

The leather catalogue

Clare Thomas with the late N Q Bogdan and P Z Dransart

With few exceptions only the illustrated leather fragments appear in this catalogue. Exceptions are fragments associated with illustrated pieces, for example conjoining uppers and soles, those associated with other materials eg metal, those

which retain impressions of other materials or those from which a radiocarbon (¹⁴C) date was obtained. The catalogue numbering system follows the original leather catalogue, which is preserved in the site archive.

South Sector

1 Sole (Type 6) Leather

Left sole with wide seat, wider waist and broad forepart ending in pointed toe, bent over. Delaminated and worn. Edge–flesh stitching channel; stitch length 3.5mm. Length 250.5mm; maximum width of forepart 97mm; width of waist 82mm; width of seat 80mm; thickness 3mm. Conserved. 11th–12th centuries. A12303a; L0066; C3868–1; MC002; Phase Ia; Rigs V and VI Illus 122

5 Sole (Type 1) Leather

Delaminated sole of either foot with most of seat and centre forepart, probably rounded toe. Stitching channels of edge–flesh seam; hole diameter 1 mm; stitch length 4–4.5mm. Surviving length 142mm; maximum width of seat 64mm; maximum width of forepart 75mm; width of waist 60mm; thickness 0.5mm. Conserved. 12th–13th centuries. Radiocarbon date of 1060±35 BP (calibrated at 95 per cent probability to AD 890–1030) obtained. A12300a; C3869–1; MC002; Phase Ia; Rigs V and VI Not illustrated

6 Sole (Type 6) Leather

Delaminated fragment of very worn right sole, with slight narrowing for waist; broad forepart ending in pointed extension, tip of which is missing. Large hole in centre forepart, smaller hole at great toe area. Outer part of seat missing. Edge–flesh stitching channel; stitch length 3–4mm. Length 203mm; maximum width of forepart 78mm; width of waist 50mm; thickness 2mm (outer edge of forepart), 1mm (hole in centre of forepart). Pointed area probably extends c25mm beyond great toe area. Conserved. No closely similar published parallels. 11th–12th centuries. A12300b; C3869–1; MC002; Phase Ia; Rigs V and VI Illus 122

8 Offcut Leather

Offcut, delaminated; rectangular c70mm by 90mm by 1mm. Conserved. Radiocarbon date of 910±35 BP (calibrated at 95 per cent probability to AD 1030–1210) obtained. A12300d; C3869–1; MC002; Phase Ia; Rigs V and VI Not illustrated

26 Miscellaneous fragment Leather

Approximately rectangular fragment, about a quarter of which has evidently been folded over; loosely oversewn along long folded-over edge. Tightly oversewn along other long edge, and along one short edge. Other short edge torn. Fragment is perforated by four horizontal bands of short vertical cuts. Leather in top band (on folded-over part) lies flat; in other three bands alternate strips of leather stand up, others depressed as if thong or lace had been passed through them. On flesh side is a row of seven (and traces of another two) tunnel stitches between second or third rows– for attachment to something. Decorative top band for boot? or binding of clothing. Conserved. cf York (Tweddle 1986, 255–256, Fig 117 no 859) A10499; L1698; C3822–1; MC006, T3852; Phase Ib; Rig VI Illus 158

27 Strap (folded once) Leather (cattle hide)

Top band for matching upper Cat No 30/A10800d. Length 285 mm; width 6 mm (folded); thickness 3 mm (folded). Conserved. A10800a; L0073; C3774–1; MC008; T3774; Phase Ib; Rig V Not illustrated

28 Sole (Type 6) Leather

Left sole with only very slight narrowing for waist, and with broad and straight forepart, ending in point. Very worn and delaminated. Both seat and forepart have been repaired with clump soles. Edge–flesh stitching channel; stitch length 3.5–4.5mm. Length 240mm; maximum width of forepart 84mm; width of waist 68mm; maximum width of seat 69mm; thickness 3mm. Matches Upper (Type Bi) Cat No 30/A10800d, and Strap Cat No 27/A10800a. Conserved. 11th–12th centuries A10800b; L0073; C3774–1; MC008; T3774; Phase Ib; Rig V Illus 122

30 Upper (Type Bi) Leather

Fragment of upper of ankle boot with tunnel hole and single hole for one horizontal thong. Comprises vamp, vamp wing, vamp throat, quarters and leg flap. Not clear whether quarters and vamp wing join. Round hole in vamp wing– probably for thong; also tunnel hole in quarters. Lasting margin with stitching channel of grain–flesh holes; stitch length 4.5–5mm.

