Description

(a) The fragment is much-folded, hard and brittle; consequently a thorough study was impossible. Therefore, the description is superficial: the reader is referred to the photographs and figures as main sources of information.

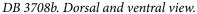
- (b) Front part of the vamp with a semi-circular repair patch at the big toe area. This makes the fragment recognisable as the left shoe. The patch is attached with widely-spaced leather thong running stitches that follow the edge.
- The opposite edge was possibly inserted in the sole/upper seam but since nothing remains of this element, this statement is tentative.
- (c) Small, irregularly-shaped fragment, with a crack that is repaired with a sailor stitch of leather thong (text figure 4).



DB 3708a. Obverse and reverse in overview (top) and detail of the seams (bottom). Scale bar details is 30 mm.

Footwear: Shoes







DB 3074. Lateral and medial view.

Cat. No.

Find No. DB 3074

101 Object

Fragment of upper

Measurements

l total: 130.9; h vamp (maximal):

39.3; h back part: 19.3 - 27.6. Tri-

angular patch: 25.4 x 29.2

Colour

Brown

Description

The irregularly-shaped fragment of the vamp, apparently without lining, is attached to a scrap of the

back part by means of a lengthwise-folded passepoil. The back part has a lining. A triangular patch is inserted between the outer layer and the lining and thus an original part of the shoe rather than a repair. The upper was secured to the sole, of which nothing is left, with leather thong running stitches. The function of the sZ_n flax(?) thread is uncertain (*cf.* DB 3705, Cat. No. 348).

INSIGNIAS (CAT. NOS. 102-112)

Cat. No. **102**

Find No. DB 3735a, b

Measurements (a) 24.7 x 33.1; t: 1.6;

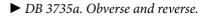
(b) 44.6 x 39.7; t: 1.3

Colour Brown with beige stitching

Description

(a) Semi-circular fragment (note, however, that the curved edge is not smoothly curving but rather cut at various angles, resulting in an angular edge) with z-spun flax(?) string stitched lengthwise down the centre. Additional stitches are situated parallel to the edge

(b) Possibly belonging to (a). The fragment has two (or three?) intact edges. Six flax(?) stitches form a semi-circle; two stitch holes are empty. At right angles to the semi-circle of stitches are several empty stitch holes, which possibly contained flax stitches as well. If (a) and (b) really belong together, the object compares well with the 'insignias' made with leather thong stitches.







DB 3735b. Reverse and obverse. Scale bars are 30 mm.

Cat. No. **103**

Find No. DB 3786b Group DB 3786a-e

Measurements 1: 27.8; w: 30.3; t: 3.9 & 1: 32.8;

w: 34.6; t: 3.9

Colour Black

Remark See also Cat. Nos. 59, 153, 253, 366

Description

Two fragments that fit together, each consisting of two layers. Both layers have one rounded end and an unworked, straight end, which are placed in such a way that both rounded ends are visible on the same side of the object. The attachment is made by pulling one of the two layers through a slit in the other (text figure 41). In order to do so and to ensure that the two layers lie flat together, the pulled thickness has cuts on the side of the part (arrow), which fits the slit. The two thicknesses are placed against each other flesh surface to flesh surface. A row of widely-spaced (5-6 mm) leather thong running stitches (about 3 mm wide and between 4 and 5 mm long) are stitched along the rounded edges of the two thicknesses. Additionally, a row of stitches run lengthwise down the centre.

Cat. No. **104**

Find No. DB 1587

Measurements 27.4 x 34.7; t: 3.5

Colour Blackish grain surface; brown

flesh surface

Description

Two layers, both of which have two intact edges (thus, the width is intact). One end of each layer is torn off; the opposite ends are largely intact. The two thicknesses are placed together grain to flesh surface. Although the fragment is broken, it can still be seen that the most intact fragment was pulled through a transverse slit in the other (arrow; text figure 41). The two layers are secured with widely-spaced leather thong running stitches along the edge, except on one edge (which would have been the middle of the length of the complete fragment, *cf.* for example DB 2869, Cat. No. 105). Additional stitches run lengthwise down the centre.

Cat. No. **105**

Find No. DB 2869

Measurements 36.5 x 77.8; t: 3.4

Colour Greyish brown to black grain sur-

face; brown flesh surface

Description

Object made of two layers, both of which have a square end. The opposite end of one layer ends in a triangle; the end of the other is less well-defined. The layers are put together with the flesh surface against the grain surface. One is cut in at the sides in order to fit the transverse slit in the other (text figure 41). The layers are secured with short, equally but closely-spaced, leather thong stitches in a circle. Through it, lengthwise down the centre, is a row of comparable stitches, which extend to the end of the object. Here, the tip of the thong protrudes. This row of stitches is stitched over the circle.



DB 3786b. Obverse and reverse. Scale bar is 30 mm.



DB 1587. Obverse and reverse.

Find No. DB 3141

Measurements 52.8 x 150.0; t folded: 6.6; t leather:

Cat. No.

106

1.0

Colour Black grain surface; red-brown

flesh surface

Description

Tapering fragment, the widest part consisting of two layers both of which have a trapezoidal end that is placed against the square end of the other layer. The layers are placed flesh to grain surface. One of the layers is cut in at the side (arrow) in order to fit it into the transverse slit of the other (text figure 41). This part is secured with short, evenly-spaced (about the same length as the stitches) leather thong stitches. The stitches form a circle through which, lengthwise, another row of stitches is added. The circle stitches are applied first, because the row is



DB 2869. Obverse and reverse.



DB 3141. Obverse and reverse.

stitched on the flesh side, over them. Note that the stitches do not extend beyond the two layers into the folded, tapering part.

Cat. No. **107**

Find No. DB 2043

Measurements 22.5 - 29.1 x 49.4; t: 2.5 Colour Greyish brown to black

Description

The object is rather damaged. Two thicknesses of leather, both of which have a rounded end and a

square end. The layers are put together flesh to grain surface. One thickness is pulled through a slit in the other (arrow), in such a way that the rounded end of one faces the square end of the other. Note that, as in the comparable objects, the thickness that is pulled through the slit has been cut in at the sides (text figure 41). The thicknesses are secured along their perimeter with leather thong running stitches. At one end of the layer—and this is not seen in the other examples—is a loop that is made of a tapering

strip of leather. One end is attached on one surface of the object proper; the other end is sandwiched between the two thicknesses. The loop is secured with two coarse leather thong stitches. Possibly, the loop was attached because of the poor condition of the object due to wear (especially visible on the obverse) and acted as a sort of repair.

Cat. No. 108

Find No. DB 1550

Measurements 41.8 - 46.2 x 49.8; t: 2.4

Colour Black grain side; brown flesh side

Description

Almost square fragment that consists of two thicknesses, which are secured along the perimeter with regular leather thong running stitches (2.5 mm wide). The two layers are put together grain surface to flesh surface (text figure 41). Note that a big cut in one of the thickness is repaired with leather thong running stitches parallel to it, rather than crossing the cut itself as is usually done (with whip or sailor stitches). This has occurred before the edge was secured as the stitches run over the repair stitches (arrow). Although the second thickness seems to have been used as reinforcement of the cut, the resemblance to the 'insignias' is clear. The edge at one side is damaged.

Cat. No. **109**

Find No. DB 1192

Measurements 1: 59.7; w: 27.7; t: 1.6

Colour Dark brown grain surface; brown

flesh surface

Description

Two thicknesses, both of which have a rounded (although one has, accidentally(?) a more trapezoidal



DB 2043. Obverse and reverse.

end) and a square end. Halfway down the length of one thickness is a transverse slit through which half of the length of the other thickness is pulled (text figure 41). The slit is positioned in the middle of the thicknesses' width and is about 10 mm long. The thickness, which is pulled through the slit, has cuts at right angles to its length on either side of the inserted part to allow a good fit (arrow). The round edge of one thickness rests on top of the square edge of the other. The contact surface of the thicknesses have flesh against grain surface: thus, one side of the object shows only the grain side (but of both thicknesses) and the other side the flesh side (again, of both thicknesses). The two layers are secured lengthwise with three rows of leather thong running stitches. These are rather evenly-spaced. The centre row is slightly longer than the outer two. The stitches are decorative as well as functional. The object is the most complete one of this type of objects.





DB 1550. Obverse and reverse.

Cat. No. 110

Find No. DB 801a DB 801a-j Group Measurements 30.8 x 39.0; t: 3.3

Colour Greyish brown

Remarks See also Cat. No. 135, 206, 288

Description

Small fragment consisting of two layers (text figure 41), which are secured with leather thong running stitches. Additional flax(?) stitches further secure the two layers. The object is badly preserved but it can be ascertained that one end of at least one layer is rounded; the opposite end is torn off. Possibly comparable to the other 'insignias'.

Cat. No. 111

Find No. DB 1712

Measurements l: 54.1; w: 20.3; t: 4.0

Colour Dark brown

Description

Fragment consisting of two parts, both of which have a rounded and a square end. These layers are placed on top of each other in such a way that the rounded end faces the rectangular end of the other. Halfway down, one is pulled through a slit in the other (text figure 41), which makes it face the reverse side of it. In order to accomplish this, the layer being pulled through the slit is cut in at the part where it passes through the slit. The two layers are secured with leather thong running stitches (approximately 3 mm wide) along the perimeter as well as lengthwise down the centre.

Cat. No. 112

Find No. DB 2827

Measurements l: 66.0; w: 37.9; t: 4.0

Colour Dark brown grain surface; brown

flesh surface

Description

Rectangular object that consists of two layers, one slightly thinner than the other. They are assembled with the flesh against the grain surface. Halfway down, one thickness has a transverse slit through which half of the length of the other thickness is pulled (text figure 41). The slit is positioned in the middle of the thicknesses' width and is about 20 mm long. The thickness which is pulled through the slit has right angle cuts on both sides of the place where it goes through the slit to allow a good fit (arrow). A strip of leather is stitched in a circle and line symbol, the latter of which runs lengthwise through the circle. The leather thong is approximately 3 mm





DB 1192. Obverse and reverse.



DB 801a. Obverse and reverse.



DB 1712. Obverse and reverse.

wide. At the straight, short edge, the thong of the line decoration runs under the circle on the grain

side (emerging on the other side, *i.e.* flesh side) and is folded over the edge as a means of finishing.



DB 2827. Obverse and reverse.

BOOK COVERS (CAT. NOS. 113-176)

Cat. No. **113**

Find No. DB 2044

l: 62.5; w: 21.9-31.6; t: 0.8

Measurements Colour

Dark brown

Remarks

Several small scraps not described.

See text figure 31

▼ *DB* 2044. *Obverse and reverse. Right: drawing, see text figure* 31.

Description

Irregularly-shaped fragment with two parallel impressed lines along one, intact(?) edge. Next to this set follows a set of four lines, parallel to the first set but separated from it by an undecorated band. Barely visible is a double impressed line, apprximately at a 45° angle as well as remnants of circle decoration.



Cat. No.

Find No. DB 2717

Measurements 23.9 x 23.4; t: 3.7

Colour Dark brown to black

Description

Small fragment without decoration. Remnants of papyrus adhere to one surface. Leather thong stitches at one edge (apparently running stitch).



DB 2217. Obverse and reverse.

Cat. No. 115

Find No. DB 2738a, b

Measurements (a) 23.5 x 34.0; t: 1.0;

(b) 32.7 x 50.7; t: 1.3

Colour Greyish brown

Description

- (a) Two sets of four(?) lines at about 45° angle.
- (b) Two sets of four lines at right angles, in the corner of which are the dots parallel to the lines.



DB 2738a & b. Obverse and reverse.

| Cat. No. | Find No. | DB 3242 |
|----------|----------|---------|
| | | |

Measurements 26.0 x 31.2; t: 1.9
Colour Greyish brown

Description Small rectangular fragment with

horizontal lines at an angle.

Cat. No. Find No. DB 2790

Measurements 35.4 x 52.5; t: 1.5 Colour Greyish brown

Description

Irregularly-shaped fragment with sets of impressed horizontal lines. From short, small edge to wide short edge (from bottom to top in the figure): set of three, two, three, two and four(?) lines.



DB 3242. Obverse and reverse.



DB 2790. Obverse and reverse.

| C - L | N T - |
|-------|--------------|
| Cat. | INO |
| | |

117

118 Measurements

Find No. DB 2485a, b

(a) 23.8 - 44.0 x 46.8; t: 1.3;

(b) 23.2 x 73.9; t: 1.3

Colour Black, dark brown, light brown
Remarks Scraps of papyrus adhere to one

surface of both fragments

Description

- (a) Roughly square, featureless scrap.
- (b) Rectangular fragment showing evidence of being folded lengthwise, but torn off just after the fold. At the edge it has two stitch holes, in one of which are remnants of sZ_2 string (flax?).



DB 2485a & b. Obverse and reverse.

Cat. No. 119

Find No.

DB 964a, b

Measurements

(a) l: 48.1; w: 34.5; t: 2.4 (including

papyrus);

(b) l: 87.0; w: 13.1 - 25.3; t: 0.9

Colour

(a) Grey; (b) Reddish brown

Description

(a) Roughly square fragment consisting of two parts. One is attached to the other by means

of pulling a narrow extension through a slit. Note that this goes through a layer of papyrus as well.

(b) Tapering piece consisting of two parts, which are attached together but it is uncertain how: possibly it is glued. Remnants of papyrus are attached to both fragments. Note the difference in colour: usually book covers are black, but (b) is not.





DB 964a & b. Obverse and reverse.

Cat. No. **120**

Find No. DB 2146

Measurements 1 total: 235.0; w maximal: 50.5;

t: 1.0; w sewn strip: 10.0

Colour Black and brown

Description

Thin semi-circular fragment that is black on the obverse (outer surface) and brown on the reverse (inner side). The obverse has, on its long edge, two impressed, parallel lines. The semi-circular part has a crescent-shaped slit at one end, which is clearly cut and not caused by wear. Its function is, however, uncertain. The other end has a strip of leather attached (slightly thicker than the semi-circular piece) that is secured with three leather thong, running stitches (note the fourth, empty stitch hole). Fragment of the fore-edge flap.

Cat. No. 121

Find No. DB 793a
Group DB 793a-c

Measurements 1: 27.7; w: 19.9; t: 5.2 (folded)

Colour Grey to grey brown

Remarks See also Cat. No. 270. Several fea-

tureless small scraps are not regis-

tered





DB 2146. Detail of attchment of strip of obverse and reverse. See overview on next page.



Description

Triangular fragment, folded on one side, showing impressed decoration of two horizontal and two vertical lines that cross each other at the corner. Above one set of lines are three stamped dots.

| Cat. | No. |
|------|-----|
| 12 | 2 |

Find No. DB 1269a Group DB 1269a, b

Measurements (Rectangular fragment) l: 55.8; w:

25.2; t: 2.9;

(Decorated fragment) 26.8 x 31.8;

t total: 3.1

Colour Black

Remarks Two fragments that are not num-

bered separately. Scraps of papyrus adhere to both fragments. See

also Cat. No. 16.

Description

The rectangular fragment has no features. The smallest fragment consists of two layers of leather. It has three stamped rings down the middle and two additional rings at right angles to the middle one of the row of three (text figure 17).



DB 793a. Obverse and reverse. Scale bar is 30 mm.



DB 1269a. Close up to show the decoration. Overview at next page. Scale bar is 10 mm.

Book Covers



DB 1269a. Overview of obverse and reverse.

Cat. No. **123**

Find No. DB 2143

Measurements 67.3 x 85.7; t total: 2.9

Colour Black

Remarks Scraps of papyrus adhere to it. See

text figure 34

Description

Folded scrap, showing four parallel impressed line decorations. Another set of four linear decorations crosses these at right angles. Remnants of a third set

are visible too.





DB 2143. Overview of obverse and reverse. Right: drawing, see text figure 34.

Cat. No. **124**

Find No. DB 2431

Measurements

l: 62.5; h: 15.1; t total: 7.2

Colour

Black

Remarks

Scraps of papyrus adhere to one of

the outer surfaces

Description

Folded piece with layers of papyrus in between. The fragment is folded in such a way that a narrow back

is created ('t total').



DB 2431. Obverse and reverse.

Cat. No. Find No. DB 805

125

126

Measurements 19.9 x 16.6; t: 2.3 & 18.4 x 32.2;

t: 2.3

Colour Black

Remarks Not numbered separately. Scraps

of papyrus adhere to one of the

surfaces

Description

Three small scraps with impressed line decoration.

Cat. No. Find No. DB 985

Measurements l: 106.5; w: 6.2; h: 12.8; t leather:

0.9

Colour Black, brown

Remarks Scraps of papyrus adhere to the in-

ner surfaces.

Description

The fragment is folded, creating a narrow back. This back is decorated with a strip of leather that is woven through slits.



DB 805. Obverse and reverse.



DB 985. Side view, obverse and reverse.

Cat. No. **127**

Find No. DB 2116

Measurements 1: 126.3; w: 68.4; t: 0.9

Colour Black, brown

Remarks Scrap of papyrus adhere to it. See

text figure 33

Description

Roughly rectangular fragment, with impressed line decoration. There are three vertical sets of lines (consisting of three, four and three lines respectively) with unclear remnants of sets of diagonal lines.



DB 2116. Reverse and obverse.

| Cat. | No. |
|------|-----|
| 12 | 28 |

 Find No.
 DB 2100a

 Group
 DB 2100a-c

 Measurements
 135.6 x 200.0; t: 2.0

Colour Black, brown

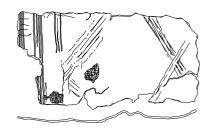
Remarks See also Cat. No. 177, 245. Scrap

of papyrus adheres to it. See text

figure 32

Description

The decoration consists of three parallel lines, the outer two of which are in low relief and the middle one in high relief.



DB 2116. Drawing, see text figure 33.



DB 2100a. Folded, obverse and reverse.

Cat. No. **129**

Find No. DB 1301

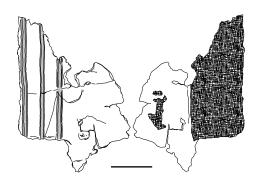
Measurements 37.4 x 42.3; t: 13.2 Colour Black, brown

Remarks Remnants of papyrus in between

the layers of leather

Description

Small scrap that consists of two layers in between which are remnants of papyrus. Two lengths of string (sZ_n) adhere to one surface, its connection to the piece of book cover being enigmatic.



DB 2100. Drawing of the unfolded piece, see text figure 32.



DB 1301. Obverse and reverse.

Cat. No. **130**

Find No. DB 913

Measurements l: 61.4; w: 33.7; t: 3.0

Colour Black, brown

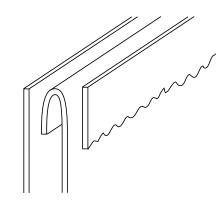
Remarks Scraps of papyrus in between the

layers of leather as well as on the

surfaces

Description

The fragment consists of two layers, one of which is positioned against the folded edge of the other. This layer, however, has a strip of leather on the same edge, the lower edge of which is very irregular. It is not clear whether this is the remnant of the folding of the layer, the folded edge of which is worn through, or that the strip is a separate addition.



Construction drawing of DB 913.





DB 913. Obverse and reverse.

Cat. No. Find No. DB 131

Measurements Varies from 30.6 x 47.3 to 36.4 x

56.6

Colour Black, light brown
Remarks Not numbered separately

Description

Four featureless fragments of which one surface shows remnants of the blackish upper surface, characteristic of book covers. However, the surfaces are so worn, the inner layers (flesh side) of the leather are predominantly visible.

Cat. No. **132**

131

Find No. DB 839a, b

Measurements (a) 8.9 x 39.5; t folded: 5.3; t leath-

er: 1.4;

(b) 12.6 x 81.0; t folded: 2.3

Colour Black, light brown

Remarks Remnants of papyrus on all outer

surfaces

Description

(a) Lengthwise-folded, slightly curved fragment.

(b) Rectangular, lengthwise-folded fragment with a single stitch hole and remnants of the stitch at the folded edge.

Cat. No.

Find No. DB 1656

133 Measurements

ts 9.4 x 12.0 x 59.6; t leather: 1.4

Colour Bi

Brown, black

Remarks

Remnants of papyrus inside

Description

Lengthwise folded strip of leather, resulting in a relatively wide back.

Cat. No. **134**

Find No. DB 1655a-c

Measurements

(a) 19.8 x 50.2; t total: 7.3;

(b) 17.4 x 89.6; t: 5.2;

(c) 56.7 x 77.8; t: 1.7

Colour

Greyish brown to dark brown

Remarks

Remnants of papyrus inside the

folds, on both surfaces of (a) and (b) and on one surface of (c)

Description

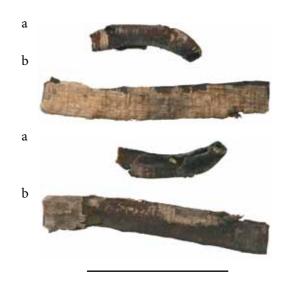
(a) Short, rectangular fragment, showing the start of a fold on one of its long edges.

(b) Long, roughly rectangular fragment, which is folded lengthwise. Remnants of fibres are present inside the fold; possibly, these are palm leaf.

(c) Bigger, but featureless fragment.



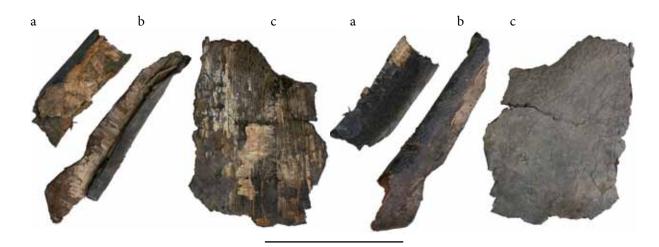
DB 131. Featureless scraps.



DB 839a & b. Obverse and reverse.



DB 1656. Inner- and outer view.



DB 1655a-c. Obverse and reverse.

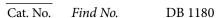
| Cat. No. | Find No. | DB 801c |
|----------|--------------|---------------------|
| 135 | Group | DB 801a-j |
| | Measurements | 24.1 x 38.5; t: 1.1 |
| | Colour | Greyish brown |

Remarks See also Cat. No. 110, 206, 288.

Remnants of papyrus inside

Description

Curled fragment with impressed line decoration. There is at least one set of three parallel lines and, possibly, a single line some distance away.



Measurements 34.0 x 37.5; t including papyrus: 5.7 Colour

Black. Papyrus scraps adhere to

both sides

Description

136

137

Triangular fragment with an isolated leather thong stitch.

Cat. No. Find No. DB 2333

> Measurements Decorated: 29.4 x 47.2 x 9.2. The

> > remainder varies from 19.2 x 31.0

to 18.8 x 49.2

Colour Greyish brown to brown Remarks Not numbered separately

Description

One of the fragments shows impressed line and circle decoration: two sets of four parallel lines run vertically, overlain by a set of two parallel horizontal lines. In the thus-created compartments are impressed circles. The smallest fragment shows two parallel lines and a circle, all of which are impressed. The third fragment seems to have an impressed circle.



DB 801c. Obverse and reverse.



DB 1180. Obverse and reverse.

Find No. DB 1379 Measurements 68.2 x 89.8; t: 1.0 Colour Brown, black

Description

Featureless fragment except for a small hole in the centre. Judging by the worn area around it, the hole is probably due to wear.

Cat. No. 138



DB 2333. Obverse and reverse.



DB 1379. Reverse and obverse.

| Cat. No. | Find No. | DB 2344a-c |
|----------|--------------|--|
| 139 | Measurements | (a) total: 6.4 x 66.3 x 73.8. Leather |
| | | strip: w: 17.0 & 17.7; |
| | | (b) total: 3.4 x 52.2 x 62.6. Leather |
| | | strip through slit: w: 9.6; t: 2.1; |
| | | (c) 12.6 x 21.3; t: 2.1 & 13.6 x 63.3; |
| | | t: 1.0 |
| | Colour | Greyish brown to black |
| | | |

Description

- (a) Roughly square piece of multi-layer papyrus, the edge of which is covered with a leather strip that is folded over the thicknesses of papyrus. Note the large slit in the papyrus (see also (b)).
- (b) Irregularly-shaped piece of multi-layer papyrus (but much thinner than (a)). A small scrap of leather strip is pulled through a slit.
- (c) Two featureless scraps of leather.

| Find No. | DB 2142 |
|--------------|-----------------------------------|
| Measurements | 38.3 (maximal) x 56.4; t: 1.0 |
| Colour | One surface blackish (grain sur- |
| | face?); obverse surface red-brown |
| | (flesh surface?) |
| | |

Description

Roughly teardrop-shaped fragment with impressed line decoration. There are two to four parallel lines in one set; several horizontal and vertical sets form a checkerboard pattern. On the other side (the flesh surface), the checkerboard decoration is visible as well, but here it shows as one or two, wider, raised lines that are crossed by impressed ones. Note the oaval stitch holes(?) at one edge (arrow).

Cat. No. **140**



DB 2142. Details obverse and reverse. Scale bar is 10 mm.

Cat. No. 141

Find No. DB 3000

Measurements 53.8 - 77.0 x 163.0; t edge: 7.8

Colour Blackish outer surface but red-

brown beyond the worn surface. Grey inner surface

Description

Corner piece of a sheet of leather, the edge of which is reinforced with a strip of leather that is folded around (width approximately 13.0 mm). One surface shows a large patch of papyrus, which clearly is the inner side of the cover. The outer side, however, has patches of papyrus attached but these are much smaller. The outermost surface of this side is severely worn, showing the yellow brown inner layer of the leather thickness.





DB 3000. Obverse and reverse.

Cat. No. 142

Find No. DB 3401

Measurements 28.6 x 38.0; t: 1.9

Colour Black grain surface; red-brown

flesh surface

Description

Irregularly-shaped fragment with a set of three parallel, impressed lines. Note the perfect circular, randomly placed holes.



DB 3401. Obverse and reverse.

Cat. No. Find No. DB 2325a-c

143

Measurements (a) 72.4 - 110.1 x 160.0; t: 0.8;

(b) 21.6 x 43.7; t: 1.0;

(c) 91.5 x 123.5; t including papy-

rus: 3.3

Colour Black grain surface; brown flesh

surface

Remarks Papyrus adheres to the entire flesh

side. See text figure 17

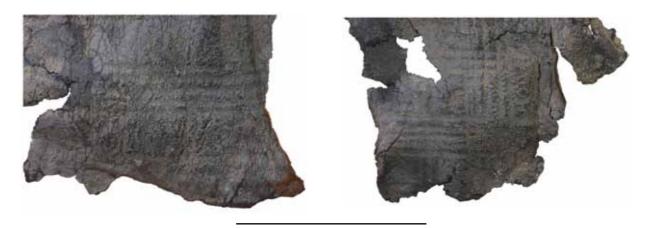
Description

(a) Irregular, roughly rectangular fragment, showing horizontal, impressed line decoration. A set of five parallel lines is crossed at one end of the

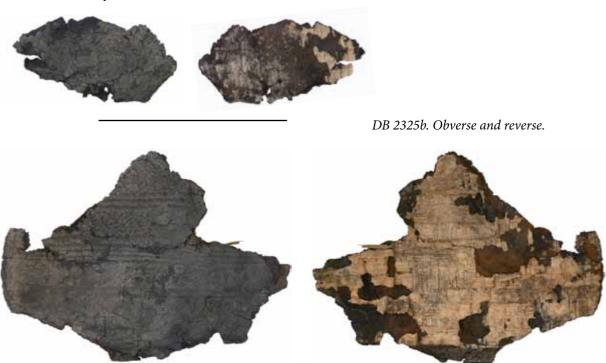
fragment by a second set of five lines at right angles. Shortly before this set (about 10 mm), a set of three parallel lines crosses the horizontal lines, again at right angles. The opposite end, being much wider, has diagonal lines on one side of the set of horizontal lines, which possibly consist of three parallel lines. These cross each other, forming a diamond pattern. Inside some of the corners there are circles. These seem to be at random but this might be due to the fact that the fragment is too badly preserved. The poor condition also prohibits the identification of the sequence of application of



DB 2325a. Obverse and reverse.



DB 2325a. Detail of the decoration.



DB 2325c. Obverse and reverse.

the decoration. Note that the decoration is also visible on the back side of the leather.

- (b) Featureless scrap with some unclear impression at one corner that might be impressed line decoration.
- (c) Fragment with impressed decoration, starting with a set of three parallel, horizontal lines. Below these, at a fair distance (about 10 mm), is a set of five horizontal, parallel lines, followed by

a row of circles (about 11 mm high; the diameter of the circles is about 4 mm). Below, this row of circles is bordered with a set of two horizontal, parallel lines. To the left, at right angles to the horizontal lines, is first a set of three(?) parallel lines, followed at a fair distance (about 10 mm?) by a set of four parallel lines. The vertical lines cross the set of five horizontal lines, after which the fragment is broken.

| Cat. No. | Find No. | DB 2372a-c |
|----------|--------------|-------------|
| 144 | Magazzamanta | (a) 51 0 63 |

Colour

Measurements (a) 51.0 - 63.1 x 56.5 - 66.0; t: 0.8;

(b) 19.5 - 55.2 x 26.9 - 52.1; t: 0.9;

(c) 33.3 - 56.7 x 25.3 - 65.5; t: 0.8

Black grain surface; red-brown

flesh surface

Remarks Note the small pieces of sticking

paper, which were added before the fragment was studied for the

present work.

Description

(a) Roughly square fragment, which is broken on all edges. The corners show remnants of impressed line decoration; one corner seems intact. It has a set of three parallel lines, followed at a slightly larger distance (about 4 mm), by a set of four parallel lines. The other corner only shows the first set (partially). The thus-created, diamond-shaped area (about 50 x 50 mm), is filled with

- two large, stamped rosettes (about 15 mm in diameter), one of which is incomplete due to a break. The petals are in low relief, but the heart of the rosette shows in high relief.
- (b) Triangular fragment with impressed line decorations. A set of five horizontal, parallel lines is followed at fair distance (about 7 mm), by a set of three parallel, horizontal lines. Below this set (about 8 mm), is another set of four parallel, horizontal lines. Just visible on the lowest point of the fragment, at an estimated 45° angle, is a set of three(?) parallel lines. Note that these do not run over or under the last horizontal lines, but are neatly placed against them.
- (c) Roughly triangular fragment with elaborate, but barely visible, impressed decoration consisting of several sets of parallel lines that are at right angles to each other. In addition to the lines are dots and possibly other symbols.



DB 2372a. Obverse and reverse.



DB 2372b. Obverse and reverse.



DB 2372c. Obverse and reverse.

Remarks

| Cat. No. | Find No. | DB 3724b, c | Description |
|----------|--------------|--|--|
| 145 | Group | DB 3724a-c | (b) Irregularly-shaped fragment with leather thong |
| | Measurements | (b) 60.1 x 63.6; t total: 15.7; | protruding from it. On the reverse, the leather |
| | | w thong: 13.3; | thong includes the papyrus layers as well as a |
| | | (c) 21.1 x 62.0; t: 1.2 / 13.8 x 52.1; | bunch of s-spun strings. |
| | | t: 1.7 / 13.2 x 21.2; t: 1.9 | (c) Three scraps, one of which (the largest) has two |
| | Colour | (b) Black grain surface; brownish- | stitch(?) holes. |
| | | black flesh surface; (c) Brown | |

See also Cat. No. 342. Remnants of papyrus adhere to the surfaces ■ DB 3724b & c. Obverse and reverse.



Cat. No. **146**

Find No. DB 1306

Measurements 41.4 - 87.7 x 36.2 - 62.1; t: 1.4

Colour Black grain surface; brown to

black flesh surface

Remarks Remnants of papyrus adhere to

the flesh surface. See text figure 27

Description

Irregularly-shaped fragment with impressed decoration. A rather superficial impression of two wide lines, which are only loosely separated, is followed (spacing between 3 and 4 mm) by a set of two vertical lines (although it might also be one; it is too unclear to be certain), also superficially impressed. Next follows (about 8 mm spacing) a set of four, parallel lines, which is followed, at a fair distance (about 7-8 mm), by a set of three parallel lines. Again, at a fair distance (about 7 mm) is another set of four vertical, parallel lines. Two parallel lines curve away from the this last set. On the convex side of these two lines run two (or more?) slightly impressed lines that partially

cross the last set of four horizontal lines, but it is uncertain if these are intentional and part of the decoration scheme. On the other side of the curved lines are five impressed motifs, approximately 4 mm high. These are barely visible, but probably consist of two 'x' symbols on top of each other. Next to it, the corner of decoration of lines that cross each other at right angles can just be seen after which the fragment is broken off. Note the slit between the second and third set of vertical decoration.



■ DB 1306 Drawing, see text figure 27.

▼ *DB* 1306. *Obverse and reverse.*





Cat. No. **147**

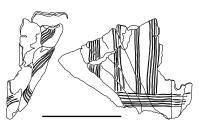
Find No. DB 1510

Measurements 15.3 - 26.2 x 65.0; t leather: 1.6 Colour Grey grain surface; red-brown

flesh surface

Remarks Remnants of papyrus adhere to the

flesh surface. See text figure 28



DB 1510. Drawing, see text figure 28.

Description

Small, curled fragment with impressed line decoration. A set of five vertical, parallel lines is followed at a fair distance by a set of four horizontal, parallel lines, another set of three lines and, finally, a set of five vertical lines. On one edge of the fragment is a set of six lines, which crosses the vertical lines at right angles.

Cat. No. **148**

Find No. DB 2027

Measurements 32.9 x 76.0; t: 1.1

Colour Grey grain surface, red-brown

flesh surface

Remarks Remnants of papyrus adhere to

the flesh surface

Description

Poorly preserved fragment, showing, albeit unclearly, impressed line decoration. A set of four horizontal, parallel lines is followed, at a fair distance (about 10 mm), by a set of two(?) horizontal, parallel lines. Finally, there is a set of five horizontal but barely visible, parallel lines at about 6 mm from the previous set.

Cat. No.

Find No. DB 989a, b

Measurements (a) 119.1 x 119.3; t folded, hori-

zontal edge: 3.3; t leather: 0.7 (see

also sketch);

(b1) 47.8 - 72.8 x 49.1 - 53.3;

(b2) 40.2 x 37.7; (b3) 31.4 x 47.9; (b4) 31.7 x 44.3; (b5) 27.3 x 39.7; (b6) 14.3 x 25.8; (b7) 2.5 x 5.3 x 60.7

Colour Grey grain surface; red-brown

flesh surface; red leather in (b7)

Remarks Description based on text figure

26A & B. Remnants of papyrus

adhere to the flesh surface

Description

(a) Corner piece. The horizontal edge consists of a folded layer ('A' in the sketch; the fold is about 28 mm wide), which is the outermost surface of the cover on the other side, under which another, but smaller, folded layer is situated ('B' in the drawing; this is about 13 mm wide). On the corner, the folded area from the vertical edge ('C'



DB 1510. Obverse and reverse





DB 2027. Obverse and reverse

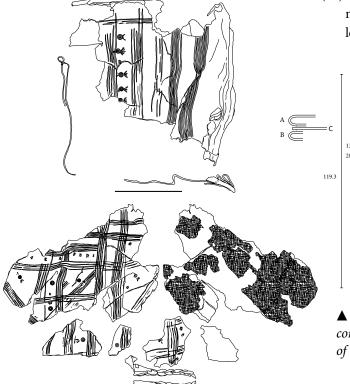
in the sketch; about 40 mm wide) runs over the small folded horizontal edge and the larger folded, horizontal edge. The vertical edge has a thin rod included. The exact construction cannot be determined, but leather is covering the rod on all sides. The rod as well as its leather covering seems independent of the rest, but there are no stitches: it might be glued to the cover proper. The outer side has impressed decoration. The sequence is: a set of six horizontal, parallel lines; about 10 mm

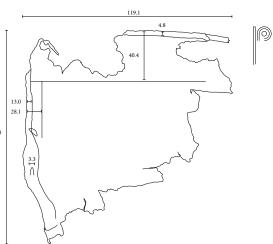
below is a second set, consisting of five horizontal, parallel lines; barely visible parts of a set of four horizontal, parallel lines at about 10 mm below; 10 mm below this is another set of six irregular, horizontal, parallel lines (it might have been intended to make five, but most likely something went wrong here as two lines are very close together and seem to merge into one another); a band of about 10 mm width contains stamped circles from which 'petals' extend at the top and bottom (arrow in the text figure; from here on referred to as 'rosettes'; note that most likely these differ from rosettes proper in the fact that the petals do not extend around the entire central circle, cf. for example DB 2196, Cat. No. 175) and finally a set of five horizontal, parallel lines. Towards the edge with wood core mentioned above, roughly 10 mm from the edge proper, is a set of three vertical, parallel lines that cross the horizontal lines at right angles (the latter run to the edge itself).

(b1) Irregularly-shaped fragment, which shows a rectangular and square area that are made of sets of impressed lines (five vertical and apparently four horizontal, parallel lines). To the left and right sets of impressed lines are visible too: at least a set of five or six parallel, vertical lines, crossed at three

points by sets of horizontal lines. The set of lines that make up one of the long sides of the rectangle does not continue to the second vertical set of lines (dashed arrow); the other set that forms the long side of the rectangle does. The rectangular area has several 'rosettes'; the square has at least one. More rosettes can be found in the areas immediately next to the rectangle and square as well as on the other side.

- (b2) Small triangular fragment with impressed line decoration, consisting of sets of three and five parallel lines. It fits with fragment A (*cf.* text figure 26B).
- (b3) Roughly triangular fragment with impressed decoration (remnants of two sets of six lines and one of three lines(?)) and one 'rosette'.
- (b4) Irregularly-shaped fragment with impressed decoration: two sets of five (one set only shows the remnants of four because the fragment has broken off) parallel lines that are crossed at right angles by a set of five parallel lines. In several spots, remnants of 'rosettes'.
- (b5) Irregularly-shaped, featureless fragment.
- (b6) Irregularly-shaped fragment with impressed decoration: a set of five (possibly six) parallel lines and one 'rosette'(?).
- (b7) Fragment that is made in the slit-and-pull technique (text figure 8) with two differently-coloured leather strips: red and dark brown.

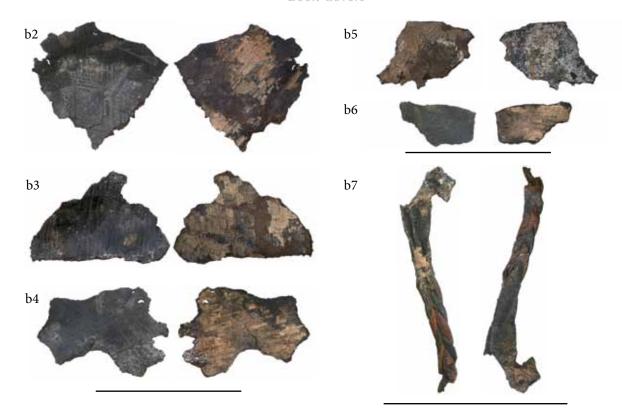




▲ Sketch, showing measurements and edge construction. Description is based on orientation of the text figure.

■ DB 989a & b respectively. Drawing, see text figures 26A & B.





DB 989b1-7. Obverse and reverse.

| Cat. | No. |
|------|-----|
| 15 | 60 |

Find No. DB 1614

Measurements 30.1 x 35.0; t: 1.0

Colour Grey-brown grain surface, brown

flesh surface

Description

Small fragment with horizontal and vertical impressed line decoration: a set of three parallel, horizontal lines is followed, at a fair distance, by a set of two parallel, horizontal lines. On the side, these are crossed by a set of three vertical, parallel lines and, next to it, by another set, of which two vertical parallel lines are still visible. At the top of the fragment, the edge shows several cuts, one of which is a slit (the others probably were too but since the fragment broke off, they appear now as cuts).

Cat. No. **151**

Find No. DB 3349

Measurements 40.5 x 49.8; t: 1.4

Colour Black grain surface; brown flesh

surface

Description

Small fragment with remnants of impressed line decoration (three lines).



DB 1614. Obverse and reverse.



DB 3349. Obverse and reverse.

Cat. No. Find No. DB 3751

152 *Measurements* 32.6 x 41.4; t: 2.0

Colour Brown

Description

Roughly rectangular fragment with one rounded corner. A row of stitch holes runs slightly diagonally across the fragment's length.

Cat. No. Find No. DB 3786c

153 Group DB 3786a-e

Measurements 26.9 x 34.9; t: 1.5 Colour Greyish brown

Remarks See also Cat. Nos. 59, 103, 253,

366

Description

Roughly rectangular scrap, with, just visible, two parallel impressed lines on one surface.

Cat. No. Find No. DB 3768

154 *Measurements* 25.9 x 34.5; t: 1.7

Colour Brown

Description

The surface is much worn, probably by continuous handling. The fragment has a set of four impressed,

parallel lines.

 Cat. No.
 Find No.
 DB 3756c

 155
 Group
 DB 3756a-d

Measurements 28.7 x 39.8; t: 1.2 Colour Greyish black

Remarks See also Cat. Nos. 229, 368

Description

Triangular fragment with horizontal and vertical line impression, resulting in a checkerboard pattern

(the squares are about 5 x 5 mm).

Cat. No. Find No. DB 3788

156

Measurements 50.3 x 66.4; t: 1.4 Colour Greyish brown

Remarks Papyrus adheres to one surface

Description

Roughly triangular fragment with an incised line, at one side of which are irregularly-shaped slits that might be stitch holes.



DB 3751. Obverse and reverse. Scale bar is 30 mm.



DB 3786c. Obverse and reverse. Scale bar is 30 mm.



DB 3768. Obverse and reverse. Scale bar is 30 mm.

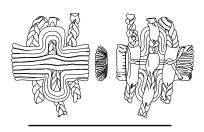


DB 3756c. Obverse and reverse. Scale bar is 30 mm.





DB 3788. Obverse and reverse.



DB 782. Drawing, see text figure 24.

Cat. No. **157**

Find No. DB 782

Object Element associated with books

Measurements 28.5 x 36.7 x 5.4 Colour Red, brown

Description

Cross that is made of 3 x 3 lengthwise folded strips of leather; the outer three strips, on both sides, make a distinct curve. These protruding parts thus make up the vertical beams of the cross. The strips are secured at right angles with slit-and-pull strings. One of the two strips from which these slit-and-pull strings are made, go through the lengthwise-folded leather whereas the other goes over it, to be joined afterwards. Most likely it was attached with a strip of leather, string or string of beads to the book binding, serving as book-marker.

Cat. No. **158**

Find No. DB 975

Measurements 16.9 - 34.1 x 85.3; t: 2.4

Colour Greyish black grain surface (the

visible, decorated surface); brown

flesh surface

Remarks See text figure 25

Description

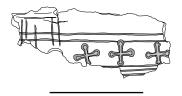
Roughly rectangular fragment with impressed line decoration and crosses. Two horizontal, parallel lines are followed by a band (about 14-15 mm



DB 782. Obverse and reverse.



DB 975. Obverse and reverse.



DB 975. Drawing, see text figure 25.

high) of three crosses (12.8 x 12.8 mm), which in its turn is bordered by a set of three horizontal, parallel lines. To the left are five vertical, roughly parallel impressed lines that cross the horizontal ones at right angles. The spacing of the vertical lines varies.

| Cat. | No. |
|------|-----|
| 1.5 | • |

| Find No. | DB 3797a, b |
|--------------|---------------|
| 1 11111 110. | DD 3/ // a, 0 |

Measurements (a) 33.0 - 63.3 x 25.1 - 66.7; t: 1.2;

(b) 8.6 - 36.4 x 38.8 - 95.4; t folded:

2.2

Colour (a) Greyish black grain surface

(decorated surface), brown flesh

surface; (b) Brown

Description

(a) Roughly L-shaped fragment with impressed decoration. A set of two horizontal, parallel lines are, on the right side, crossed by a set of

four vertical lines. This latter set makes a 90° angle twice, due to which a square is created of about 20×20 mm. Outside this square is a band (about 10 mm wide) with impressed rosettes (about 3 mm in diameter). This band is bordered by a set of three vertical, parallel lines, which start at the lowest of the set of two horizontal lines, but do not cross them. At the bottom of the fragment are parts visible of three horizontal, parallel lines; it is not certain, however, if these make a square with the set of vertical lines, as the fragment is not preserved at the possible junction.

(b) Lengthwise-folded fragment. The presence of impressed line decoration can be observed, but the bad condition of the fragment prohibits a detailed description.





DB 3797a. Obverse and reverse.





DB 3797b. Obverse and reverse.

Cat. No. **160**

Find No. DB 3783a Group DB 3783a-c

Measurements 12.6 - 39.0 x 90.0; t: 2.5

Colour Grey grain surface (surface with

decoration); brown flesh surface

Remarks See also Cat. No. 234, 379. Scraps of

papyrus adhere to the flesh surface

Description

The fragment has five, poorly visible, impressed circles (about 1.3 mm in diameter). Possibly, there is more decoration but the bad condition prohibits identification.

Book Cover.





DB 3783a. Obverse and reverse.

Cat. No. **161**

 Find No.
 DB 3765b

 Group
 DB 3765a, b

 Measurements
 48.0 x 59.8; t: 0.8

Colour Greyish black grain surface (is decorated surface); brown flesh

surface

Remarks See also Cat. No. 386
Description

Scrap, showing a set of four parallel, impressed

lines.



DB 3765b. Obverse and reverse.

Cat. No. **162**

Find No. DB 3782b, c Group DB 3782a-f

Measurements (b) 22.5 x 31.9 x 68.0; t total: 11.4;

(c) 6.5 - 15.5 x 55.0

Colour (b) Brown; (c) Black grain surface

(decorated surface); brown flesh

surface

Remarks See also Cat. No. 388

Description

- (b) Corner piece that includes several layers of papyrus. One part of the layer is cut in and folded around the edge.
- (c) Irregularly-shaped fragment with barely visible remnants of impressed line decoration on one surface.



DB 3782b. Obverse and reverse.



DB 3782c. Obverse and reverse.

| Cat. | No. |
|------|-----|
| 16 | 53 |

Find No. DB 2826

Measurements

200.0 x 230.0; t: 0.9

Colour

Greyish brown

Remarks

Stored in the SCA Magazine, Luxor

Description

Big piece of book cover, showing red and black painted decoration. On one side there is a damaged band (average width about 3.5 mm) in the shape of an upside down 'U'. Within this, about 75 mm wide area, are three triangles, placed seemingly at random. These triangles are also visible because of the damaged surface of the leather. The damage might have been caused by a chemical reaction between the paint and the leather (or curing/tanning chemicals). On the opposite edge is decoration(?) in red; one motif is recognisable and vaguely resembles the shape of a question-mark.

Cat. No. **164**

Find No. DB 2709a, b

Measurements

(a) 18.7 - 29.3 x 103.6; t: 1.8;

(b) 24.6 x 47.3; t: 1.6

Colour

Black grain surface (decorated

surface); brown flesh surface

Remarks

Stored in the SCA Magazine, Luxor. Papyrus remnants adhere to the

flesh side of the leather

Description

- (a) Roughly rectangular fragment showing on the grain surface a set of three vertical, parallel impressed lines, next to which is, at a fair distance (about 8 mm), another single vertical impressed line.
- (b) Irregularly-shaped fragment, showing some vaguely impressed line decoration, which might be comparable to (a).



Find No. DB 3439

165 Measurements

28.6 - 36.5 x 58.2; t including pa-

pyrus: 3.4

Colour

Grey brown grain surface; brown

flesh surface



DB 2709a. Obverse and reverse.



DB 2709b. Obverse and reverse.



DB 2826. Obverse and reverse. Note the painted decoration.

Remarks Papyrus remnants on the flesh

side. Cf. DB 985 (Cat. No. 126)

Description

Decorated fragment, showing two parallel, impressed, horizontal lines, followed at a fair distance

(about 5-6 mm) by one horizontal, impressed line. Belowthis line is a band of decoration: short (7-8 mm) near-vertical cuts are made at a regular distance, through which a strip of leather is woven.



DB 3439. Obverse and reverse.

Cat. No. **166**

Find No. DB 3736b

Group DB 3736a-c

Measurements 23.1 x 26.3; t: 1.4

Colour Greyish brown

Remarks See also Cat. No. 235, 398

Description

Decorated fragment, showing on one surface a set of two parallel, horizontal impressed lines, crossing a set of two parallel, vertical impressed lines.



DB 3736b. Reverse and obverse.

Cat. No. **167**

Find No. DB 3732

Measurements 17.5 x 26.6; t: 1.2 & 31.1 - 37.7 x

49.6; t: 1.4

Colour Greyish black grain surface (= deco-

rated surface), brown flesh surface

Description

Two pieces that fit together, with vaguely impressed line decoration that form a rectangle. One of the long sides consists of two parallel lines.



DB 3732. Obverse and reverse.

Cat. No. **168**

Find No. DB 1585

Measurements 1: 66.5; w (thickness back): 7.9;

h: 10.9; t leather: 1.7

Colour Greyish brown

Description

A strip of leather forms the back of several layers of papyrus. This is done in such a way that there is a true back (measurement 'w (thickness back)').





DB 1585. Obverse and reverse.

Find No. DB 325a, b

Measurements (a) 73.4 x 113.2;

(b) 150.0 x 185.0; t: 10.4

Colour (a) Greyish brown; (b) Black grain

surface (decorated); brown flesh

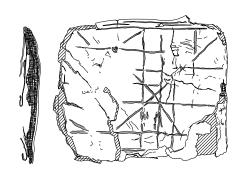
surface

Remarks See text figure 23

Description

(a) Fragments of leather with papyrus. No features.

(b) The leather is decorated with single impressed lines, running horizontally, vertically and diagonally. The edges are folded over the papyrus; in doing so, one fold overlaps the other at right angles to it. The width of these folds varies from 52.8 to 54.0 mm. Within the fold of this layer, the edges are reinforced with a strip of leather that is folded over the edge of the papyrus and



DB 325b. Drawing, see text figure 23 and photograph on the next page.

thus sandwiched between it and the outer sheet of leather. On one corner is a leather thong, which penetrates all layers and emerges on the obverse side.



DB 325a. Obverse and reverse.

Cat. No.

Find No. DB 3422

Measurements

39.4 x 58.2; t: 2.4

Colour

Black obverse, brown reverse

Remarks

Scraps of papyrus still attached to

the reverse

Description

Small fragment of heavily decorated book cover. The motif consists of a smaller square of three parallel impressed lines, surrounded by a bigger square of three parallel impressed lines. The centre of the inner square has an impressed motif too, but it is too badly preserved to be sure what kind of motif. The area between the two squares is filled with circular impressions, which are better described as 'incised' (see part I). To the right of the described squares the decoration continues, probably with the same motifs.



DB 325b. Obverse and reverse.



DB 3422. Obverse and reverse.

| Cat. | No. |
|------|-----------|
| 17 | 71 |

Find No.
Measurements

DB 2676a-d

(a) 92.9 - 250 x 70.7 - 144.0; t leath-

er: 1.5; slits: 1.9 x 10.7 / 4.4 x 14.6 /

4.8 x 17.0 and 12.7 x 13.2;

(b) 81.7 x 96.8; slit: 3.6 x 13.4;

(c) 11.0 x 23.5 x 72.0; t edge: 5.4;

t leather: 1.4;

(d) Varies from 7.6 x 21.7 to 20.5 x 46.2. Piece of slit-and-pull string:

l: 36.3; d: 3.2 x 3.5

Colour Remarks Brown to greyish brown

Papyrus adheres to the fragments.

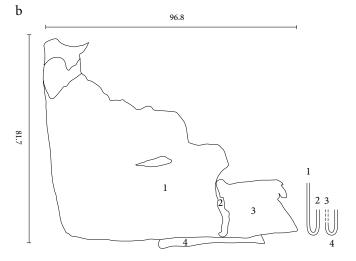
See text figure 17

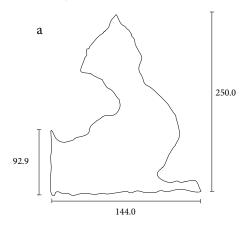
Description

(a) Large piece of decorated book cover leather, including a corner around which the leather is simply folded over. On the reverse there are short pieces of leather strips sticking out of the folded edge, but their function could not be determined. The bottom and side of the obverse are decorated with sets of parallel impressed lines (bottom: six, five, two and four; side: four, one, four). Within these lines are squares that

are made with four parallel impressed lines. The area between the two squares is decorated with circular impressed motifs. Possibly the centre of the smallest squares contain impressed decoration too, but it could not be established what motif. Might belong to DB 322 (Cat. No. 174). Note the four big slits.

- (b) Corner piece, showing sets of parallel impressed lines, the combination of which (four, one, four) equals the combination as described for the side of (a). The fragment has a comparable slit to those seen in (a). It seems, therefore, likely that (a) and (b) belonged to the same cover originally. Here too, the leather is simply folded over the edge. One element at the 'top' edge is folded, but it is not clear if the two layers were connected originally (dashed line in sketch);
- (c) Triangular fragment, the edge of which is folded ed over.
- (d) Eight scraps of leather, two papyrus scraps, a grass zS₂ string and a fragment of leather slitand-pull string.



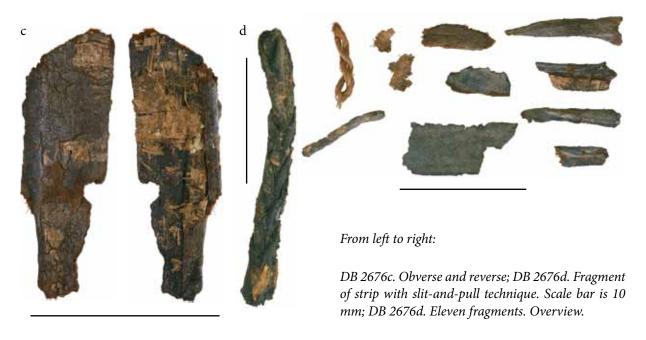


Sketch of DB 2676a & b showing measurements and edge construction.





DB 2676b. Obverse and reverse.



Find No. Measurements Colour DB 1715

87.8 x 82.6 x 106.3; t: 0.9

Greyish black obverse; brown reverse. Papyrus adheres to the reverse

verse

Remarks

Apparently part of DB 322 (Cat. No. 174), but by time of study, nothing could be noted to support this suggestion. See text figure 22

Description

Triangular fragment with impressed line and circle decoration. The bottom edge (orientation as seen in text figure 22) has a set of six parallel lines, followed at a fair distance by a second set of six lines. Above this are diagonal sets of lines, forming squares. One set consists of a set of four and a set of five lines that are separated by a band with circular motifs. The squares too, contain impressed motifs: one is a set of two circles but in the other partially preserved square, the motif could not be identified. Note that the reverse shows the negative of the impressed lines, but not the negative of the circle decoration.



DB 1715. Obverse and reverse

Find No. DB 1716

Measurements 29.9 - 34.4 x 97.0; t: 2.4 (incl. ad-

hering papyrus)

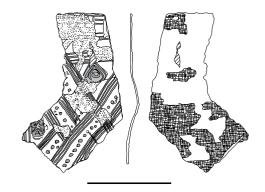
Colour Greyish black obverse; brown re-

verse. Papyrus adheres to reverse

Remarks See text figure 29

Description

Roughly L-shaped fragment of which the topmost layer of the obverse is damaged. Still visible, however, is the edge with remnants of two sets of three impressed, parallel lines that are separated from each other. Below this is a set of four impressed, parallel lines, but this set is not part of the edge decoration but of the body. Several sets of four impressed, parallel lines create squares and rectangles, which are filled with impressed circle decoration. Two of these compartments show other motifs: one at the top has an impressed spiral-like motif in diamond-shape. A compartment to the left has an impressed star in a rectangle, but is incomplete because the fragment broke off. Note that the line decoration sometimes continues over each other (double arrow in text figure 29) and sometimes falls short of the set of lines with the opposite orientation (arrows in text figure 29).



DB 1716. Drawing, see text figure 29.

Find No. DB 322
Measurements 200 x 290

Colour Greyish black obverse; brown re-

verse

Remarks Apparently DB 1715 (Cat. No.

172) belongs to this piece, but by time of study by the author, nothing could be noted to support this suggestion. See text figure 22 Cat. No. **174**



Description

Large, rectangular and multi-layered piece of papyrus with badly fragmented leather covering. The reverse has not been studied as the object proved too fragile; it needs consolidation first. Despite the fragmented state, the impressed decoration can still be seen. It consists of diagonal sets of lines (usually four) but on one corner, the decoration close to the edge consists of a set of possibly eight lines, followed at a fair distance by two sets of three lines and, finally one(?) line. At right angles to these, possibly also following the edge, is a set of six lines; it is uncertain if this set was followed by others, as the leather is incomplete. Within the edge-decoration is a design of diagonal sets of lines (usually four) at right angles to each other. In the thus-obtained square and rectangular compartments are impressed circles but also other, difficult-to-distinguish motifs. Note the remnants of z-spun stitches of flax(?) as well as the slits (cf. DB 2676a, Cat. No. 171).

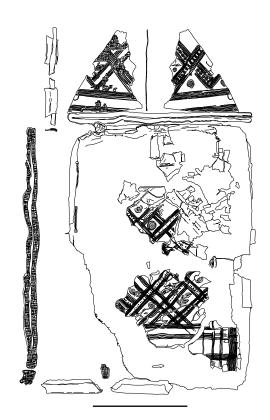
Cat. No. **175**

Find No. DB 2196

Measurements 60.0 - 120.0 x 145.0 - 198.0; t: 1.1

Colour Greyish to whitish black

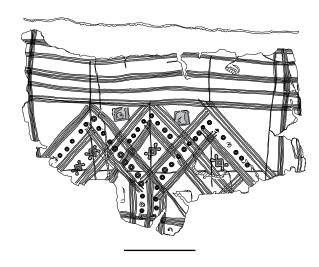
Remarks See text figure 35



DB 322. Drawing, see text figure 22. The triangle at the top (seen here in obverse and reverse) is 1715 (Cat. No. 172).



DB 322. Top: main part. Bottom: fragile part that mainly consists of papyrus. Obverse views.



DB 2196. Drawing, see text figure 35.

Description

Large, irregularly-shaped piece. The obverse is elaborately decorated with impressed motifs. The top edge has, parallel to it, five sets of lines, consisting of alternating sets of three and two lines. The edges on the sides have comparable decoration but both sides are broken off and it is, as with the top edge, uncertain how many sets of impressed lines there would have been originally. Inside these edge-decorations are sets of three parallel, diagonal running lines at right angles. The thus-created squares and rectangles are filled with impressed rosettes, two joining crosses with a circle in between, and an unidentifiable motif with square edges. Note that usually the diagonal lines run up to the edge-decoration, but in one case runs over it (arrow). In the lower, centre part, a change in orientation of the decoration occurs: here, three sets of three lines run vertical, with one set of three horizontal lines still visible.

Cat. No. **176**

Find No.
Measurements

DB 3801

(a) 46.2 x 51.4;

(b) 20.1 - 34.7 x 7.8 - 38.4;

(c) 31.2 x 36.9;

(d) 22.0 x 24.8;

(a) 22.0 A 2 1.0

(e) 23.5. x 37.0;

(f) 24.6 x 45.6;

(g) 16.5 x 21.1;

(h) 16.3 x16.4; (i) 41.1 x 46.3;

(j) 24.9 x 27.3;

(k) 20.4 x 34.5;

(l) 23.1 x 35.9;

(m) 12.9 x 19.4 x 7.8;

(n) 17.5 x 22.9 x 6.1;

(o) 14.5 x 16.2;

(p) 12.2 x 16.1

Colour

Brown

Description

Small fragments with incised decoration at the obverse.

- (a) Roughly triangular fragment. The decoration on the obverse consists of straight and curved lines, the exact pattern of which is not clear.
- (b) Irregularly-shaped fragment with, as (a), straight and curved line decoration, the pattern of which is indeterminable.
- (c) Irregularly-shaped, decorated as (a) & (b).
- (d) Nearly square fragment with an accidental hole in the centre. Decoration with straight lines at right angles.
- (e) Irregularly-shaped fragment with, at one corner, incised straight lines at right angles.
- (f) Irregularly-shaped with decoration as (a)-(c).
- (g) Small, roughly triangular fragment. The obverse has grooves but it is uncertain that these are incised decoration as seen in the previous fragments.
- (h) Roughly triangular fragment with horizontal, straight lines.
- (i) Roughly triangular fragment with straight, horizontal and vertical lines, forming, partially, a checkerboard pattern
- (j) Nearly square fragment, decorated as (i).
- (k) Irregularly-shaped, crumpled fragment without decoration.
- (l) Irregularly-shaped fragment with decoration as (a)-(c) and (f).
- (m) Small, undecorated fragment, consisting of two layers that are secured with a leather thong running stitch (short-long spaced).
- (n) Nearly square fragment with remnants of leather thong running stitches. There is nothing left of the second layer.
- (o) Triangular fragment with horizontal, straight lines.
- (p) Irregularly-shaped fragment with a leather thong running stitch. The reverse shows a small scrap of the second layer.



DB 2196. Obverse. The limited time available in the magazine prohibited detailed photography.



DB 3801a. Obverse and reverse.



DB 3801b. Reverse and obverse. Scale bar is 30 mm.



DB 3801c. Obverse and reverse. Scale bar is 30 mm.



DB 3801d. Obverse and reverse. Scale bar is 10 mm.



DB 3801e. Reverse and obverse. Scale bar is 30 mm.



DB 3801f. Reverse and obverse. Scale bar is 30 mm.



DB 3801g. Reverse and obverse. It is unclear if the grooves at the obverse are decoration. Scale bar is 10 mm.



DB 3801h. Reverse and obverse. Scale bar is 10 mm.



DB 3801i. Obverse and reverse.



DB 3801j. Obverse and reverse. Scale bar is 30 mm.



DB 3801k. Obverse and reverse. Scale bar is 30 mm.



DB 3801l. Obverse and reverse. Scale bar is 30 mm.



DB 3801m. Obverse and reverse. Scale bar is 10 mm.



DB 3801n. Obverse and reverse. Scale bar is 10 mm.



DB 38010. Obverse and reverse. Scale bar is 10 mm.



DB 3801p. Obverse and reverse. Scale bar is 10 mm.

Table of featureless scraps of book covers

| Find No. | Measurements | Remarks |
|--------------|--|---|
| DB 2713 | 6.5 x 13.6; t: 4.2 | Remnants of papyrus |
| DB 2729 | 35.4 x 45.2; t:1.7 | Remnants of papyrus |
| DB 2762 | 4.9 - 12.6 x 47.9; t: 3.0 | Remnants of papyrus |
| DB 2711 | 19.9 x 27.6; t: 1.8 | Remnants of papyrus |
| DB 2752 | 16.1 x 79.2; t: 1.0 | Remnants of papyrus |
| DB 1122 | 26.5 x 35.3; t: 1.6 | Remnants of papyrus |
| DB 1687 | 16.9 x 20.5; t: 1.7 | Remnants of papyrus |
| DB 1253 (2x) | 34.8 x 36.2; t: 1.7 | Remnants of papyrus. Brown |
| | 39.1 x 25.1; t: 1.1 | |
| DB 1274 | 22.8 x 45.7; t: 6.6 (folded edge) | Remnants of papyrus |
| | 54.6 - 56.2 x 100.2; t: 2.1 | |
| DB 1309 | 19.9 x 23.7; t: 1.4 & 37.4 x 49.2; t: 2.5 | Remnants of papyrus |
| DB 891 | 29.8 x 31.4; t: 1.2 | Remnants of papyrus |
| DB 2479 | 51.8-31.4 x 33.5 x 70.3; t folded: 4.1 | - |
| | 21.1 x 36.2; t folded: 3.7 | |
| DB 1137a | 27.5 x 27.8; t: 2.9 | Remnants of papyrus. Part of group DB |
| | | 1137a, b (see also Cat. No. 248). |
| DB 960 | 32.3 x 64.6; t: 0.8 | Brown line decoration(?) |
| DB 953 | 11.1 - 16.3 x 55.2; t: 1.2 | Remnants of papyrus |
| DB 1825 | 56.2 x 87.5 x 17.2; t: 1.0 | Remnants of papyrus |
| DB 2204 | 29.5 x 68.2; t: 3.2 | Seems charred |
| DB 3138 | 17.6 - 30.0 x 46.2; t: 1.5 | Much worn |
| DB 2985 | 27.9 - 32.1 x 142.0; t: 1.6 | Overlapping thicknesses: probably |
| | | glued. Remnants of papyrus |
| DB 3181 | 51.5 x 131.8; t: 1.2 | Small slit close to one of the long edges |
| DB 3318 | 52.2 x 65.5; t: 2.5 | One intact edge. Remnants of papyrus |
| DB 1231 (2x) | 20.2 x 29.1; t: 2.0 (including papyrus scra | ps) |
| | 30.8 x 60.2; t: 1.0 | Remnants of papyrus |
| DB 781 (2x) | 18.2 - 33.9 x 71.4; t (including papyrus): 3 | |
| | t leather: 1.4 | Remnants of papyrus |
| DB 1210 | 25.5 x 27.2; t: 1.4 | Remnants of papyrus |
| DB 946 | 14.7 - 21.1 x 38.8; t total: 3.5 | Remnants of papyrus |
| DB 3770a | 21.5 - 36.7 x 82.0; t: 1.2 | Part of group DB 3770a, b (see also Cat. No. 362) |
| DB 3766 | 54.0 - 57.2 x 52.6 - 1.9; t: 1.0 | - |
| DB 3798 (2x) | 23.2 x 37.3; t: 1.6 & 26.9 x 33.2; t: 1.4 | - |
| DB 995 (12x) | Varies: 15.8 x 33.5 to 52.8 x 61.5; t: 1.2 | Remnants of papyrus adhere to most. Some show impressed decoration. |
| DB 3748 | 26.2 x 77.2; t: 1.0 | Remnants of papyrus |
| DB 3733b | 113.9 - 32.3 x 135.7; t total: 1.2 | Part of group DB 3733a-h (see also below and Cat. No. 194, 237, 400) |
| DB 3733c | 16.7 - 25.5 x 65.4; t total: 2.7 | Remnants of papyrus. Part of group DB 3733a-h (see also above and Cat. No. 194, 237, 400) |

FASTENINGS (CAT. NOS. 177-178)

Cat. No. 177

Find No. DB 2100b Group DB 2100a-c **Object** Toggle(?)

Measurements w maximal: 20.0; l: 27.6; w strip:

2.8

Colour Brown

See also Cat. No. 128, 245. Cf. DB Remarks

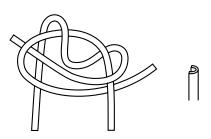
3790c (Cat. No. 231) and DB 3777

(Cat. No. 232)

Description

Lengthwise-folded strip, turned into a wide construction. Items with a comparable shape, albeit constructed differently, are known as toggles for fastening shoes (and clothes?). The difference of this number with the other comparable finds from Deir el-Bachit (see remarks) is that this construction really seems to be locked, whereas the others might not be locked, hence the difference in classification.





DB 2100b. Obverse and reverse. Scale bar is 30 mm.

Cat. No.

178

Find No. DB 3712a DB 3712a-d Group **Object** Toggle

Measurements w strip: 4.6; t strip: 1.5; l: 170.0.

Toggle: 7.9 x 10.2

Colour Brown

Remarks See also Cat. No. 222

Description

Narrow, thin strip, ending in a toggle.



DB 3712a. Narrow strip with toggle.

BELTS, STRAPS, CORDAGE AND RELATED (CAT. NOS. 179-240)

Cat. No. **179**

Find No. DB 2712 Object Knot

Measurements w strip: 7.1; l: 55; t: 2.2

Colour Greyish brown

Description

Reef knot (text figure 7C) made of two narrow

strips of leather.

Cat. No. **180**

Find No. DB 3033b Group DB 3033a, b

Object Strip

Measurements w: 4.9; l: 85 (coiled); t: 1.6

Colour Dark brown

Remarks See also Cat. No. 262

Description

Strip of leather that ends in a loop. The loop is made by pulling the end of the strip through a slit in the

opposite end.

Cat. No. **181**

Find No. DB 3013b

Group DB 3013a-c

Object Belt(?)

Measurements 32.3 x 33.3; t: 2.7

Colour Greyish to dark brown

Remarks See also Cat. No. 266. See text fig-

ure 21

Description

Nearly square fragment of thick leather. One surface shows cut out (more gouched) decoration in 11 lines lengthwise and, on each edge, the same motif at right angles.

Cat. No. **182**

Find No. DB 2071
Object Belt

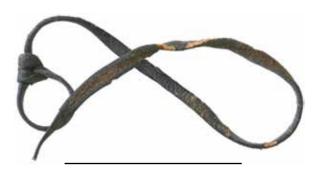
Measurements w: 34.0; l: 37.5; t: 3.0 Colour Greyish brown

Description

Roughly square, thick fragment with impressed (or incised?) decoration on one surface (grain side). The decoration consists of a band of zigzag motifs



DB 2712. Overview.



DB 3033b. Overview.



DB 3013b. Obverse and reverse.



DB 2071. Reverse and obverse.

that are placed lengthwise with immediately under it a horizontal band of 'x' motifs. These are poorly preserved, but two complete ones can clearly be distinguished. Under this band, at right angles (*i.e.* lengthwise under each other) are two rows of 'x' motifs. These are situated slightly inwards from the edges with a slightly larger space separating them.

Cat. No. 183

Find No. DB 1629c

Group DB 1629a-d

Object Belt(?)

Measurements w: 6.4; l: 69.9; t: 1.4; t attachment:

2.8

Colour Greyish brown

Remarks See also Cat. No. 76, 273

Description

Two pieces that are secured with leather thong running stitches along the perimeter of the overlap. The two fragments face each other with the opposite surfaces: one shows the grain side whereas the other shows the flesh side. The smallest part tapers. Both have finished long edges, suggesting it is part of a belt or comparable object.

Cat. No. **184**

Find No. DB 895b Group DB 895a, b

Object Belt

Measurements w: 47.1; l: 34.4; t: 2.8 Colour Greyish brown

Remarks See also Cat. No. 201. Cf. DB 1200

(Cat. No. 185)

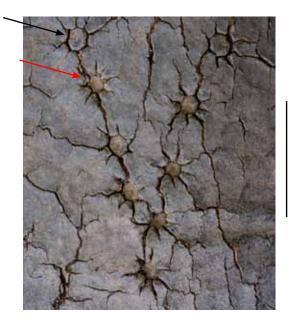
Description

Rectangular fragment of fairly thick, sturdy leather. The width of the fragment is intact; the short ends are torn off. One surface shows an array of two times six impressed and cut out circles, which are aligned in a V-shape (diameters between 1 and 2 mm). The decoration can be divided in two 'types': one of which the inner part is either cut out (red arrow) and those which still have a 'core' (black arrow). These cores are different from those seen in other decorated fragments: here they are closed, whereas in others the cores are open as well (in other words, the motif is better described as a 'ring', see for example DB 1715, Cat. No. 172). Radiating from the motifs are short rays, but these seems due to crackling of the leather rather than manmade. However, most of the circles have eight of these rays and



DB 1629c. Reverse and obverse.





DB 895b. Top: reverse and obverse. Bottom: detail of decoration. Scale bar bottom is 10 mm.

although the patterns of them are not entirely the same, the rays are perhaps too regular to be accidental. After pushing the hollow tool in the leather with great force (the edges of the motifs still show being pressed due to it), the inner part must have been removed separately or perhaps by a sideway, scraping movement of the tool.

Cat. No. **185**

Find No. DB 1200 Object Belt

Measurements w: 33.3; l: 187.0; t: 2.6

Colour Black obverse, grey brown reverse

surface

Remarks Cf. DB 895b (Cat. No. 184)

Description

The belt was broken and repaired with coarse leather thong stitches. This repaired end also has 12 impressed motifs in a V-shape, which equals the ones described for DB 895b (Cat. No. 184). Here, however, two additional motifs are visible (arrows), which form the basis of a triangle with the V-shaped rows. Possibly, more of the motifs closed the base, but they are not visible due to the fact that the repair stitches have been sewn over them. Possibly, also DB 895b (Cat. No. 184) had the motifs arranged in a triangle, rather than in a 'V' but broke off at the point where the base of the triangle would have been. Possibly, the two belong to the same object.



DB 1200. Obverse and reverse.

▶ DB 1200. Detail obverse. Scale bar is 10 mm.

Cat. No. **186**

Find No. DB 1232a Group DB 1232a-c Object Belt

Measurements w: 29.6; l: 145.0; t: 3.7

Colour Black obverse, dark grey brown

reverse surface

Remarks See also Cat. No. 304

Description

Piece of belt, which is broken at both short ends but of intact width. It contains three small holes. The intact edges have a rounded profile.



 Cat. No.
 Find No.
 DB 3100

 187
 Object
 Belt(?)

Measurements w: 26.0; l: 107.8; t: 1.4

Colour Reddish brown. The colour re-

minds one of rawhide

Description

Fragment of belt(?), broken on both short ends but of intact width. The belt is repaired with coarse leather thong stitches lengthwise down the middle as well as along the perimeter of one edge.

 Cat. No.
 Find No.
 DB 1218a

 188
 Group
 DB 1218a, b

 Object
 Belt(?)

Measurementsw: 17.8; l: 127.0; t: 1.8ColourDark brown to blackRemarksSee also Cat. No. 311

Description

Fragment of narrow belt(?), broken on one short end but of intact width. No features.

Cat. No. Find No. DB 2554

189 Object Belt

Measurements w: 38.7; l: 85.6; t: 4.9 Colour Greyish black

Description

Rectangular piece of belt, which is broken on both short ends but of intact width. As for example DB 895b (Cat. No. 184), the fragment has impressed circles in V-shape. There are six visible. Note the rounded edges.

 Cat. No.
 Find No.
 DB 2389

 190
 Object
 Belt(?)

Measurements w: 31.0; l (including protruding

stitches): 102.7; t: 3.8

Colour Greyish brown to black
Remarks See text figure 20

Description

Rectangular piece, broken on one short end but of intact width (although some parts of the edge are damaged). The intact end has two leather thongs, close to the long edges, which both make one and a half stitches. The ends of the thongs protrude from the edge. In between these stitches are two empty stitch holes but one shows the impression of the stitch, which is now lost (arrow); an additional stitch hole is situated between the long edge and



DB 1232a. Obverse.



DB 3100. Reverse and obverse.



DB 1218a. Obverse.



DB 2554. Reverse and obverse.

the leather thong stitch. The leather thong stitches are bordered by line impressions; below the stitches are two transverse lines, impressed. Again below, there are three horizontal rows of four impressed (stamped) motifs, consisting of a square in low relief, in which a '+' with a dot in each square, all of which is in high relief (one of these measures 4.7 x 3.8 mm). These three rows, the two top ones slightly diagonally but the lower one almost transverse relative to the length of the belt(?), are followed by two impressed transverse lines. The last decoration of this fragment consists of a deeply impressed line lengthwise from which starts, diagonally, impressed lines that ends in a dot (length of the intact one is about 12 mm, but there is quite some variation).

Cat. No. **191**

Find No. DB 2393
Object Belt

Measurements w: 30.2; l: 117.5; t: 3.0

Colour Brown obverse, black reverse

Description

Rectangular fragment that is broken on both short ends but of intact width. The reverse is distinctly black and shows three diagonal cuts, which do not penetrate through the entire thickness. The obverse is elaborately decorated with impressed (stamped) motifs. The decoration starts with three transverse rows of four deeply impressed rosettes (measuring about 3.4 x 4.6 mm): the centre is in high relief and the petals in low relief. Two transverse lines, 10 mm under each other, separate this decoration from the next one, which consists of three rows of three motifs consisting of a diamond in high relief, in the centre of which is a circle in high relief as well. From the top and bottom point of the diamond extends three lines in high relief: one outer line is directed slightly diagonally to the left, the other outer line to the right and the middle one is orientated lengthwise upwards and, at the other end of the motif, downwards. The motifs measure 5.2 x 15.7 mm. This panel of decoration is bordered by two lines (about 7 mm below each other) and followed by the next decoration panel. Although this panel is largely lost, a transverse row of diamonds is still visible, in the centre of which is a circle in high relief. At the top and bottom point of the diamond are two dots, one on both sides, in high relief. This decoration measures 4.3 x 8.3 mm.



DB 2389. Obverse and reverse.





DB 2389. Details of obverse (see also text figure 20). Scale bar is 10 mm.



DB 2393. Obverse and reverse.

► DB 2393. Details of obverse (see also text figure 19). Scale bar is 10 mm.



Find No. DB 1717 Object Strap

Measurements w belt: 28.9 - 36.3; w loop: 10.2; l:

295.0; t: 5.1; w tied strip: 3.9 - 8.1

Colour Greyish brown

Description

One relatively thick strip of leather is folded on one side and secured to form a loop. The leather that forms the loop is distinctly narrower than the belt proper. The looped end is short and stitched to the longer, reverse side of the belt with at random leather thong stitches. Note that the loop itself is secured by means of a transverse strip of leather, the attachment of which could not be ascertained. Through the loops runs a narrow leather strip, which is knotted into two half knots (text figure 7A). Below this smaller part of the original(?) part of the belt, is

attached a thinner, but lengthwise-folded strip of leather that is secured at the point where it follows up the original(?) layer; slightly further away from the loop is a set of four empty stitch holes, but these do not penetrate the thicker layer. At the end that is opposite to the loop, a big repair patch is stitched onto the thick, original(?) layer with several leather thong stitches. This leather is substantially thinner than the other parts.



193

Find No. DB 3726b Group DB 3726a-c

Object Strap

Measurements w: 9.4; l: 9.8; t: 4.8

Colour Brown

Remarks See also Cat. No. 340

Description

Narrow strap with a slit lengthwise at one end. Both short ends are torn off but the width is intact. Note the leather thong stitches approximately halfway down its length.

Cat. No.