Edge–flesh stitching channels on vamp wing, vamp throat and quarters; stitch length 3–4mm. Top edge of quarters and leg flap and vertical edge of leg flap oversewn. Matches Sole (Type 6) Cat No 28/A10800b, and Strap Cat No 27/A10800a. Conserved. 12th–13th centuries
A10800d; L0073; C3774–1; MC008, T3774; Phase Ib; Rig V
Illus 129

43 Sole (Type 6) Leather

Left, very broad and squat with pointed toe, now bent over. Large hole in centre forepart, smaller hole in great toe area, slight crack towards rear of seat. Clump soles added to seat, centre forepart and front of forepart. Very delaminated. Edge–flesh stitching channel; stitch length 3.5–4mm. Length 208mm; maximum width of forepart 85mm; width of waist 61mm; maximum width of seat 62mm; thickness 2–3mm. Conserved. 11th–12th centuries.
Radiocarbon date of 840±35 BP (calibrated at 95 per cent probability to AD 1150–1270) obtained.
A8525; C3742–1/2; M2.1b; Phase Ic; Rigs V and VI
Illus 122

54 Sole (Type 1)? Leather

Fragment, left, with seat, waist and some of forepart, delaminated and worn, with very large hole in seat. Edge–flesh stitching channel; stitch length 5–7 mm; maximum surviving length c255mm; maximum width of forepart c115mm; width of waist 72mm; maximum width of seat 85mm. Thickness not measured because of delamination. Conserved.
Radiocarbon date of 975±35 BP (calibrated at 95 per cent probability to AD 990–1160) obtained.
A9886a; C3767–1/2; M2.1b; Phase Ic; Rigs V and VI
Not illustrated

55 Upper Leather: cattle hide and wool

Fragment of upper with vamp with oval toe, vamp wing and with part of quarters. Lasting margin with grain–flesh stitching channel: stitch length 4–6.5mm. Edge–flesh stitching channels; stitch length 3.5–4mm on vamp wings and quarters. Wool survives in some stitch holes. Conserved.
A9886b; L0074; C3767–1/2; M2.1b; Phase Ic; Rigs V and VI
Illus 144

60 Strap/belt (folded twice) Leather (cattle hide)

Fragment of strap or belt formed by folding one piece of leather twice; edges have been joined where they meet in centre of reverse with butted edge–grain seam; stitch length 6mm, 8mm, 7.5mm, 6.5mm. At one end, belt has been cut across diagonally. At other end pierced by holes, for buckle? Surviving length 238mm; width 42–46mm; single thickness 3mm. Conserved.
A8636a; L1677; C3737–1/2; M2.1b and B10, South Room–Floor/Occupation (1); Phase Ic, Icc; Rigs V and VI
Illus 150

62 Sole (Type 1) Leather

Child's left sole with rounded toe, worn at rear of seat and at great toe area, where there are traces of holes for clump sole. Cracked at outside waist. Delaminated. Length 167.5mm; maximum width of forepart 66mm; width of waist none;

maximum width of seat 54mm; thickness 3mm. Conserved. 12th–13th centuries.
A8704a; C3737–1/2; M2.1b and B10, South Room–Floor/Occupation (1); Phase Ic, Icc; Rigs V and VI
Illus 124

63 Strap (folded once) Leather

At one end, round hole diameter c1mm; at other end, two round holes diameter c1mm. Length c240mm; width 5–6mm; thickness 2mm. Top band of upper? Conserved.
A8704b; C3737–1/2; M2.1b and B10, South Room–Floor/Occupation (1); Phase Ic, Icc; Rigs V and VI
Illus 148

65 Upper (Type E) Leather

Large fragment of upper of low cut shoe, consisting of vamp, vamp wing and throat, quarters and two small latches. Almost complete upper, side-piece missing between vamp wing and quarters. Rounded toe, low throat with two latches which do not meet. Rear of quarters slightly domed forming a peak. Lasting margin with stitching channel with grain–flesh holes; stitch length 4.5–5.5mm. Edge–flesh stitching channels on vamp wing, on vertical edge of quarters, and on lowest part of vamp throat; stitch length 3–4mm. Top edges of throat, vamp wing and quarters oversewn. On interior of quarters, tunnel holes mark position of approximately semi-circular stiffener, which survives separately. Conserved. Early–mid 12th century.
A8808; L0075; C3737–1/2; M2.1b and B10, South Room–Floor/Occupation (1); Phase Ic, Icc; Rigs V and VI
Illus 138

67 Upper (Type Aii) Leather (cattle hide)

Two large fragments and stiffener of upper of low ankle boot, with no thongs or holes for thongs. Larger fragment comprises rounded vamp, vamp wing, vamp throat, quarters and leg flap. On flesh side of quarters are stitch holes for small semi-circular stiffener, which survives separately. Smaller fragment is second leg flap. Lasting margin with grain–flesh stitching channel; stitch length 3.5–4mm. Edge–flesh stitching channels on vamp wing, throat, quarters and leg flaps; stitch length 2.5–3.5mm. Top edges of quarters and leg flaps oversewn. Conserved. 12th–14th centuries.
A8809b; C3737–1/2; M2.1b and B10, South Room–Floor/Occupation (1); Phase Ic, Icc; Rigs V and VI
Illus 128

68 Sole (Type 1) Leather (cattle hide)

Left sole with wide seat and waist, broad straight-sided forepart, outer front partly bent over (because unnecessary space), broad rounded toe. Edge–flesh stitching channel; stitch length 3.5–5mm. Worn, cracked and delaminated. Very large hole in seat, small hole and big crack in centre forepart, and large hole in great toe area. Only very slight indications of tunnel stitches for repair clumps on underneath of side of sole. Conserved. 12th–13th centuries.
A8809c; L0076; C3737–1/2; M2.1b and B10, South Room–Floor/Occupation (1); Phase Ic, Icc; Rigs V and VI
Illus 117

91 Miscellaneous fragment Leather (cattle hide)

Approximately triangular fragment, with stitched edges turned inwards; stitching channels of grain–flesh holes; hole diameter c1mm; stitch length 2.5–4mm. Possibly fragment of clothing, insert or gusset. Conserved.

A8688c; L1645; C3722–1/2; B10, South Room–Occupation (2b); Phase Icc; Rig V
Illus 159

103 Sole (Type 1) Leather

Large left sole, almost straight-sided, with no waist; forepart wide with very broad rounded toe. Very worn with large hole in rear of seat and crack to inner edge; also very large hole in inner front half of forepart. Very delaminated. Edge–flesh stitching channel; stitch length 4.5–7mm. Length 263mm; maximum width of forepart 104mm; width of waist 85mm.

Conserved. 12th–13th centuries

A03–0001; L0402; C4781–4; MC017; Phase Ia–Icc>; Rig V/VI
Illus 116

105 Upper (vamp) Leather (cattle hide)

Vamp with oval toe, vamp wing and rounded throat. Lasting margin with stitching channel of grain–flesh holes; stitch length, 5mm, 6mm, 6.5mm, 7mm. Edge–flesh stitching channels on vamp wing and throat; stitch length 4.5mm, 5mm. Very worn and delaminated, most of grain layer missing. Conserved.

A10798b; L0037; C2399–4; MC018, Pit 2398; Phase Ib–Id; Rig VI

117 Upper (Type Bi) Leather (cattle hide)

Fragment of almost complete upper of ankle boot, of typical one piece wrap-around style, with tunnel-hole for one horizontal thong. Comprises vamp, vamp throat, vamp wings, quarters and leg flap. Tunnel hole for horizontal thong on closed side of upper. Lasting margin with grain–flesh stitching holes; stitch length c7mm; dimensions of holes c3mm by 1.5mm. Edge–flesh stitching channels on vamp wing, quarters, throat and leg flap. Top edges oversewn. Conserved. 12th–13th centuries.

A03–0002b; C4752–4; MC023; Phase Icc,Id; Rigs V and VI
Illus 129

125 Sole (Type 1) Leather

Right sole with rounded forepart, complete but worn at both seat and forepart. Edge–flesh stitching channel; stitch length 3.5–5mm; diameter of holes c1mm. Length 186mm; maximum width of forepart 82mm; maximum width of seat 61mm; width of waist 60mm; thickness, outer edge of waist 4mm, inner edge of forepart 4.5mm, outer rear edge of seat 5mm. Probably matches Upper (Type Bi) Cat No 126/A12297b. Conserved. 12th–13th centuries.

A12297a; L0056; C5097–3; MC025, Pit 5337; Phase (Ia–)Id; Rig V
Illus 116

126 Upper (Type Bi) Leather

Large fragment, plus stiffener, of upper of child's ankle boot, with tunnel holes for one horizontal thong on each side of boot. Comprises vamp, vamp wing, quarters and leg flap. Complete except for second leg flap. Impression of stiffener on flesh side of quarters and vamp wing. Small triangular stiffener, with

lasting margin and with stitch holes for attachment to upper, survives separately. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Edge–flesh stitching channels on vamp wing, vamp, throat and quarters. Vertical and top edges of leg flap oversewn. Matching Sole (Type 1) Cat No 125/A12297a. Conserved. 12th–14th centuries.

A12297b; L0056; C5097–3; MC025, Pit 5337; Phase (Ia–)Id; Rig V
Illus 129

127 Upper (Type Aii) Leather

Fragment of upper of low ankle boot comprising part of vamp, vamp throat, vamp wing, quarters and one leg flap. Vamp wing and quarters join, ie basically one-piece boot, missing second leg flap. Lasting margin with grain–flesh stitching channel; stitch length 4.5–6mm. Edge–flesh stitching channel on vamp throat; vamp wing and vertical edge of quarters; stitch length 2–3.5mm. Short tear in vamp wing has been repaired with butted grain–flesh stitching channel; stitch length 3–4mm. Top edges of quarters, leg flap and vamp wing have been oversewn. Small hole (diameter 1.5mm) may be for thong. On flesh side of quarters, tunnel stitching for long low semi-circular stiffener. Worn with much of lasting margin missing. Thickness c1mm. Conserved. 12th–14th centuries.

A12306; L2478; C5097–3; MC025, Pit 5337; Phase (Ia–)Id; Rig V
Illus 128

130 Sole (seat) Leather

Cut across middle; edge–flesh stitching channel; stitch length 5.5mm, 6.5mm, 7 mm. Very worn. Surviving length 60mm; maximum width 88mm; thickness, centre cut across middle of seat 2mm; crack in seat 1.5mm; stitching channel seam. Conserved.

Radiocarbon date of 700±35 BP (calibrated at 95 per cent probability to AD 1250–1320) obtained.

A12308c; L1695; C5097–3; MC025, Pit 5337; Phase (Ia–)Id; Rig V
Not illustrated

142 Strap (folded once) Leather

Edges oversewn. Probably top band of low boot, Upper (Type Aii) Cat No 144/A7789c. Worn and delaminated. Length c280mm; width, folded once, 7–8mm. Conserved.