194

Find No. DB 3733e
Group DB 3733a-h

Object Strap

Measurements w: 14.8; l: 43.8; t: 1.5

Colour Black grain surface; brown flesh

surface

Remarks See also Cat. No. 237, 400 and the

book cover table on pp. 160



DB 3726b. Side view, reverse and obverse.

Description

Rectangular fragment of which one end has a flat triangular shape; the opposite short end is torn off. The width is intact. There are several holes close to the triangular end.

Cat. No. **195**

Find No. DB 3754
Object Belt(?)

Measurements 24.5 x 30.0; t: 3.5

Colour Brown

Description

Nearly rectangular fragment with one intact edge. One surface is decorated with five circles. The edges of these circles are cut rather sharply, suggesting the decoration is cut, rather than impressed. One circle seems to have a stitch, but this is not certain due to the condition of the fragment.

Cat. No. **196**

Find No. DB 3743
Object Belt

Measurements 15.9 - 21.2 x 106.3; t: 3.5

Colour Brown

Description

Rectangular fragment of intact width. Lengthwise down the centre are three holes; one of the short edges broke off halfway through the fourth hole. Note the nicely cut long edges.

Cat. No. **197**

Find No. DB 1103a
Group DB 1103a, b
Object Strips

Measurements l: 40.0; d: 3.8 - 7.4

Colour Dark brown to black

Remarks See also Cat. No. 82

Description

Two strips that are coiled lengthwise, both of which have a hole at one end. To this hole, a slightly thinner and darker narrow strip is knotted, resembling a mesh knot (*cf.* text figure 7D). Function unknown, but might be part of a sandal's strap complex.

Cat. No. **198**

Find No. DB 1582
Object Strip

Measurements w: 6.3; l: 155.0; t: 1.2

Colour Brown



DB 3733e. Obverse and reverse.



DB 3754. Obverse and reverse. Scale bar is 30 mm.



DB 3743. Obverse and reverse.



DB 1103a. Overview. Scale bar is 30 mm.

Description

The end is folded with a hole through both layers (arrow) for the reception of the other end of the strip. Function unknown.



DB 1582. Obverse and reverse.

Cat. No. 199

Find No. Group DB 853a-c Object Braided strip

Measurements w: 10.2; l: 27.7; t: 5.2

Colour Dark brown Remarks See also Cat. No. 14

Description

Three strand braid in 'over one, under one' pattern.

Cat. No. 200

Find No. DB 1719d DB 1719a-d Group

Object Strip

Measurements w: 18.3-22.7; l: 230.0; t: 2.3; l slit:

21.0

Colour Brown

Remarks See also Cat. No. 96, 277

Description

Long, narrow piece, terminating in a pointed end, which contains a slit that is orientated lengthwise.

Cat. No.

Find No. DB 895a DB 895a, b 201 Group Object Strip

> Measurements 21.8 x 37.7 x 52.4; t: 2.2

Colour Brown

Remarks See also Cat. No. 184

Description

Strip of leather with a slit lengthwise in one end, through which the strip itself is pulled, thus forming a hitch (text figure 7F). Might be part of a sandal's strap complex.

Cat. No. 202

Find No. DB 1303 Object String

Measurements d: 4.0 / 10.7; l: 83.2

Colour Brown vegetable fibre. Black leather

Description

Palm leaf string, cabled in [S₃]. Possibly, the string is a $sZ_2[S_3]$ string. The plies are wrapped with a leather strip, before they were cabled. Cf. DB 3008b (Cat. No. 219).





DB 895a. Obverse and reverse.

Cat. No. Find No. DB 987
203 Object Strips

Measurements 16.2 x 12.5 x 43.2 Colour Grey black

Description

Two small strips hitched together (text figure 7F)

 Cat. No.
 Find No.
 DB 1621

 204
 Object
 Strips

Measurements w: 12.3; total: 64.4 x 73.7

Colour Black grain side; brown flesh side

Description

Strip of leather, which is split at one end and knotted into two half knots on top of each other (text figure 7A). This is a repair.

 Cat. No.
 Find No.
 DB 1855b-d

 205
 Group
 DB 1855a-d

 Object
 strips

Measurements (b) w strip: 5.8 - 7.4; total: 20.3 x

17.5 x 39.0; (c) w: 4.5; l: 98.3; (d) w: 3.6; l: 140.0

Colour Brown

Remarks See also Cat. No. 22

Description

- (b) Lengthwise-coiled strip of leather. Possibly, it was coiled to store it for future use.
- (c) Strip, lengthwise-folded and terminating in an S-overhand knot (text figure 7B).
- (d) Fragment, folded lengthwise but terminating in a braided end ('over one, under one'). In order to braid it, the end is cut twice, resulting in three strips.



DB 1855d. Detail. Scale bar is 10 mm.



DB 987. Obverse and reverse.



DB 1621. Overview.



DB 1855a. Obverse and side view.



DB 1855c & d. Overview.

206

Find No. DB 801i, j DB 801a-j

Object

Strips and strings

Measurements

Group

(i) Varies from d: 3.0 - 4.1; l: 21.4

to d: 3.0 - 4.1; l: 80.0;

(j) 12.6 x 14.9 x 24.8

Colour Remarks (i) Brown; (j) Grey

See also Cat. No. 110, 135, 288

Description

- (i) Four fragments (not sub-numbered as they clearly belong together). The longest two fragments are S-twisted; the smallest is coiled lengthwise. The remaining fragment consists of two leather strips, knotted into a reef knot (text figure 7C) and secured with a 'figure-ofeight-knot' (Veldmeijer, 2006: 351).
- (j) Lengthwise-folded strip, knotted into an S- and Z- overhand knot (text figure 7B).

Cat. No. 207

Find No. DB 1586 Object Strip

Measurements w strip: 4.7; t strip: 3.1; l object:

59.2; knot: 12.5 x 13.1

Colour Brown

Description

Narrow, rather thick strip to which is tied a thinner strip into a mesh knot (text figure 7D). This knot is secured with a hitch (text figure 7F).

Cat. No. 208

Find No. DB 1691c Group DB 1691a-c Object Strip

Measurements 12.5 x 23.2; w strip: 4.3

Colour Brown

Remarks See also Cat. No. 27, 290

Description

Lengthwise-folded strip that is split at one end, showing the beginning of an obstruction. Might be part of a sandal's strap complex.

Cat. No. 209

Find No. DB 3187 Object Strip

Measurements d: 4.0 - 4.9; l: 120.0 Colour Greyish brown, black

Description

Nearly square in diameter.





▲ DB 801i. Obverse and side

■ DB 801j. Overview.



DB 1586. Overview.



DB 1691c. Obverse and reverse.



DB 3187. Overview.

Cat. No. Find No. DB 3183 **Object** 210 Strip

> Measurements w strip: 8.5; object: 49.0 x 61.9 x

Colour Reddish to greyish brown

Description

Containing a reef knot (text figure 7C).

Cat. No. Find No. DB 2550 **Object** 211 Strip

Measurements w: 5.2; l: 54.4; t: 2.8

Colour Brown

Description

The end shows a slit lengthwise. Likely it was used to attach another strip, securing it with a knot. Part

of sandal's strap complex?

Cat. No. Find No. DB 2661 Object 212 Strip

> Measurements w: 4.7; total: 46.0 x 46.5

Colour Brown

Description

Narrow leather strip with several holes. Possibly, the length was once coiled into a shoe or sandal decoration (cf. for example DB 2153, Cat. No. 70).

Note that this strip is not folded lengthwise.

Cat. No. Find No. DB 3182 Object 213 Strip

> Measurements w strip: 5.5; t: 1.8; total: 19.2 x

> > 20.9 x 27.8

Colour Brown

Description

Featureless, narrow leather strip.

Cat. No. Find No. DB 1248 214 **Object** Strip

> w: 5.8 - 11.4; t: 1.6; total: 15.8 x Measurements

> > 22.0 x 27.7

Colour Greyish brown

Description

Featureless, narrow leather strip.

Cat. No. Find No. DB 2911 215 Object Strip

> Measurements w: 5.2 - 7.3; l: 125.0; t: 1.2

Colour Brown



DB 3183. Overview.



DB 2550. Overview.



DB 2661. Overview.



DB 3182. Overview.



DB 1248. Overview.

Description

Narrow strip, the end of which is knotted into a Zoverhand knot (text figure 7B).

| Cat. No. | Find No. | DB 1647e, f |
|----------|----------|-------------|
| 216 | Group | DB 1647a-f |
| | Object | Strips |

(e) w strip: 11.0 - 11.6; t strip: 0.8; Measurements

total: 54.6 x 85.2;

(f) w strip: 3.7 x 6.7; l: 37.8; t: 1.1

Colour (e) Redbrown, brown; (f) Greyish

brown

Remarks See also Cat. No. 48, 321

Description

Cat. No.

217

Cat. No.

218

(e) Strip, containing a reef knot together with another piece of strip (text figure 7C).

(f) Tapering, narrow strip tied into a reef knot (text figure 7C) together with a second small piece.

| Find No. | DB 1295b | |
|--------------|----------------------------|--|
| Group | DB 1295a, b | |
| Object | Strip | |
| Measurements | 2.0 - 10.3 x 112.0; t: 2.2 | |

Brown Remarks See also Cat. No. 325

Description

Colour

| Piece of feature | less, tapering strip. | E / |
|------------------|--|-----|
| Find No. | DB 1273a | 7 |
| Group | DB 1273a, b | 1 1 |
| Object | Strip | 1 1 |
| Measurements | w strip: 4.0 - 8.1; l total: 40.5; d to- | |
| | tal: 8.8 - 10.3 | |
| Colour | Greyish brown | |

Greyish brown Remarks See also Cat. No. 244

Description

Description

Lengthwise-folded strip that is knotted into a Zand S-overhand knot (text figure 7B).

| Cat. No. | Find No. | DB 3008b |
|----------|--------------|------------------------------------|
| 219 | Group | DB 3008a-e |
| | Object | String |
| | Measurements | d: 6.3; l: 220.0 |
| | Colour | Brown fibre, greyish brown leather |
| | Remarks | See also Cat. No. 335 |

Palm fibre zS₂ string clad S-wise with a leather strip. Cf. DB 1303 (Cat. No. 202).



DB 2911. Overview.



DB 1647e. Overview.



DB 1647f. Obverse and reverse.



DB 1295b. Overview.



DB 1273a. Obverse and reverse.



DB 3008b. Overview.

Cat. No. **220**

Find No. DB 3727b Group DB 3727a, b

Object Strip

Measurements $4.4 \times 6.1 \times 71.3$ ColourGreyish brownRemarksSee also Cat. No. 341

Description

Lengthwise-folded strip, with remnants of a slit in one of the terminal ends.

Cat. No. **221**

Find No. DB 3702a, b
Object Strips

Measurements (a) 4.7 x 6.0 x 67.0;

(b) 5.0 x 6.4 x 48.8

Colour Greyish brown

Description

Two lengthwise-folded, narrow strips, both of which have a slit in one end that is orientated lengthwise. Fragment (a) has a narrow strip tied to the slit; although incomplete, the remnants suggest a mesh knot (text figure 7D). Parts of sandal's strap complex?

Cat. No. **222**

Find No. DB 3712b-d Group DB 3712a-d Object Strips

Measurements (b) w strip: 5.3; t strip: 1.2; l: 145.0;

knot: 3.7 x 8.6 x 9.2; (c) d: 2.8-3.1; l: 90.0;

(d) w strip: 4.5; t strip: 2.8; total:

42.1 x 63.8

Colour Brown

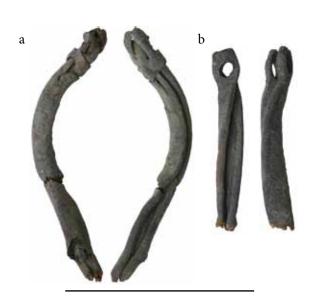
Remarks See also Cat. No. 178

Description

- (b) Narrow, thin strip that is knotted into an Soverhand knot (text figure 7B).
- (c) Narrow, thin strip, with remnants of slit-and-pull technique in one end (text figure 8).
- (d) Strip knotted into a half knot, thus creating a loop (text figure 7A).



DB 3727b. Overview.



DB 3702a & b. Obverse and reverse.

Find No. DB 3718e Group DB 3718a-f

Object Strips

Measurements w strip: 4.4; l: 141.8; t leather: 1.1;

knot: 11.7 x 22.4

Colour Brown

Remarks See also Cat. No. 349

Description

Narrow, thin strip, to which is attached, in the middle, another strip, forming a mesh knot (text figure 7D).

Cat. No. **223**



Find No. DB 3723b DB 3723a, b Group

Object Strip

Measurements 3.2 x 5.4 x 150.0

Colour Brown

Remarks See also Cat. No. 251

Description

Narrow strip with a slit lengthwise in one terminal

end.

Cat. No. 225

Find No. DB 3717b Group DB 3717a, b

Object Strip

Measurements w strip: 9.1; t strip: 3.1; l: 64.2;

knot: 13.7 x 25.6

Colour Dark brown

Remarks See also Cat. No. 351

Description

Strip, turned into a hitch at one end (text figure 7F). The object to which it was hitched is not preserved.

DB 3704e Cat. No. Find No. 226 Group DB 3704a-f

> Object Strip

3.3 x 5.9 x 40.3 Measurements Colour Dark brown

Remarks See also Cat. No. 55, 252, 354.

> There is another entry with this Find No. under 'Offcuts and Waste' because the fragments were

not numbered separately

Description

Lengthwise-folded strip, with a slit that is orientated lengthwise in one terminal end. Part of sandal's strap complex?



DB 3718e. Overview.



DB 3723b. Overview.





DB 3717b. Obverse and reverse.



DB 3704e. Overview.

Find No. DB 3763a Group DB 3763a, b

Object Strip

Measurements w strip: 3.0 - 5.7; t strip: 1.8; l total:

131.8; knots: 9.9 x 12.5

Colour Brown

Remarks See also Cat. No. 365

Description

Two narrow strips that are connected by means of a reef knot and secured with a half knot (text figure 7C and A respectively).

Cat. No. **228**

Find No. DB 3757c

Group DB 3757a-c

Object Strip

Measurements d strip: 2.5 x 3.2; l: 162.0

Colour Brown

Remarks See also Cat. No. 77, 367

Description

Narrow, lengthwise-folded strip, with at one end an S-overhand knot and in the other a Z-overhand knot, followed by a hitch (text figure 7B and F respectively).

Cat. No. **229**

Find No. DB 3756d Group DB 3756a-d

Object Knot

Remarks See also Cat. No. 155, 368

Description

Lengthwise-folded strip, which is knotted into a reef knot (text figure 7C).

Cat. No. **230**

Find No. DB 3793
Object Strip

Measurements 4.4 x 7.6 x 38.3 Colour Greyish brown

Description

The fragment, which is folded lengthwise, has, at one end, a slit-and-pull part (text figure 8). The opposite end has a slit that is orientated lengthwise. Part of sandal's strap complex?



► DB 3757c. Overview.



DB 3756d. Obverse and reverse. Scale bar is 10 mm.



DB 3793. Overview. Scale bar is 30 mm.

Find No. DB 3790c Group DB 3790a-d

Object Strip

Measurements 30.4 x 41.4; t: 6.4

Colour Brown

Remarks See also Cat. No. 57, 373. Cf. DB

2100b (Cat. No. 177) and DB 3777

(Cat. No. 232)

Description

Strip, folded in such a way as to form a small loop.

The strip is folded lengthwise.

Cat. No. 232

Find No. DB 3777 **Object** Strip

4.9 x 20.3 x 58.1 Measurements

Colour Brown

Description

Lengthwise-folded strip, folded to form a loop originally (but now lost). Cf. DB 3790c (Cat. No. 231)

and DB 2100b (Cat. No. 177).

Cat. No. 233

Find No. DB 3775 Object Strips

w strip: 2.4 - 5.6; t strip: 1.6; total: Measurements

36.3 x 55.5 x 13.0

Colour Brown

Description

Two narrow strips are tied into a reef knot (text

figure 7C).

Cat. No.

Find No. DB 3783b 234 Group DB 3783a-c Object Strips

> Measurements w strip: 3.1; t strip: 1.8; total: 20.7 x

> > 23.2 x 4.7

Colour Brown

Remarks See also Cat. No. 160, 379

Description

Two narrow strips are tied into a reef knot (text

figure 7C).



DB 3790c. Obverse and reverse. Scale bar is 30 mm.



DB 3777. Obverse and reverse.



DB 3775. Overview.



DB 3783b. Overview. Scale bar is 10 mm.

Find No. DB 3736c Group DB 3736a-c

Object Strip

Measurements 6.3 x 6.6 x 45.5

Colour Brown

See also Cat. No. 166, 398 Remarks

Description

Lengthwise-folded strip, in one end of which is a

large hole.



DB 3736c. Obverse and reverse. Scale bar is 30 mm.

Cat. No. 236

Find No. DB 3734a, b

Object Strips

Measurements (a) 3.6 x 1.6 x 145.0;

(b) 17.0 x 43.4 x 8.6

Colour Brown

Description

(a) Lengthwise-folded strip.

(b) Two lengthwise-folded strips, tied into a 'true-

lovers-knot' (text figure 7E).

Cat. No. 237

Find No. DB 3733f, g Group DB 3733a-h

Object Strips

Measurements (f) 7.8 x 8.3 x 67.2;

(g) 22.5 x 41.4 x 1.4

Colour (f) Greyish grown; (g) Brown

Remarks See also Cat. No. 194, 400 and table book cover fragments on pp.

160.

Description

(f) Lengthwise-folded strips of leather that are tied together with an undeterminable knot.

(g) Strip of leather that is folded to form a loop.

Cat. No. 238

Find No. DB 3742b Group DB 3742a, b Object Strip

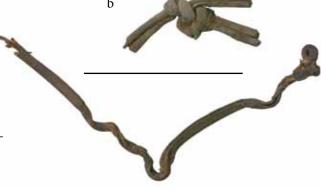
Measurements 3.7 x 12.5 x 63.4

Colour Brown

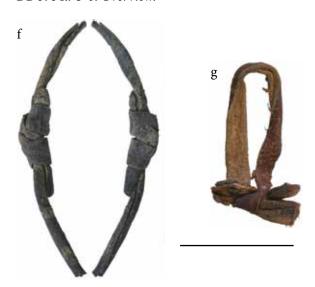
See also Cat. No. 405 Remarks

Description

Lengthwise-folded strip (note that the strip in the knot is not folded) that is tied into a reef knot (text figure 7C), but with one extra winding (arrow).



DB 3734a & b. Overview.



DB 3733f. Obverse and reverse; DB 3733g: overview. Scale bar is 30 mm.



DB 3742b. Overview.

239

Find No. DB 3746c Group DB 3746a-c

Object Strips

Measurements 14.9 x 22.8 x 9.3

Colour Brown

Remarks See also Cat. No. 64

Description

Incomplete fragment that consists of two strips, which are folded around each other. The layout suggests they are remnants of a mesh knot (*cf.* text figure 7D).

Cat. No. **240**

Find No. DB 2338Ab-d
Group DB 2338Aa-e
Object String and strips

Measurements (b) d: 7.4; w leather strip: 11.5;

l: 170;

(c) 63.3 x 82.4; w strip: 7.1;

(d) w strip: 7.4; t strip: 3.2; d loop:

27.6 x 47.1

Colour (b) Fibre is reddish brown, but

leather strip is dark brown; (c), (d)

Brown

Remarks See also Cat. No. 68

Description

(b) Palm fibre zS_2 string around which a strip of leather is wound S-wise.

(c) Leather strip that is knotted, accidentally(?), into an unrecognisable knot.

(d) Both ends of a strip of leather (of which the sides are folded inwards lengthwise, arrow), has a slit, through which a second, narrower strip of leather is pulled. This second strip has an overhand stopper knot (text figure 7B) in one end to prevent it from slipping through the slits.



DB 3746c. Obverse and reverse. Scale bar is 10 mm.



DB 2338Ab-d. b & c) Overview; d) Obverse and reverse.

BAGS AND RELATED OBJECTS (CAT. NOS. 241-244)

Cat. No. **241**

Find No. DB 2756

Measurements w: approximately 9.0 - 40.6; l:

103.6; t: 1.2; t edge: 4.0

Colour Greyish brown to brown

Description

Tapering piece. One edge is folded and secured with leather thong running stitches. The opposite edge is torn off. At right angles is a strip of leather that is secured with a large leather thong. May be a piece of a bag





Cat. No. **242**

Find No. DB 3003
Object Handle

Measurements d: 4.9 - 19.0 x 10.2; l: 43.0; t leath-

er: 1.3 - 2.5

Colour Brown

Description

Fairly thick, lengthwise-coiled fragment. The edge is sewn lengthwise with a row of leather thong stitches. Various other leather thong stitches and stitch holes, most of which seem at random, cover the outer surface. One end is distinctly thicker than the rest, which indicates the leather's edge at this end was folded before coiling.



DB 3003. Obverse and reverse.

Find No. DB 2670 Object Handle

Measurements d: 12.6 - 12.7; l: 125.0 Colour Greyish brown

Description

The curved handle consists of a lengthwise-coiled core around which a sheet of leather is folded. The edges are secured with leather thong whip stitches.

Cat. No. **244**

Find No. DB 1273b Group DB 1273a, b Object Handle

Measurements h: 22.4 - 40.3; t total: 13.1 - 23.5;

l: 106.5

Colour White, brown
Remarks See also Cat. No. 218

Description

The fragment can be divided into two parts: one part consists of two layers of folded leather whereas the other has another layer that is sandwiched between these two layers. There are several stitches that secure the layers.





DB 2670. Obverse and reverse.



DB 1273b. Obverse and reverse.

OFFCUTS AND WASTE

(CAT. NOS. 245-255)

The most important pieces are included here, including those that are part of a group of finds. Two offcuts (DB 3705) are described as Cat. No. 348. Other offcuts and waste fragments are listed in Appendix I.

| Cat. No. | Find No. | DB 2100c |
|----------|----------|--------------|
| 245 | Group | DB 2100a-c |
| | Object | Offcut waste |

Measurements Vary from 9.1 x 31.5 to 20.0 x 75.6

Colour Grey, brown

Remarks See also Cat. No. 128, 177

Description

The triangular fragment certainly is an offcut; the other three are not.

| Cat. No. | Find No. | DB 1013 |
|----------|----------|---------|
| 246 | Object | Waste |

Measurements Vary from 15.2 x 29.7 to 24.2 x 48.5

Colour Brown

Description

Three fragments without features. However, the largest one (piece of waste) has two holes, but it is unlikely that these are stitch holes.

| Cat. No. | Find No. | DB 1105 |
|----------|----------|---------|
| 247 | Object | Waste |

Measurements 24.1 - 44.2 x 71.0; t total: 9.4; t up-

per surface: 0.8

Colour Black, brown

Description

Irregularly-shaped, thick piece of hide. The uppermost surface is detached at various points. Several patches of this surface show the characteristics of rawhide.

| Cat. No. | Find No. | DB 1137b |
|----------|----------|-------------|
| 248 | Group | DB 1137a, b |
| | Object | Offcut |
| | 3.5 | |

Measurements 10.0 x 49.1; t: 2.9
Colour Greyish brown
Remarks See also Appendix I

Description

Irregularly shaped.



DB 1013. Obverse and reverse.

Offcuts and Waste





DB 1105. Obverse and reverse.

Cat. No. **249**

Find No. DB 2920 Object Waste(?)

Measurements 48.7 x 84.1; t: 1.8 Colour Red-brown

Description

Featureless, folded fragment. One short end is rounded. Possibly piece of waste.

Cat. No. **250**

Find No. DB 2586a, b
Object Offcuts

Measurements (a) 104.9 x 145.0; t: 2.1;

(b) 3.1-6.9 x 255.0;t: 1.5

Colour Brown

Description

(a) Triangular. Although the fragment seems to be an offcut, there is nevertheless a small stitch hole on one edge.

(b) Narrow strip, possibly broken off from the other fragment.

Cat. No. **251**

Find No. DB 3723a

Group DB 3723a, b

Object Offcut

Measurements 2.1 x 5.8 x 85.6

1/1eusurements 2.1 x 5.0 x 05.1

Colour Brown

Remarks See also Cat. No. 224

Description
Narrow offcut.

Cat. No. **252**

Find No. DB 3704e
Group DB 3704a-f
Object Offcuts

Measurements Vary from 5.3-32.5 to 4.0 x 66.4

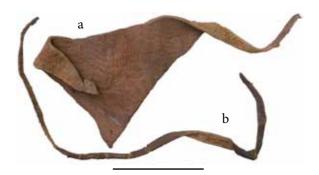
Colour Brown



DB 1137b. Obverse and reverse.



DB 2920. Obverse and reverse.



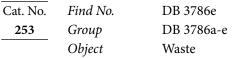
DB 2586a & b. Overview.

Remarks See also Cat. No. 55, 226, 354

Description
Three offcuts.



DB 3723a. Overview.



Measurements 17.5 x 22.6 x 24.6 Colour Greyish brown

Remarks See also Cat. No. 59, 103, 153, 366

Description

Waste (animal's nipple).

| Cat. No. | Find No. | DB 3753f |
|----------|--------------|--------------|
| 254 | Group | DB 3753a-f |
| | Object | Offcuts |
| | Measurements | Not measured |

Colour Brown

Remarks See also Cat. No. 66, 404. Not

illustrated

Description Offcuts.



DB 3704e. Overview.



DB 3786e. Obverse and reverse. Scale bar is 10 mm.

| Find No. | DB 827 |
|----------|--------|
| Object | Waste? |

Measurements h total: 119.9; w protruding parts:

24.2 & 33.5; h part between pro-

Cat. No.

255

truding parts: 33.6

Colour Reddish brown

Description

Two tapering elements are still connected to each other by a narrow strip.



DB 827. Obverse and reverse.



MISCELLANEOUS (CAT. NOS. 256-258)

Cat. No. **256**

Find No. DB 2688

Object Repair patch

Measurements 54.9 x 57.0; t: 2.0

Colour Greyish brown

Description

Circular repair patch that is worn through in the middle. On the visible (grain) surface, there are short (between 2 and 3 mm), but widely-spaced (about 6 mm) leather thong running stitches along the perimeter. Note the stitches surrounding the hole in the centre.





DB 2688. Obverse and reverse.

Cat. No. **257**

Find No. DB 3715a Group DB 3715a-i

Object Child's finger ring(?)

Measurements h: 14.6; w: 19.6; w leather: 3.2

Colour Brown

Remarks See also Cat. No. 67, 345

Description

A narrow strip of leather is made into a ring by tying the ends into a reef knot (text figure 7C). Probably a child's finger ring. Comparable tiny rings are known that are made of vegetable fibre (Wendrich, 1996: 63-64).



DB 3715a. Side view, from above and other side view respectively.

Find No. DB 3001 Object Lid

Measurements 300.0 x 170.0; t leather (double

layer): 2.7

Colour Brown and black

Description

A sheet of leather is folded and sewn on the open side with leather thong running stitches. The edges of both layers have been folded inwards; the stitching thus goes through four layers. The circular, deeper inner part is likely caused by pushing it firmly onto the opening of the pot, for which it functioned as lid. The sewing at the perimeter of the circular impression might have been a reinforcement to keep the shape unaltered. Associated with the lid is a toggle(?), made from a tiny strip of leather (4.4 x 2.3 x 115.0).



DB 3001. Obverse and reverse.

UNIDENTIFIED

(CAT. NOS. 259-410)

Cat. No. Find No. DB 3432

259

260

261

Measurements 50.9 x 61.8; t: 1.0

Remarks Papyrus remnants on both sides of

the leather

Brown

Description

Colour

Featureless, except that papyrus adheres to both sides. This suggests it is a fragment of book cover, but the leather differs considerably from the usual fragments of book cover.

Cat. No. Find No. DB 3254

Measurements 49.9 x 63.6; t: 0.3
Colour See description

Description

Thin leather, light brown reverse and dark/red-brown obverse. The obverse has a black, painted(?) band of decoration as well as lines, which might be writing

writing.

Cat. No. Find No. DB 2721

Measurements w: 49.8; l: 47.9; w one strip: 3.6;

t one strip: 2.6

Colour Greyish brown

Description

Three lengthwise-folded strips of leather, through which a fourth is pulled at right angles, thus holding them together and creating sort of tassle.

Cat. No. *Find No.* DB 3033a **262** *Group* DB 3033a, b

Measurements w: 101.3 - 116.1; t: 2.7; l: 158.0

Colour Brown

Remarks See also Cat. No. 180

Description

Thick large piece with one square corner. The two opposite edges are cut off for re-use, the edge of which is sewn with coarse running stitches of leather.



DB 3432. Obverse and reverse.



DB 3254. Reverse and obverse.



DB 2721. Overview.

Find No. DB 2763

Measurements w folded: 35.5; w total: 8.6; l: 66.5

Colour Reddish brown to brown

Description

Crescent-shaped fragment that is folded. One edge has relatively large empty stitch holes. Part of footwear?

Find No. DB 2725

Measurements w: 12.4 - 25.6; l: 165.0; t: 2.2

Colour Light brown

Description

Leg's leather judging by the tapering tube without

Cat. No.

264

seams.



DB 3033a. Obverse and reverse.





DB 2725. Overview.

■ *DB 2763. Obverse and reverse.*

Cat. No. **265**

Find No.

Measurements

DB 3102a, b

(a) 74.1 x 63.0; (b) 64.7 x 128.7; t: 2.0

Colour

(a) Brownish black; (b) Greyish

brown

Description

- (a) Irregularly-shaped, featureless fragment.
- (b) Irregularly-shaped fragment. Note the folded corner with four stitch holes in a row (paired) and the four stitch holes set together in a square.

Unidentified



◆ *DB 3102a. Obverse and reverse.*

▼ *DB* 3102b. Obverse and reverse.





Cat. No. **266**

Find No. DB 3013a, c Group DB 3013a-c

Measurements (a) 40.3 (total) x 36.8; t: 3.0;

(c) w: 35.8; l: 104.8; t: 1.8

Colour Brown to dark brown Remarks See also Cat. No. 181

Description

- (a) Rectangular fragment with remnants of three leather stitches.
- (c) Irregularly-shaped, tapering fragment of thin leather. Featureless.



DB 3013a. Obverse and reverse.



DB 3013c. Obverse and reverse.

Find No. DB 1164

267 *Measurements*

25.3 x 27.6; t: 4.2

Colour

Grey

Description

Rounded square fragment consisting of two layers that are heavily sewn, at random, with leather thong stitches. Several edges of both layers are original.

Cat. No.

Find No. DB 1588

268 Measurements

w: 16.8; l: 50.3; t: 2.0

Colour

Greyish brown

Description

Tapering piece with two slits to which a second, narrow (about 4 mm) strip of leather is hitched (text figure 7F). Note that one of the ends is split, each end being pulled through a slit. Might have been part of a pre-strap/back strap, but if so, the intact, tapering end has not been seen before.

Cat. No.

Find No. DB 811

269 *Measurements*

62.5 x 175.0 x 10.0 (edge)

Colour

Brown

Description

Thick piece of rawhide, one side of which is folded. On one surface it shows, lengthwise, two raised lines, which run diagonally towards each other. These lines are not visible on the reverse.

Cat. No. **270**

Find No. DB 793b, c Group DB 793a-c

Measurements (b) w: 15.0; l: 23.0; t: 4.1;

(c) 22.7 x 21.8; t: 1.0

Colour Black

Remarks See also Cat. No. 121. Found with

various featureless scraps

Description

(b) Roughly square fragment of thin leather that is sewn on one edge with leather thong whip stitches. Unknown use, although this type of leather is usually seen as a book cover.

(c) Scrap without any features.

Cat. No. **271**

Find No. DB 1699a Group DB 1699a-e

Measurements w double layer part: 36.2; h double

layer part: 25.8; t double layer part: 3.0; w single layer part: 14.7; l to-

tal: 53.0





DB 1164. Obverse and reverse.



DB 1588. Obverse and reverse.





DB 811. Obverse and reverse.



DB793b & c. Overview.

Colour Greyish brown to brown

Remarks See also Cat. No. 15, 272. Cat. No.

271 and 272 both have the same find number, which is due to the fact that they have been packed, erroneously, in different bags

Description

L-shaped fragment with the horizontal part that consists of two layers, which are secured along the perimeter with leather thong running stitches. This additional layer is stitched with its flesh side to the grain side of the lower layer. The single layer part, at right angles to the double layer part, has, on one edge, two large cuts resulting in two small strips. Note the impressed line, visible on both sides: on the flesh side as impression, but on the grain side of the leather in high relief.

Cat. No. **272**

Find No. DB 1699b, d
Group DB 1699a-e

Measurements (b) w: 23.5; l: 39.1; t: 3.5;

(d) w: 16.5-19.1; l: 55.1; t: 1.6

Colour (b) Grey brown; (d) Brown Remarks See also Cat. No. 15, 271

Description

- (b) Small rectangular fragment that consists of two layers. These are secured with leather thong running stitches along the perimeter. Note a single large leather stitch roughly in the centre.
- (d) Oval fragment with several empty stitch holes in pairs. One, however, still has the leather thong stitch *in situ*, which is still quite long on the reverse (flesh side).

Cat. No. **273**

Find No. DB 1629a, d
Group DB 1629a-d

Measurements (a) w: 31.7; l: 74.1; t: 1.5;

(d) w: 18.9; l: 76.0; t: 1.2

Colour (a) Black grain side; brown flesh

side; (d) Brown to black

Remarks See also Cat. No. 76, 183

Description

(a) Roughly rectangular layer to which, on the flesh side, is attached a smaller trapezoid-shaped fragment, facing the layer with its flesh side. This additional piece of leather is secured lengthwise down the centre with two leather thong running stitches; a third stitch does not



DB 1699a. Obverse and reverse.

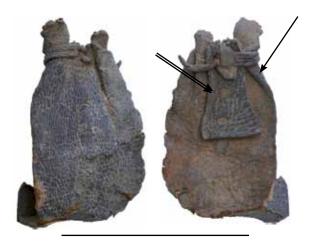


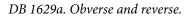


DB 1699b. Obverse and reverse.

DB 1699d. Obverse and reverse. Scale bar is 30 mm.

include the trapezoid fragment. At the top of the object, the trapezoid element is secured with a double, narrow leather strip by hitching through both layers. The strips are pulled tight, due to which the edges of the larger element are turned inwards (arrow). A small leather protrusion (double arrow) might be a reinforcement.





(d) Roughly rectangular fragment, but with tapering ends. One of the long edges has two holes close to the edge, which have been pulled out, suggesting there was much force exerted on them. Close to one tapering end are two additional holes, but not showing the same condition as the previously-mentioned ones.

Cat. No. **274**

Find No. DB 2082a, b

Measurements (a) w: 46.5; l: 69.2; t total: 4.6; w

edge: 27.5;

(b) 15.3 x 22.7; t: 1.1

Colour Brown flesh side; black grain side

Description

- (a) A roughly rectangular fragment that is torn on three edges. The intact edge has a rectangular fragment of irregular width to it (grain to flesh), which is secured along its long edges with two rows of leather thong running stitches.
- (b) Small featureless scrap.

Cat. No. **275**

Find No. DB 2093

Measurements 1 wood: 65.2; d: 4.4 x 6.0 & 5.6 x

8.3; w leather: 4.3 - 7.7

Colour Brown stick and string; black

leather

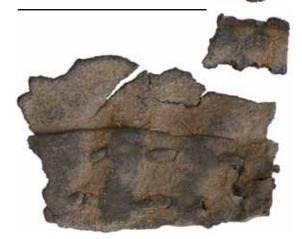
Description

Small piece of wood, nearly square in diameter, around which is wound a narrow strip of leather. One end of the wooden stick has been inserted through a hole in the leather strip, after which the winding starts. On both sides, an s-spun string is wound around the stick.



DB 1629d. Obverse and reverse





DB 2082a & b. Obverse and reverse.



DB 2093. Overview.

Find No. DB 1263a, b

Measurements (a) w: 13.7; l: 41.6; t: 3.1; w sewn

strip: 8.2;

(b) w: 8.1-11.5; t: 1.6

Colour Brown

Description

(a) Roughly rectangular fragment to which a smaller strip is applied that is secured with leather thong running stitches on the long intact edge. The other edges are torn off. The sewing thong is finished by inserting it into the stitches (arrow).

(b) Tapering strip of leather to which a small scrap is attached with a single leather thong stitch on one of the ends. The stitch itself has a hole in one of the ends.

Cat. No. **277**

Find No. DB 1719a, c Group DB 1719a-d

Measurements (a) 176.0 - 100.0 x 200.0; t: 1.4;

(b) w: 18.9 - 22.8; l: 53.4; t: 6.0

Colour Brown

Remarks See also Cat. No. 96, 200

Description

(a) Large piece without features except for several empty stitch holes in the protruding area, including the impression of the sewing string/thong on the grain side. The impres-



DB 1263a & b. Obverse and reverse.



DB 1719c. Obverse and reverse.





- sions suggest the sewing was done with a whip stitch (text figure 3).
- (c) Rectangular piece that consists of two layers. These are secured with leather thong stitches. The width is intact. One of the short edges is rounded and has a large hole. Might be the terminal end of a narrow belt.

Cat. No. Find No. DB 1314

Measurements w: 25.0; l: 56.5; t: 0.8

Colour Brown

Description

278

280

281

Rectangular fragment with relatively large stitch holes on one of the long edges. The impressions of the sewing string (note that in one, remnants of the stitch are still *in situ*) that run diagonally from the holes to the edge (text figure 3), suggest that the fragment was sewn with whip stitches.

 Cat. No.
 Find No.
 DB 2169

 279
 Measurements
 80 x 155

 Colour
 Brown

Description

Accumulation of various layers of thin leather but without any features.

Cat. No. Find No. DB 1521

Measurements Vary from 10.5 x 21.5 to 25.5-28.7;

t: 1.0

ColourGreyish brownRemarksNot sub-numbered

Description

Three small scraps, covered with stitch holes.

Cat. No. Find No. DB 2059

Measurements Approximately 1500 x 1900 &

750 x 3400; t: 1.0

Colour Black, brown
Remarks Not sub-numbered

Description

Rather large fragments, but without any features.

Possibly book cover's leather.



DB 1314. Obverse and reverse.





DB 2169. Obverse and reverse.



DB 1521. Overview.

Find No. DB 136a-c

Measurements (a) 72.6 x 82.3; t at stitch holes'

edge: 4.1;

(b) 85.1 x 117.3; t folded: 1.8; (c) 81.4 x 115.7; t folded: 1.4

Colour (a) Greyish brown; (b) and (c)

Brown

Description

a

- (a) Roughly circular piece without any features, except several large, empty stitch holes on one edge.
- (b) and (c) are comparable fragments and distinct from (a) in the fact that they are much-worn pieces due to which the outermost surface is entirely rubbed off. No features.



DB 2059. Overview.



DB 136a-c. Obverse and reverse views.



Find No. DB 963

Measurements w: 21.2-39.2; l: 160.0; t: 5.6 Colour Greyish brown to brown

Description

Thick, irregularly-shaped piece of skin/rawhide with six holes. The outer surface has, in addition to the holes, grooves lengthwise, which roughly follow the shape of the object. Note the cut in one of the long edges.

Cat. No.

284

Find No. DB 1605a, c-e
Group DB 1605a-e

Measurements (a) w: 69.7; h: 57.2; t: 1.3;

(c) w: 28.3; l: 32.9; t: 6.4; (d) 44.1 x 64.4; t: 2.1; (e) 16.8 x 25.8; t: 1.1

Colour Brown

Remarks See also Cat. No. 20

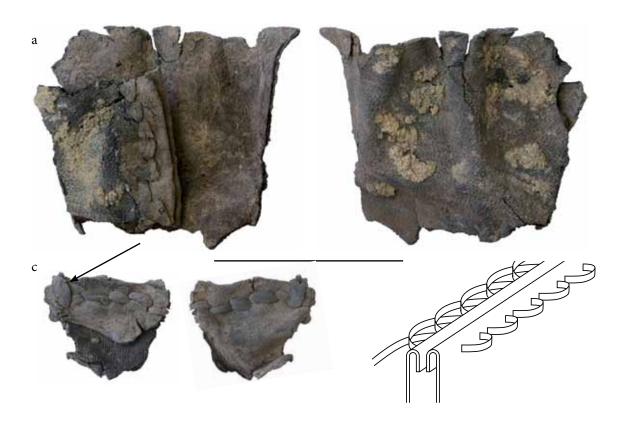
Description

- (a) Two thin sheets are folded and secured with double leather thong stitches, sewn in opposite directions (see section 'Stitches and Seams'). In the seam, the folded edges face each other.
- (c) as (a). Note the finishing at one end (arrow).
- (d) and (e) Featureless fragments.



DB 963. Obverse and reverse.

▼ *DB* 1605a, c. *Obverse and reverse views.*







DB 1605d & e. Overview.

Find No. DB 2166

285 Measurements

113.5 x 115.4; t: 1.5

Colour

Black

Description

Featureless fragment, which looks like leather for book covers but seems a little too thick.

Cat. No. **286**

Find No. DB 1636a-c

Measurements (a) d: 24.9 - 30.3 x 15.3 - 18.3; l: 86.6;

(b) 35.2 - 43.4 x 83.3; t edge: 4.3;

t leather: 2.9;

(c) 15.2 x 37.5; t: 0.8 & 12.8 x 43.1;

t: 0.9

Colour (

Description

Greyish to dark brown

The three fragments are comparable and must have belonged to one and the same object.

(a) Fragment consisting of two sheets of leather. The edges of the widest sheet overlap each other, the folds thus created stand up in between which the second, folded sheet is placed. The edges of this layer face 'upwards' (it is uncertain which side is up and which side down; the term is used to visualise the stitch method) in the same way as the fold. Lengthwise down the middle, the five layers are secured with isolated stitches 'inside out'.



DB 2166. Obverse and reverse.



DB 1636a & b. Obverse and reverse views.

■ DB 1636c. Overview.

- These stitches are isolated, but most likely were not originally, as they are torn off.
- (b) Rectangular fragment that consists of three layers. The outer two layers are folded lengthwise in between which the third layer is sandwiched. The fragment compares well to (a). One end of the outer layer shows a fold at right angles to the lengthwise-fold (arrow). Stitch holes are visible, two of which contains remnants of stitches.
- (c) Two small scraps, probably originating from (b). Note the stretched stitch holes in one of the fragments.

| Cat. No. | Find No. | DB 884a, b |
|------------|---------------|-------------|
| Cut. 1 10. | 1 77777 1 101 | 22 00 14, 0 |

Measurements (a) 72.7 x 83.8; t: 1.1. Holes: 11.6 x

26.0;

(b) 60.1 x 92.8; t: 1.0

Colour Brown

Description

287

Cat. No. **288**

- (a) Roughly rectangular fragment with two relatively large holes. *Cf.* DB 3762, Cat. No. 363.
- (b) Rectangular fragment, with a small hole in one of the corners. Both fragments are made from the same kind of leather.

| Find No. | DB 801b, d-h |
|--------------|--|
| Group | DB 801a-j |
| Measurements | (b) 15.7 - 24.8 x 51.2; t single: 1.0; |
| | (d) 52.8 x 47.9 x 28.2; |

(e) 22.1 x 25.9; t: 3.6; (f) 18.3 x 34.7; t: 1.2; (g) 9.4 x 58.5; t: 1.8; (h) 23.5 x 32.3; t: 1.3

Colour (b), (d) Dark brown; (e) Grey ob-

verse, dark brown/black reverse side; (f), (h) Grey; (g) Brown

Remarks See also Cat. No. 110, 135, 206

Description

(b) Fragment consisting of two thicknesses that are secured flesh to flesh with widely, but evenly-spaced leather thong running stitches along the perimeter. Note the single stitch in the centre of the fragment, suggesting a row of stitches lengthwise down the centre, as is often seen in sandals. The largest thickness has two intact edges, showing a distinct curvature that forms a nearly right-angle corner. On the opposite side, the start of another corner is visible, but the fragment broke





DB 884a & b. Obverse and reverse.



DB 801b. Obverse and reverse.



DB 801d. Overview.



DB 801e & f. Overview. Scale bar is 30 mm.

- off, prohibiting any further statement. Only scraps remains of the other thickness.
- (d) Folded fragment, showing two intact, albeit partial, edges. No features. It might be a part of a sandal's sole.
- (e) Slightly diamond-shaped scrap with remnants of one long leather thong running stitch. Next to it is an empty stitch hole(?). Note that the reverse has a distinctly darker colour.
- (f) Irregularly-shaped fragment with remnants of one long leather thong, running stitch, which is not unlike the one seen in (e), although narrower. The fragment is slightly bent. On the obverse, the stitch includes scraps of leather. In contrast to (e), both surfaces have a grey colour.
- (g) Roughly rectangular, featureless fragment. Seems to be of intact width.
- (h) Curled, featureless scrap. One edge is (partially) intact. Might be part of a sandal's sole.

Find No. DB 1693

Measurements 10.2 - 17.5 x 70.8; t leather: 1.3

Colour Black grain surface; brown flesh

surface

Description

Folded and slightly curved fragment. One edge shows five intact stitch holes as well as the remnant of a sixth. The leather is comparable to leather that is used in book covers, but seems slightly too thick. Moreover, such stitch holes are of no use in book covers.

Cat. No. **290**

Find No. DB 1691b

Group DB 1691a-c

Measurements 26.7 x 37.8; t: 1.7

Colour Dark brown

Remarks See also Cat. No. 27, 208





DB 1693. Obverse and reverse.



DB 1691b. Obverse and reverse.

Description

Irregularly-shaped fragment of which the curved edge is intact. There are two intact leather thong running stitches, together with one empty stitch hole. Note the single stitch in the centre of the fragment.

Cat. No. Find No. DB 1341

291

292

Measurements 27.8 - 47.8 x 71.3 (folded) - 140.0

(total); t leather: 1.2

Colour Dark brown grain surface; brown

flesh surface

Description

Folded, tapering thin sheet of leather. One edge shows long (average about 6 mm), regular but widely-spaced (about 10 mm) leather thong run-

ning stitches.

Cat. No. Find No. DB 2391

Measurements 12.3 - 18.3 x 85.0; t: 2.1

Colour Greyish brown flesh surface;

black grain surface

Description

Irregularly-shaped fragment, showing several stitch holes. The more or less straight long edge is original; the others are torn. Note the scratch on the widest part (arrow). The grain surface is comparable to the leather that is used in book covers. The current fragment, however, seems too thick for such a function.

Cat. No. Find No. DB 950

Measurements 26.0 x 46.4; t: 1.8 Colour Greyish brown to black

Description

Roughly triangular, curled fragment, which consists of two thicknesses (one of which is reduced to a small scrap) that are secured with leather thong whip stitches. In the seam, the edges of the two thicknesses face each other and do not overlap.

Cat. No. **294**

293

Find No. DB 997b Group DB 997a, b

Measurements 64.1 x 74.8; t leather: 1.3; t edge:

2.6

Colour Brown

Remarks See also Cat. No. 84

Description

Roughly square piece, consisting of two layers, which are secured on one edge with short (about 3-4 mm), wide (about 9 mm) but evenly-spaced leather thong stitches.



DB 1341. Obverse and reverse.



DB 2391. Obverse and reverse.



DB 950. Obverse, side view and reverse.

Find No. DB 978b, c
Group DB 978a-c

Measurements (b) 32.0 x 24.2 x 9.1;

(c) 18.7 x 19.9; t: 9.1

Cat. No.

295

Colour (b) Brown to reddish brown;

(c) Brown

Remarks See also Cat. No. 35



DB 997b. Obverse and reverse.



DB 978c. Obverse and reverse.

DB 978b. Obverse and reverse.

Description

- (b) Folded, roughly square fragment. Usually, the nipple is cut out and discarded as waste. Here, however, the leather seems to have been used. The edges at right angles to the nipple's length are original; the other edges are torn off.
- (c) Roughly square fragment of two thicknesses that are secured with several leather thong running stitches. Might be a fragment of a sandal's sole. Note the patches of hair.



DB 903. Obverse and reverse.

Cat. No. Find
296 Meas

Find No. DB 903

Measurements 31.2 x 39.4 x 10.1

Colour Redbrown

Description

Small piece of leather that is coarsely wrapped with a narrow strip.

Cat. No. **297**

Find No. DB 1502

Measurements h: 12.7
Colour Greyis

h: 12.7 - 18.5; w: 12.2; l: 54.8 Greyish brown. Textile is beige

Description

Curved fragment that consists of a lengthwise-folded layer of leather, sandwiching two additional layers. In



DB 1502. Obverse and reverse.

between is a layer of coarsely woven textile, which are secured with double thread stitches of cotton or flax (not identified). The stitches are made of more than five z-spun yarns, which, remarkably, do not seem to have been plied. On one side, there are two additional scraps, which are secured independently to the folded outer layer. It is not clear through which layers these stitches go: they are not visible on the other side.



DB 1551. Obverse, reverse and view from above.

Cat. No. 298

Find No. DB 1551

Measurements

d: 7.8 x 13.1; l: 24.8; inner d: 3.4 x

Colour

Greyish brown

Description

Natural tube of leather, which suggests that it is part of an animal's leg, but the thickness makes this questionable.

Cat. No.

Find No. DB 1501

299

Measurements 24.0 - 38.5 x 78.3; t: 4.1

Colour

Light brown

Description

Triangular piece of rawhide with one curved edge. All edges are intact. There are pairs of stitch holes along the perimeter, some of which still contain in situ remnants of leather thong stitches.

Cat. No.

Find No. DB 2331

300 Measurements

93.0 x 100.8; t: 1.4

Colour

Greyish brown to brown

Description

Roughly triangular fragment, showing four (partially) intact edges. It is, however, unlikely that these



DB 1501. Obverse and reverse.

are original edges: close to one edge is a repair patch, which is cut in half through one of the stitches that secures it. Note that the patch consists of two layers: a lower, pointed patch on top of which is a circular patch, both of which are stitched to the sheet of leather with the same leather thong running stitches.

▼ DB 2331. Obverse and reverse.





Find No. DB 1222

Measurements 7.6 - 25.3 x 60.3; t: 2.5

Colour Brown

Description

Triangular fragment that consists of two layers (facing flesh-grain side), which are secured along the long, tapering edges with large, evenly-spaced

leather thong running stitches.

Cat. No. 302

Find No. DB 1378a, b

Measurements (a) 28.9 x 44.1; t: 1.1;

(b) 50.5 x 75.4; t: 0.9; w stitch: 2.2

Colour Black grain surface, brown flesh

surface

Description

Two pieces from the same object, both torn on

(a) Smallest fragment, irregular in shape. Note the nipple, which is usually cut out as waste but in some cases they are not and sewn tied or patched. Apparently, this depended on the function of the leather.



DB 1222. Obverse and reverse.

(b) Largest, also irregularly-shaped fragment. Both fragments have large (about 8 mm), but closelyspaced (about 4 mm) leather thong running stitches.

▼ DB 1378a & b. Obverse and reverse.



Cat. No.

Find No. 303 Measurements DB 1380

43.2 x 65.6; t: 1.4

Colour

Black grain surface; greyish brown

flesh surface

Remarks

The black grain surface compares

well with the book cover leathers, but it seems too thick for such a use

Description

The fragment has one curving edge with leather thong running stitches. On the grain surface, these are short (about 3 mm) but widely-spaced (about 6 mm), contrasting with the situation in for example DB 1378a, b (Cat. No. 302). Set inwards from this edge, two impressed lines are visible which run nearly parallel to the edge, albeit straight rather than curved. These seem coincidental and not intended. Note that the flesh surface differs from, for example, the much comparable leathers DB 1378a, b (Cat. No. 302).

Cat. No. **304**

Find No. DB 1232b, c
Group DB 1232a-c

Measurements (b) 72.4 x 54.9; t: 1.4;

(c) 20.4 x 47.9; t: 7.1

Colour Greyish brown

Remarks See also Cat. No. 186. With (b),

the side with the strip of leather sewn onto it is referred to as obverse; this edge is seen in horizontal position for the description.

Description

- (b) Triangular fragment, the top of which has a short cut and the leather on both sides is rounded (arrow). At this cut, the outer part is folded, resulting in a fold of about 6 mm width; several leather thong stitches are still in situ. Note at the back a small scrap of leather that is sandwiched between the fold and the rest of the object (double arrow). The horizontal edge has a wide strip of leather sewn onto it at the front. The stitching is rather unusual: the leather thong running stitches are short (2-3 mm), in between which 'x' motifs, also of leather thong, are sewn. Obviously, on the back side, the running stitches are larger (up to 13 mm). Here, the 'x' stitches are not visible: the leatherworker inserted the stitches at right angles to the horizontal running stitches. In one case, the stitch runs over the long horizontal running stitch. Probably, the leather strip was attached to reinforce the torn original edge.
- (c) Roughly triangular fragment that consists of two thicknesses. Several at random leather thong stitches are visible. Shortly before the widest part, on one side, a series of three stitches secure the two layers; on the reverse these were sewn through each other. Because the stitches extend over the edges, it can be concluded that the fragment's width is, at least at this point, intact. But the edges are torn and thus this must be a repair.



DB 1380. Obverse and reverse.





DB 1232c. Obverse and reverse.

Find No. DB 2048

Measurements

w: 22.0; t: 11.3; l: 32.0; t leather:

2.7; d inside: 6.4 x 13.8

Colour

Greyish brown

Description

Sheet of leather that is made into a flattened tube by securing the edges, flesh to flesh, with leather thong whip stitches. Patches of reddish brown material, which has an appearance not dissimilar to rawhide, adheres to the outer surface.

Cat. No. **306**

Find No. DB 2919

Measurements

40.2 - 44.2 x 117.0; t: 1.5

Colour

Yellowish brown flesh side; brown

grain side

Remarks

The fragment is very hard, suggesting rawhide. However, the colour as well as its general appear-

ance contradicts this

Description

Featureless fragment, except for a big hole at one of the short edges, which clearly shows evidence of distortion by pulling.

Cat. No. **307**

Find No. DB 2908

Measurements 82.1 x 86.5; t: 2.4

Colour Brown. Note the rather red colour

of the inner side of the leather's

thickness

Description

Irregularly-shaped fragment, showing many, seemingly random, stitch holes. Two edges have been cut off, but it is uncertain whether this was done to manufacture the original object or secondarily.

Cat. No. **308**

Find No. DB 2905a, b

Measurements (a) 67.3 (maximal) x 92.0; t: 3.5;

(b) 73.6 (maximal) x 150.3; t fold-

ed: 4.0

Colour Greyish brown

Description

- (a) Irregularly-shaped fragment. A hole is repaired with a patch that is secured along its edge with widely but regularly-spaced leather thong stitches. A second repair is placed on top after the edges of the first repair started to break. This repair is done with comparable stitches.
- (b) Large, folded but featureless sheet of leather.



DB 2048. Obverse and reverse.



DB 2919. Obverse and reverse.



DB 2908. Obverse and reverse.



DB 2905b. Overview.



DB 2905a. Obverse and reverse.

Find No. DB 2613

Measurements 85.7 x 87.4; t: 1.2

Colour Brown

Description

Irregularly-shaped fragment. Remnants of a second layer, which is secured with large, widely but regularly-spaced leather thong running stitches, adhere

to the flesh side. It seems unlikely this is a repair, because usually (but not always), holes are repaired with circular or oval patches (*cf.* for example DB 2331, Cat. No. 300). Note the parallel slits in the centre of the fragment.

▼ *DB* 2613. *Obverse and reverse*.



Find No. DB 2633

Measurements 18.3 - 27.1 x 124.0; t: 1.8

Colour Brown

Description

Rectangular fragment, one end (folded) of which is rounded and contains a slit lengthwise. Two stitch holes(?) are positioned on the remaining part, lengthwise down the centre. On the edges are several leather thong stitches, which seem to have attached the object to something else. An additional thong stitch is placed just before the folded end.

Cat. No. **311**

 Find No.
 DB 1218b

 Group
 DB 1218a, b

 Measurements
 32.4 x 55.2; l: 2.0

Colour Black

Remarks See also Cat. No. 188

Description

Triangular, featureless fragment except for an isolated leather thong stitch.

Cat. No. **312**

Find No. DB 3217

Measurements 18.4 - 25.3 x 140.0; t: 1.8 Colour Greyish brown to black

Description

Tapering fragment, the square end of which is folded. A row of stitch holes, several of which still contain the leather thong stitches, curves from one long edge to the opposite. The stitches are short (about 2 mm) and equally-spaced, the spacing being about the same length as the stitches.



DB 3217. Obverse and reverse.

► DB 3217 Detail obverse and detail reverse respectively. Scale bar is 10 mm.



DB 2633. Obverse and reverse.



DB 1218b. Overview.





Find No. DB 2793

Measurements 10.0 - 32.3 x 140.0; t: 1.1

Colour Greyish brown grain surface;

brown flesh surface

Remarks The identification of the string is

based on macroscopic analysis

Description

Tapering fragment. The centre of the widest part is cut, leaving two extensions on both sides, which are tied with flax strings. Two holes are made in the tapering end, through which a $zS_2[Z_2]$ string is pulled. On one of the long edges, two holes are used for the attachment of a sZ_2 flax string.

Cat. No. **314**

Find No. DB 2822

Measurements 53.8 x 34.6 (folded) 70.0 (total);

t: 3.6

Colour Brown

Description

Rectangular fragment, of which one end is folded, giving the profile a 'U'-shaped appearance. There are stitch holes along the perimeter. On one surface, a cut marks the fold. The cut does not go through the entire thickness.

Cat. No. **315**

Find No. DB 2601 Colour Brown

Measurements 21.0 - 29.7 x 9.6; t leather: 1.2;

t repair: 3.3

Description

Irregularly-shaped fragment with two repair patches that sandwich the original layer (one patch is 42.0×27.0 mm). The patches are secured along the perimeter with leather thong running stitches. The patch is secured flesh side to flesh side.

Cat. No. **316**

Find No. DB 3212

Measurements 25.6 - 33.4 x 113.6; t: 2.4

Colour Grey black, brown (repair layer's

flesh side) and reddish brown

(repair layer's grain side)

Description

Roughly rectangular fragment of black leather. A big crack in the leather is repaired by placing a second layer of leather against it and securing it, through the edges of the crack, with leather thong sailor stitches (text figure 4). The second



DB 2793. Overview.



DB 2822. Obverse and reverse.



DB 2601. Obverse and reverse.

layer of leather differs from the original one: it is brown on one side, but red on the other. The red grain surface is placed against the black layer's grain side. The stitching is done with comparable leather to the repair layer.

Cat. No. **317**

Find No. DB 3276

Measurements 62.8 x 71.2; t: 2.6

Colour Brown

Description

Irregularly-shaped sheet of leather, with on all sides either empty stitch holes or (at the visible grain surface) short but widely-spaced, intact leather thong running stitches. Note the patches of red pigment on the grain surface.

Cat. No. **318**

Find No. DB 1197

Measurements 26.9 x 74.8; t: 2.2

Colour Black grain surface; brown flesh

surface

Description

Rectangular fragment, one short end of which is torn. The other, intact end has slightly rounded corners. The fragment is secured along the perimeter with long leather thong running stitches, which are rather closely-spaced. The stitch holes are pre-made.



DB 3212. Obverse and reverse.





DB 3276. Obverse and reverse.





DB 1197. Obverse and reverse.

Find No. DB 3103

Measurements 46.9 x 47.9 - 69.1; t: 2.9

Colour Brown

Description

Irregularly-shaped piece, with, especially along one edge, stitch holes(?) of different sizes.



DB 3103. Obverse and reverse.

Cat. No. **320**

Find No. DB 1643b Group DB 1643a, b

Measurements 16.6 x 75.7; t (= w strips): 4.3

Colour Brown to black
Remarks See also Cat. No. 44

Description

Fragment consisting of two lengthwise-folded strips of leather, with one strip pulled through holes in the other. However, at the next fastening, the one being pulled through the hole has a hole through which the other is pulled. In between these two attachments is a remnant of a stitch still *in situ*. On one end, a scrap of leather is folded around one of the lengthwise-folded strips. *Cf.* 3715c (Cat. No. 345).



DB 1643b. Obverse and reverse.

Cat. No. **321**

Find No. DB 1647b-d Group DB 1647a-f

Measurements (b) h: 36.6; l: 64.2; t leather: 1.7;

t total: 16.1;

(c) 35.2 x 41.6; t: 3.0;

(d) 13.0 x 29.6; t: 1.3 & 17.9 x 31.0;

t: 1.1

Colour (b), (c) Brown; (d) Greyish brown

Remarks See also Cat. No. 48, 216

Description

(b) Fragment of single layer leather that is roughly triangular in shape (but incomplete). A single layer strip (torn off on one edge) is secured with leather thong running stitches on two edges.



DB 1647b. Obverse and reverse.



DB 1647b. Detail of seam.

- (c) Fragment with a quarter-of-a-circle shape. In the rounded corner (the only intact edge), there is an isolated leather thong stitch.
- (d) Two featureless scraps, although the larger fragment has a long (about 15 mm), narrow (about 1.5 mm) isolated leather thong stitch.

t: 2.9; t: 2.7

| Cat. No. | Find No. | DB 969a, b |
|----------|--------------|------------------|
| 322 | Measurements | (a) 23.2 x 26.1; |
| | | (b) 27.6 x 36.2; |

Colour Black

Description

Both fragments are comparable pieces of black leather, showing leather thong running stitches. The leather is comparable to book cover leather, but because of the stitches, it is unlikely that it was used as such.

| Cat. No. | Find No. | DB 948 |
|----------|--------------|----------------------------|
| 323 | Measurements | 11.8 - 20.5 x 40.0; t: 3.3 |

Colour Brown to greyish brown with red-

brown hair

Description

Featureless scrap. Note the patches of thick, reddish hair.

Find No. DB 1257

Measurements 30.5 x 37.7; t leather: 2.2; t edge: 8.0

Colour Greyish brown

Description

Cat. No.

324

A strip of leather is folded around the edge of a second thickness and secured with leather thong running stitches.

Cat. No. Find No. DB 1295a

325 Group DB 1295a, b

Measurements 38.2 x 39.6; t: 3.0; l slit: 23.9

Description

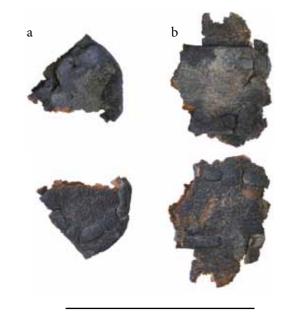
Roughly rectangular piece, with a big transverse slit on one side. Several leather thong running stitches are situated along the edge.



DB 1647c. Obverse and reverse.



DB 1647d. Obverse and reverse.



DB 969a & b. Obverse and reverse.



DB 948. Obverse and reverse. Scale bar is 30 mm.



DB 1257. Obverse and reverse. Scale bar is 30 mm.



DB 1295a. Overview. scale bar is 30 mm.

| Cat. | No. |
|------|-----|
| 326 | |

Find No. DB 2654a, b

Measurements (a) 24.5 - 78.4 x 208.0; t: 2.7;

(b) 27.8 - 44.0 x 200.0; t: 1.1

Colour Blackish brown grain surface;

brown flesh surface

Remarks Might belong to DB 2650 (Cat.

No. 338)

Description

- (a) Irregularly-shaped fragment of which two edges are folded and secured with widely-spaced leather thong running stitches.
- (b) As (a), but the empty stitch holes are running lengthwise down the centre of the fragment, rather than securing the edge. A single leather thong stitch secures the folded end.



Find No. DB 3029

Measurements 26.8 - 89.5 x 275.0; t: 1.2

Colour Black grain surface; brown flesh

surface

Description

Featureless, except for the presence of s-spun flax threads, which are pulled through some holes, the function of which is unclear.



DB 3029. Obverse and reverse.



DB 2654a. Obverse and reverse.



DB 2654b. Obverse and reverse.

Cat. No. Find No. DB 3006

Measurements 162.0 x 180.0; t: 1.8 328 Colour Brown to greyish brown

Description

Large, featureless fragment.

Cat. No. Find No. DB 1672

> Measurements 28.4 x 34.6; t: 2.0

Colour Brown

Description

329

330

331

Roughly diamond-shaped fragment with two intact edges. Several empty stitch holes. Note the small patches of hair.

Cat. No. Find No. DB 945

> Measurements 23.2 x 37.5; t total: 3.6

Colour Brown

Remarks Comparable to DB 1509 (Cat.

No. 331); probably from the same

object

Description

Two pieces are secured by means of a passepoil, which is folded lengthwise. The edges of the leather on either side of the passepoil are folded for the reception of the leather thong running stitching. The leather's grain surface forms the outer surface. Passepoils are a feature in certain types of footwear, but the leather as well as the decoration makes it unlikely this is the case here. Sometimes passepoils were also used in other objects. Note the two diagonal impressed lines.

Cat. No. Find No. DB 1509 Measurements

17.4 x 66.6; t: 3.9 Colour Blackish grain surface; brown

flesh surface

Remarks Comparable to DB 945 (Cat. No.

330); probably from the same object

Description

Two pieces (one of which only a small edge survives) are secured by means of a passepoil, which is folded lengthwise. The edges of the leather on either side of the passepoil are folded for the reception of the leather thong running stitching. The leather's grain surface forms the outer surface. One of the two pieces of leather that is secured with the passepoil has five parallel diagonal impressed lines (decoration?).



DB 3006. *Obverse and reverse. Scale bar is* 10 cm.



DB 1672. Obverse and reverse.



DB 945. Obverse and reverse.



DB 1509. Obverse, side view and reverse.

Cat. No. Find No. DB 1508

Measurements 18.5 - 25.4 x 37.8; t: 18.8

Colour Greyish brown

Description

Small fragment, covered with relatively large leather thong stitches.

Cat. No. Find No. DB 785a, b

Measurements (a) 21.4 x 23.0; t: 3.1; 16.2 - 17.0 x

57.2;

(b) 16.2 - 17.0 x 57.2

Colour (a) Dark brown; (b) Brown

Description

333

- (a) Square fragment that consists of two layers, which are secured with small, relatively wide but regularly-spaced leather thong running stitches along three intact edges (the fourth edge is torn). Note that one of the layers is smaller, because it is torn off shorter relative to the other.
- (b) Roughly rectangular fragment, showing one intact long edge. Along the opposite edge runs a row of leather thong running stitches.

Cat. No. Find No. DB 1684a

334 Group DB 1684a-d

Measurements 7.7 - 21.5 x 123.0; t (including

edges): 23.8

Colour White, brown
Remarks See also Cat. No. 49

Description

Fragment that consists of two pieces of rawhide. One end of the bigger of the two increases slightly in width and shows two leather thongs that attach a curled fragment at right angles. Note the patch of red-brown hair.

Cat. No. Find No. DB 3008a, c-e

335 Group DB 2008a-e

Measurements (a) As folded: 66.3 - 69.6 x 245.0;

t: 4.5; t leather: 1.8; (c) 5.7 - 64.0 x 141.8; (d) 8.3 - 17.6 x 135.5; t: 6.2; (e) 24.2 - 40.0 x 190.0; t: 1.2

Colour (a), (c), (e) Black grain surface;

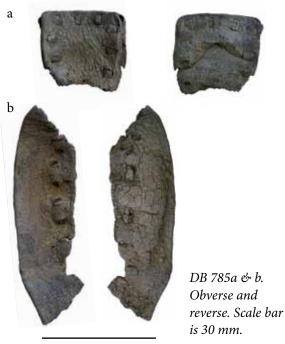
redbrown flesh surface; (d) Grey-

ish brown, black

Remarks See also Cat. No. 219



DB 1508. Obverse and reverse.





DB 1684a. Obverse, side view and reverse.

- (a) Featureless fragment of thin leather. In appearance it compares well with book cover leather.
- (c) Triangular, featureless fragment, except for two holes on the only small length of intact(?) edge; all other edges are torn. The tapering corner is folded.
- (d) Featureless, roughly rectangular piece, which is folded lengthwise.
- (e) Irregularly-shaped fragment with one square and one tapering end. Two pieces of leather, apparently belonging together originally, are repaired by inserting the broken ends of one into slits in the other (arrow). This construction is further secured with leather thong running stitches. The larger part of the two, which has the square end, has a slit lengthwise and about halfway down its length an sZ_4 flax(?) string has been pulled through. The function of the string is unknown. Possibly, it is tied with a hitch (text figure 7F).





DB 3008e. Obverse and reverse.

Cat. No. **336**

Find No. DB 3032

Measurements 42.7 - 69.8 x approximately 380;

t: 1.0

Colour One surface (flesh surface?) is brown,

the other (grain surface?) is black



DB 3008a. Obverse and reverse.



DB 3008c. Obverse and reverse.



DB 3008d. Overview.

Description

The fragment is of irregular width, but the long edges are mostly intact. One end has a small (12 mm long) slit, orientated lengthwise. On the other end there is, at about a quarter of the length, a 'V'-shaped slit (about 25 mm wide).





DB 3032. Obverse and reverse.

Cat. No. **337**

Find No. DB 780

Measurements

27.8 - 70.6 x 280.0; t folded: 9.9;

t leather: 1.5

Colour

One surface (flesh surface?) is

brown, the other (grain surface?)

is black

Description

Lengthwise folded fragment of irregular width. Several layers of cloth are sandwiched between the folded leather. The leather shows several holes through which some have a z-spun (and loosely Splied) string pulled that holds the textile fabric in place

place.

Cat. No. **338**

DB 2650

Measurements 145.0 x 215.0; t: 1.6

Colour Black grain surface; brown flesh

surface

Description

Find No.

Irregularly-shaped fragment. The black grain surface shows many cracks giving a crumbled texture. The flesh surface has an appearance of a latticework, the origin of which is unclear. At the only intact edge, two leather thong running stitches survive as well as four empty stitch holes.

Cat. No. **339**

Find No. DB 866

Measurements

37.4 x 42.8; t: 1.0

Colour

Dark brown grain surface; reddish

brown flesh surface

Description

The fragment tapers gently into a rounded end on one side. There are several empty stitch holes. More numerous, however, are stitch holes that contain z-spun flax(?) threads, apparently to attach another layer, which is now lost.



DB 780. Obverse and reverse.



DB 2650. Obverse and reverse.



DB 866. Obverse and reverse.

| Cat. No. | Find No. | DB 3726a, c |
|----------|----------|-------------|
| 340 | Group | DB 3726a-c |

Measurements (a) 29.7 - 46.7 x 30.1; t: 1.1; d patch:

24.0;

(c) 13.1-18.6 x 73.0 (curled); t: 2.6

Colour Brown

Remarks See also Cat. No. 193

Description

- (a) Trapezoid-shaped fragment, two edges of which are seemingly intact. One cut edge shows half of a circular, leather repair patch, that is secured along its edge with leather thong running stitches.
- (c) Small, narrow, curled fragment, showing one big leather thong stitch lengthwise down the middle.It appears that one long edge is intact; the short edges are torn.

| Cat. No. | Find No. | DB 3727a |
|----------|----------|-------------|
| 341 | Group | DB 3727a, b |

Measurements 43.0 - 68.1 x 96.4 (maximal); t: 1.0

Colour Brown

Remarks See also Cat. No. 220

Description

Roughly 'L'-shaped fragment, with one big patch in the corner, which is secured with leather thong running stitches. One end shows the attachment of a second, smaller repair(?). This is done with leather thong running stitches as well.

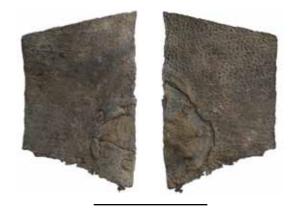
| Cat. No. | Find No. | DB 3724a |
|----------|--------------|---------------------|
| 342 | Group | DB 3724a-c |
| | Measurements | 44.6 x 76.0; t: 3.9 |

Colour Brown

Remarks See also Cat. No. 145

Description

Rectangular fragment but with slightly rounded long edges, one of which is intact. Stitch holes are still visible along the edge, in some of which are remnants of leather thong stitches *in situ*.



DB 3726a. Obverse and reverse.



DB 3726c. Obverse, side view and reverse.





DB 3727a. Obverse and reverse.



DB 3724a. Obverse and reverse.

| Cat. No. | Find No. | DB 3720 |
|----------|----------|---------|

Measurements 8.8 - 21.9 (folded) x 82.5; t edge:

4.4

Colour Brown

Description

343

344

Irregularly-shaped fragment, which consists of a sheet of leather, around the edge of which is folded a second thickness. This is, on the edge of the folded leather, secured with leather thong whip stitches.

| Cat. No. | Find No. | DB 3719 |
|----------|----------|---------|

Measurements 53.8 x 85.6; t: 1.2; hole: 4.9 x 13.8.

Triangular fragment: 31.3 x 15.1; t: 0.9. Rectangular fragment: 35.9

x 55.2; t: 1.6

Colour Brown

Remarks Two featureless fragments (one

triangular, the other rectangular) have not been sub-numbered/de-

scribed

Description

Roughly trapezoidal fragment with a relatively large slit close to one of the protruding edges. All edges but one seem to be intact.

| Cat. No. | Find No. | DB 3715b, c, i |
|----------|----------|----------------|
| 345 | Group | DB 3715a-i |

Measurements (b) 22.0 x 59.3; t: 1.1;

(c) 11.1 x 7.8 x 77.8;

(i) 16.8 x 61.5; t: 2.9

DB 3720. Obverse and reverse.



DB 3719. Obverview.



DB 3715b. Obverview.

Colour (b) Yellowish brown to brown;

(c), (i) Brown

Remarks See also Cat. No. 67, 257





DB 3715i. Obverse and reverse.

DB 3715c. Obverse and reverse.

- (b) Triangular rawhide fragment, in one corner of which is a large circular hole with slightly raised edges (*cf.* DB 3718d, Cat. No. 349).
- (c) Two lengthwise-coiled strips are attached by pulling one through a slit in the other. The construction is reinforced with several leather thong stitches (*cf.* 1643b, Cat. No. 320).
- (i) Irregularly-shaped fragment, showing, besides leather thong stitches along the only intact edge, several empty stitch holes across the entire surface.

Cat. No. **346**

 Find No.
 DB 3713b

 Group
 DB 3713a, b

 Measurements
 22.6 x 30.4; t: 1.3

Colour Brown

Remarks See also Cat. No. 51

Description

Small rectangular fragment with one intact edge(?). The fragment is perforated with many stitch holes.

Cat. No. **347**

Find No. DB 3711b, c
Group DB 3711a-c

Measurements (b) 36.8 x 46.2; t: 3.4;

(c) 14.5 - 20.7 x 42.6; t: 3.4

Colour (b) Blackish brown; (c) Brown

Remarks See also Cat. No. 53





DB 3713b. Obverse and reverse.



DB 3711b. Obverse and reverse.

Description

(b) Rectangular fragment with one short and one long intact edge. Along the long intact edge are rather coarse leather thong running stitches. Slightly inwards from the edge is a row of leather thong running stitches parallel to the edge;



DB 3711c. Obverse and reverse.

these are smaller in all respects. The stitches suggest at least one additional thickness, which is now lost.

(c) 'L'-shaped fragment with two pairs of stitch holes, in two of which are remnants of leather thong running stitches.

Cat. No. 348

Find No. DB 3705a-c

Measurements

(a) Approximately 46 x 110 x 55;

(b) 32.2 x 63.8 x 8.7; 50.5 x 77 x 45

Colour

(a) Brown; (b) Brown with greyish

black; (c) Reddish brown

Description

- (a) Crumpled fragment of leather that is heavily repaired. Might be upper's leather (cf. DB 3074, Cat. No. 101).
- (b) Probably from (a). Fragment that is much repaired, including a greyish black patch.
- (c) Featureless fragment. This entry includes two offcuts (not subnumbered/measured).



DB 3705a. Obverse and reverse.



DB 3705b. Obverse and reverse. DB 3705c. Overview.



Group Measurements

Find No.

Cat. No.

349

DB 3718a-d, f DB 3718a-f

(a) 32.0 x 42.2; t: 5.5;

(b) d: 10.5 x 11.9; l: 33.0;

(c) 17.9 - 42.2; t: 3.5;

(d) 32.0 x 52.5; t: 1.6;

(f) 10.5 x 35.2; t: 2.1





DB 3718a. Obverse and reverse. Scale bar is 30 mm.

Colour (a) Black grain surface; brown

flesh surface; (b) Greyish brown;

(c), (d), (f) Brown

Remarks See also Cat. No. 223

Description

- (a) Crescent-shaped fragment without features.
- (b) Hollow tube in one piece (*i.e.* no seams to secure the two edges of a coiled strip of leather), in which remain the remnants of two folded strips. The tube must have come from leather from an animal's leg or comparable. Piece of sandal's strap complex?
- (c) Roughly triangular fragment, without features except for one leather thong stitch.
- (d) Triangular fragment of rawhide, one corner of which shows a circular hole with raised edges (*cf.* 3715b, Cat. No. 345).
- (f) Teardrop-shaped fragment with a hole.

Cat. No. Find No. DB 3722

350

Measurements 35.6 - 42.0 x 89.4; t: 6.6

Colour Greyish brown

Remarks Small scrap included but not de-

scribed/subnumbered

Description

Nearly rectangular fragment (one long edge is incomplete) of intact width; the short ends, however, are broken off. Two thicknesses are secured (flesh to flesh surface[?]) along the long edges with leather thong running stitches. These appear short on the visible surface and long on the back side.

Cat. No. Find No. DB 3717a

351 Group DB 3717a, b

Measurements 53.0 x 75.1; t: 1.9; l slit: 21.5

Colour Brown

Remarks See also Cat. No. 225

Description

Colour

Triangular, featureless fragment except for a big slit in one corner.

Cat. No. Find No. DB 3714a

352 Group DB 3714a, b

Measurements 41.8 x 63.4

Remarks See also Cat. No. 93

Brown



DB 3718b-c. Obverse and reverse. DB 3718d & f. Overview. Scale bar b-c & f is 30 mm.