A7789a; L1713; C3639–2; P5.2a; Phase Ie; Rig VI
Not illustrated

143 Sole (Type 1) Leather

Straight, wide right sole with short seat, only very slight narrowing for waist, and long broad forepart, both sides only very slightly curved; front very broad and rounded. Sole is almost symmetrical and is only identified as right foot by hole in front forepart and by wear pattern on reverse. Also hole in centre of seat. Edge–flesh stitching channel; stitch length 4.5–7.5mm. Length 197.5mm; maximum width of forepart 81mm; width of waist 61.5mm; maximum width of seat 67mm. Thickness: outer edge of waist and forepart, inner edge of waist 3.5mm; upturned edge of rear seat 5.5mm; inner edge of seat 3mm; outer edge of seat and inner edge of forepart 4mm; worn edges of holes 0.5–0.75mm. Conserved. 12th–13th centuries.

A7789b; L1713; C3639–2; P5.2a; Phase Ie; Rig VI
Illus 117

144 Upper (Type Aii) Leather

Fragment of low ankle boot, with no thongs, comprising vamp and quarters. Lasting margin with stitching channel of grain–flesh holes; stitch length 5mm and 5.5mm. Vertical edge of quarter with edge–flesh seam; stitch length 3.5mm; vertical edge of surviving short leg flap and top edge of quarters oversewn, probably for top band Cat No 142/A7789a (see Straps, folded once). Small semi-circular stiffener survives separately, some of the stitch holes for it just visible on flesh side of quarters. Grain side of stiffener against flesh side of quarters. Very worn and delaminated. Thickness c1mm. Conserved. 12th–14th centuries. Radiocarbon date of 780±35 BP (calibrated at 95 per cent probability to AD 1185–1285) obtained. A7789c; L1713; C3639–2; P5.2a; Phase Ie; Rig VI
Not illustrated

146 Toggle Leather

Short thong rolled into toggle at one end with grain–flesh holes at the other end, for attachment to shoe/garment/article. Length of thong 22mm; thickness 1–2mm. Length of toggle 17.5mm; thickness 6mm. Conserved. A11658; C5158–3; MC037a, Pit 5157; Phase Ia–Ie; Rig VI
Illus 150

153 Strap/belt (folded twice) Leather and Cu alloy

Fragment formed of one piece folded twice and stitched up centre of reverse in butted edge–grain seam. Both sides of strap perforated by line of short diagonal strokes parallel with each folded edge. Centre of both sides also perforated by round holes c1.5–2mm in diameter, and 18mm, 15mm, 17.5mm, 16.5mm, 15.5mm, 16mm apart. Fourteen holes survive. In one hole is copper alloy stud with domed head on reverse and pin or shank of shaft almost appearing on obverse. Area around hole on obverse marked by impression of concentric circle and square. Belt torn/cracked at both ends; diagonal slits end c40mm before one end. Length 365mm; width 19–23mm; thickness 4mm. Conserved. A12312b; C5158–3; MC037a, Pit 5157; Phase Ia–Ie; Rig VI
Illus 149

156 Sole (Type 3) Leather (cattle hide)

Left sole with rounded seat, narrow waist and slender forepart with oval toe. Very worn; portion of front of forepart is missing; large hole in seat. Edge–flesh stitching channel, stitch length 4–7mm; close concentration of stitch holes at inside waist. Length 223.5mm; maximum width of forepart 83mm; width of waist 44mm; maximum width of seat 65mm. Thickness, front of outer and inner edges of forepart 4mm; inside waist, rear of inner edge of forepart, outside edge of seat, waist and rear of forepart 4.5mm; inner edge of seat 5mm. Matches Upper (Type H) 163/A7787j. Conserved. 13th–14th centuries. A7787c; L1762; C3672–1/2; B6 (Phase 1), South Room–Floor (1); Phase Ie; Rig VI
Illus 141

161 Upper (Type Biii) Leather

Three fragments of upper of boot, with vertical thonging and impression of horizontal thong. Largest fragment comprises vamp, vamp wing, vamp throat, leg flap and part of quarters, with tunnel stitch holes for semi-circular stiffener, on flesh side. Vertical thong on closed side of quarter; two short stretches on grain surface; length of stretches of thong on grain side 5.5mm; thickness 1mm; width 7mm; distance between the two stretches 18mm. Second fragment, tall, thin, approximately trapezoidal, joins quarters of largest fragment. Short stretch of thong, total length 23mm; only one short stretch on grain side, length 7mm. Above, two irregular vertical slits forming horizontal tunnel, possibly caused by pressure from vertical thong on flesh side. Third fragment is second leg flap. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm, most of the lasting margin missing. Edge–flesh stitching channels at vamp wing, vamp throat, vertical edge of leg flap, on two edges of third fragment. Vertical edges of quarters and leg flaps oversewn. Parts of quarters and vamp very worn. Thickness 2–2.5mm. Conserved. 12th–13th centuries. A7787h; L1761; C3672–1/2; B6 (Phase 1), South Room–Floor (1); Phase Ie; Rig VI
Illus 132