DB 3722. Obverse and reverse.



DB 3717a. Obverse and reverse.

Crumpled fragment of thin leather. Due to the fact that it proved too fragile to straighten it, a detailed description is not possible. However, fine leather thong running stitches are visible that suggest the presence of a repair patch. Note also several large leather thong stitches.

| Cat. | No. |
|------|-----|
| 35 | :3 |

Find No. DB 3709b Group DB 3709a, b

Measurements 29.9 x 61.3; t folded: 9.4; t: 1.6 Colour Black grain surface; brown flesh

surface

Remarks See also Cat. No. 54

Description

Two thicknesses (or perhaps one folded sheet of leather; this cannot be ascertained) are folded over by another thickness and secured with coarse leather thong stitches (*cf.* DB 3704a, Cat. No. 354 and DB 3799, Cat. No. 359).

| Cat. | No. |
|------|-----------|
| 35 | 54 |

Find No. DB 3704a, c, d, f
Group DB 3704a-f

Measurements (a) 9.2 x 66.5; t: 1.5;

(c) 26.4 x 39.2; t: 3.4; (d) 18.8 x 42.6; t: 2.4; (f) 39.2 - 49.8 x 117.8; t: 1.5

Colour (a), (b), (f) Black grain surface;

brown flesh surface; (d) Dark

brown

Remarks See also Cat. No. 55, 226, 252

Description

(a) Two thicknesses are folded over by another thickness and secured with coarse leather



DB 3714a. Obverse and reverse.



DB 3709b. Obverse and reverse.

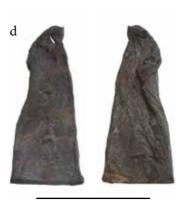


DB 3704a. Obverse and reverse.

c

- thong stitches (*cf.* DB 3709b, Cat. No. 353 and DB 3799, Cat. No. 359).
- (b) Small, rectangular and curved fragment with leather thong stitches. Fragment of sandal's sole?
- (d) Triangular fragment with one slit. Note the damage on one side, which goes lengthwise down the middle.
- (f) Featureless. Compares well with book cover leather.







DB 3704c, d & f. Obverse and reverse. Scale bar (d) is 30 mm.

Cat. No. **355**

Find No. DB 1903 Measurements 38.1 x 41

Colour Brown

Description

The small fragment has one intact, curved edge. Several leather thong running stitches are still *in situ*.

38.1 x 41.7; t: 1.8

Cat. No. **356**

Find No. DB 3703

Measurements 81.8 x 135.1; t: 1.9

Colour Black grain surface; brown flesh

surface

Description

Tapering and curved fragment with an intact edge, consisting of a folded part through which a leather thong is sewn (running stitch).

Cat. No. **357**

Find No. DB 3700a, b

Measurements (a) 22.1 x 36.7; t: 1.7;

(b) 7.3 - 15.5; l: 115.0; t: 1.5

Colour (a) Blackish grain surface; brown

flesh surface; (b) Light brown

Description

(a) Rectangular fragment with one long intact edge. Several stitch holes, some of which contain the remnants of leather thong stitches, run lengthwise down the length of the fragment.



DB 1903. Obverse and reverse.



DB 3703. Obverse and reverse.



(b) Narrow, rectangular fragment with one long intact edge with empty stitch holes parallel to it.

Cat. No. Find No. DB 3701a, b

Measurements (a) 13.0 x 60.0; t: 7.1;

(b) 16.1 - 27.8 x 80.0; t: 3.2

Colour (a) Grey outer surface but brown

inner; (b) Brown

Description

358

359

- (a) Well-made fragment, which is folded and secured with tiny leather thong running stitches (1 mm long, 3 mm wide and spacing of about 7 mm on both sides). Note the square edges (*cf.* for example DB 3795a, Cat. No. 360).
- (b) Fragment with a wide side that tapers towards a more or less triangular opposite end, which contains a slit. Some types of shoes include parts of a comparable shape, but the fragment here is torn on all sides.

Cat. No. Find No. DB 3799

Measurements 35.2 x 85.3; t folded: 10.2; t leather:

1.4

Colour Greyish brown to brown

Description

Two separate layers of leather are sandwiched between a folded thickness. The thus-created layers are secured with leather thong running stitches. Two featureless scraps are not sub-numbered/illustrated (*cf.* DB 3709b, Cat. No. 353 and DB 3704a, Cat. No. 354).

▼ *DB* 3799. *Obverse and reverse*.





DB 3700a & b. Obverse and reverse.





DB 3701a. Side view, obverse and reverse.; DB 3701 b. Obverse and reverse.



Cat. No.

360

Find No. DB 3795a
Group DB 3795a-d

Measurements 6.4 x 11.5 x 60.0 & 7.0 x 12.0 x 100

Colour Brown

Remarks See also Cat. No. 99



DB 3795a. Clockwise: obverse, reverse and side view.

Cat. No. **361**

Find No.

DB 3794a, b

Measurements

(a) 26.2 x 29.6; t: 1.9;

(b) 18.8 x 63.3; t: 1.2

Colour

(a) Black grain surface; brown

flesh surface; (b) Brown

Description

(a) Square fragment with rounded corners. Along the perimeter and lengthwise down the centre are tiny, closely-spaced leather thong running stitches. The object compares well with the 'insignia's' (Cat. No. 102-112), but it is doubtful whether it originates from such an object.

(b) Triangular fragment with two torn stitch holes.

Cat. No. **362**

Find No. Group DB 3770b DB 3770a, b

Measurements

4.6 - 28.8 x 111.6; t: 1.4

Colour

Reddish dark brown grain surface;

brown flesh surface

Remarks

See also the table with book cover

fragments on pp. 160

Description

Triangular, featureless fragment. There is, however, a single stitch.

Description

Two fragments of fairly thick leather, which are folded lengthwise and secured with small (about 2-3 mm long and 3 mm wide), widely but evenly-spaced (about 8 mm) leather thong stitches. Note that the stitches on both sides of the object are equally small. One fragment is curved. *Cf.* DB 3701a (Cat. No. 358).

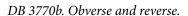


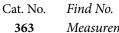
DB 3794a. Obverse and reverse. Scale bar is 30 mm.



DB 3794b. Obverse and reverse.







Measurements

17.7 - 26.7 x 56.4 x 29.6

Colour

Brown

DB 3762

Description

Crumpled, featureless fragment except for two incised, parallel lines on the grain surface. Note the big hole (arrow), seen in several other fragments (cf. for example DB 884, Cat. No. 287).

Cat. No. 364

Find No. DB 3755a, b

Measurements

(a) 4.1 - 15.4 x 50.1; t: 3.8;

(b) 39.8 x 60.5; t: 1.5

Colour

(a) Greyish brown; (b) Blackish grain surface; dark brown to black

flesh surface

Description

- (a) Tapering fragment with three sets of two stitch holes. One of the long edges is intact.
- (b) Roughly rectangular fragment with stitch holes on one of the long edges. The stretched appearance of the stitch holes strongly suggests whip stitching. Second, featureless scrap not numbered separately and not illustrated.

Cat. No. 365

Find No. DB 3763b Group DB 3763a, b Measurements 12.2 x 13.8 x 26.4

Colour Black grain surface; dark brown

flesh surface

Remarks See also Cat. No. 227



DB 3762. Obverse and reverse.



DB 3755a. Obverse and reverse. Scale bar is 30 mm.





DB 3755b. Obverse and reverse.



DB 3763b. Obverse and reverse.

Rectangular scrap with remnants of relatively large leather thong running stitches.

| Cat. No. | Find No. | DB 3786d |
|----------|--------------|----------------------|
| 366 | Group | DB 3786a-e |
| | Measurements | 32.1 x 32.7; t: 1.4 |
| | Colour | Light, reddish brown |

Remarks See also Cat. Nos. 59, 103, 153, 253

Description

Diamond-shaped featureless fragment. Note the cut in one of the corners.

| Cat. No. | Find No. | DB 3757b |
|----------|----------|------------|
| 367 | Group | DB 3757a-c |

Measurements 3.3 - 14.7 x 108.3 & 20.4 - 53.0 x

148.5

ColourGreyish brown to brownRemarksSee also Cat. No. 77, 228

Description

Cat. No. **368**

Irregularly-shaped fragments (not numbered separately), the larger one of which exhibits rows of stitch holes on its edges.

| Find No. | DB 3756a, b |
|----------|-------------|
| Group | DB 3756a-d |

Measurements (a) 76.7 x 26.2 - 76.1; t: 2.0;

(b) 42.0 x 79.2; t: 5.1

Colour (a), (b) Black grain surface; brown

flesh surface. The patch in (b) is

brown too

Remarks See also Cat. No. 155, 229



DB 3786d. Obverse and reverse.



DB 3757b. Obverse and reverse.



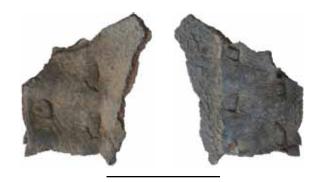
DB 3756a. Obverse and reverse.





DB 3756b. Obverse and reverse.

- (a) Irregularly-shaped fragment without features, except for a big leather thong attached through a hole on one of the corners.
- (b) Irregularly-shaped fragment. The original black leather surface is repaired with a big brown patch that is coarsely sewn with leather thong running stitches.



DB 3750. Obverse and reverse.

Cat. No. 369

Find No. DB 3750

26.0 - 26.4 x 20.7 - 39.2; t total: 4.0 Measurements

Colour Black on one side; brown on the

other

Description

Irregularly-shaped fragment that consists of two thicknesses, which are secured with two rows of leather thong running stitches.

Cat. No. 370

Find No. DB 3744

Measurements 12.3 - 26.6 x 13.2 - 53.4; t: 1.7 & 13.6

-74.4 x 475.0; t: 1.0. Strips: 4.0 - 9.5 x

260.0 & 4.0 - 9.0 x 483.0; t: 3.0

Colour Light, reddish to dark brown

Description

Large and small featureless fragments (not numbered separately). One fragment is triangular in shape. The find number includes two narrow strips, one of which is either repaired by means of a reef knot (text figure 7C) or attached to another piece (this is always difficult to tell with these kind of repairs/bends).



DB 3744. Obverse and reverse.

Cat. No. Find No. DB 3796

Measurements 28.9 x 38.1; t: 1.7

Colour Brown

Description

371

372

Cat. No.

374

Irregularly-shaped fragment with a row of empty

stitch holes parallel to one edge.

Cat. No. Find No. DB 3791

Measurements 29.0 x 68.0; t: 2.0 Colour Greyish brown

Description

Irregularly-shaped fragment with two rows of empty stitch holes parallel to the long edges.

 Cat. No.
 Find No.
 DB 3790b, d

 373
 Group
 DB 3790a-d

Measurements (b) 10.8 x 35.5; t: 2.1;

(d) 13.4 x 31.1; t: 1.6

Colour Brown

Remarks See also Cat. No. 57, 231

Description

(b) Rectangular, slightly tapering fragment with one intact long edge. Approximately in the middle of the length and width is a pair of stitch holes.

(d) Rectangular fragment with one intact long edge. Several stitch(?) holes.

Find No. DB 3789a, b

Measurements (a) 13.5 - 19.8 x 65.4; t total: 3.2;

(b) 10.6 - 36.2 x 190.0; t: 1.8

Colour (a) Dark greyish brown; (b) Light

reddish brown

Description

(a) Roughly rectangular fragment, slightly tapering towards one end, with a nearly rectangular patch that is secured along the edge with leather thong running stitches. It is doubtful whether this is a repair, as the original layer is not damaged.

(b) Tapering fragment without features, except for a relatively large hole at the wide end. Note the small patches of hair.



DB 3796. Obverse and reverse. Scale bar is 30 mm.



DB 3791. Obverse and reverse. Scale bar is 30 mm.



DB 3790b & d. Obverse and reverse. Scale bar is 30 mm.



DB 3789a. Obverse and reverse.

Unidentified



DB 3789b. Overview.

Cat. No. Find No. 375 Measurer

Find No. DB 3785

Measurements 29.2 x 58.4 x 9.1

Colour Brown, beige thread

Description

A leather sheet is folded, the edges of which are secured with double thread stitches (flax(?), zS₂).

Cat. No. Find No.

376

377

Find No. DB 3780a, b Measurements (a) 15.2 - 34.4

Measurements (a) 15.2 - 34.4 x 17.7; t: 3.2; (b) 36.4 x 48.3; t (folded): 4.6

Colour Brown

Description

(a) Roughly 'V'-shaped fragment with several stitch holes, in some of which are still remnants of leather thong stitches visible.

(b) Folded, featureless fragment.

Cat. No. Find No. DB 3776

Measurements 12.4 x 29.7 x 87.2

Colour Brown

Description

Two thicknesses are secured at their edges with leather thong running stitches. Note that the leather is folded around the seam, which is not original.

Cat. No. Find

378

Find No. DB 3774

Measurements 26.2 x 36.3; t: 2.7

Colour Greyish brown grain surface;

brown flesh surface



DB 3785. Obverse and reverse.



DB 3780a. Obverse and reverse. Scale bar is 30 mm.



DB 3780b. Obverse and reverse.



DB 3776. Obverse and reverse.





DB 3774. Obverse and reverse. Scale bar is 30 mm.

Irregularly-shaped fragment with several paired stitch holes with leather thong stitches (running stitch).

Cat. No. **379**

 Find No.
 DB 3783c

 Group
 DB 3783a-c

 Measurements
 30.4 x 64.3; t: 2.7

Colour Black grain surface; brown flesh

surface

Remarks See also Cat. No. 160, 234

Description

Featureless. The appearance compares well with some of the book cover leathers.

Cat. No. **380**

Find No. DB 3781a, b

Measurements (a) 23.0 x 34.4; t: 3.2;

(a) 23.0 x 34.4, t. 3.2,

(b) 12.4 x 26.0 & 13.5 x 30.2; t: 1.4 *Colour*(a) Reddish, dark brown to blac

our (a) Reddish, dark brown to black grain surface; brown flesh surface;

(b) Brown

Description

- (a) Nearly rectangular fragment of intact width; one short edge is intact as well. Lengthwise down the centre is a row of leather thong running stitches, one stitch of which, at the intact short end, runs to the corners. The sole intact stitch (the other is only indicated by means of the impression and discolouration) is finished by stitching it back into itself (arrow).
- (b) Two rectangular, featureless fragments.

Cat. No. Find No. 381 Measure

Find No. DB 3784a, b

Measurements (a) 17.7 x 27.8; t: 1.5;

(b) 16.4 x 77.2; t: 1.2

Colour (a) Brown; (b) Black grain surface;

brown flesh surface



DB 3783c. Obverse and reverse.



DB 3781a. Obverse and reverse. Scale bar is 30 mm.

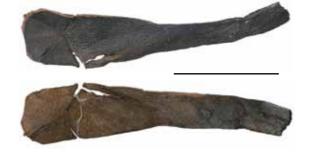




DB 3781b. Overview. Scale bar is 30 mm.



DB 3784a. Obverse and reverse. Scale bar is 30 mm.



DB 3784b. Obverse and reverse.

Unidentified



DB 3761a-c. Obverse and reverse views. Scale bar (a) is 30 mm.

Description

- (a) Nearly triangular fragment with four impressed circles on the obverse. This decoration is visible as black dots on the reverse.
- (b) Tapering fragment, the wider part of which has four cuts diagonally from the edge inwards. They stop shortly before touching each other, thus leaving a tiny centre in between them.

Cat. No. 382

Find No. DB 3761a-c

Measurements (a) 28.2 x 49.3; t: 2.1;

(b) 13.2 - 45.3 x 41.0; t: 2.0;

(c) 10.4 - 20.1 x 150.0; t folded: 2.2

Colour (a), (b) Brown; (c) Dark brown

grain surface; brown flesh surface

Description

- (a) Triangular fragment with stitch holes, in several of which are preserved the remnants of leather thong running stitches.
- (b) Irregularly-shaped, curled fragment, one edge of which has stitch holes containing some remnants of flax(?) stitches.
- (c) Rectangular, wide strip of leather of which one of the long edges is folded and sewn, judging from the large, coarse stitch holes.

Find No. DB 3771

Measurements 22.3 x 41.6; t: 2.5

Colour Brown

Description

Oval fragment with several stitch holes.



DB 3771. Obverse and reverse. Scale bar is 30 mm.

Cat. No. **383**





DB 3769. Obverse and reverse.

Cat. No.

Find No. DB 3769

384 Measurements

87.5 - 100.0 x 87.5 - 100.2; t: 2.2

Colour

Black grain surface; brown flesh

surface (text figure 3).

Description

Irregular, roughly square sheet of fairly thick, sturdy leather. In the middle, a square has been cut out. All edges are torn, except for a small part, which shows a seam that is made with leather thong whip stitches. Note that the stitching is done in a decorative fashion .

Cat. No. **385**

Find No. DB 3767

Measurements 19.8 - 28.4 x 31.6; t: 1.7 & 0.8

Colour Brown

Description

Roughly square fragment (but missing one corner) of one thin and one relatively thick layer of leather, which are secured with leather thong running stitches. The stitching runs along the edge and down the centre, which suggests the object is complete.

Cat. No. **386**

Find No. DB 3765a Group DB 3765a, b

Measurements 61.2 (curved) x 52.8 (maximal);

t: 9.6

Colour Brown and black
Remarks See also Cat. No. 161

Description

The circular object is distinctly curved. Two thick layers of leather are attached to each other by two rows of iron nails; eight are still *in situ*. These nails are meant for that purpose, as is clear from the fact that they are bent after penetrating the inner(?) layer.



DB 3767. Obverse and reverse. Scale bar is 30 mm.





DB 3765a. Obverse and reverse.

Cat. No. **387**

Find No. DB 3764a, b

Measurements

(a) 17.8 - 31.9 x 111.4; t leather:

2.1;

(b) 9.7 - 23.1 x 88.4; t: 1.4

Colour Black grain surface; brown flesh

surface

Description

- a) Roughly crescent-shaped fragment. In the middle a repair patch is added facing the flesh side of the underlying leather with its own flesh surface. It is attached to the leather with whip stitches. The fragment has no intact edges; it was also cut through the patch.
- (b) Featureless fragment.

Cat. No. **388**

Find No. DB 3782a, d-f
Group DB 3782a-f

Measurements (a) 18.1 - 54.9 x 32.0 - 50.5; t: 8.7;

(d) 19.4 x 29.1; t: 6.5; (e) 19.9 x 24.6; t: 2.1; (f) 2.6 x 28.7; t: 2.7

Colour Brown

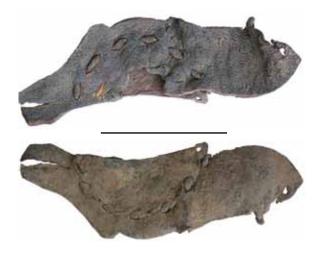
Remarks See also Cat. No. 162

Description

- (a) Although the structure as well as the stitching suggests that the object is part of a sandal's sole, the shape contradicts this interpretation. All but one edge seems to be intact, resulting in a corner of slightly less than 90°, an angle not seen in footwear (unless the part was cut off). The object consists of two layers. Additionally a strip runs along the edge. The layers are secured with leather thong running stitches.
- (d) Irregularly-shaped scrap with numerous stitches. Possibly part of a heavily repaired sandal.
- (e) Roughly rectangular fragment with four big stitch holes.
- (f) Rectangular, featureless fragment. One intact edge.



DB 3782d. Obverse and reverse. Scale bar is 30 mm.

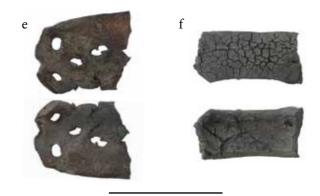


DB 3764a. Obverse and reverse.



DB 3764b. Obverse and reverse.





DB 3782e & f. Obverse and reverse. Scale bar is 30 mm.







DB 3448. Overview.





DB 3778a. Obverse and reverse.

■ DB 3778b. Obverse and reverse. Scale bar is 30 mm.

Cat. No. Find No.

DB 3446

Measurements Colour

43.5 - 75.7 x 37.4 x 105.5; t: 4.0 Black obverse; brown reverse

Description

Featureless, relatively large fragment.

Cat. No.

389

Find No. DB 3448

390 Measurements

25.4 x 35.9; t: 2.7 & 31.8 x 41.6;

t: 1.6

Colour

Black obverse; brown reverse

Description Featureless.

Cat. No. 391

Find No. DB 3778a, b

Measurements

(a) 19.6 - 39.2 x 82.7; t: 3.6;

(b) 28.4 - 36.4 x 44.2; t: 4.2

Colour

Greyish brown to brown

Description

(a) and (b) likely originate from the same object. Both are folded with stitch holes on only one side.

Cat. No. 392

Find No.

DB 3773a-c

Measurements

(a) 24.1 x 71.7; t: 13.7;

(b) 35.9 x 50.5; t: 6.5;

(c) 9.3 x 34.9; t: 3.0



Colour

- (a), (b) Greyish brown to brown;
- (c) Dark brown to black

Description

- (a) Strips of palm leaf, wrapped around with a strip of leather. To attach the leather, the end is stitched through one of the windings.
- (b) The edge of a triangular piece of leather is folded and secured with leather thong running stitches. A second strip of leather is folded around the edge, at right angles. It is secured with a stitch halfway down its length and at the opposite end of the folded part.
- (c) Small scrap, consisting for the larger part of a leather thong stitch.

| Cat. | No. |
|------|-----|
| 30 | 13 |

Find No. DB 3749a, b

Measurements (a) 48.8 x 85.7; t: 1.6;

(b) 48.4 x 58.5; t: 1.7

Colour (a) Brown; (b) Dark brown grain

surface; flesh surface is lighter

brown

Description

- (a) Triangular, featureless fragment, except for four slits (stitch holes) along one of the torn edges (only two edges are intact).
- (b) Triangular part, but with two extending corners. There is a row of stitch holes running parallel to the longest edge of the fragment.

| Cat. | No. |
|------|------------|
| 39 | 9 4 |

| Find No. | DB 3758b |
|--------------|----------------------|
| Group | DB 3758a, b |
| Measurements | 24.8 x 30.4; t: 2.8 |
| Colour | Brown to black |
| Remarks | See also Cat. No. 61 |

Description

Small featureless scrap.



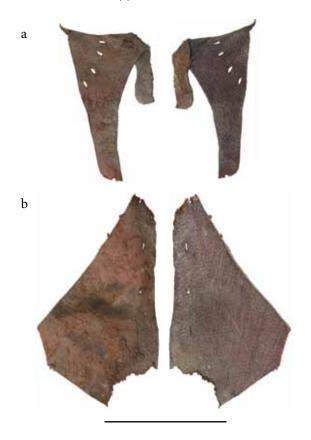
DB 3758b. Obverse and reverse.







DB 3773a. Overview; DB 3773b & c. Obverse and reverse. Scale bar (c) is 30 mm.



DB 3749a & b. Obverse and reverse.

Cat. No. **395**

Find No. DB 3741a, b

Measurements (a) 31.6 - 41.6 x 62.0; t: 2.1;

(b) 34.0 - 48.0 x 65.0; t folded: 5.9

Colour Brown

Description

(a) Featureless scrap.

(b) Fragment, folded lengthwise as well as transversely. One end shows several stitch(?) holes.

▶ V*DB* 3741a & b. Obverse and reverse.







Cat. No. **396**

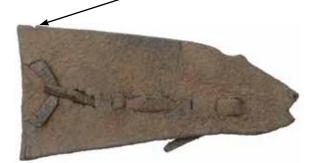
Find No. DB 3740

Measurements 7.6 - 27.3 x 56.2; t: 2.4

Colour Brown

Description

Roughly triangular fragment (one side is slightly curved and the point is truncated) with a row of running stitches lengthwise down the centre, which appear small on one side but large on the other. At the widest part of the fragment, one stitch runs diagonally towards the edge; on the reverse it extends horizontally to the other side where it is inserted again in order to form the opposing stitch on the obverse. The ends of both stitches are inserted into a slit and cut off. Note the triangular notch at the tapering end. On either side of the wide edge, one edge has a short cut, whereas the opposite edge has a shallow notch (arrow).





Cat. No. **397**

Find No. DB 3739

Measurements 15.1 x 53.7; t: 1.8

Colour Brown

Description

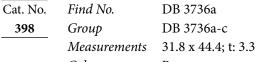
Rectangular edge fragment with, lengthwise, two pairs of stitch holes.

DB 3740. Obverse and reverse. Scale bar is 30 mm.

Unidentified



DB 3739. Obverse and reverse.



Colour Brown

Remarks See also Cat. No. 166, 235

Description

Irregularly-shaped fragment with remnants of the original edge. A row of leather thong running stitches runs slightly at an angle to the edge, which is the reason for doubting that the fragment is part of a sandal's sole.

| Cat. No. | Find No. | DB 3730 |
|----------|--------------|---------------------|
| 399 | Measurements | 15.8 x 44.8; t: 3.1 |
| | Colour | Greyish brown |
| | D 1. () | |

Description

Rectangular fragment of which the long edges are intact; the short edges, however, are torn off. Close to one of the short edges are four stitch holes (in which a remnant of the leather thong stitch is still in one of these). On the opposite edge is a single stitch hole with the remnants of a palm leaf(?) string.

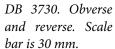
| Cat. No. | Find No. | DB 3733a, d, h |
|----------|--------------|---|
| 400 | Group | DB 3733a-h |
| | Measurements | (a) 14.0 x 23.3; t total: 5.6; t leath- |
| | | er: 1.3; |
| | | (d) 28.2 - 67.4 x 190.0; t: 1.7; |
| | | (h) 15.4 - 28.9 x 83.7; t: 2.3 |
| | Colour | (a) Brown; (d), (h) Light, reddish |
| | | brown |
| | Remarks | See also Cat. No. 194, 237 and the |

See also Cat. No. 194, 237 and the table with book cover fragments on pp. 160.



DB 3736a. Obverse and reverse. Scale bar is 30 mm.







DB 3733a. Obverse and reverse.

- (a) Irregularly-shaped, partly-folded fragment. On one end, a big tear is repaired with coarse leather thong stitches. Interestingly, there are two types of stitches (sailor stitch and running stitch, text figure 4 and 2 respectively), which might indicate two independent repairs.
- (d) Tapering fragment, showing paired stitch holes on one of the long edges. The width as well as the widest short edge is (largely) intact.
- (h) Roughly triangular fragment with a hole close to one of the corners. One of the opposite corners shows a small protrusion, which seems to be a stitch.

Cat. No. Find No. DB 3728

401

402

403

Measurements 24.3 x 48.7; t folded: 7.3

Colour Brown

Remarks The two small, featureless scraps

are not numbered separately

Description

Two irregularly-shaped fragments that are attached to each other by means of one big, long leather thong. The end of the piece to which the second thickness is attached has a hole at its tapering end.

Cat. No. Find No. DB 3731

Measurements 26.5 x 50.9; t: 2.5 Colour Light and dark brown

Description

Irregularly-shaped fragment to which a second thickness is attached with leather thong stitches. This additional piece is reddish brown in contrast to the fragment to which it is secured, which is dark brown. Interestingly, the stitches have the same colour as the thickness where they are visible. This suggests that the reddish brown fragment was coloured after it was sewn to the other layer. However, it cannot be entirely excluded that it is a feature of preservation.

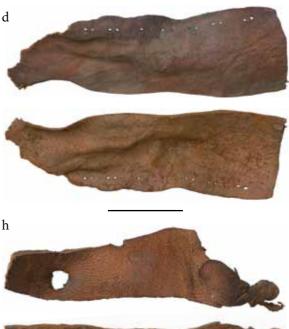
Cat. No. Find No. DB 3729

Measurements d: 9.3 x 12.8; w strip (= h object):

15.7

Colour Brown







DB 3733d & h. Obverse and reverse.



DB 3728. Obverse and reverse and two scraps in overview.



Coiled strip of leather. The construction is secured by stitching the outer end through the coil and, on the other side, back again, but this time not penetrating the entire coil (arrows).

| Cat. | No. |
|------|-----|
| 40 |)4 |

| Find No. | DB 3753a, c, d |
|----------|----------------|
| Group | DB 3753a-f |

Measurements (a) 17.0 - 26.3 x 105.5; t total: 11.6;

t leather: 3.6;

(c) 77.8 x 101.3; t: 3.5; (d) 19.3 x 27.4; t: 1.4

Colour (a), (c) Greyish brown; (d) Black

grain side; red-brown flesh

surface

Remarks See also Cat. No. 66, 254

Description

- (a) Rectangular, rather thick leather, which is folded ed lengthwise. The long edges show two stitch holes, with some still containing the remnants of leather thong stitches.
- (c) Much worn fragment without features.
- (d) Small, featureless scrap.

Cat. No. **405**

| Find No. | DB 3742a |
|----------|-------------|
| Group | DB 3742a, b |

Measurements 12.2 - 47.1 x 47.2 - 64.6; t folded:

4.6

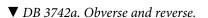
Colour Black grain surface; brown flesh

surface

Remarks See also Cat. No. 238

Description

Featureless, except for a single, narrow strip of leather that is woven through slits as decoration (arrow).







DB 3729. Obverse and reverse. Scale bar is 10 mm.



DB 3753a. Obverse and reverse.



DB 3753c. Overview.



DB 3753d. Obverse and reverse. Scale bar is 10 mm.



Cat. No. **406**

Find No. DB 3752a
Group DB 3752a, b

Measurements 24.4 x 102.2; t: 0.7 (measurements

of complete piece)

Colour One side is dark brown to black,

the other side is brown

Remarks See also Cat. No. 97

Description

Two fragments that fit together, forming a rectangular object of which the long edges are intact. Note the stitch holes, mainly situated on one side of the tear.

Cat. No. **407**

Find No. DB 3800

Measurements 12.8 x 80.9; t: 2.9

Colour Black grain surface; brown flesh

surface

Description

The fragment tapers on both sides, with a straight and a curved long edge. The two thicknesses are secured along the curved edge with leather thong stitches, appearing short (2 mm) on the grain surface (which is the visible surface) and long (6-7 mm) on the flesh surface. The layers are secured flesh to grain surface. Note, on the flesh surface, a small scrap of thin leather, which might be the remains of a third, much thinner layer.

Cat. No. **408**

Find No. DB 3451a, b

Measurements (a) 25.2 x 40.4; t: 0.8;

(b) 28.9 x 65.5; t: 1.1

Colour Black grain surface; brown flesh

surface

Description

(a) Small, curled fragment without features, except for two pairs of stitch holes on one of the edges.

(b) Rectangular, partially crumpled fragment with a row of stitch holes on both long edges. Probably part of a candal's sole

ably part of a sandal's sole.

Cat. No. **409**

Find No. DB 3464

Measurements 14.8 - 29.3 x 81.5; t: 1.5

Colour Greyish brown grain surface; red-

brown flesh surface

Description

Fragment of partially intact width. Lengthwise, it has three rows of slits. Remnants of a leather strap that is woven through these slits, suggests this was decorative rather than functional.



DB 3752a. Obverse and reverse.



DB 3800. Obverse and reverse.





DB 3451a & b. Obverse and reverse view.

Unidentified





DB 3464. Obverse and reverse view.

Cat. No. **410**

Find No. DB 1694

Measurements w loop: 6.3 - 25.3; l: 67.0; t loop:

8.7 - 9.7; t leather: 2.7

Colour Brown

Remarks Cf. text figure 43

Description

A thick strip of leather is folded. At the fold, the leather is distinctly narrower than at the ends. The

DB 1694. Obverse and reverse views. Cf. text figure 43.

ends are secured with whip stitching (original) and further secured (or repaired?) with seemingly random stitching. The two big stitches in the middle, at right angles to the edge, might have served another purpose than securing the two layers of the object proper. All stitching is done with leather thong.

APPENDICES

APPENDIX I NON-DIAGNOSTIC OFFCUTS ETC.

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | | Bemerkungen |
|---------|------|--------|----------|-------------------|----------------|-------|--------------|-------------|
| | | | | Ü | Offcut | Waste | Other | |
| 9 | 50 | - | 16* | F1 | 1 | 0 | 1 | - |
| 9 | 50 | - | 18* | F1 | 0 | 0 | 2 | - |
| 9 | 61 | - | 19* | A | 1 | 0 | 0 | - |
| 9 | - | - | 11* | Außenb Süd A | 0 | 0 | 1 | - |
| 9 | 61 | - | 20* | D | 1 | 0 | 2 | - |
| 9 | 49 | - | 13 | С | 0 | 0 | 2 | - |
| 9 | 50 | - | 12* | 7 | 0 | 0 | 1 | - |
| 9 | 62 | - | 20* | - | 0 | 0 | 1 | - |
| 9 | 61 | - | 21* | D | 0 | 0 | 1 | - |
| 9 | 61 | - | 20* | A | 0 | 0 | 2 | - |
| 9 | 61 | - | 22* | С | 0 | 0 | 2 | - |
| 9 | 61 | - | 18* | D | 0 | 0 | 5 | - |
| 9 | 61 | - | 16* | D | 0 | 0 | 1 | - |
| 15 | 54 | - | 28/29 | - | 2 | 0 | 3 | - |
| 9 | 50 | - | 14* | С | 0 | 0 | 1 | - |
| 9 | - | - | 11*C | Außenb Süd B | 0 | 0 | 2 (+ scraps) | - |
| 9 | 62 | - | 17* | - | 0 | 0 | 1 | - |
| 9 | 62 | - | 15* | - | 0 | 0 | 1 | - |
| 9 | 49 | - | 13 | A | 0 | 0 | 2 | - |
| 9 | 61 | - | 23* | D | 0 | 0 | 1 | - |
| 9 | 49 | - | 15 | В | 0 | 0 | 2 | - |
| 6 | 40 | 2 | 9 | - | 0 | 0 | 2 | - |
| 6 | 43 | - | 10 | - | 0 | 0 | 4 | - |
| 6 | 40 | - | 4 | 0 | 1 | 0 | 4 | - |
| 6 | 40 | - | 7 | Westhälfte | 5 | 0 | 9 | - |
| 6 | 40 | 1 | 9 | - | 1 | 0 | 1 | - |
| 6 | 40 | - | 5 | 0 | 8 | 0 | 9 | - |
| 6 | 40 | - | 8 | Nordhälfte/Z | 5 | 1 | 8 (+ scraps) | - |
| 15 | 56 | - | 30 | - | 1 | 0 | 3 | - |
| 6 | 41 | - | 6 | - | 0 | 0 | 2 | - |
| 6 | 40 | - | 10/Teilz | - | 1 | 0 | 2 | - |
| 6 | 40 | - | 7 | Südhälfte | 0 | 0 | 4 (+ scraps) | - |
| 6 | 44 | - | 8 | - | 1 | 0 | 0 | - |
| 6 | 40 | - | 8 | Befund 2 | 1 | 0 | 2 | - |
| 6 | 41 | - | 6 | - | 2 | 0 | 4 | - |

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | Bemerkungen | |
|---------|----------------|--------|----------|--|----------------|-------|--------------|---------------|
| | | | | Aligabeli | Offcut | Waste | Other | |
| 6 | 42 | - | 8 | Südhälfte | 0 | 0 | 6 | - |
| 6 | 40 | - | 9 | - | 2 | 0 | 12 | - |
| 6 | 44 | - | 81/Teilz | - | 0 | 0 | 3 | - |
| 6 | 41 | - | 5 | - | 2 | 0 | 3 | - |
| 6 | 40 | 2 | 10 | - | 0 | 0 | 1 | - |
| 6 | 40 | - | 6 | - | 8 | 0 | 2 | - |
| 6 | 40 | 1 | 10 | - | 2 | 0 | 5 | - |
| 6 | 40 | - | 10 | - | 9 | 0 | 12 | - |
| 6 | 41 | - | 11 | - | 1 | 0 | 3 | - |
| 1A Nord | 25 | 2B | 4 | Fundlage: 2.25, Bf, 2b | 1 | 0 | 0 | korb 1 |
| 1A Nord | 25 | 2A | 4 | - | 4 | 0 | 0 | korb 1 |
| 1A Nord | 26 | 1 | 1/3 | - | 2 | 0 | 15 | korb 1 |
| 1A Nord | 26 | 1 | 4 | - | 1 | 0 | 0 | korb 1 |
| 1A Nord | 26 | 1 | 6 | - | 4 | 0 | 2 | korb 1 |
| 1A Nord | 26 | 1 | 5 | - | 0 | 0 | 1 | korb 1 |
| 1A Nord | 25 | 2A | 3 | - | 4 | 0 | 6 | korb 1 |
| 1A Nord | 26 | 2 | 1/3 | - | 2 | 0 | 4 | korb 1 |
| 1A Nord | 25 | - | 4 | - | 0 | 0 | 1 | korb 1 |
| 1A Nord | 26 | 1 | 4 | - | 2 | 0 | 1 | korb 1 |
| 1A Nord | 26 | 2B | 4 | - | 0 | 0 | 1 | korb 1 |
| 1A Nord | 25 | - | 3 | Osthälfte | 0 | 0 | 2 | korb 1 |
| 1A Nord | 25 | 2 | 1 | - | 2 | 0 | 1 | korb 1 |
| 1A Sud | - | - | 1 | Fundlage 1 abhub | 0 | 0 | 13 | korb 1 |
| 1A Nord | 25 | 2 | 2 | - | 1 | 0 | 5 | korb 1 |
| 1A Nord | 25 | 2C | 4 | - | 0 | 0 | 1 | korb 1 |
| 1A Nord | 26 | 2B | 6 | - | 0 | 0 | 1 | korb 1 |
| 1A Nord | 25 | 1 | 4 | - | 0 | 0 | 1 | korb 1 |
| 1A Sud | 23 | - | 3 | Rundstruktur 2 (innen) | 0 | 0 | 6 (+ scraps) | korb 1 |
| 1A Nord | 25 | 2B | 3 | - | 0 | 0 | 1 | korb 1 |
| 2E | - | - | 1 | - | 0 | 0 | 1 | - |
| 2E | Korr- abram | - | 2 | - | 0 | 0 | 1 | - |
| 4 | - | - | 5 | Nordecke (Nordlich von G2) | 1 | 0 | 0 | - |
| 4/N | - | G79 | 6 | - | 0 | 0 | 1 | Komplex: nekr |
| 4/N | - | G83 | - | Bei der vorbereitunen von SK Bachit 5, bei stein A in pl. 14 | 0 | 1 | 0 | - |

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | | Bemerkungen |
|---------|-----------|--------|-------|-------------------|----------------|-------|-------|-------------|
| | | | | Allgabell | Offcut | Waste | Other | |
| 4 | - | G87 | 5 | _ | 0 | 0 | 1 | _ |
| 6 | 44B | 3 | 30 | - | 4 | 0 | 0 | - |
| 2C | Vorr- | | 11 | - | 0 | 2 | 4 | - |
| | abraum | | | | | | | |
| | Weststube | | | | | | | |
| | N | | | | | | | |
| 6 | 43 | - | 11 | - | 0 | 0 | 3 | - |
| 6 | 44B | - | 26 | - | 0 | 0 | 3 | - |
| 6 | 44B | - | 23 | - | 0 | 0 | 8 | - |
| 6 | 44B | - | 24 | - | 1 | 0 | 7 | - |
| 6 | 44B | 3 | 29 | - | 0 | 0 | 4 | - |
| 6 | 44B | - | 25 | - | 0 | 0 | 7 | - |
| 6 | 40 | 1 | 11 | - | 3 | 0 | 2 | - |
| 6 | - | - | 3 | Nordecke | 4 | 0 | 2 | - |
| 6 | - | - | 3 | Nord-West Ecke | 0 | 0 | 3 | - |
| 6 | 42 | - | 10 | Osthälfte | 1 | 0 | 5 | - |
| 6 | - | - | 2 | Nordecke | 1 | 0 | 1 | - |
| 6 | 42 | - | 10 | Westhälfte | 0 | 0 | 1 | - |
| 6 | 40 | - | 8 | Nordhälfte | 3 | 1 | 0 | - |
| 6 | 41 | - | 7 | - | 3 | 0 | 3 | - |
| 6 | 41 | - | 10 | - | 2 | 0 | 1 | - |
| 6 | 41 | - | 8 | - | 0 | 0 | 8 | - |
| 6 | 40 | 2 | 11 | - | 0 | 0 | 1 | - |
| 6 | 40 | - | 7 | Südhälfte/Z | 3 | 0 | 1 | - |
| 6 | 42 | - | 9 | Westhälfte | 1 | 1 | 3 | - |
| 6 | 41 | - | 4 | - | 0 | 0 | 1 | - |
| 6 | 40 | - | 4 | Westecke | 3 | 0 | 0 | - |
| 6 | 41 | - | 9 | - | 0 | 0 | 7 | - |
| 6 | 42 | - | 9 | - | 0 | 0 | 9 | - |
| 6 | - | - | 1 | - | 0 | 0 | 3 | - |
| 6 | 40 | - | 6 | - | 2 | 0 | 6 | - |
| 6 | 40 | - | 7 | - | 3 | 0 | 1 | - |
| 6 | 41 | 4 | 14 | - | 1 | 0 | - | - |
| 6 | 41 | - | 14 | Südost Ecke | 1 | 0 | 3 | - |
| 6 | 44 | - | 16 | - | 3 | 0 | 5 | - |
| 6 | 44 | - | 13 | - | 9 | 2 | 28 | - |
| 6 | 44 | - | 15 | - | 1 | 0 | 3 | - |
| 6 | 44 Süd | - | 19 | - | 1 | 0 | 2 | - |
| 6 | 44 | - | 18/1 | - | 2 | 0 | 3 | - |
| 6 | 44 | - | 16 | - | 1 | 0 | 9 | - |
| 6 6 | 44 44 | - | 14 | - | 0 | 0 | 2 | - |
| 6 | | - | 14 | - | 1 | 0 | 2 | - |
| | 41 | - | 14 | - | 0 | | 5 | - |
| 6 | 44 | - | 12 | - | 3 | 0 | 5 | - |

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | nt | Bemerkungen |
|------------|------|--------|-------|----------------------------|----------------|-------|---------------|---------------------------------|
| | | | | Aligabeli | Offcut | Waste | Other | |
| 6 | 44 | - | 10 | - | 1 | 1 | 10 | - |
| 6 | 44 | - | 18/2 | - | 1 | 0 | 3 | - |
| 6 | 41 | - | 13 | Bereich Q | 0 | 0 | 1 | - |
| | | | | Nordlich der Südost Tür | | | | |
| 6 | 41 | - | 13 | - | 0 | 0 | 2 (+ scraps) | - |
| 6 | 44 | - | 14 | - | 4 | 1 | 7 | - |
| 6 | 41 | - | 15B | Südost-EQ | 0 | 0 | 1 | - |
| 6 | 44 | - | 11 | - | 1 | 0 | 4 | - |
| 6 | 41 | - | 13 | Nordost Ecke | 1 | 0 | 3 | - |
| 6 | 44 | - | 9 | - | 1 | 0 | 7 | - |
| 6 | 40 | 1 | 12 | - | 1 | 0 | 1 | - |
| 6 | 40 | - | 14 | - | 0 | 0 | 5 | - |
| 6 | 44 | - | 18 | 0 | 3 | 1 | 2 | - |
| 6 | 40 | - | 11 | - | 6 | 0 | 1 | - |
| 6 | 40 | - | 12 | - | 3 | 1 | 3 | - |
| 6 | 44 | - | 17 | - | 5 | 0 | 9 | - |
| 6 | 44 | - | 12 | - | 3 | 0 | 9 | - |
| 6 | 44 | - | 15 | - | 1 | 0 | 3 | - |
| ZG Ost I | - | - | 25 | Ab SQ4 D | 0 | 0 | 4 | - |
| ZG Ost II | - | - | 21 | - | 0 | 0 | 5 | - |
| ZG Ost III | 52 | - | 23 | - | 0 | 0 | 1 | - |
| ZG Ost I | - | - | 24 | Abschnitt B | 0 | 0 | 1 | - |
| ZG Ost I | - | - | 23 | Abschnitt D | 2 | 1 | 4 | - |
| 13 | 51B | - | 15B | - | 0 | 0 | 1 | - |
| 13 | 10 | 13 | 11 | Quadrant IV | 0 | 0 | 1 | - |
| 13 | 51B | - | 2 | - | 0 | 0 | 3 | - |
| 13 | 10 | - | 5 | Quadrant II | 2 | 1 | 0 | - |
| 13 | 51B | - | 4 | - | 1 | 0 | 3 | - |
| 13 | 10 | - | 11 | Quadrant III | 0 | 0 | 1 | - |
| 13 | 10 | - | 5 | Quadrant I | 0 | 2 | 2 | - |
| 13 | 10 | - | 9 | Quadrant III | 0 | 0 | 1 | - |
| 13 | 10 | - | 18 | Quadrant III Südteil | 0 | 0 | 7 | Abhub: Profilsteg begradigen |
| 13 | 51B | - | 8 | - | 1 | 0 | 5 | - |
| 9 | - | - | 5 | Außenbereich | 0 | 0 | 2 | - |
| 11B | - | - | 9 | Außenbereich | 0 | 0 | 10 (+ scraps) | - |
| 9 | 49 | - | 11 | - | 0 | 0 | 2 | - |
| 9 | 47 | - | 6 | Ost | 0 | 0 | 2 | - |
| 9 | - | - | 2 | Nord Abschnitt | 1 | 0 | 9 | - |
| 9 | 49 | - | 14 | - | 0 | 0 | 6 | - |
| 9 | - | - | 7 | Außenbereich Süd | 0 | 0 | 1 | - |

| Schnitt | Raum | Befund | Abhub | Nähere | Leder Fragment | | t | Bemerkungen |
|---------|----------|--------|-------|------------------------|----------------|-------|---------------|-------------|
| | | | | Angaben | Offcut | Waste | Other | |
| 9 | 48 | - | 5 | - | 1 | 0 | 4 | - |
| 9 | 49 | - | 15A | - | 0 | 0 | 2 | - |
| 9 | 49 | - | 6 | - | 0 | 0 | 1 | - |
| 7 | - | 2 | 7 | Ost Abschnitt B | 1 | 6 | 9 | - |
| 7 | - | - | 5 | Ost Abschnitt B | 0 | 1 | 3 | - |
| 7 | - | 2 | 6 | Ost Abschnitt B | 0 | 2 | 0 | - |
| 7 | - | - | 4 | Ost Abschnitt B | 0 | 2 | 2 | - |
| 7 | - | - | 2 | Ost Abschnitt B | 0 | 0 | 2 | - |
| 7 | - | - | 3 | Ost Abschnitt B | 0 | 1 | 0 | - |
| 8 | - | - | 7 | Ost Abschnitt B | 5 | 6 | 5 | DB 3737 |
| 7 | - | - | 1 | Ost Abschnitt B | 0 | 0 | 3 | - |
| 2A | - | - | 4 | Süd Abschnitt | 0 | 0 | 2 | - |
| 2A | - | - | 5 | - | 0 | 3 | 3 | - |
| 2A | - | - | 8 | Nord-West Ecke | 0 | 0 | 1 | - |
| 2A | - | 1 | 8 | - | 0 | 0 | 1 | - |
| 2A | - | - | 5 | - | 0 | 0 | 1 | - |
| 2A | - | 1 | 7 | - | 0 | 0 | 4 | - |
| 2A | - | - | 1 | - | 0 | 0 | 2 | - |
| 2A | - | - | 6 | - | 0 | 0 | 3 | - |
| 3 | 23 | - | 8 | Süd | 1 | 1 | 3 | - |
| 3 | 39 | - | 9 | - | 0 | 0 | 5 | - |
| 3 | 39 | - | 7 | Nordhälfte | 1 | 1 | 0 | - |
| 3 | - | - | 5 | Nord Quadrant R 3.5 | 0 | 0 | 2 | - |
| 3 | - | - | 5 | Südwest Quad- rant | 0 | 0 | 1 | - |
| 3 | 39 | - | 8 | - | 0 | 0 | 2 | - |
| 3 | - | - | 3 | Nord-West | 1 | 2 | 5 | - |
| | | | | Quadrant | | | | |
| 3 | 39 | - | 6 | Nordhälfte | 0 | 0 | 2 | - |
| 3 | - | - | 5 | Nord-West | 0 | 0 | 4 | - |
| | | | | Quadrant | | | | |
| 3 | 39 | - | 6 | Südhälfte | 0 | 0 | 1 | - |
| 3 | 23 Süd | - | 7 | Südhälfte | 0 | 0 | 2 (+ scraps) | - |
| 3 | 39 | - | 11 | - | 0 | 0 | 3 | - |
| 3 | 23 Süd | - | 8 | R 5.5, innere einbaut | 0 | 0 | 1 | - |
| 3 | 39 | - | 10 | - | 0 | 0 | 2 | - |
| 3 | - | - | 4 | Nord-West Quadrant | 0 | 0 | 12 (+ scraps) | - |
| 3 | 23 Süd | - | 7 | Nordhälfte | 0 | 0 | 12 (+ scraps) | - |
| 2F | Vor- | - | 1 | - | 0 | 2 | 0 | - |
| | ratsraum | | | | | | | |
| 8 | - | - | 3 | - | 5 | 8 | 18 | - |

Appendices

| Note | Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | | Bemerkungen |
|---|---------|---------|--------|-------|-----------------------|----------------|-------|-------|------------------|
| 8 - - 5 - 1 7 6 - 1 1 6 - 1 1 6 - 1 1 6 - 1 1 6 - 1 1 6 - - 6 - 17 1 5 photo 9 - 6 8 - - 6 - 17 1 5 photo 9 - 6 0 4 - 9 - 6 0 4 - - 8 - - 1 1 0 2 0 1 - - 8 - - 1 1 - - 1 - - 8 - - - 8 - - - 8 - - - 1 - - - - - - - - - - - <td< th=""><th></th><th></th><th></th><th></th><th>Aligabeli</th><th>Offcut</th><th>Waste</th><th>Other</th><th></th></td<> | | | | | Aligabeli | Offcut | Waste | Other | |
| 8 - - 5 - 1 7 6 - 1 1 6 - 1 1 6 - 1 1 6 - 1 1 6 - 1 1 6 - - 6 - 17 1 5 photo 9 - 6 8 - - 6 - 17 1 5 photo 9 - 6 0 4 - 9 - 6 0 4 - - 8 - - 1 1 0 2 0 1 - - 8 - - 1 1 - - 1 - - 8 - - - 8 - - - 8 - - - 1 - - - - - - - - - - - <td< td=""><td>8</td><td>-</td><td>-</td><td>5</td><td>-</td><td>1</td><td>7</td><td>4</td><td>-</td></td<> | 8 | - | - | 5 | - | 1 | 7 | 4 | - |
| 8 - - 6 - 0 5 9 - - 8 - 2 7 - 15 15 34 + scraps (photo Boto Boto Boto Boto Boto Boto Boto | | - | - | | - | | | | - |
| 8 - 2 7 - 15 15 34 + scraps (photo photo phot | | - | - | | - | | | | - |
| 8 - - 6 - 17 1 5 photo 8 - - 4 - 0 3 144 - 8 - - 9 - 6 0 4 - 8 - 5 11 - 1 0 2 - 8 - 5 11 - 1 0 2 - 8 - - 18 - 0 3 0 - 8 - - 1 - 0 2 0 - 8 - - 7 - 2 0 2 1 - 8 - - 7 - 2 0 1 - - 1 - - 2 1 1 - - 2 1 - - 2 1 1 <td< td=""><td>8</td><td>-</td><td>-</td><td>6</td><td>-</td><td>0</td><td>5</td><td>9</td><td>-</td></td<> | 8 | - | - | 6 | - | 0 | 5 | 9 | - |
| 8 - - 4 - 0 3 14 - 8 - - 9 - 6 0 4 - 8 - 5 11 - 0 0 1 - 8 - - 18 - 0 0 3 - 8 - - 18 - 0 0 3 0 8 - - 6 - 0 2 0 2 8 - - 6 - 0 2 0 - 8 - - 8 - 7 2 11 - 8 - - 8 - - 2 11 - 8 - - 10 - 4 2 25 - 8 - - 11 - 17 <td< td=""><td>8</td><td>-</td><td>2</td><td>7</td><td>-</td><td>15</td><td>15</td><td>34</td><td>+ scraps (photo)</td></td<> | 8 | - | 2 | 7 | - | 15 | 15 | 34 | + scraps (photo) |
| 8 - - 9 - 6 0 4 - 8 - 5 10 - 0 0 1 - 8 - 5 11 - 1 0 2 - 8 - - 1 - 0 3 0 - 8 - - 6 - 0 2 0 23 - 8 - - 7 - 2 0 23 - 8 - - 7 - 2 0 23 - 8 - - 8 - 7 2 11 - 8 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </td <td>8</td> <td>-</td> <td>-</td> <td>6</td> <td>-</td> <td>17</td> <td>1</td> <td>5</td> <td>photo</td> | 8 | - | - | 6 | - | 17 | 1 | 5 | photo |
| 8 - 5 10 - 0 0 1 - 8 - 5 11 - 1 0 2 - 8 - - 18 - 0 0 3 - 8 - - 6 - 0 2 0 - 8 - - 6 - 0 2 0 - 8 - - 6 - 0 2 0 23 - 8 - - 8 - 7 2 11 - - 8 - - 8 - - 8 - - 11 - - 96 25 47 - - 18 - - 11 - - 11 - - 11 - - 11 - - 11 - - | 8 | - | - | 4 | - | 0 | 3 | 14 | - |
| 8 - 5 11 - 1 0 2 - 8 - - 18 - 0 0 3 - 8 - - 1 - 0 2 0 - 8 - - 7 - 2 0 23 - 8 - - 7 - 2 0 23 - 8 - - 7 - 2 0 23 - 8 - - 8 - 7 2 11 - 8 - - 8 - 3 0 10 - 8 - - 11 - 5 0 10 - 8 - - 11 - 17 9 20 - 8 - - 15 - 0 | 8 | - | - | 9 | - | 6 | 0 | 4 | - |
| 8 - - 18 - 0 3 0 - 8 - - 1 - 0 3 0 - 8 - - 6 - 0 2 0 - 8 - - 7 - 2 0 23 - 8 - 1 7 - 96 25 47 - 8 - 1 7 - 96 25 47 - 8 - 1 1 - 5 0 10 - 8 - 5A 12 - 2 0 1 - 8 - - 11 - 5 0 10 - 8 - - 15 - 0 2 13 - 8 - - 15 - 0 | 8 | - | 5 | 10 | - | 0 | 0 | 1 | - |
| 8 - - 1 - 0 3 0 - 8 - - 6 - 0 2 0 - 8 - - 7 - 2 0 23 - 8 - - 8 - 7 2 11 - 8 - - 1 7 - 96 25 47 - 8 - - - 8 - 3 0 10 - 8 - - 11 - 5 0 10 - 8 - - 10 - 4 2 25 - 8 - - 15 - 0 2 13 - 8 - - 15 - 0 2 13 - 8 - - 18 | 8 | - | 5 | 11 | - | 1 | 0 | 2 | - |
| 8 - - 6 - 0 2 0 - - 8 - - 8 - - 2 0 23 - - 8 - - 2 11 - - 8 - - 2 11 - - 8 - - 8 - - - 8 - | 8 | - | - | 18 | - | 0 | 0 | 3 | - |
| 8 - - 7 - 2 0 23 - 8 - - 8 - 7 2 11 - 8 - 1 7 - 96 25 47 - 8 - - 8 - 3 0 10 - 8 - - 11 - 5 0 10 - 8 - - 10 - 4 2 25 - 8 - - 11 - 17 9 20 - 8 - - 15 - 0 2 13 - 8 - - 15 - 0 2 13 - 8 - - 18 - 0 4 0 3 - 8 - - 19 - | 8 | - | - | 1 | - | 0 | 3 | 0 | - |
| 8 - - 1 - - 1 - | 8 | - | - | 6 | - | 0 | 2 | 0 | - |
| 8 - 1 7 - 96 25 47 - 8 - - 8 - 3 0 10 - 8 - 5A 12 - 2 0 1 - 8 - - 11 - 5 0 10 - 8 - - 10 - 4 2 25 - 8 - - 15 - 0 2 13 - 8 - - 15 - 0 2 13 - 8 - - 2 Südliche 2 3 5 - 8 - 7 18 - 0 4 0 - 1 8 - - 19 - 0 0 3 - 8 - - 1 - <td>8</td> <td>-</td> <td>-</td> <td>7</td> <td>-</td> <td>2</td> <td>0</td> <td>23</td> <td>-</td> | 8 | - | - | 7 | - | 2 | 0 | 23 | - |
| 8 - - 8 - 3 0 10 - 8 - 5A 12 - 2 0 1 - 8 - - 11 - 5 0 10 - 8 - - 10 - 4 2 255 - 8 - - 15 - 0 2 13 - 8 - - 15 - 0 2 13 - 8 - - 15 - 0 2 13 - 8 - - 15 - 0 2 13 - 8 - - 18 - 0 4 0 0 - 8 - - 19 - 0 0 3 - 8 - - 1 - | 8 | - | | 8 | - | 7 | | | - |
| 8 - 5A 12 - 2 0 1 - 8 - - 11 - 5 0 10 - 8 - - 10 - 4 2 25 - 8 - - 15 - 0 2 13 - 8 - - 15 - 0 2 13 - 8 - - 2 Südliche 2 3 5 - 8 - - 2 Südliche 2 3 5 - 8 - - 18 - 0 4 0 - 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 1 1 2 1 1 1 1 1 | 8 | - | 1 | | - | | | | - |
| 8 - - 11 - 5 0 10 - 8 - - 10 - 4 2 25 - 8 - - 11 - 17 9 20 - 8 - - 15 - 0 2 13 - 8 - - 2 Südliche 2 3 5 - 8 - - 18 - 0 4 0 - 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 6 - 0< | | - | | | - | | | | - |
| 8 - - 10 - 4 2 255 - 8 - - 11 - 17 9 20 - 8 - - 15 - 0 2 13 - 8 - - 2 Südliche 2 3 5 - 8 - - 2 Südliche 2 3 5 - 8 - - 18 - 0 4 0 - 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 1(+ scraps) - 18 Nord 31 - 10 | 8 | - | 5A | | - | | | | - |
| 8 - - 1 - 17 9 20 - 8 - - 15 - 0 2 13 - 8 - - 2 Südliche 2 3 5 - R - - 2 Südliche 2 3 5 - R - - 18 - 0 4 0 - 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 1(+ scraps) - 18 Nord 31 - 10 | | - | - | | - | | | | - |
| 8 - - 15 - 0 2 13 - 8 - - 2 Südliche 2 3 5 - 8 - - 2 Südliche 2 3 5 - 8 - 7 18 - 0 4 0 - 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 7 - 1 2 12(+scraps) - 18 Nord 31 - 6* | | - | - | | - | | | | - |
| 8 - - 2 Südliche versich 2 3 5 - 8 - 7 18 - 0 4 0 - 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 8 - - 1 - 9 0 7 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 1 (+ scraps) - 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - | | - | - | | - | | | | - |
| 8 - 7 18 - 0 4 0 - 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 8 - - 4 - 9 0 7 - 8 - - 4 - 9 0 7 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 7 - 1 2 12 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 5 | | - | - | | | | | | - |
| 8 - 7 18 - 0 4 0 - 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 8 - - 4 - 9 0 7 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 6* Stegabbau 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - <td< td=""><td>8</td><td>-</td><td>-</td><td>2</td><td></td><td>2</td><td>3</td><td>5</td><td>-</td></td<> | 8 | - | - | 2 | | 2 | 3 | 5 | - |
| 8 - - 19 - 0 0 3 - 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 8 - - 4 - 9 0 7 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 6* Stegabbau 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - | _ | | _ | | | | | | |
| 8 - - 14 - 1 1 2 - 8 - - 1 - 0 0 3 - 8 - - 4 - 9 0 7 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 6* Stegabbau 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> | | - | | | | | | | - |
| 8 - - 1 - 0 0 3 - 8 - - 4 - 9 0 7 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 6* Stegabbau 0 0 1 - 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<> | | | | | | | | | - |
| 8 - - 4 - 9 0 7 - 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 6* Stegabbau 0 0 4 - 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 10 Osthälfte 0 4 5 - 5 - | | | - | | - | | | | - |
| 8 - - 17 - 0 0 3 - 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Nord 31 - 7 - 1 2 12 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 4 5 - 5 - | | - | - | | - | | | | - |
| 18 Süd 27 - 11 Westecke 0 0 6 - 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Süd 27 - 7 - 1 2 12 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 6* Stegabbau 0 0 4 - 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 0 4 5 5 - - 10 Osthälfte 0 10 11 - 5 </td <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> | | - | - | | - | | | | - |
| 18 Süd 27 - 6 - 0 0 1 (+ scraps) - 18 Süd 27 - 7 - 1 2 12 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 0 4 - 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - | | - 27 | - | | - Mostacko | | | | - |
| 18 Süd 27 - 7 - 1 2 12 (+ scraps) - 18 Nord 31 - 10 - 0 0 1 - 18 Süd 28 - 6* Stegabbau 0 0 4 - 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 0 4 - 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - - 8 Eingemessen 0 0 2 (+ scraps) - | | | - | | westecke | | | | - |
| 18 Nord 31 - 10 - 0 0 1 - 18 Süd 28 - 6* Stegabbau 0 0 4 - 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 0 4 - 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - - 8 Eingemessen 0 0 2 (+ scraps) - | | | _ | | _ | | | | _ |
| 18 Süd 28 - 6* Stegabbau 0 0 4 - 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 0 4 - 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - - 8 Eingemessen 0 0 2 (+ scraps) - | | | _ | | _ | | | _ | _ |
| 18 Nord 31 - 3 - 0 0 1 - 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 0 4 - 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - - 8 Eingemessen 0 0 2 (+ scraps) - | | | _ | | Stegabbau | | | | _ |
| 18 Nord 31 - 5 - 0 0 1 - 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 0 4 - 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - - 8 Eingemessen 0 0 2 (+ scraps) - | | | _ | | - | | | | _ |
| 18 Nord 31 - 6 - 1 2 3 - 18 Nord 31 - 13 - 0 0 4 - 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - - 8 Eingemessen 0 0 2 (+ scraps) - | | | _ | | - | | | | _ |
| 18 Nord 31 - 13 - 0 0 4 - 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - - 8 Eingemessen 0 0 2 (+ scraps) - | | | _ | | _ | | | | - |
| 5 - - 10 Osthälfte 0 4 5 - 5 - - 9 Osthälfte 0 10 11 - 5 - - 8 Eingemessen 0 0 2 (+ scraps) - | | | - | | _ | | | | - |
| 5 9 Osthälfte 0 10 11 - 5 - 8 Eingemessen 0 0 2 (+ scraps) - | | | - | | Osthälfte | | | | - |
| 5 8 Eingemessen 0 0 2 (+ scraps) - | | - | - | | | | | | - |
| 2005-5-8 | | - | - | | Eingemessen in planum | | | | - |

| Schnitt | Raum | Befund | Abhub | Nähere | Leder Fragment | | ıt | Bemerkungen |
|---------|------|--------|----------------|--------------------------|----------------|-------|---------------|-------------|
| | | | | Angaben | Offcut | Waste | Other | |
| 5 | - | _ | 5 | _ | 0 | 0 | 25 | _ |
| 5A | - | - | 15 | Nord, unter | 0 | 0 | 9 | - |
| | | | | munaboden | | | | |
| 5/5A | - | - | sonder | Nordliche | 0 | 3 | 0 | - |
| | | | Abhub I | Mauer IV | | | | |
| 5A | - | - | sonder | Nordliche | 0 | 0 | 1 | - |
| | | | Abhub III (=3) | Mauer IV | | | | |
| 5 | _ | _ | 3 | _ | 0 | 2 | 4 | _ |
| 5 | _ | _ | 15 | Nord-West | 0 | 0 | 3 | - |
| 5 | - | - | 15 | Süd-Ost | 1 | 1 | 0 | - |
| 5 | - | - | 11 | Süd-Ost | 1 | 0 | 0 | - |
| 5A | - | - | 2 | Norden | 1 | 0 | 0 | - |
| 5A | - | - | 5 | - | 0 | 0 | 4 | - |
| 5 | - | - | 12 | Süd-West | 2 | 0 | 1 | - |
| 5A | - | - | 10 | - | 1 | 2 | 12 | - |
| 5A | - | 5 | 12 | - | 0 | 0 | 2 | - |
| 5 | - | - | 11 | Nord-Ost | 4 | 2 | 2 | - |
| 5A | - | - | 14 | Unter Muna- | 0 | 0 | 2 | - |
| 5 | | | 17 | boden, Nored Süd-West | 2 | 4 | 0 | |
| 5 5A | - | 6 | 17 15 | sud-west - | 3 | 4 0 | 0 1 | - |
| 12 | 10 | - | 2 | Nord-West | 0 | 0 | 10 (+ scraps) | - |
| 12 | 10 | | 2 | Quadrant | Ü | · · | 10 (1 derupo) | |
| 12 | 10 | - | 8 | Nord-West | 2 | 2 | 19 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 6 | Nord-West | 0 | 2 | 13 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 3 | Nord-Ost | 3 | 1 | 12 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 9 | Nord-West | 5 | 1 | 23 | - |
| | 4.0 | | _ | Quadrant | • | | | |
| 12 | 10 | - | 5 | Nord-West | 0 | 1 | 17 | - |
| 12 | 10 | 1 | 6 | Quadrant - | 6 | 1 | 20 | |
| 12 | 10 | - | 1 | - Nord-West | 0 | 0 | 4 | _ |
| 12 | 10 | | 1 | Quadrant | Ü | Ü | 1 | |
| 12 | 10 | - | 1 | Nord-Ost | 0 | 1 | 6 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 4 | Nord-West | 0 | 0 | 6 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 4 | Nord-Ost | 2 | 5 | 6 | - |
| | | | | Quadrant | | | | |

| Schnitt | Raum | Befund | Abhub | Nähere | Leder Fragment | | | Bemerkungen |
|---------|------|--------|-------|----------------|----------------|-------|-------|-------------|
| | | | | Angaben | Offcut | Waste | Other | |
| 12 | 10 | - | 7 | Nord-West | 0 | 3 | 40 | - |
| | | | | Quadrant | _ | | _ | |
| 12 | 51A | - | 2 | - | 0 | 0 | 7 | - |
| 12 | 10 | - | 2 | Nord-Ost | 0 | 2 | 5 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 6 | Nord-Ost | 0 | 2 | 3 | - |
| | | | | Quadrant | | | | |
| 12 | 51A | - | 3 | - | 0 | 2 | 3 | - |
| 12 | 10 | - | 6 | Süd-West | 0 | 0 | 1 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 11 | Süd-West | 0 | 0 | 1 | - |
| | | | | Quadrant | | | | |
| 15 | - | - | 27 | ? | 0 | 0 | 2 | - |
| 12 | 10 | - | 1 | Nord-West Ecke | 0 | 0 | 1 | - |
| 12 | 10 | - | 2 | Nord-West Ecke | 0 | 0 | 3 | - |
| 12 | 10 | - | 2A | Nord-West | 1 | 0 | 10 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 9 | Nord-Ost | 0 | 0 | 1 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 10 | Süd-West | 1 | 0 | 1 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 8 | Nord-Ost | 0 | 0 | 4 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 9 | Süd-West | 0 | 0 | 1 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 3 | Süd-West | 0 | 0 | 1 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 3 | Nord-West | 3 | 2 | 1 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 5 | Süd-Ost | 0 | 0 | 2 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 7 | Nord-Ost | 0 | 0 | 3 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 2 | Süd-West | 0 | 0 | 2 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | - | 4 | Süd-West | 0 | 0 | 1 | - |
| | | | | Quadrant | | | | |
| 12 | 10 | 8 | 8 | Süd-Ost | 0 | 0 | 1 | - |
| | | | | Quadrant | | | | |
| 9 | 49 | - | 16 | - | 1 | 1 | 4 | - |
| 9 | - | - | 6 | Außenbereich | 0 | 0 | 4 | - |
| | | | | Süd | | | | |
| 9 | - | - | 11 | Außenbereich | 0 | 0 | 2 | - |
| | | | | Süd | | | | |

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | | Bemerkungen |
|---------|---------|--------|-------------|-------------------------|----------------|-------|-------|-------------|
| | | | | Aligabeli | Offcut | Waste | Other | |
| 9 | 47 | - | 4 | West | 0 | 0 | 1 | - |
| 9 | 48 | - | 3 | - | 0 | 1 | 3 | - |
| 9 | - | - | 4 | Außenbereich | 0 | 0 | 2 | - |
| 9 | - | - | 7 | Außenbereich | - | - | 2 | - |
| | | | | West | | | | |
| 9 | 48 | - | 6 | - | 0 | 0 | 7 | - |
| 9 | 49 | - | 11 | - | 0 | 0 | 2 | - |
| 9 | 48 | - | 1 | - | 0 | 0 | 2 | - |
| 9 | 48 | - | 2 | - | 1 | 1 | 2 | - |
| 9 | 49 | 1 | 8 | - | 0 | 0 | 1 | - |
| 9 | - | - | 3 | - | 0 | 0 | 3 | - |
| 9 | 49 | - | 11 | Ostliches Munabodens | 0 | 0 | 1 | - |
| 9 | 47 | | 11 | Ost schacht | 0 | 0 | 4 | |
| 9 | 47 | - | 11 | - | 0 | 0 | 4 3 | - |
| 9 | 49 - | - | 8 | Außenbereich | 0 | 0 | 1 | - |
| 9 | - | - | 8 | Süd | Ü | U | 1 | - |
| 9 | - | - | 9 | Außenbereich Süd | 0 | 0 | 1 | - |
| 9 | 48 | - | 4 | - | 0 | 0 | 3 | - |
| 9 | 49 | - | 15B | - | 1 | 0 | 2 | - |
| 13 | 10 | - | 13 | Quadrant IV | 0 | 0 | 1 | - |
| 1.0 | 10 | | 15 | Süd | 0 | | 2 | |
| 13 | 10 | - | 15 | Quadrant IV Süd | 0 | 1 | 3 | - |
| 13 | 10 | - | 18 | Quadrant IV | 0 | 0 | 2 | - |
| | | | | Süd | | | | |
| 13 | 10 | - | 18 (Profil) | Quadrant IV Nord | 1 | 1 | 6 | - |
| 13 | 10 | - | 16 | Quadrant I | 1 | 0 | 0 | - |
| 13 | 10 | - | 19 | Quadrant IV | 0 | 4 | 0 | - |
| 13 | 51B | - | 15B | - | 1 | 0 | 3 | - |
| 13 | 10 | - | 6 | Quadrant III | 2 | 1 | 0 | - |
| 13 | 51B | - | 18C | - | 0 | 0 | 4 | - |
| 13 | 10 | - | 10 | Quadrant IV | 1 | 0 | 0 | - |
| 13 | 10 | - | 7 | Quadrant III | 1 | 0 | 2 | - |
| 13 | 10 | - | 3 | Quadrant II | 2 | 0 | 0 | - |
| 13 | 10 | - | 9 | Quadrant IV | 0 | 0 | 1 | - |
| 13 | 54B | 1 | 7 | - | 0 | 0 | 1 | - |
| 13 | 10 | 1 | 15 | Quadrant I | 0 | 0 | 2 | - |
| 13 | 10 | - | 5 | Quadrant III | 0 | 0 | 1 | - |
| 13 | 51B | - | 19E | Eingemessen | 0 | 1 | 0 | big piece |
| 13 | 10 | - | 7 | Quadrant IV | 0 | 0 | 3 | - |

| Schnitt | Raum | Befund | Abhub | Nähere | L | eder Fragment | | Bemerkungen |
|------------|----------|--------|---------|---------------------|--------|---------------|-------|-------------|
| | | | | Angaben | 0.5 | *** | 0.4 | |
| | | | | | Offcut | Waste | Other | |
| 13 | 51B | - | 9 | - | 0 | 0 | 6 | - |
| 13 | 51B | - | 6 | - | 0 | 0 | 7 | - |
| 13 | 51B | - | 7 | - | 0 | 0 | 5 | - |
| 13 | 51B | - | 11 | - | 1 | 0 | 1 | - |
| 13 | 10 | - | 8 | Quadrant I | 1 | 0 | 0 | - |
| 13 | 10 | - | 4 | Quadrant II | 0 | 0 | 4 | - |
| 13 | 51B | - | 17B | - | 0 | 1 | 0 | - |
| 13 | 10 | - | 17 | Quadrant IV | 0 | 0 | 1 | - |
| | | | | Nord | | | | |
| 13 | 51B | - | 10 | - | 0 | 0 | 3 | - |
| 13 | 10 | - | 3 | Quadrant I | 0 | 0 | 1 | - |
| 13 | 10 | - | 12 | Quadrant IV | 2 | 0 | 1 | - |
| | | | | Süd-Ost Ecke | | | | |
| 13 | 10 | - | 4 | Quadrant I | 0 | 0 | 1 | - |
| 13 | 10 | - | 14 | Quadrant IV | 0 | 0 | 3 | - |
| | | | | Süd-Ost Ecke | | | | |
| 13 | 10 | - | 17 | Quadrant IV | 0 | 0 | 1 | - |
| | | | | Süd-Ost Ecke | | | | |
| 13 | 10 | - | 8 | Quadrant III | 0 | 0 | 3 | - |
| 13 | 51B | - | 17C | - | 0 | 0 | 1 | - |
| 13 | 51B | - | 19E | - | 1 | 0 | 1 | - |
| 13 | 10 | 1C | 4 | Quadrant II | 1 | 0 | 0 | - |
| 13 | 10 | 3 | 7 | Quadrant II | 0 | 1 | 1 | - |
| 13 | 10 | - | 7 | Quadrant I | 0 | 0 | 3 | - |
| 13 | 100 | - | 6 | Quadrant I | 0 | 0 | 2 | - |
| 16 | 19 | - | 10 | Nord | 0 | 0 | 1 | - |
| 16 | 10 | - | 10 | Nord | 0 | 0 | 1 | - |
| 16 | 10 | - | 11 | Nord | 0 | 2 | 0 | - |
| 2B | - | - | 6 | Südliche ## | 0 | 0 | 1 | - |
| 2B | - | - | 6 | Bereich Sudlich | 0 | 0 | 1 | - |
| a D | | | _ | des Ostrakons | | | | |
| 2B | - | - | 7 | Nord-Ost Ecke | 1 | 1 | 1 | - |
| 2B | 36 | - | 7 | - | 1 | 0 | 0 | - |
| 2B | 38 | - | 14 | - | 1 | 0 | 1 | - |
| 2B | 37 | - | 9 | - | 0 | 0 | 5 | - |
| 2B | 30 | - | 15 | - | 0 | 0 | 2 | - |
| 2B | 37 | - | 10 | - | 0 | 0 | 2 | - |
| 2B | 36 | - | 10 | - | 0 | 0 | 1 | - |
| 2B | 30 | - | 8 | - | 0 | 0 | 1 | - |
| 2B 2B | 36 36 | 2 | 16 | - Nord-West Ecke | 1 | 1 | 1 | - |
| 2B 2B | 36 37 | 2 | 18 7 | moru- vvest ecke | 0 | 0 1 | 1 0 | - |
| 2B 2B | 36 | - | 18 | - | 0 | 0 | 4 | - |
| 2B 2B | 30 | - | 10 | - | 0 | 0 | 1 | - |
| 2D | 50 | - | 10 | - | U | U | 1 | - |

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | Bemerkungen | |
|---------|------|--------|-------|-------------------|----------------|-------|-------------|---|
| | | | | Angaben | Offcut | Waste | Other | |
| 2B | 37 | _ | 8 | _ | 0 | 2 | 2 | _ |
| 2B | 31 | _ | 9 | Nord | 0 | 1 | 0 | - |
| 2B | 36 | _ | 8 | - | 1 | 2 | 0 | _ |
| 15 | - | _ | 77 | Quadrant I | 1 | 0 | 1 | _ |
| 15 | - | - | 20 | Quadrant IV A | 0 | 0 | 4 | - |
| 15 | _ | _ | 12 | Quadrant I | 0 | 1 | 0 | - |
| 15 | - | - | 18 | Quadrant II | 0 | 0 | 1 | - |
| 15 | - | - | 24 | Quadrant I | 0 | 0 | 1 | - |
| 15 | - | - | 26 | Quadrant I | 0 | 0 | 1 | - |
| 15 | - | - | 26 | Quadrant III | 0 | 1 | 0 | - |
| 15 | - | - | 14 | Quadrant I | 0 | 0 | 2 | - |
| 15 | - | - | 28 | Quadrant III | 0 | 1 | 0 | - |
| 15 | - | - | 24 | Quadrant II | 0 | 0 | 4 | - |
| 15 | - | - | 6 | Quadrant I | 1 | 0 | 4 | - |
| 15 | - | - | 16 | Quadrant I | 0 | 0 | 1 | - |
| 15 | - | - | 10 | Quadrant I | 0 | 0 | 1 | - |
| 15 | - | - | 24 | Quadrant III | 1 | 0 | 2 | - |
| 15 | - | - | 23 | Quadrant III | 1 | 0 | 0 | - |
| 15 | - | - | 9 | Quadrant I | 0 | 0 | 2 | - |
| 15 | - | - | 24 | Quadrant IV | 1 | 0 | 2 | - |
| 15 | - | - | 27 | Quadrant IV A | 1 | 0 | 0 | - |
| 15 | - | - | 25 | Quadrant IV | 2 | 3 | 1 | - |
| 15 | - | - | 5 | Quadrant I | 0 | 0 | 1 | - |
| 15 | - | - | 27 | Quadrant III | 0 | 0 | 1 | - |
| 15 | - | - | 25 | Quadrant II | 0 | 0 | 1 | - |
| 15 | - | - | 13 | Quadrant II | 1 | 0 | 2 | - |
| 15 | - | - | 25 | Quadrant III | 0 | 1 | 2 | - |
| 15 | - | - | 19 | Quadrant I | 0 | 0 | 1 | - |
| 15 | - | - | 20 | Quadrant I | 0 | 0 | 1 | - |
| 15 | - | - | 26 | Quadrant IV | 0 | 1 | 3 | - |
| 15 | - | - | 19 | Quadrant II | 0 | 0 | 1 | - |
| 15 | - | - | 22 | Quadrant I | 1 | 0 | 2 | - |
| 15 | - | - | 21 | Quadrant I | 0 | 0 | 4 | - |
| 15 | - | - | 23 | Quadrant I | 0 | 0 | 2 | - |
| 5A | - | - | 12 | Nord | 0 | 0 | 1 | - |
| 5A | - | - | 12 | Süd | 5 | 1 | 8 | - |
| 5A | - | - | 11 | - | 0 | 0 | 1 | - |
| 5A | - | - | 11 | - | 6 | 1 | 10 | - |
| 5 | - | - | 13 | Nord-West | 0 | 0 | 14 | - |
| 5A | - | - | 12 | Nord | 5 | 4 | 19 | - |
| 5A | - | - | 7 | - | 0 | 0 | 7 | - |
| 5A | - | - | 13 | Nord | 4 | 5 | 8 | - |
| 5 | - | - | 13 | Süd-West | 4 | 1 | 7 | - |
| 5A | - | - | 6 | - | 1 | - | 5 | - |