162 Upper (Type E) Leather

Large fragment of upper of low shoe, comprising vamp, vamp throat, vamp wing, latchet and quarters. Quarters and vamp wing probably join; second latchet missing. Vamp has been decorated with three approximately parallel lines cut from vamp throat to toe. Lasting margin with stitching channel of grain–flesh holes; stitch length 4.5–5mm. Edge–flesh stitching channels on vamp wing, vamp throat, vertical edge of quarters and vertical edge of latchet; stitch length 3.5mm. Quarters very worn and torn. Thickness 2mm. Conserved. 12th century. A7787i; L1761; C3672–1/2; B6 (Phase 1), South Room–Floor (1); Phase Ie; Rig VI
Illus 138

163 Upper (Type H) Leather

Two fragments of upper of high calf boot, with vamp separate from quarters and leg. Vamp is in one piece, with rounded toe, lasting margin with stitching channel of grain–flesh holes; stitch length 5mm, 6mm, 7mm. Edge–flesh stitching channels at vamp throat and on both sides of vamp wing; stitch length 3mm. Thickness 1mm. Very worn. On flesh side are tunnel stitches c15mm above lasting margin, matching tunnel stitching on quarters–repair of lasting margin, but from inside (see below). Larger fragment comprises quarters and leg. Lasting margin with grain–flesh stitching channel; stitch length 5–6mm; very worn. On flesh side are tunnel stitches above lasting margin, as on vamp, as well as for a triangular stiffener. Tunnel stitches above lasting margin do not appear to cross zone of stiffener. Unlikely to be repair, from inside; possibly for lining, whose top edge would have been secured by hem stitch at top edge: otherwise, possibly stiffener or strengthening strip

reinforcing lasting margin-like rand, but on inside of upper; unusual. Leg of boot much higher than on other examples; maximum height from lasting margin c350mm. Edge–flesh stitching channels where quarters join vamp wings and where leg flaps join vamp throat; edge–flesh stitching channels on vertical edges of leg show that these were joined together; stitch length 3–4.5mm. About two-thirds of top edge oversewn, the rest has edge–flesh stitching channel; stitch length 3–4mm; indicating that small, probably triangular, fragment of leg is missing. Fragment is very worn. Thickness c1mm. Matching Sole (Type 3) Cat No 156/A7787c. Conserved. 12th–14th centuries; sole: 13th–14th centuries. A7787j; L1762; C3672–1/2; B6 (Phase 1), South Room–Floor (1); Phase Ie; Rig VI
Illus 141

165 Sole (Type 1) Leather (cattle hide)

Wide seat, waist, broad forepart, sides of whole sole very straight; toe very broad and rounded. Holes at great toe area and at rear of seat. Delaminated. Edge–flesh stitching channel; stitch length 3.5–5mm. Length 256.5mm; maximum width of forepart 109mm; width of waist 85mm; maximum width of seat 88.5mm. Conserved. 12th–13th centuries. A7256a; L0084; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 116

172 Strap (folded once) Leather and silk

Strap with silk thread on one side; two rows of very light brown stitching with a row of pink stitching sandwiched between. Thread does not penetrate to the other side of strap, though some of it is partially sewn through other side, hence sealing off fold of strap. Two cut edges of strap were stitched. Strap is approximately same length as top edge of Upper (Type Aii), Cat No 174/A7580c, therefore most probably was top band of this shoe. Length c290mm; width (folded) 10–12mm; width of stitched area 6mm; thickness (folded) 3mm. Conserved. Upper: 12th–14th centuries. A7580a; L0085; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 148

173 Sole (Type 2) Leather (cattle hide)

For right foot, with short narrow seat, wide waist and long broad forepart, ending in oval toe. Partially delaminated; slight wear on underside of seat. Edge–flesh stitching channel; stitch length 4–6mm. Length 221.5mm; maximum width of forepart 90mm; width of waist 54mm; maximum width of seat 59mm. Matches Upper (Type Aii) 174/A7580c. Conserved. 12th–13th centuries. A7580b; L0085; C3622–2; M14b(b); Phase Ie; Rig VI
Not illustrated

174 Upper (Type Aii) Leather

Three fragments of almost complete low ankle boot with no trace of thongs. Largest fragment consists of vamp, vamp wing, vamp throat, quarters and leg flap. Second fragment, side-piece, linking vamp wing and quarters. Third fragment, leg flap. Lasting margin with stitching channel of grain–flesh holes; stitch length 4.5–6mm. Edge–flesh stitching channels on vamp wing, vamp throat, quarters, side-piece and leg flaps;

stitch length 3–4.5mm. Top edges of quarters and leg flaps oversewn. Matching Sole (Type 2) Cat No 173/A7580b, and Strap (folded once) Cat No 172/A7580a. 12th–14th centuries. A7580c; L0085; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 126

179 Upper (Type Bii)? Leather

Large fragment of upper of low boot with tunnel holes for four horizontal rows of thongs, with two thongs surviving. Comprises vamp, vamp wing, vamp throat, quarters and leg flap. Very worn, cracked in several places, front of vamp missing. Vamp wing and quarters do not join. On flesh side of quarters are tunnel stitch holes for triangular stiffener. On leg flap are four horizontal tunnel holes, one above the other; thongs pass through two of these. End of one thong split in order to fasten over toggle on second (missing) leg flap? If so, not Upper (Type Bii), but Upper (Type K). Near top of vamp wing are a pair of small holes, probably for thong, suggesting wrap-around thong, therefore type Bii. Lasting margin with grain–flesh stitching channel; stitch length 5mm. Edge–flesh stitching channels on vamp wing, vamp throat and vertical edge of quarters; stitch length 3mm. Vertical edge of leg flap cut. Side-piece and second leg flap missing. Conserved. 12th–14th centuries. A7589e; L1723; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 131

182 Sole Leather

Two fragments of child's sole consisting of worn seat and waist and thin strip joining at waist. Edge–flesh stitching channel; stitch length 4–6mm. Delaminated. Probably matches Upper (Type Bi) Cat No 183/A7579b. Conserved. A7597a; L1656; C3622–2; M14b(b); Phase Ie; Rig VI
Not illustrated

183 Upper (Type Bi) Leather (cattle hide)

Two fragments of upper of child's ankle boot with tunnel hole on either side of quarters for one horizontal thong. Larger fragment comprises vamp, vamp throat, vamp wing, quarters and leg flap; smaller is leg flap. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Edge–flesh stitching channels on vamp wing, vamp throat, quarters and leg flaps; stitch length 3.5mm. Top edges of quarters and leg flap oversewn. Thong?, thin irregular strip survives, top band. Matching Sole Cat No 182/A7597a. Conserved. 12th–14th centuries. A7597b; L1656; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 146 (does not show Cat No183)

185 Sole (Type 1) Leather (cattle hide)

Very straight and long, with no waist; broad round toe, probably left foot, judging from fold at front of forepart. Very worn and delaminated, most of grain layer missing. Edge–flesh stitching channel; stitch length 4–5.5mm. Length 257mm; width of waist 71mm; maximum width 89mm. Thickness: outer edge 3mm; rear of seat 4mm; folded over edge of front forepart. 2.5mm. Conserved. 12th–13th centuries. A7600a; L0030; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 117

186 Upper (Type G) Leather

Large fragment of upper of shoe with central fastening, comprising vamp, vamp wing, low throat, quarters and latchet ending in thong. Vamp wing and quarters join. Tunnel stitching for rounded stiffener which survives separately. Rounded throat; cut with no stitching channels, decorated with thin strip and three approximately oval holes. Top edge cut. Probably missing a second latchet which would have had either a thong or a hole for a thong on surviving latchet. Lasting margin with grain–flesh stitching channel; stitch length 3.5–5mm. Edge–flesh stitching channel on vamp wing and quarters; stitch length 2–3mm. Thickness 1–2mm. Conserved.

A7600b; L0030; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 140

192 Upper (Type Bii) Leather (cattle hide)

Three fragments plus stiffener of high boot with tunnel holes for two horizontal rows of thongs and unused tunnel hole for third thong. Largest fragment comprises vamp, vamp throat, vamp wing and leg flap. Tunnel holes for two horizontal thongs on leg flap, above them a pair of slits form a third tunnel, which seems never to have been used. On flesh side of vamp wing is a diagonal row of tunnel stitching for stiffener. Second fragment is trapezoidal side-piece joining vamp wing and probably quarters. Tunnel stitching on flesh side for stiffener matching that on vamp wing. Stiffener semi-circular with oversewn edges, no surviving lasting margin. Third fragment joins rear of leg flap. Lasting margin with grain–flesh stitching channel; stitch length 6mm. Edge–flesh stitching channels on vamp wing, vamp throat and second fragment; stitch length 4mm. Vertical edge of vamp wing very worn, original stitching channel replaced by a second one by folding grain surface to form an edge. Similar stitching channel on third fragment. Top and vertical edges of leg flap and top edge of side-piece oversewn. Conserved. 12th–14th centuries.

A13004a; L1676; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 131

194 Miscellaneous fragment Leather

One long partly curved edge slightly folded (as with lasting margin) and pierced by pairs of stitch holes (holes c4mm apart), edge indented at one point forming a V. One end torn, the other at right angles to short straight edge, again with pairs of holes but edge not folded. All other edges torn. Very worn, and pierced by four pairs of holes. Part of same object as Cat No 195/13004d? Clothing? Conserved.

A13004c; L1676; C3622–2; M14b(b); Phase Ie; Rig VI
Illus 164

195 Miscellaneous fragment Leather

Very tattered with folded-over curved edge with pairs of holes. Part of same object as Cat No 194/A13004c? Clothing? Conserved.

A13004d; L1676; C3622–2; M14b(b); Phase Ie; Rig VI
Not illustrated

208 Sole (Type 1) Leather

Right sole with wide seat and waist, broad forepart, rounded toe. Very worn and delaminated. Edge–flesh stitching channel; stitch length 5.5–8.8mm. Length 207mm; maximum width of forepart

84mm; width of waist 63mm; maximum width of seat 65mm. Conserved. 12th–13th centuries.

A7434; L0083; C3625–2; M14b(b), Pit 3625; Phase Ie; Rig VI
Illus 117

218 Upper (Type Aii) Leather

Two fragments plus stiffener of low boot with no trace of thongs. Larger fragment comprises vamp, vamp wing, vamp throat, quarters and leg flap. Quarters and vamp wing join in butted edge–flesh seam; stitch holes on flesh side of quarters indicate position of stiffener. Smaller fragment is leg flap. Top right hand corner cut and stitched: deliberate design or repair? Broad triangular stiffener. Lasting margin with grain–flesh stitching channel; stitch length 4–6mm. Edge–flesh stitching channels; stitch length 3–5mm, on quarters, vamp wing and leg flaps. All fragments very worn and delaminated. Conserved. 12th–13th centuries.