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | nt | Bemerkungen |
|---------|----------|--------|---------|------------------------|----------------|--------|--------------------|-------------|
| | | | | Angaben | Offcut | Waste | Other | |
| 5A | _ | _ | 9 | - | 2 | 1 | 6 | _ |
| 5 | _ | - | 16 | Nord-West | 0 | 0 | 20 (+ scraps) | - |
| 5 | _ | - | 11 | Süd-West | 1 | 0 | 5 | - |
| 5 | - | - | 11 | Nord-West | 1 | 2 | 16 | - |
| 5 | - | - | 17 | Nord-West | 1 | 3 | 9 | - |
| 5A | - | - | 14 | Süd | 8 | 4 | 12 | - |
| 5 | - | - | 14 | Süd-Ost | 0 | 0 | 1 | - |
| 5A | - | - | 15 | Nord, | 7 | 11 | 27 | - |
| | | | | sudl.o muna bodens | | | | |
| 5 | - | - | 15 | Süd-West | 0 | 0 | 3 | - |
| 5A | - | - | 13 | Süd | 6 | 2 | 11 | - |
| 5 | - | - | 16 | Süd-West | 0 | 0 | 2 | - |
| 5 | - | 5 | 12 | - | 0 | 1 | 2 | - |
| 5 | - | - | 17 | ? | 0 | 1 | 1 | - |
| 5/5A | - | - | - | putten des | 0 | 0 | 5 | - |
| | | | | steinplasters | | | | |
| 5 | - | - | 17 | Süd-Ost | 0 | 0 | 3 | - |
| 5A | - | - | 8 | - | 2 | 1 | 3 | - |
| 5 | - | - | 12 | Süd-Ost | 1 | 0 | 0 | - |
| 5A | - | - | 15 | Nord, | 0 | 0 | 1 | skin |
| | | | | sudl.o muna- | | | | |
| | | | | bodens | | | | |
| 5 | - | - | 14 | Süd-West | 2 | 1 | 0 | - |
| 5 | - | - | 12 | Nord-Ost | 3 | 1 | 7 | - |
| 5A | - | - | 14 | Nord, | 0 | 6 | 3 | - |
| | | | | sudl.o muna- | | | | |
| | | | | bodens | | | | |
| 5A | - | - | 14 | - | 0 | 0 | 4 | - |
| 5 | - | - | 12 | Nord-West | 0 | 4 | 12 | - |
| 5 | - | - | 14 | Nord-West | 0 | 2 | 1 | - |
| 5 | - | - | sonder | ZW Pflaster | 2 | 2 | 10 | - |
| | | | Abhub | und Mauer I | | | | |
| | | | und | | | | | |
| F | | | Mauer I | XA74:4- | 2 | 4 | | |
| 5 | - | - | 6 | Westseite Osthälfte | 3 | 4 | 6 | - |
| 5 5 | - | - | 8 2 | Ostnairte - | 4 | 4 0 | 10 (+ scraps) 4 | - |
| 5 | - | - | 4 | - - | 0 | 1 | 4 | - |
| 5 | - | - | 7 | - Osthälfte | 0 | 0 | 8 | - |
| 5 | - | - | 7 | Westhälfte | 2 | 0 | 8 21 | - |
| 5 | _ | - | 10 | Westhälfte | 4 | 4 | 13 | _ |
| 5 | <u>-</u> | - - | 6 | Osthälfte | 3 | 1 | 15 (+ scraps) | _ |
| 5 | _ | _ | 8 | Westhälfte | 8 | 5 | 13 (+ scraps) | _ |
| 3 | - | - | O | vvestilanie | U | 3 | 13 | _ |

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | nt | Bemerkungen |
|---------|--------|--------|-------|-------------------|----------------|-------|---------------|-------------------|
| | | | | Aligabeli | Offcut | Waste | Other | |
| DB | _ | _ | 9 | West | 3 | 4 | 17 | - |
| 1B Süd | 27 | 7 | - | Unter 112 | 0 | 0 | 3 | - |
| | | | | Lehm | | | | |
| 1B Süd | 27 | - | 5 | - | 0 | 0 | 2 | - |
| 1B Süd | 27 | - | 10 | - | 0 | 0 | 1 | - |
| 1B Süd | 28 | - | 6 | - | 0 | 0 | 1 | - |
| 1B Süd | 23 Süd | - | 3 | - | 0 | 0 | 2 | - |
| 1B Nord | 30 | - | 4 | - | 0 | 0 | 2 | - |
| 1B Süd | 28 | - | 4 | - | 0 | 1 | 6 | - |
| 1B Süd | 28 | - | 5 | - | 0 | 1 | 2 | - |
| 1B Süd | 28 | - | 3 | - | 1 | 1 | 0 | - |
| 1B Süd | 27 | - | 4 | - | 0 | 0 | 4 | - |
| 1B Nord | - | - | 2 | Am West Ecke | 0 | 0 | 1 | - |
| | | | | der breiten | | | | |
| | | | | Ostmauer | | | | |
| 1B Süd | 28 | - | 4 | - | 0 | 0 | 1 | - |
| 1B Süd | 28 | - | 7 | - | 0 | 0 | 9 | - |
| 1B Süd | - | - | 1 | Westseite + | 0 | 1 | 2 | - |
| | | | | Nord Ecke | | | | |
| 1B Süd | 27 | - | 9* | Stegabbau | 0 | 0 | 27 | - |
| 1B Süd | 27 | 7 | 8* | Stegabbau | 0 | 0 | 10 (+ scraps) | - |
| 1B Süd | 27 | - | 2 | - | 0 | 0 | 4 | - |
| 1B Süd | 28 Süd | - | 5 | - | 0 | 2 | 8 | - |
| 1B Süd | 27 | - | 8 | - | 0 | 0 | 5 | - |
| 1B Nord | - | - | 2 | - | 0 | 0 | 2 | - |
| 1B Süd | 27 | - | 9* | Stegabbau | 0 | 0 | 4 | - |
| 1B Süd | 27 | - | 11 | - | 0 | 0 | 2 (+ scraps) | - |
| 1B Süd | 27 | 4 | 8 | - | 0 | 1 | 5 | - |
| 1B Süd | 27 | 1 | 5 | - | 0 | 0 | 1 | - |
| 1B Süd | 28 | 1 | 5 | - | 0 | 0 | 1 | - |
| 1B Nord | 31 | - | 7 | - | 2 | 0 | 2 | - |
| 1B Nord | 30 | - | 6 | - | 0 | 0 | 1 | - |
| 1C | 32 | - | - | Planum 1a/2 | 0 | 1 | 3 | Westliche erweit- |
| | | | | | | | | erung. Eingeme- |
| | | | | | | | | ssen |
| 1C | 23 | - | 2 | Südhälfte | 0 | 0 | 34 | - |
| 1C | - | - | 1 | - | 0 | 0 | 1 (+ scraps) | - |
| 1C | 23 Süd | - | 3 | - | 0 | 0 | 1 | - |
| 1C | 23 | - | 2 | Südliche Ab- | 0 | 0 | 1 | - |
| | | | | schnitt | | | | |
| 1C Sud- | 23 | - | 5 | - | 0 | 0 | 7 | - |
| hälfte | | | | | | | | |
| 1C Sud- | 23 | - | 4 | - | 0 | 0 | 7 | - |
| hälfte | | | | | | | | |

| Schnitt | Raum | Befund | Abhub | Nähere | Leder Fragment | | nt | Bemerkungen |
|-------------------|---------|--------|-------|---------------------------------|----------------|-------|---------------|-------------|
| | | | | Angaben | Offcut | Waste | Other | |
| 1C Sud- hälfte | 23 | - | 1A | Nordhälfte as Rondstruktur 3 | 0 | 0 | 1 | - |
| 1C | 23 | - | 1A | Nordhälfte as Rondstruktur 3 | 0 | 0 | 1 | - |
| 1C Nord hälfte | - | - | 1A | - | 0 | 0 | 8 | - |
| 7 | - | - | 11 | Westabschnitt | 0 | 0 | 2 | - |
| 7 | 41 Nord | - | 20 | Westabschnitt von Schnitt 7 | 0 | 0 | 2 | - |
| 7 | 41 Nord | - | 12 | Westabschnitt von Schnitt 7 | 0 | 0 | 1 | - |
| 7 | - | - | 13 | Westabschnitt | - | 2 | 2 | - |
| 7 | - | - | 6 | Westabschnitt | 0 | 1 | 3 | - |
| 7 | 41 Nord | - | 18 | Westabschnitt von Schnitt 7 | 2 | 1 | 4 | - |
| 7 | - | - | 10 | Westabschnitt | 0 | 0 | 1 | - |
| 7 | - | - | 14 | Westabschnitt | 0 | 1 | 3 | - |
| 7 | 41 Nord | - | 14 | Westabschnitt von Schnitt 7 | 0 | 0 | 1 | - |
| 7 | - | - | 9 | Westabschnitt | 0 | 1 | 0 | - |
| 7 | - | - | 1 | Ostabschnitt A | 1 | 0 | 0 | - |
| 7 | - | - | 12 | Westabschnitt | 0 | 4 | 4 | - |
| 7 | 41 Nord | - | 13 | Westabschnitt von Schnitt 7 | 0 | 0 | 1 | - |
| 7 | 41 Nord | - | 6 | Ostabschnitt A | 0 | 1 | 0 | - |
| 7 | - | - | 8 | Westabschnitt | 0 | 1 | 1 | - |
| 6 | 44B | - | - | North Profil- | 0 | 1 | 1 | _ |
| | | | | kante Abstecken | | | | |
| 6 | 44B | - | 20 | - | 2 | 1 | 0 | - |
| 8 | 44A | - | 21 | - | 2 | 1 | 1 | - |
| 6 | 44B | - | 22 | - | 0 | 0 | 12 (+ scraps) | - |
| 2D | - | - | 2 | - | 0 | 0 | 1 | - |
| 2D | - | - | 5 | Ausbruchstelle des Lehu- | 2 | 0 | 1 | = |
| | | | | neshidbodens | | | | |
| 1E | 23 | - | 1 | - | 0 | 0 | 1 | - |
| 1E | 23 | - | 3 | - | 0 | 1 | 0 | - |
| 1E | 23 | - | 2 | - | 0 | 0 | 2 | - |
| 1E | 23 | - | 3 | - | 0 | 0 | 1 | - |
| 11A | - | - | 4 | - | 0 | 0 | 2 | - |
| 11A | - | - | 5 | - | 0 | 0 | 2 | - |
| 17 | 51C | - | 9 | - | 0 | 0 | 1 | - |
| 17 | 57 | - | 9 | - | 0 | 0 | 3 | - |
| 16 | 10 | - | 19 | - | 0 | 0 | 1 | - |

| Schnitt | Raum | Befund | Abhub | Nähere Angaben | Leder Fragment | | | Bemerkungen |
|---------|------|--------|-------|------------------------|----------------|-------|-------|-------------|
| | | | | | Offcut | Waste | Other | |
| 16 | 10 | - | 20 | Südlicher Be- reich | 1 | 4 | 2 | - |
| 16 | 10 | - | 18 | - | 0 | 0 | 2 | - |
| 15 | 55 | D | 34 | - | 1 | 0 | 0 | - |
| 17 | 57 | - | 6 | Zwischen 212 | 0 | 0 | 1 | - |
| | | | | und 213 | | | | |
| 17 | 51C | - | 2 | - | 0 | 0 | 4 | - |
| 15 | 55 | С | 31 | - | 0 | 0 | 1 | - |
| 15 | 55 | 8 | 32 | - | 2 | 0 | 0 | - |
| 15 | 54 | - | 19-27 | Profilversetzen | 3 | 0 | 0 | - |
| 17 | 51C | - | 4 | - | 0 | 0 | 2 | - |
| 17 | 57 | - | 7 | - | 0 | 0 | 2 | - |
| 15 | 56 | - | 16-29 | Profilversetzen | 0 | 0 | 2 | - |
| 15 | 55 | C | ? | - | 0 | 0 | 2 | - |
| 15 | 55 | C | 32 | - | 0 | 0 | 2 | - |
| 15 | 55 | В | 33 | - | 0 | 0 | 2 | - |
| 17 | 57 | - | 7 | Eingemessen | 0 | 1 | 0 | - |
| 17 | 57 | - | 6 | - | 0 | 1 | 1 | - |
| 15 | 55 | A | 31 | Eingemessen | 0 | 0 | 1 | - |
| 15 | 55 | - | 30 | - | 0 | 0 | 4 | - |
| 15 | 54 | - | 30 | - | 2 | 1 | 3 | - |
| 15 | 56 | - | 30 | - | 2 | 1 | 1 | - |
| 17 | 57 | - | 5 | - | 0 | 0 | 2 | - |
| 11A | - | - | 3 | - | 2 | 0 | 5 | - |
| 11 | - | - | 1 | - | 0 | 0 | 1 | - |
| 11A | - | - | 2 | - | 0 | 0 | 2 | - |

APPENDIX II CONCORDANCES

CONCORDANCE BY CATALOGUE NUMBER

| Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description |
|---------------------|----------|-------------|---------------------|----------|-------------|---------------------|----------|-------------|
| 1 | 1261 | sandal | 30 | 1167 | sandal | 62 | 3779a | sandal |
| 2 | 879 | sandal | 31 | 1194 | sandal | 62 | 3779b | sandal |
| 3 | 3389a | sandal | 32 | 2369 | sandal | 62 | 3779c | sandal |
| 3 | 3389b | sandal | 33 | 2844 | sandal | 63 | 3792 | sandal |
| 4 | 3245 | sandal | 34 | 951 | sandal | 64 | 3746a | sandal |
| 5 | 1236 | sandal | 35 | 978a | sandal | 64 | 3746b | sandal |
| 6 | 1100 | sandal | 36 | 1235 | sandal | 65 | 3738 | sandal |
| 7 | 2031 | sandal | 37 | 2218 | sandal | 66 | 3753b | sandal |
| 8 | 1140 | sandal | 38 | 1195 | sandal | 66 | 3753e | sandal |
| 9 | 1165 | sandal | 39 | 3264 | sandal | 67 | 3715d | sandal |
| 10 | 1166 | sandal | 40 | 3309 | sandal | 67 | 3715e | sandal |
| 11 | 1155 | sandal | 41 | 2864 | sandal | 67 | 3715f | sandal |
| 12 | 1109a | sandal | 42 | 2616 | sandal | 67 | 3715g | sandal |
| 12 | 1109b | sandal | 43 | 2903 | sandal | 67 | 3715h | sandal |
| 13 | 920 | sandal | 44 | 1643a | sandal | 68 | 2338aa | sandal |
| 14 | 853b | sandal | 45 | 1708 | sandal | 68 | 2338ae | sandal |
| 14 | 853c | sandal | 46 | 1660a | sandal | 69 | 3200 | sandal |
| 15 | 1699c | sandal | 46 | 1660b | sandal | 70 | 2153 | sandal |
| 15 | 1699e | sandal | 47 | 1710 | sandal | 71 | 2432 | sandal |
| 16 | 1269b | sandal | 48 | 1647a | sandal | 72 | 2689 | sandal |
| 17 | 2066 | sandal | 49 | 1684b | sandal | 73 | 870a | sandal |
| 17 | 2068 | sandal | 49 | 1684c | sandal | 73 | 870b | sandal |
| 18 | 2096 | sandal | 49 | 1684d | sandal | 73 | 870c | sandal |
| 19 | 2063 | sandal | 50 | 1288 | sandal | 74 | 2356 | sandal |
| 20 | 1605b | sandal | 51 | 3713a | sandal | 75 | 3787 | sandal |
| 21 | 1624a | sandal | 52 | 3710 | sandal | 76 | 1629b | sandal |
| 21 | 1624b | sandal | 53 | 3711a | sandal | 77 | 3757a | sandal |
| 22 | 1855a | sandal | 54 | 3709a | sandal | 78 | 2118 | sandal |
| 23 | 842 | sandal | 55 | 3704b | sandal | 79 | 2125 | sandal |
| 24 | 1549 | sandal | 56 | 3721 | sandal | 80 | 1104a | sandal |
| 25 | 1527 | sandal | 57 | 3790a | sandal | 80 | 1104b | sandal |
| 26 | 1528 | sandal | 58 | 3759 | sandal | 81 | 1875a | sandal |
| 27 | 1691a | sandal | 59 | 3786a | sandal | 81 | 1875b | sandal |
| 28 | 2440 | sandal | 60 | 3745 | sandal | 82 | 1103b | sandal |
| 29 | 1175 | sandal | 61 | 3758a | sandal | 83 | 3725 | sandal |

| Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description |
|---------------------|----------|-------------|---------------------|----------|-------------|---------------------|----------|-------------|
| 84 | 997a | sandal | 118 | 2485b | book covers | 150 | 1614 | book covers |
| 85 | 1823a | sandal | 119 | 964a | book covers | 151 | 3349 | book covers |
| 85 | 1823b | sandal | 119 | 964b | book covers | 152 | 3751 | book covers |
| 86 | 2203 | sandal | 120 | 2146 | book covers | 153 | 3786c | book covers |
| 87 | 1290 | sandal | 121 | 793a | book covers | 154 | 3768 | book covers |
| 88 | 3310 | sandal | 122 | 1269a | book covers | 155 | 3756c | book covers |
| 89 | 2634 | sandal | 123 | 2143 | book covers | 156 | 3788 | book covers |
| 90 | 3707 | sandal | 124 | 2431 | book covers | 157 | 782 | book covers |
| 91 | 2695a | sandal | 125 | 805 | book covers | 158 | 975 | book covers |
| 91 | 2695b | sandal | 126 | 985 | book covers | 159 | 3797a | book covers |
| 91 | 2695c | sandal | 127 | 2116 | book covers | 159 | 3797b | book covers |
| 92 | 3351 | sandal | 128 | 2100a | book covers | 160 | 3783a | book covers |
| 93 | 3714b | sandal | 129 | 1301 | book covers | 161 | 3765b | book covers |
| 94 | 911 | sandal | 130 | 913 | book covers | 162 | 3782b | book covers |
| 95 | 1900 | sandal | 131 | 131 | book covers | 162 | 3782c | book covers |
| 96 | 1719b | sandal | 132 | 839a | book covers | 163 | 2826 | book covers |
| 97 | 3752b | sandal | 132 | 839b | book covers | 164 | 2709a | book covers |
| 98 | 1297 | sandal | 133 | 1656 | book covers | 164 | 2709b | book covers |
| 99 | 3795b | shoe | 134 | 1655a | book covers | 165 | 3439 | book covers |
| 99 | 3795c | shoe | 134 | 1655b | book covers | 166 | 3736b | book covers |
| 99 | 3795d | shoe | 134 | 1655c | book covers | 167 | 3732 | book covers |
| 100 | 3708a | shoe | 135 | 801c | book covers | 168 | 1585 | book covers |
| 100 | 3708b | shoe | 136 | 1180 | book covers | 169 | 325a | book covers |
| 100 | 3708c | shoe | 137 | 2333 | book covers | 169 | 325b | book covers |
| 101 | 3074 | shoe | 138 | 1379 | book covers | 170 | 3422 | book covers |
| 102 | 3735a | insignia | 139 | 2344a | book covers | 171 | 2676a | book covers |
| 102 | 3735b | insignia | 139 | 2344b | book covers | 171 | 2676b | book covers |
| 103 | 3786b | insignia | 139 | 2344c | book covers | 171 | 2676c | book covers |
| 104 | 1587 | insignia | 140 | 2142 | book covers | 171 | 2676d | book covers |
| 105 | 2869 | insignia | 141 | 3000 | book covers | 172 | 1715 | book covers |
| 106 | 3141 | insignia | 142 | 3401 | book covers | 173 | 1716 | book covers |
| 107 | 2043 | insignia | 143 | 2325a | book covers | 174 | 322 | book covers |
| 108 | 1550 | insignia | 143 | 2325b | book covers | 175 | 2196 | book covers |
| 109 | 1192 | insignia | 143 | 2325c | book covers | 176 | 3801a-p | book covers |
| 110 | 801a | insignia | 144 | 2372a | book covers | 177 | 2100b | fastening |
| 111 | 1712 | insignia | 144 | 2372b | book covers | 178 | 3712a | fastening |
| 112 | 2827 | insignia | 144 | 2372c | book covers | 179 | 2712 | belts etc. |
| 113 | 2044 | book covers | 145 | 3724b | book covers | 180 | 3033b | belts etc. |
| 114 | 2717 | book covers | 145 | 3724c | book covers | 181 | 3013b | belts etc. |
| 115 | 2738a | book covers | 146 | 1306 | book covers | 182 | 2071 | belts etc. |
| 115 | 2738b | book covers | 147 | 1510 | book covers | 183 | 1629c | belts etc. |
| 116 | 3242 | book covers | 148 | 2027 | book covers | 184 | 895b | belts etc. |
| 117 | 2790 | book covers | 149 | 989a | book covers | 185 | 1200 | belts etc. |
| 118 | 2485a | book covers | 149 | 989b | book covers | 186 | 1232a | belts etc. |
| | | | | | | | | |

| Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description |
|---------------------|----------|-------------|---------------------|----------|---------------|---------------------|----------|--------------|
| 187 | 3100 | belts etc. | 224 | 3723b | belts etc. | 263 | 2763 | unidentified |
| 188 | 1218a | belts etc. | 225 | 3717b | belts etc. | 264 | 2725 | unidentified |
| 189 | 2554 | belts etc. | 226 | 3704e | belts etc. | 265 | 3102a | unidentified |
| 190 | 2389 | belts etc. | 227 | 3763a | belts etc. | 265 | 3102b | unidentified |
| 191 | 2393 | belts etc. | 228 | 3757c | belts etc. | 266 | 3013a | unidentified |
| 192 | 1717 | belts etc. | 229 | 3756d | belts etc. | 266 | 3013c | unidentified |
| 193 | 3726b | belts etc. | 230 | 3793 | belts etc. | 267 | 1164 | unidentified |
| 194 | 3733e | belts etc. | 231 | 3790c | belts etc. | 268 | 1588 | unidentified |
| 195 | 3754 | belts etc. | 232 | 3777 | belts etc. | 269 | 811 | unidentified |
| 196 | 3743 | belts etc. | 233 | 3775 | belts etc. | 270 | 793b | unidentified |
| 197 | 1103a | belts etc. | 234 | 3783b | belts etc. | 270 | 793c | unidentified |
| 198 | 1582 | belts etc. | 235 | 3736c | belts etc. | 271 | 1699a | unidentified |
| 199 | 853a | belts etc. | 236 | 3734a | belts etc. | 272 | 1699b | unidentified |
| 200 | 1719d | belts etc. | 236 | 3734b | belts etc. | 272 | 1699d | unidentified |
| 201 | 895a | belts etc. | 237 | 3733f | belts etc. | 273 | 1629a | unidentified |
| 202 | 1303 | belts etc. | 237 | 3733g | belts etc. | 273 | 1629d | unidentified |
| 203 | 987 | belts etc. | 238 | 3742b | belts etc. | 274 | 2082a | unidentified |
| 204 | 1621 | belts etc. | 239 | 3746c | belts etc. | 274 | 2082b | unidentified |
| 205 | 1855b | belts etc. | 240 | 2338Ab | belts etc. | 275 | 2093 | unidentified |
| 205 | 1855c | belts etc. | 240 | 2338Ac | belts etc. | 276 | 1263a | unidentified |
| 205 | 1855d | belts etc. | 240 | 2338Ad | belts etc. | 276 | 1263b | unidentified |
| 206 | 801i | belts etc. | 241 | 2756 | bags | 277 | 1719a | unidentified |
| 206 | 801j | belts etc. | 242 | 3003 | bags | 277 | 1719c | unidentified |
| 207 | 1586 | belts etc. | 243 | 2670 | bags | 278 | 1314 | unidentified |
| 208 | 1691c | belts etc. | 244 | 1273b | bags | 279 | 2169 | unidentified |
| 209 | 3187 | belts etc. | 245 | 2100c | offcuts etc. | 280 | 1521 | unidentified |
| 210 | 3183 | belts etc. | 246 | 1013 | offcuts etc. | 281 | 2059 | unidentified |
| 211 | 2550 | belts etc. | 247 | 1105 | offcuts ect. | 282 | 136a | unidentified |
| 212 | 2661 | belts etc. | 248 | 1137b | offcuts etc. | 282 | 136b | unidentified |
| 213 | 3182 | belts etc. | 249 | 2920 | offcuts etc. | 282 | 136c | unidentified |
| 214 | 1248 | belts etc. | 250 | 2586a | offcuts etc. | 283 | 963 | unidentified |
| 215 | 2911 | belts etc. | 250 | 2586b | offcuts etc. | 284 | 1605a | unidentified |
| 216 | 1647e | belts etc. | 251 | 3723a | offcuts etc. | 284 | 1605c | unidentified |
| 216 | 1647f | belts etc. | 252 | 3704e | offcuts etc. | 284 | 1605d | unidentified |
| 217 | 1295b | belts etc. | 253 | 3786e | offcuts etc. | 284 | 1605e | unidentified |
| 218 | 1273a | belts etc. | 254 | 3753f | offcuts etc. | 285 | 2166 | unidentified |
| 219 | 3008b | belts etc. | 255 | 827 | offcuts etc. | 286 | 1636a | unidentified |
| 220 | 3727b | belts etc. | 256 | 2688 | miscellaneous | 286 | 1636b | unidentified |
| 221 | 3702a | belts etc. | 257 | 3715a | miscellaneous | 286 | 1636c | unidentified |
| 221 | 3702b | belts etc. | 258 | 3001 | miscellaneous | 287 | 884a | unidentified |
| 222 | 3712b | belts etc. | 259 | 3432 | unidentified | 287 | 884b | unidentified |
| 222 | 3712c | belts etc. | 260 | 3254 | unidentified | 288 | 801b | unidentified |
| 222 | 3712d | belts etc. | 261 | 2721 | unidentified | 288 | 801d | unidentified |
| 223 | 3718e | belts etc. | 262 | 3033a | unidentified | 288 | 801e | unidentified |
| | | | | | | | | |

| Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description |
|---------------------|----------|--------------|---------------------|----------|--------------|---------------------|----------|--------------|
| 288 | 801f | unidentified | 323 | 948 | unidentified | 352 | 3714a | unidentified |
| 288 | 801g | unidentified | 324 | 1257 | unidentified | 353 | 3709b | unidentified |
| 288 | 801h | unidentified | 325 | 1295a | unidentified | 354 | 3704a | unidentified |
| 289 | 1693 | unidentified | 326 | 2654a | unidentified | 354 | 3704c | unidentified |
| 290 | 1691b | unidentified | 326 | 2654b | unidentified | 354 | 3704d | unidentified |
| 291 | 1341 | unidentified | 327 | 3029 | unidentified | 354 | 3704f | unidentified |
| 292 | 2391 | unidentified | 328 | 3006 | unidentified | 355 | 1903 | unidentified |
| 293 | 950 | unidentified | 329 | 1672 | unidentified | 356 | 3703 | unidentified |
| 294 | 997b | unidentified | 330 | 945 | unidentified | 357 | 3700a | unidentified |
| 295 | 978b | unidentified | 331 | 1509 | unidentified | 357 | 3700b | unidentified |
| 295 | 978c | unidentified | 332 | 1508 | unidentified | 358 | 3701a | unidentified |
| 296 | 903 | unidentified | 333 | 785a | unidentified | 358 | 3701b | unidentified |
| 297 | 1502 | unidentified | 333 | 785b | unidentified | 359 | 3799 | unidentified |
| 298 | 1551 | unidentified | 334 | 1684a | unidentified | 360 | 3795a | unidentified |
| 299 | 1501 | unidentified | 335 | 3008a | unidentified | 361 | 3794a | unidentified |
| 300 | 2331 | unidentified | 335 | 3008c | unidentified | 361 | 3794b | unidentified |
| 301 | 1222 | unidentified | 335 | 3008d | unidentified | 362 | 3770b | unidentified |
| 302 | 1378a | unidentified | 335 | 3008e | unidentified | 363 | 3762 | unidentified |
| 302 | 1378b | unidentified | 336 | 3032 | unidentified | 364 | 3755a | unidentified |
| 303 | 1380 | unidentified | 337 | 780 | unidentified | 364 | 3755b | unidentified |
| 304 | 1232b | unidentified | 338 | 2650 | unidentified | 365 | 3763b | unidentified |
| 304 | 1232c | unidentified | 339 | 866 | unidentified | 366 | 3786d | unidentified |
| 305 | 2048 | unidentified | 340 | 3726a | unidentified | 367 | 3757b | unidentified |
| 306 | 2919 | unidentified | 340 | 3726c | unidentified | 368 | 3756a | unidentified |
| 307 | 2908 | unidentified | 341 | 3727a | unidentified | 368 | 3756b | unidentified |
| 308 | 2905a | unidentified | 342 | 3724a | unidentified | 369 | 3750 | unidentified |
| 308 | 2905b | unidentified | 343 | 3720 | unidentified | 370 | 3744 | unidentified |
| 309 | 2613 | unidentified | 344 | 3719 | unidentified | 371 | 3796 | unidentified |
| 310 | 2633 | unidentified | 345 | 3715b | unidentified | 372 | 3791 | unidentified |
| 311 | 1218b | unidentified | 345 | 3715c | unidentified | 373 | 3790b | unidentified |
| 312 | 3217 | unidentified | 345 | 3715i | unidentified | 373 | 3790d | unidentified |
| 313 | 2793 | unidentified | 346 | 3713b | unidentified | 374 | 3789a | unidentified |
| 314 | 2822 | unidentified | 347 | 3711b | unidentified | 374 | 3789b | unidentified |
| 315 | 2601 | unidentified | 347 | 3711c | unidentified | 375 | 3785 | unidentified |
| 316 | 3212 | unidentified | 348 | 3705a | unidentified | 376 | 3780a | unidentified |
| 317 | 3276 | unidentified | 348 | 3705b | unidentified | 376 | 3780b | unidentified |
| 318 | 1197 | unidentified | 348 | 3705c | unidentified | 377 | 3776 | unidentified |
| 319 | 3103 | unidentified | 349 | 3718a | unidentified | 378 | 3774 | unidentified |
| 320 | 1643b | unidentified | 349 | 3718b | unidentified | 379 | 3783c | unidentified |
| 321 | 1647b | unidentified | 349 | 3718c | unidentified | 380 | 3781a | unidentified |
| 321 | 1647c | unidentified | 349 | 3718d | unidentified | 380 | 3781b | unidentified |
| 321 | 1647d | unidentified | 349 | 3718f | unidentified | 381 | 3784a | unidentified |
| 322 | 969a | unidentified | 350 | 3722 | unidentified | 381 | 3784b | unidentified |
| 322 | 969b | unidentified | 351 | 3717a | unidentified | 382 | 3761a | unidentified |

| Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description |
|---------------------|----------|--------------|---------------------|----------|--------------|
| 382 | 3761b | unidentified | appen. I | no no. | offcuts etc. |
| 382 | 3761c | unidentified | table | 2713 | book covers |
| 383 | 3771 | unidentified | table | 2729 | book covers |
| 384 | 3769 | unidentified | table | 2762 | book covers |
| 385 | 3767 | unidentified | table | 2711 | book covers |
| 386 | 3765a | unidentified | table | 2752 | book covers |
| 387 | 3764a | unidentified | table | 1122 | book covers |
| 387 | 3764b | unidentified | table | 1687 | book covers |
| 388 | 3782a | unidentified | table | 1253 | book covers |
| 388 | 3782d | unidentified | table | 1274 | book covers |
| 388 | 3782e | unidentified | table | 1309 | book covers |
| 388 | 3782f | unidentified | table | 891 | book covers |
| 389 | 3446 | unidentified | table | 2479 | book covers |
| 390 | 3448 | unidentified | table | 1137a | book covers |
| 391 | 3778a | unidentified | table | 960 | book covers |
| 391 | 3778b | unidentified | table | 953 | book covers |
| 392 | 3773a | unidentified | table | 1825 | book covers |
| 392 | 3773b | unidentified | table | 2204 | book covers |
| 392 | 3773c | unidentified | table | 3138 | book covers |
| 393 | 3749a | unidentified | table | 2985 | book covers |
| 393 | 3749b | unidentified | table | 3181 | book covers |
| 394 | 3758b | unidentified | table | 3318 | book covers |
| 395 | 3741a | unidentified | table | 1231 | book covers |
| 395 | 3741b | unidentified | table | 781 | book covers |
| 396 | 3740 | unidentified | table | 1210 | book covers |
| 397 | 3739 | unidentified | table | 946 | book covers |
| 398 | 3736a | unidentified | table | 3770a | book covers |
| 399 | 3730 | unidentified | table | 3766 | book covers |
| 400 | 3733a | unidentified | table | 3798 | book covers |
| 400 | 3733d | unidentified | table | 995 | book covers |
| 400 | 3733h | unidentified | table | 3748 | book covers |
| 401 | 3728 | unidentified | table | 3733a | book covers |
| 402 | 3731 | unidentified | table | 3733c | book covers |
| 403 | 3729 | unidentified | | | |
| 404 | 3753a | unidentified | | | |
| 404 | 3753c | unidentified | | | |
| 404 | 3753d | unidentified | | | |
| 405 | 3742a | unidentified | | | |
| 406 | 3752a | unidentified | | | |
| 407 | 3800 | unidentified | | | |
| 408 | 3451a | unidentified | | | |
| 408 | 3451b | unidentified | | | |
| 409 | 3464 | unidentified | | | |
| 410 | 1694 | unidentified | | | |

CONCORDANCE BY FIND NUMBER

| Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description |
|----------|---------------------|--------------|----------|---------------------|--------------|----------|---------------------|--------------|
| 131 | 131 | book covers | 870a | 73 | sandal | 997b | 294 | unidentified |
| 136a | 282 | unidentified | 870b | 73 | sandal | 1013 | 246 | offcuts etc. |
| 136b | 282 | unidentified | 870c | 73 | sandal | 1100 | 6 | sandal |
| 136c | 282 | unidentified | 879 | 2 | sandal | 1103b | 82 | sandal |
| 322 | 174 | book covers | 884a | 287 | unidentified | 1103a | 197 | belts etc. |
| 325a | 169 | book covers | 884b | 287 | unidentified | 1104a | 80 | sandal |
| 325b | 169 | book covers | 891 | table | book covers | 1104b | 80 | sandal |
| 780 | 337 | unidentified | 895b | 184 | belts etc. | 1105 | 247 | offcuts ect. |
| 781 | table | book covers | 895a | 201 | belts etc. | 1109a | 12 | sandal |
| 782 | 157 | book covers | 903 | 296 | unidentified | 1109b | 12 | sandal |
| 785a | 333 | unidentified | 911 | 94 | sandal | 1122 | table | book covers |
| 785b | 333 | unidentified | 913 | 130 | book covers | 1137b | 248 | offcuts ect. |
| 793a | 121 | book covers | 920 | 13 | sandal | 1137a | table | book covers |
| 793b | 270 | unidentified | 945 | 330 | unidentified | 1140 | 8 | sandal |
| 793c | 270 | unidentified | 946 | table | book covers | 1155 | 11 | sandal |
| 801a | 110 | insignia | 948 | 323 | unidentified | 1164 | 267 | unidentified |
| 801c | 135 | book covers | 950 | 293 | unidentified | 1165 | 9 | sandal |
| 801i | 206 | belts etc. | 951 | 34 | sandal | 1166 | 10 | sandal |
| 801j | 206 | belts etc. | 953 | table | book covers | 1167 | 30 | sandal |
| 801b | 288 | unidentified | 960 | table | book covers | 1175 | 29 | sandal |
| 801d | 288 | unidentified | 963 | 283 | unidentified | 1180 | 136 | book covers |
| 801e | 288 | unidentified | 964a | 119 | book covers | 1192 | 109 | insignia |
| 801f | 288 | unidentified | 964b | 119 | book covers | 1194 | 31 | sandal |
| 801g | 288 | unidentified | 969a | 322 | unidentified | 1195 | 38 | sandal |
| 801h | 288 | unidentified | 969b | 322 | unidentified | 1197 | 318 | unidentified |
| 805 | 125 | book covers | 975 | 158 | book covers | 1200 | 185 | belts etc. |
| 811 | 269 | unidentified | 978a | 35 | sandal | 1210 | table | book covers |
| 827 | 255 | offcuts etc. | 978b | 295 | unidentified | 1218a | 188 | belts etc. |
| 839a | 132 | book covers | 978c | 295 | unidentified | 1218b | 311 | unidentified |
| 839b | 132 | book covers | 985 | 126 | book covers | 1222 | 301 | unidentified |
| 842 | 23 | sandal | 987 | 203 | belts etc. | 1231 | table | book covers |
| 853b | 14 | sandal | 989a | 149 | book covers | 1232a | 186 | belts etc. |
| 853c | 14 | sandal | 989b | 149 | book covers | 1232b | 304 | unidentified |
| 853a | 199 | belts etc. | 995 | table | book covers | 1232c | 304 | unidentified |
| 866 | 339 | unidentified | 997a | 84 | sandal | 1235 | 36 | sandal |

| Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description |
|----------|---------------------|--------------|----------|---------------------|--------------|----------|---------------------|-------------------|
| 1236 | 5 | sandal | 1605a | 284 | unidentified | 1699d | 272 | unidentified |
| 1248 | 214 | belts etc. | 1605c | 284 | unidentified | 1708 | 45 | sandal |
| 1253 | table | book covers | 1605d | 284 | unidentified | 1710 | 47 | sandal |
| 1257 | 324 | unidentified | 1605e | 284 | unidentified | 1712 | 111 | insignia |
| 1261 | 1 | sandal | 1614 | 150 | book covers | 1715 | 172 | book covers |
| 1263a | 276 | unidentified | 1621 | 204 | belts etc. | 1716 | 173 | book covers |
| 1263b | 276 | unidentified | 1624a | 21 | sandal | 1717 | 192 | belts etc. |
| 1269b | 16 | sandal | 1624b | 21 | sandal | 1719b | 96 | sandal |
| 1269a | 122 | book covers | 1629b | 76 | sandal | 1719d | 200 | belts etc. |
| 1273a | 218 | belts etc. | 1629c | 183 | belts etc. | 1719a | 277 | unidentified |
| 1273b | 244 | bags | 1629a | 273 | unidentified | 1719c | 277 | unidentified |
| 1274 | table | book covers | 1629d | 273 | unidentified | 1823a | 85 | sandal |
| 1288 | 50 | sandal | 1636a | 286 | unidentified | 1823b | 85 | sandal |
| 1290 | 87 | sandal | 1636b | 286 | unidentified | 1825 | table | book covers |
| 1295b | 217 | belts etc. | 1636c | 286 | unidentified | 1855a | 22 | sandal |
| 1295a | 325 | unidentified | 1643a | 44 | sandal | 1855b | 205 | belts etc. |
| 1297 | 98 | sandal | 1643b | 320 | unidentified | 1855c | 205 | belts etc. |
| 1301 | 129 | book covers | 1647a | 48 | sandal | 1855d | 205 | belts etc. |
| 1303 | 202 | belts etc. | 1647e | 216 | belts etc. | 1875a | 81 | sandal |
| 1306 | 146 | book covers | 1647f | 216 | belts etc. | 1875b | 81 | sandal |
| 1309 | table | book covers | 1647b | 321 | unidentified | 1900 | 95 | sandal |
| 1314 | 278 | unidentified | 1647c | 321 | unidentified | 1903 | 355 | unidentified |
| 1341 | 291 | unidentified | 1647d | 321 | unidentified | 2027 | 148 | book covers |
| 1378a | 302 | unidentified | 1655a | 134 | book covers | 2031 | 7 | sandal |
| 1378b | 302 | unidentified | 1655b | 134 | book covers | 2043 | 107 | insignia |
| 1379 | 138 | book covers | 1655c | 134 | book covers | 2044 | 113 | book covers |
| 1380 | 303 | unidentified | 1656 | 133 | book covers | 2048 | 305 | unidentified |
| 1501 | 299 | unidentified | 1660a | 46 | sandal | 2059 | 281 | unidentified |
| 1502 | 297 | unidentified | 1660b | 46 | sandal | 2063 | 19 | sandal |
| 1508 | 332 | unidentified | 1672 | 329 | unidentified | 2066 | 17 | sandal |
| 1509 | 331 | unidentified | 1684b | 49 | sandal | 2068 | 17 | sandal |
| 1510 | 147 | book covers | 1684c | 49 | sandal | 2071 | 182 | belts etc. |
| 1521 | 280 | unidentified | 1684d | 49 | sandal | 2082a | 274 | unidentified |
| 1527 | 25 | sandal | 1684a | 334 | unidentified | 2082b | 274 | unidentified |
| 1528 | 26 | sandal | 1687 | table | book covers | 2093 | 275 | unidentified |
| 1549 | 24 | sandal | 1691a | 27 | sandal | 2096 | 18 | sandal |
| 1550 | 108 | insignia | 1691c | 208 | belts etc. | 2100a | 128 | book covers |
| 1551 | 298 | unidentified | 1691b | 290 | unidentified | 2100b | 177 | fastening |
| 1582 | 198 | belts etc. | 1693 | 289 | unidentified | 2100c | 245 | offcuts and waste |
| 1585 | 168 | book covers | 1694 | 410 | unidentified | 2116 | 127 | book covers |
| 1586 | 207 | belts etc. | 1699c | 15 | sandal | 2118 | 78 | sandal |
| 1587 | 104 | insignia | 1699e | 15 | sandal | 2125 | 79 | sandal |
| 1588 | 268 | unidentified | 1699a | 271 | unidentified | 2142 | 140 | book covers |
| 1605b | 20 | sandal | 1699b | 272 | unidentified | 2143 | 123 | book covers |

| Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description |
|----------|---------------------|--------------|----------|---------------------|---------------|----------|---------------------|---------------|
| 2146 | 120 | book covers | 2650 | 338 | unidentified | 2985 | table | book covers |
| 2153 | 70 | sandal | 2654a | 326 | unidentified | 3000 | 141 | book covers |
| 2166 | 285 | unidentified | 2654b | 326 | unidentified | 3001 | 258 | miscellaneous |
| 2169 | 279 | unidentified | 2661 | 212 | belts etc. | 3003 | 242 | bags |
| 2196 | 175 | book covers | 2670 | 243 | bags | 3006 | 328 | unidentified |
| 2203 | 86 | sandal | 2676a | 171 | book covers | 3008b | 219 | belts etc. |
| 2204 | table | book covers | 2676b | 171 | book covers | 3008a | 335 | unidentified |
| 2218 | 37 | sandal | 2676c | 171 | book covers | 3008c | 335 | unidentified |
| 2325a | 143 | book covers | 2676d | 171 | book covers | 3008d | 335 | unidentified |
| 2325b | 143 | book covers | 2688 | 256 | miscellaneous | 3008e | 335 | unidentified |
| 2325c | 143 | book covers | 2689 | 72 | sandal | 3013b | 181 | belts etc. |
| 2331 | 300 | unidentified | 2695a | 91 | sandal | 3013a | 266 | unidentified |
| 2333 | 137 | book covers | 2695b | 91 | sandal | 3013c | 266 | unidentified |
| 2338aa | 68 | sandal | 2695c | 91 | sandal | 3029 | 327 | unidentified |
| 2338ae | 68 | sandal | 2709a | 164 | book covers | 3032 | 336 | unidentified |
| 2338Ab | 240 | belts etc. | 2709b | 164 | book covers | 3033b | 180 | belts etc. |
| 2338Ac | 240 | belts etc. | 2711 | table | book covers | 3033a | 262 | unidentified |
| 2338Ad | 240 | belts etc. | 2712 | 179 | belts etc. | 3074 | 101 | shoe |
| 2344a | 139 | book covers | 2713 | table | book covers | 3100 | 187 | belts etc. |
| 2344b | 139 | book covers | 2717 | 114 | book covers | 3102a | 265 | unidentified |
| 2344c | 139 | book covers | 2721 | 261 | unidentified | 3102b | 265 | unidentified |
| 2356 | 74 | sandal | 2725 | 264 | unidentified | 3103 | 319 | unidentified |
| 2369 | 32 | sandal | 2729 | table | book covers | 3138 | table | book covers |
| 2372a | 144 | book covers | 2738a | 115 | book covers | 3141 | 106 | insignia |
| 2372b | 144 | book covers | 2738b | 115 | book covers | 3181 | table | book covers |
| 2372c | 144 | book covers | 2752 | table | book covers | 3182 | 213 | belts etc. |
| 2389 | 190 | belts etc. | 2756 | 241 | bags | 3183 | 210 | belts etc. |
| 2391 | 292 | unidentified | 2762 | table | book covers | 3187 | 209 | belts etc. |
| 2393 | 191 | belts etc. | 2763 | 263 | unidentified | 3200 | 69 | sandal |
| 2431 | 124 | book covers | 2790 | 117 | book covers | 3212 | 316 | unidentified |
| 2432 | 71 | sandal | 2793 | 313 | unidentified | 3217 | 312 | unidentified |
| 2440 | 28 | sandal | 2822 | 314 | unidentified | 3242 | 116 | book covers |
| 2479 | table | book covers | 2826 | 163 | book covers | 3245 | 4 | sandal |
| 2485a | 118 | book covers | 2827 | 112 | insignia | 3254 | 260 | unidentified |
| 2485b | 118 | book covers | 2844 | 33 | sandal | 3264 | 39 | sandal |
| 2550 | 211 | belts etc. | 2864 | 41 | sandal | 3276 | 317 | unidentified |
| 2554 | 189 | belts etc. | 2869 | 105 | insignia | 3309 | 40 | sandal |
| 2586a | 250 | offcuts etc. | 2903 | 43 | sandal | 3310 | 88 | sandal |
| 2586b | 250 | offcuts etc. | 2905a | 308 | unidentified | 3318 | table | book covers |
| 2601 | 315 | unidentified | 2905b | 308 | unidentified | 3349 | 151 | book covers |
| 2613 | 309 | unidentified | 2908 | 307 | unidentified | 3351 | 92 | sandal |
| 2616 | 42 | sandal | 2911 | 215 | belts etc. | 3389a | 3 | sandal |
| 2633 | 310 | unidentified | 2919 | 306 | unidentified | 3389b | 3 | sandal |
| 2634 | 89 | sandal | 2920 | 249 | offcuts ect. | 3401 | 142 | book covers |

| Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description |
|----------|---------------------|--------------|----------|---------------------|---------------|----------|---------------------|--------------|
| 3422 | 170 | book covers | 3715e | 67 | sandal | 3734a | 236 | belts etc. |
| 3432 | 259 | unidentified | 3715f | 67 | sandal | 3734b | 236 | belts etc. |
| 3439 | 165 | book covers | 3715g | 67 | sandal | 3735a | 102 | insignia |
| 3446 | 389 | unidentified | 3715h | 67 | sandal | 3735b | 102 | insignia |
| 3448 | 390 | unidentified | 3715a | 257 | miscellaneous | 3736b | 166 | book covers |
| 3451a | 408 | unidentified | 3715b | 345 | unidentified | 3736c | 235 | belts etc. |
| 3451b | 408 | unidentified | 3715c | 345 | unidentified | 3736a | 398 | unidentified |
| 3464 | 409 | unidentified | 3715i | 345 | unidentified | 3738 | 65 | sandal |
| 3700a | 357 | unidentified | 3717b | 225 | belts etc. | 3739 | 397 | unidentified |
| 3700b | 357 | unidentified | 3717a | 351 | unidentified | 3740 | 396 | unidentified |
| 3701a | 358 | unidentified | 3718e | 223 | belts etc. | 3741a | 395 | unidentified |
| 3701b | 358 | unidentified | 3718a | 349 | unidentified | 3741b | 395 | unidentified |
| 3702a | 221 | belts etc. | 3718b | 349 | unidentified | 3742b | 238 | belts etc. |
| 3702b | 221 | belts etc. | 3718c | 349 | unidentified | 3742a | 405 | unidentified |
| 3703 | 356 | unidentified | 3718d | 349 | unidentified | 3743 | 196 | belts etc. |
| 3704b | 55 | sandal | 3718f | 349 | unidentified | 3744 | 370 | unidentified |
| 3704e | 226 | belts etc. | 3719 | 344 | unidentified | 3745 | 60 | sandal |
| 3704e | 252 | offcuts etc. | 3720 | 343 | unidentified | 3746a | 64 | sandal |
| 3704a | 354 | unidentified | 3721 | 56 | sandal | 3746b | 64 | sandal |
| 3704c | 354 | unidentified | 3722 | 350 | unidentified | 3746c | 239 | belts etc. |
| 3704d | 354 | unidentified | 3723b | 224 | belts etc. | 3748 | table | book covers |
| 3704f | 354 | unidentified | 3723a | 251 | offcuts etc. | 3749a | 393 | unidentified |
| 3705a | 348 | unidentified | 3724b | 145 | book covers | 3749b | 393 | unidentified |
| 3705b | 348 | unidentified | 3724c | 145 | book covers | 3750 | 369 | unidentified |
| 3705c | 348 | unidentified | 3724a | 342 | unidentified | 3751 | 152 | book covers |
| 3707 | 90 | sandal | 3725 | 83 | sandal | 3752b | 97 | sandal |
| 3708a | 100 | shoe | 3726b | 193 | belts etc. | 3752a | 406 | unidentified |
| 3708b | 100 | shoe | 3726a | 340 | unidentified | 3753b | 66 | sandal |
| 3708c | 100 | shoe | 3726c | 340 | unidentified | 3753e | 66 | sandal |
| 3709a | 54 | sandal | 3727b | 220 | belts etc. | 3753f | 254 | offcuts etc. |
| 3709b | 353 | unidentified | 3727a | 341 | unidentified | 3753a | 404 | unidentified |
| 3710 | 52 | sandal | 3728 | 401 | unidentified | 3753c | 404 | unidentified |
| 3711a | 53 | sandal | 3729 | 403 | unidentified | 3753d | 404 | unidentified |
| 3711b | 347 | unidentified | 3730 | 399 | unidentified | 3754 | 195 | belts etc. |
| 3711c | 347 | unidentified | 3731 | 402 | unidentified | 3755a | 364 | unidentified |
| 3712a | 178 | fastening | 3732 | 167 | book covers | 3755b | 364 | unidentified |
| 3712b | 222 | belts etc. | 3733e | 194 | belts etc. | 3756c | 155 | book covers |
| 3712c | 222 | belts etc. | 3733f | 237 | belts etc. | 3756d | 229 | belts etc. |
| 3712d | 222 | belts etc. | 3733g | 237 | belts etc. | 3756a | 368 | unidentified |
| 3713a | 51 | sandal | 3733a | 400 | unidentified | 3756b | 368 | unidentified |
| 3713b | 346 | unidentified | 3733d | 400 | unidentified | 3757a | 77 | sandal |
| 3714b | 93 | sandal | 3733h | 400 | unidentified | 3757c | 228 | belts etc. |
| 3714a | 352 | unidentified | 3733a | table | book covers | 3757b | 367 | unidentified |
| 3715d | 67 | sandal | 3733c | table | book covers | 3758a | 61 | sandal |

| Find No. | Catalogue Number | Description | Find No. | Catalogue Number | Description |
|----------|---------------------|--------------|----------|---------------------|--------------|
| 3758b | 394 | unidentified | 3784a | 381 | unidentified |
| 3759 | 58 | sandal | 3784b | 381 | unidentified |
| 3761a | 382 | unidentified | 3785 | 375 | unidentified |
| 3761b | 382 | unidentified | 3786a | 59 | sandal |
| 3761c | 382 | unidentified | 3786b | 103 | insignia |
| 3762 | 363 | unidentified | 3786c | 153 | book covers |
| 3763a | 227 | belts etc. | 3786e | 253 | offcuts etc. |
| 3763b | 365 | unidentified | 3786d | 366 | unidentified |
| 3764a | 387 | unidentified | 3787 | 75 | sandal |
| 3764b | 387 | unidentified | 3788 | 156 | book covers |
| 3765b | 161 | book covers | 3789a | 374 | unidentified |
| 3765a | 386 | unidentified | 3789b | 374 | unidentified |
| 3766 | table | book covers | 3790a | 57 | sandal |
| 3767 | 385 | unidentified | 3790c | 231 | belts etc. |
| 3768 | 154 | book covers | 3790b | 373 | unidentified |
| 3769 | 384 | unidentified | 3790d | 373 | unidentified |
| 3770b | 362 | unidentified | 3791 | 372 | unidentified |
| 3770a | table | book covers | 3792 | 63 | sandal |
| 3771 | 383 | unidentified | 3793 | 230 | belts etc. |
| 3773a | 392 | unidentified | 3794a | 361 | unidentified |
| 3773b | 392 | unidentified | 3794b | 361 | unidentified |
| 3773c | 392 | unidentified | 3795b | 99 | shoe |
| 3774 | 378 | unidentified | 3795c | 99 | shoe |
| 3775 | 233 | belts etc. | 3795d | 99 | shoe |
| 3776 | 377 | unidentified | 3795a | 360 | unidentified |
| 3777 | 232 | belts etc. | 3796 | 371 | unidentified |
| 3778a | 391 | unidentified | 3797a | 159 | book covers |
| 3778b | 391 | unidentified | 3797b | 159 | book covers |
| 3779a | 62 | sandal | 3798 | table | book covers |
| 3779b | 62 | sandal | 3799 | 359 | unidentified |
| 3779c | 62 | sandal | 3800 | 407 | unidentified |
| 3780a | 376 | unidentified | 3801a-p | 176 | book covers |
| 3780b | 376 | unidentified | no no. a | ppen. I | offcuts etc. |
| 3781a | 380 | unidentified | | | |
| 3781b | 380 | unidentified | | | |
| 3782b | 162 | book covers | | | |
| 3782c | 162 | book covers | | | |
| 3782a | 388 | unidentified | | | |
| 3782d | 388 | unidentified | | | |
| 3782e | 388 | unidentified | | | |
| 3782f | 388 | unidentified | | | |
| 3783a | 160 | book covers | | | |
| 3783b | 234 | belts etc. | | | |
| 3783c | 379 | unidentified | | | |

CONCORDANCE BY DESCRIPTION

| Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. |
|-------------|---------------------|----------|-------------|---------------------|----------|-------------|---------------------|----------|
| bags | 241 | 2756 | belts etc. | 207 | 1586 | belts etc. | 237 | 3733f |
| bags | 242 | 3003 | belts etc. | 208 | 1691c | belts etc. | 237 | 3733g |
| bags | 243 | 2670 | belts etc. | 209 | 3187 | belts etc. | 238 | 3742b |
| bags | 244 | 1273b | belts etc. | 210 | 3183 | belts etc. | 239 | 3746c |
| belts etc. | 179 | 2712 | belts etc. | 211 | 2550 | belts etc. | 240 | 2338Ab |
| belts etc. | 180 | 3033b | belts etc. | 212 | 2661 | belts etc. | 240 | 2338Ac |
| belts etc. | 181 | 3013b | belts etc. | 213 | 3182 | belts etc. | 240 | 2338Ad |
| belts etc. | 182 | 2071 | belts etc. | 214 | 1248 | book covers | 113 | 2044 |
| belts etc. | 183 | 1629c | belts etc. | 215 | 2911 | book covers | 114 | 2717 |
| belts etc. | 184 | 895b | belts etc. | 216 | 1647e | book covers | 115 | 2738a |
| belts etc. | 185 | 1200 | belts etc. | 216 | 1647f | book covers | 115 | 2738b |
| belts etc. | 186 | 1232a | belts etc. | 217 | 1295b | book covers | 116 | 3242 |
| belts etc. | 187 | 3100 | belts etc. | 218 | 1273a | book covers | 117 | 2790 |
| belts etc. | 188 | 1218a | belts etc. | 219 | 3008b | book covers | 118 | 2485a |
| belts etc. | 189 | 2554 | belts etc. | 220 | 3727b | book covers | 118 | 2485b |
| belts etc. | 190 | 2389 | belts etc. | 221 | 3702a | book covers | 119 | 964a |
| belts etc. | 191 | 2393 | belts etc. | 221 | 3702b | book covers | 119 | 964b |
| belts etc. | 192 | 1717 | belts etc. | 222 | 3712b | book covers | 120 | 2146 |
| belts etc. | 193 | 3726b | belts etc. | 222 | 3712c | book covers | 121 | 793a |
| belts etc. | 194 | 3733e | belts etc. | 222 | 3712d | book covers | 122 | 1269a |
| belts etc. | 195 | 3754 | belts etc. | 223 | 3718e | book covers | 123 | 2143 |
| belts etc. | 196 | 3743 | belts etc. | 224 | 3723b | book covers | 124 | 2431 |
| belts etc. | 197 | 1103a | belts etc. | 225 | 3717b | book covers | 125 | 805 |
| belts etc. | 198 | 1582 | belts etc. | 226 | 3704e | book covers | 126 | 985 |
| belts etc. | 199 | 853a | belts etc. | 227 | 3763a | book covers | 127 | 2116 |
| belts etc. | 200 | 1719d | belts etc. | 228 | 3757c | book covers | 128 | 2100a |
| belts etc. | 201 | 895a | belts etc. | 229 | 3756d | book covers | 129 | 1301 |
| belts etc. | 202 | 1303 | belts etc. | 230 | 3793 | book covers | 130 | 913 |
| belts etc. | 203 | 987 | belts etc. | 231 | 3790c | book covers | 131 | 131 |
| belts etc. | 204 | 1621 | belts etc. | 232 | 3777 | book covers | 132 | 839a |
| belts etc. | 205 | 1855b | belts etc. | 233 | 3775 | book covers | 132 | 839b |
| belts etc. | 205 | 1855c | belts etc. | 234 | 3783b | book covers | 133 | 1656 |
| belts etc. | 205 | 1855d | belts etc. | 235 | 3736c | book covers | 134 | 1655a |
| belts etc. | 206 | 801i | belts etc. | 236 | 3734a | book covers | 134 | 1655b |
| belts etc. | 206 | 801j | belts etc. | 236 | 3734b | book covers | 134 | 1655c |

| Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. |
|-------------|---------------------|----------|-------------|---------------------|----------|---------------|---------------------|----------|
| book covers | 135 | 801c | book covers | 168 | 1585 | book covers | table | 3733c |
| book covers | 136 | 1180 | book covers | 169 | 325a | fastening | 177 | 2100b |
| book covers | 137 | 2333 | book covers | 169 | 325b | fastening | 178 | 3712a |
| book covers | 138 | 1379 | book covers | 170 | 3422 | insignia | 102 | 3735a |
| book covers | 139 | 2344a | book covers | 171 | 2676a | insignia | 102 | 3735b |
| book covers | 139 | 2344b | book covers | 171 | 2676b | insignia | 103 | 3786b |
| book covers | 139 | 2344c | book covers | 171 | 2676c | insignia | 104 | 1587 |
| book covers | 140 | 2142 | book covers | 171 | 2676d | insignia | 105 | 2869 |
| book covers | 141 | 3000 | book covers | 172 | 1715 | insignia | 106 | 3141 |
| book covers | 142 | 3401 | book covers | 173 | 1716 | insignia | 107 | 2043 |
| book covers | 143 | 2325a | book covers | 174 | 322 | insignia | 108 | 1550 |
| book covers | 143 | 2325b | book covers | 175 | 2196 | insignia | 109 | 1192 |
| book covers | 143 | 2325c | book covers | 176 | 3801a-p | insignia | 110 | 801a |
| book covers | 144 | 2372a | book covers | table | 2713 | insignia | 111 | 1712 |
| book covers | 144 | 2372b | book covers | table | 2729 | insignia | 112 | 2827 |
| book covers | 144 | 2372c | book covers | table | 2762 | miscellaneous | 256 | 2688 |
| book covers | 145 | 3724b | book covers | table | 2711 | miscellaneous | 257 | 3715a |
| book covers | 145 | 3724c | book covers | table | 2752 | miscellaneous | 258 | 3001 |
| book covers | 146 | 1306 | book covers | table | 1122 | offcuts etc. | 245 | 2100c |
| book covers | 147 | 1510 | book covers | table | 1687 | offcuts etc. | 246 | 1013 |
| book covers | 148 | 2027 | book covers | table | 1253 | offcuts etc. | 247 | 1105 |
| book covers | 149 | 989a | book covers | table | 1274 | offcuts etc. | 248 | 1137b |
| book covers | 149 | 989b | book covers | table | 1309 | offcuts etc. | 249 | 2920 |
| book covers | 150 | 1614 | book covers | table | 891 | offcuts etc. | 250 | 2586a |
| book covers | 151 | 3349 | book covers | table | 2479 | offcuts etc. | 250 | 2586b |
| book covers | 152 | 3751 | book covers | table | 1137a | offcuts etc. | 251 | 3723a |
| book covers | 153 | 3786c | book covers | table | 960 | offcuts etc. | 252 | 3704e |
| book covers | 154 | 3768 | book covers | table | 953 | offcuts etc. | 253 | 3786e |
| book covers | 155 | 3756c | book covers | table | 1825 | offcuts etc. | 254 | 3753f |
| book covers | 156 | 3788 | book covers | table | 2204 | offcuts etc. | 255 | 827 |
| book covers | 157 | 782 | book covers | table | 3138 | offcuts etc. | appen. I | no no. |
| book covers | 158 | 975 | book covers | table | 2985 | sandal | 1 | 1261 |
| book covers | 159 | 3797a | book covers | table | 3181 | sandal | 2 | 879 |
| book covers | 159 | 3797b | book covers | table | 3318 | sandal | 3 | 3389a |
| book covers | 160 | 3783a | book covers | table | 1231 | sandal | 3 | 3389b |
| book covers | 161 | 3765b | book covers | table | 781 | sandal | 4 | 3245 |
| book covers | 162 | 3782b | book covers | table | 1210 | sandal | 5 | 1236 |
| book covers | 162 | 3782c | book covers | table | 946 | sandal | 6 | 1100 |
| book covers | 163 | 2826 | book covers | table | 3770a | sandal | 7 | 2031 |
| book covers | 164 | 2709a | book covers | table | 3766 | sandal | 8 | 1140 |
| book covers | 164 | 2709b | book covers | table | 3798 | sandal | 9 | 1165 |
| book covers | 165 | 3439 | book covers | table | 995 | sandal | 10 | 1166 |
| book covers | 166 | 3736b | book covers | table | 3748 | sandal | 11 | 1155 |
| book covers | 167 | 3732 | book covers | table | 3733a | sandal | 12 | 1109a |

| Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. |
|-------------|---------------------|----------|-------------|---------------------|----------|--------------|---------------------|----------|
| sandal | 12 | 1109b | sandal | 49 | 1684d | sandal | 81 | 1875a |
| sandal | 13 | 920 | sandal | 50 | 1288 | sandal | 81 | 1875b |
| sandal | 14 | 853b | sandal | 51 | 3713a | sandal | 82 | 1103b |
| sandal | 14 | 853c | sandal | 52 | 3710 | sandal | 83 | 3725 |
| sandal | 15 | 1699c | sandal | 53 | 3711a | sandal | 84 | 997a |
| sandal | 15 | 1699e | sandal | 54 | 3709a | sandal | 85 | 1823a |
| sandal | 16 | 1269b | sandal | 55 | 3704b | sandal | 85 | 1823b |
| sandal | 17 | 2066 | sandal | 56 | 3721 | sandal | 86 | 2203 |
| sandal | 17 | 2068 | sandal | 57 | 3790a | sandal | 87 | 1290 |
| sandal | 18 | 2096 | sandal | 58 | 3759 | sandal | 88 | 3310 |
| sandal | 19 | 2063 | sandal | 59 | 3786a | sandal | 89 | 2634 |
| sandal | 20 | 1605b | sandal | 60 | 3745 | sandal | 90 | 3707 |
| sandal | 21 | 1624a | sandal | 61 | 3758a | sandal | 91 | 2695a |
| sandal | 21 | 1624b | sandal | 62 | 3779a | sandal | 91 | 2695b |
| sandal | 22 | 1855a | sandal | 62 | 3779b | sandal | 91 | 2695c |
| sandal | 23 | 842 | sandal | 62 | 3779c | sandal | 92 | 3351 |
| sandal | 24 | 1549 | sandal | 63 | 3792 | sandal | 93 | 3714b |
| sandal | 25 | 1527 | sandal | 64 | 3746a | sandal | 94 | 911 |
| sandal | 26 | 1528 | sandal | 64 | 3746b | sandal | 95 | 1900 |
| sandal | 27 | 1691a | sandal | 65 | 3738 | sandal | 96 | 1719b |
| sandal | 28 | 2440 | sandal | 66 | 3753b | sandal | 97 | 3752b |
| sandal | 29 | 1175 | sandal | 66 | 3753e | sandal | 98 | 1297 |
| sandal | 30 | 1167 | sandal | 67 | 3715d | shoe | 99 | 3795b |
| sandal | 31 | 1194 | sandal | 67 | 3715e | shoe | 99 | 3795c |
| sandal | 32 | 2369 | sandal | 67 | 3715f | shoe | 99 | 3795d |
| sandal | 33 | 2844 | sandal | 67 | 3715g | shoe | 100 | 3708a |
| sandal | 34 | 951 | sandal | 67 | 3715h | shoe | 100 | 3708b |
| sandal | 35 | 978a | sandal | 68 | 2338aa | shoe | 100 | 3708c |
| sandal | 36 | 1235 | sandal | 68 | 2338ae | shoe | 101 | 3074 |
| sandal | 37 | 2218 | sandal | 69 | 3200 | unidentified | 259 | 3432 |
| sandal | 38 | 1195 | sandal | 70 | 2153 | unidentified | 260 | 3254 |
| sandal | 39 | 3264 | sandal | 71 | 2432 | unidentified | 261 | 2721 |
| sandal | 40 | 3309 | sandal | 72 | 2689 | unidentified | 262 | 3033a |
| sandal | 41 | 2864 | sandal | 73 | 870a | unidentified | 263 | 2763 |
| sandal | 42 | 2616 | sandal | 73 | 870b | unidentified | 264 | 2725 |
| sandal | 43 | 2903 | sandal | 73 | 870c | unidentified | 265 | 3102a |
| sandal | 44 | 1643a | sandal | 74 | 2356 | unidentified | 265 | 3102b |
| sandal | 45 | 1708 | sandal | 75 | 3787 | unidentified | 266 | 3013a |
| sandal | 46 | 1660a | sandal | 76 | 1629b | unidentified | 266 | 3013c |
| sandal | 46 | 1660b | sandal | 77 | 3757a | unidentified | 267 | 1164 |
| sandal | 47 | 1710 | sandal | 78 | 2118 | unidentified | 268 | 1588 |
| sandal | 48 | 1647a | sandal | 79 | 2125 | unidentified | 269 | 811 |
| sandal | 49 | 1684b | sandal | 80 | 1104a | unidentified | 270 | 793b |
| sandal | 49 | 1684c | sandal | 80 | 1104b | unidentified | 270 | 793c |

| Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. |
|--------------|---------------------|----------|--------------|---------------------|----------|--------------|---------------------|----------|
| unidentified | 271 | 1699a | unidentified | 296 | 903 | unidentified | 333 | 785a |
| unidentified | 272 | 1699b | unidentified | 297 | 1502 | unidentified | 333 | 785b |
| unidentified | 272 | 1699d | unidentified | 298 | 1551 | unidentified | 334 | 1684a |
| unidentified | 273 | 1629a | unidentified | 299 | 1501 | unidentified | 335 | 3008a |
| unidentified | 273 | 1629d | unidentified | 300 | 2331 | unidentified | 335 | 3008c |
| unidentified | 274 | 2082a | unidentified | 301 | 1222 | unidentified | 335 | 3008d |
| unidentified | 274 | 2082b | unidentified | 302 | 1378a | unidentified | 335 | 3008e |
| unidentified | 275 | 2093 | unidentified | 302 | 1378b | unidentified | 336 | 3032 |
| unidentified | 276 | 1263a | unidentified | 303 | 1380 | unidentified | 337 | 780 |
| unidentified | 276 | 1263b | unidentified | 304 | 1232b | unidentified | 338 | 2650 |
| unidentified | 277 | 1719a | unidentified | 304 | 1232c | unidentified | 339 | 866 |
| unidentified | 277 | 1719c | unidentified | 305 | 2048 | unidentified | 340 | 3726a |
| unidentified | 278 | 1314 | unidentified | 306 | 2919 | unidentified | 340 | 3726c |
| unidentified | 279 | 2169 | unidentified | 307 | 2908 | unidentified | 341 | 3727a |
| unidentified | 280 | 1521 | unidentified | 308 | 2905a | unidentified | 342 | 3724a |
| unidentified | 281 | 2059 | unidentified | 308 | 2905b | unidentified | 343 | 3720 |
| unidentified | 282 | 136a | unidentified | 309 | 2613 | unidentified | 344 | 3719 |
| unidentified | 282 | 136b | unidentified | 310 | 2633 | unidentified | 345 | 3715b |
| unidentified | 282 | 136c | unidentified | 311 | 1218b | unidentified | 345 | 3715c |
| unidentified | 283 | 963 | unidentified | 312 | 3217 | unidentified | 345 | 3715i |
| unidentified | 284 | 1605a | unidentified | 313 | 2793 | unidentified | 346 | 3713b |
| unidentified | 284 | 1605c | unidentified | 314 | 2822 | unidentified | 347 | 3711b |
| unidentified | 284 | 1605d | unidentified | 315 | 2601 | unidentified | 347 | 3711c |
| unidentified | 284 | 1605e | unidentified | 316 | 3212 | unidentified | 348 | 3705a |
| unidentified | 285 | 2166 | unidentified | 317 | 3276 | unidentified | 348 | 3705b |
| unidentified | 286 | 1636a | unidentified | 318 | 1197 | unidentified | 348 | 3705c |
| unidentified | 286 | 1636b | unidentified | 319 | 3103 | unidentified | 349 | 3718a |
| unidentified | 286 | 1636c | unidentified | 320 | 1643b | unidentified | 349 | 3718b |
| unidentified | 287 | 884a | unidentified | 321 | 1647b | unidentified | 349 | 3718c |
| unidentified | 287 | 884b | unidentified | 321 | 1647c | unidentified | 349 | 3718d |
| unidentified | 288 | 801b | unidentified | 321 | 1647d | unidentified | 349 | 3718f |
| unidentified | 288 | 801d | unidentified | 322 | 969a | unidentified | 350 | 3722 |
| unidentified | 288 | 801e | unidentified | 322 | 969b | unidentified | 351 | 3717a |
| unidentified | 288 | 801f | unidentified | 323 | 948 | unidentified | 352 | 3714a |
| unidentified | 288 | 801g | unidentified | 324 | 1257 | unidentified | 353 | 3709b |
| unidentified | 288 | 801h | unidentified | 325 | 1295a | unidentified | 354 | 3704a |
| unidentified | 289 | 1693 | unidentified | 326 | 2654a | unidentified | 354 | 3704c |
| unidentified | 290 | 1691b | unidentified | 326 | 2654b | unidentified | 354 | 3704d |
| unidentified | 291 | 1341 | unidentified | 327 | 3029 | unidentified | 354 | 3704f |
| unidentified | 292 | 2391 | unidentified | 328 | 3006 | unidentified | 355 | 1903 |
| unidentified | 293 | 950 | unidentified | 329 | 1672 | unidentified | 356 | 3703 |
| unidentified | 294 | 997b | unidentified | 330 | 945 | unidentified | 357 | 3700a |
| unidentified | 295 | 978b | unidentified | 331 | 1509 | unidentified | 357 | 3700b |
| unidentified | 295 | 978c | unidentified | 332 | 1508 | unidentified | 358 | 3701a |
| | | | | | | | | |

| Description | Catalogue Number | Find No. | Description | Catalogue Number | Find No. |
|--------------|---------------------|----------|--------------|---------------------|----------|
| unidentified | 358 | 3701b | unidentified | 388 | 3782f |
| unidentified | 359 | 3799 | unidentified | 389 | 3446 |
| unidentified | 360 | 3795a | unidentified | 390 | 3448 |
| unidentified | 361 | 3794a | unidentified | 391 | 3778a |
| unidentified | 361 | 3794b | unidentified | 391 | 3778b |
| unidentified | 362 | 3770b | unidentified | 392 | 3773a |
| unidentified | 363 | 3762 | unidentified | 392 | 3773b |
| unidentified | 364 | 3755a | unidentified | 392 | 3773c |
| unidentified | 364 | 3755b | unidentified | 393 | 3749a |
| unidentified | 365 | 3763b | unidentified | 393 | 3749b |
| unidentified | 366 | 3786d | unidentified | 394 | 3758b |
| unidentified | 367 | 3757b | unidentified | 395 | 3741a |
| unidentified | 368 | 3756a | unidentified | 395 | 3741b |
| unidentified | 368 | 3756b | unidentified | 396 | 3740 |
| unidentified | 369 | 3750 | unidentified | 397 | 3739 |
| unidentified | 370 | 3744 | unidentified | 398 | 3736a |
| unidentified | 371 | 3796 | unidentified | 399 | 3730 |
| unidentified | 372 | 3791 | unidentified | 400 | 3733a |
| unidentified | 373 | 3790b | unidentified | 400 | 3733d |
| unidentified | 373 | 3790d | unidentified | 400 | 3733h |
| unidentified | 374 | 3789a | unidentified | 401 | 3728 |
| unidentified | 374 | 3789b | unidentified | 402 | 3731 |
| unidentified | 375 | 3785 | unidentified | 403 | 3729 |
| unidentified | 376 | 3780a | unidentified | 404 | 3753a |
| unidentified | 376 | 3780b | unidentified | 404 | 3753c |
| unidentified | 377 | 3776 | unidentified | 404 | 3753d |
| unidentified | 378 | 3774 | unidentified | 405 | 3742a |
| unidentified | 379 | 3783c | unidentified | 406 | 3752a |
| unidentified | 380 | 3781a | unidentified | 407 | 3800 |
| unidentified | 380 | 3781b | unidentified | 408 | 3451a |
| unidentified | 381 | 3784a | unidentified | 408 | 3451b |
| unidentified | 381 | 3784b | unidentified | 409 | 3464 |
| unidentified | 382 | 3761a | unidentified | 410 | 1694 |
| unidentified | 382 | 3761b | | | |
| unidentified | 382 | 3761c | | | |
| unidentified | 383 | 3771 | | | |
| unidentified | 384 | 3769 | | | |
| unidentified | 385 | 3767 | | | |
| unidentified | 386 | 3765a | | | |
| unidentified | 387 | 3764a | | | |
| unidentified | 387 | 3764b | | | |
| unidentified | 388 | 3782a | | | |
| unidentified | 388 | 3782d | | | |
| unidentified | 388 | 3782e | | | |
| | | | | | |



SANDALS, SHOES AND OTHER LEATHERWORK FROM THE COPTIC MONASTERY DEIR EL-BACHIT. ANALYSIS AND CATALOGUE

The Coptic monastery and cemetery Deir el-Bachit stands on the hilltop of Dra' Abu el-Naga, the well-known necropolis in Qurna (West Bank, Luxor). It is the largest Coptic monastery complex preserved in Western Thebes and the first monastery that has been systematically investigated. The excavation of the monastery was started as a DFG-Project des Ägyptologischen Instituts der Ludwig-Maximilians-Universität München in close collaboration with the Deutsches Archäologisches Institut Abteilung Kairo.

Until the start of the investigations in 2001 with a survey, little research was done. After three seasons of preliminary research, full archaeological research was started in 2004. The leatherwork was studied in 2007, the results of which are presented in this volume. The book consists of two parts: the analysis and a detailed catalogue, including colour images of all finds and, where necessary, line drawings. The finds are analysed within the framework of the excavation as well as within the frameworks of the Ancient Egyptian Leatherwork Project and the Ancient Egyptian Footwear Project (www.leatherandshoes.nl).

André J. Veldmeijer (assistant director for Egyptology at the Netherlands Flemish Institute Cairo) studied archaeology at Leiden University (The Netherlands) and received his PhD from Utrecht University (The Netherlands). He has worked in Egypt since 1995 as a leather, footwear and cordage specialist for various missons (including Amarna, Berenike, Dra' Abu el-Naga, Elephantine, Hierakonpolis and Qasr Ibrim). He has also worked in several collections all over the world, studying ancient Egyptian leatherwork and footwear, and is the director of two ongoing research projects: Ancient Egyptian Leatherwork Project (including the Egyptian Museum Chariot Project) and Ancient Egyptian Footwear Project (www.leatherandshoes.nl). He has published extensively, among which are the monographs Tutankhamun's Footwear (2010) and Amarna's Leatherwork (2010). Veldmeijer is one of the founders and current chairman of the PalArch Foundation (www.PalArch.nl).

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