A7648b; L0079; C3697–2; M14b(b), Pit 3625; Phase Ie; Rig VI
Illus 127

222 Sole (Type 1), Upper, Clump and Thong

Leather (cattle hide)

Held together by thong. Left sole with oval forepart. Edge–flesh stitching channel; stitch length 5mm, 6mm. Forepart and seat very worn; large part of former missing. Fragment of clump attached to rear of seat, with thong, which passes through sole, clump and upper. Thong knotted at rear of clump, which extends beyond seat, where it is turned up slightly. Holes for clump vary in size, suggesting an earlier repair with wool/thread. Thong holes on upper extend as far as beginning of vamp but no further. Upper consists of part of vamp and thin strip above lasting margin which has grain–flesh stitching channel; stitch length c5mm. Close concentrations of stitch holes suggest repair. Upper type not definable. Sole, clump and upper dry, crumbly and delaminated. Length of sole c280mm (excluding rear of clump); maximum width of forepart 102mm; width of waist 76mm; thickness 4mm. Rest of upper cut away for reuse? Conserved. Sole: 12th–13th centuries.

A7436a; L0082; C3629–2; P5.2b; Phase Ie; Rig VI
Illus 104

229 Upper (Type G) Leather and silk

Fragment of upper of low shoe with latches ending in thongs and with silk thread. Comprises vamp, vamp wing, low cut vamp throat, part of very tattered quarters, and two latches ending in thongs, now knotted together. Lasting margin with grain–flesh stitching channel; stitch length 4mm. Edge–flesh stitching channel on vamp wing; stitch length 2.5mm. Edges of throat, latches and quarters oversewn. Top edge of quarters oversewn with brown silk thread. Fragment is very worn and delaminated. Conserved. Fibre identification L5436. 13th–14th centuries (nearest, but not exact parallel).

A7588c; L1745 and L5436; C3631–2; M14b(c); Phase Ie, If; Rig V
Illus 140

230 Upper (Type Kv) Leather

Fragment of upper, probably with central fastening, of high shoe or low boot, comprising vamp, vamp throat, vamp wing, part of quarters, and latchet, apparently split in two. Faint trace of stiffener on flesh side of quarters. Lasting margin with

grain–flesh stitching channel; stitch length c5mm. Edge–flesh stitching channels on vamp wing, vamp throat and latchet. Top edge of quarters and of latchet oversewn. Latchet, now incomplete, split in two; designed as two separate flaps, or result of accidental split? Conserved. 13th–14th centuries (no exact parallel).

A7588d; L1745; C3631–2; M14b(c); Phase Ie,If; Rig V
Illus 142

239 Upper (Type Biii) Leather

Three fragments of upper of boot with vertical and horizontal thonging. Largest fragment, very worn, comprises vamp, vamp wings, vamp throat, leg flap and quarters. Second fragment joins quarters and vamp wing. Third fragment is second leg flap. Vertical thonging on closed side of quarters; second row of vertical thonging on open side of boot, on both vamp wing and second fragment. Short fragment of horizontal thong held in place by vertical thong on vamp wing. Lasting margin with grain–flesh stitching channel; stitch length 5mm. Edge–flesh stitching channels on vamp wing, vamp throat, quarters, second fragment, and on second leg flap; stitch length 3–4mm. Top edges of quarters and side-piece (second fragment), and top and vertical edges of leg flap oversewn: front of boot open. Lasting margin of quarters forms a small inverted 'V', suggesting that the sole might have had a pointed seat. Thickness 1.5mm. Conserved. 12th–13th centuries.

A7072b; L1667; C3601–2; M14b(c); Phase Ie,If; Rig V
Illus 132

255 Upper (Type Bi) Leather (cattle hide)

Large fragment of upper of child's ankle boot, with tunnel for hole for one horizontal thong on each side of quarters. Comprises vamp, vamp wings, vamp throat, leg flap and quarters/strengthener of peculiar construction. Part of quarters folded inwards and stitched to flesh side of quarters where stitch holes survive. Edge formed by this fold stitched through, equivalent of edge–flesh stitching channel for attachment to vamp wing. Bottom of inturned fragment has lasting margin matching that of quarters. Lasting margin has unusually small, neat round holes, diameter c1mm, stitch length 3–3.5mm. Other stitch holes on flesh side suggest semi-circular stiffener—but not central—and lining for leg flap? Fragment is worn and cracked. Crack at vamp throat, which has been repaired. Line of crack curves irregularly, most probably torn accidentally, not deliberately. Approximate length of boot c215mm; thickness 1.5–2mm. Conserved. 12th–14th centuries.

A12287a; L1771; C5145–3; MC034a; Phase Ie(If); Rig V
Illus 130

262 Sole (Type 1) Leather

Complete right sole with rounded toe, broad forepart, waist and seat. Edge–flesh stitching channel; stitch length c5mm. Worn, with hole in front of forepart. Tunnel stitch holes on reverse indicate that both seat and forepart have been repaired with clump soles, possibly more than once. Length 211mm; maximum width of forepart 85mm; width of waist 65mm; maximum width of seat 70mm. Thickness: inner edge of waist, rear of outer edge of forepart, front of inner edge of forepart, rear of seat 4mm; outer edge of waist, front of outer edge of forepart 5mm. Conserved. 12th–13th centuries.

A7044Bb; L1770; C3604–2; MC044b; Phase If; Rig VI
Illus 117

267 Upper (Type Bi) Leather (cattle hide)

Large fragment of very worn upper of boot, comprising vamp, vamp throat, vamp wing, part of quarters and leg flap. Tunnel holes for one horizontal thong on each side of quarters/vamp wing. Lasting margin with grain–flesh stitching channel; stitch length 5–6mm, and with edge–flesh stitching channels on vamp wing, vamp throat, and on part of top edge of quarters; stitch length 3–3.5mm. Vertical edge of leg flap and rest of top edge of quarters oversewn. Toe to vamp round. Toe of vamp and one side of vamp have been repaired with patches–tunnel stitches on grain side. Quarters very worn. Thickness c2mm. Conserved. 12th–13th centuries.

A7044Bg; L1770; C3604–2; MC044b; Phase If; Rig VI
Illus 130

277 Upper (Type Aii) Leather

Two joining fragments of upper of low ankle boot, comprising vamp, vamp wing, vamp throat, quarters, one leg flap, and side-piece linking quarters and vamp. Small leg flap missing. On flesh side of quarters, a few remaining stitch holes indicate position of semi-circular stiffener. Lasting margin with stitching channel of grain–flesh holes; stitch length 4–5mm. Edge–flesh stitching channels on vamp wing, vamp throat, vertical edges of side-piece, vertical edge of leg flap, and on vertical edge of quarters; stitch length 3mm. Worn and partially delaminated. Top edges of quarter and side-piece oversewn. Conserved. 12th–14th century.

A7074d; L1733; C3604–2; MC044b; Phase If; Rig VI
Illus 128

284 Clump Leather

Seat clump, with tunnel stitching holes. Length 118mm; maximum width 88mm; thickness 1.5–2.5mm. Conserved. A9556a; L0057; C5089-3; MC053c; Phase If; Rig VI
Illus 104

286 Sole (Type 1) Leather (cattle hide)

Left sole with short seat, only slight narrowing for waist, broad forepart with rounded toe. Forepart very worn with large hole; repaired with a clump sole (now missing), attached by a thong which remains in situ. Also several small stitch holes round edge of hole–earlier repair, or tacking hole to clump? Seat worn and cracked, with holes in centre and rear, but no signs of repair. Edge–flesh stitching channel; stitch length 5.5–8mm; diameter of holes c1.5–1.75mm. Length 263mm; maximum width of forepart 93mm; width of waist 71.5mm; maximum width of seat 76mm. Thickness: outer edge of waist and forepart 3.5mm; inner edge of waist and forepart 4.5mm. Matches Upper (Vamp) Cat No 287/A03–0017b and Rand 290/A03–0017e. Conserved. 12th–13th centuries.

A03–0017a; C5306–3; MC053a; If; Rig V
Illus 104

287 Upper (vamp) Leather

Vamp with pointed toe. Lasting margin with stitching channel of grain–flesh holes; stitch length 4–5.5mm; and with low throat with edge–flesh seam; stitch length 4.5mm. Trace of edge–flesh seam on vamp wing; stitch length 4mm. Front of vamp worn and split from lasting margin, also wear along one side; worn and cut at throat. Matches Sole (Type 1) Cat No 286/A03–0017a and Rand Cat No 290/A03–0017e. Conserved. Sole: 12th–13th centuries.

A03–0017b; C5306–3; MC053a; Phase If; Rig V

290 Rand Leather (cattle hide)

Three fragments; stitch length 5–6.5mm. Belonging to Sole (Type 1) Cat No 286/A03–0017a and Upper (vamp) Cat No 287/A03–0017b. Conserved. Sole: 12th–13th centuries.

A03–0017e; C5306–3; MC053a; Phase If; Rig V

Not illustrated

296 Upper (Type Bi) Leather (cattle hide)

Large fragment of upper of high ankle boot with tunnel hole for one horizontal thong, and with quarters/strengthener of peculiar construction. Comprises vamp, vamp throat, vamp wing, quarters and one leg flap. Tunnel hole for horizontal thong on closed side of quarters, clear impression of thong on quarters. Part of quarters has been turned back on itself, forming a small right-angled triangular strengthener, height 50mm, stitched along vertical arm of right angle with an edge–flesh stitching channel, using the fold in the leather as an edge; base of triangle–grain–flesh stitching channel; stitch length 4mm–shorter than that of lasting margin. Hypotenuse of strengthener has been attached to quarters with hem stitch. Lasting margin with grain–flesh stitching channel; stitch length 5–6.5mm. Edge–flesh stitching channels on vamp wing and vamp throat; stitch length 4mm. Vertical edge of leg flap cut, top edge of quarters oversewn. Quarters very worn; long crack down middle of vamp. Crack is fairly straight, with clearly cut edges; possibly cut deliberately, to relieve pressure. Small oval hole near top of leg, 4.5mm by 1.5mm, possibly for attachment to last. Rest of leg has been cut away–for reuse? Conserved. 12th–13th centuries.

A12632b; L0052; C4727–4; B16b, Pit 4726; Phase Id–IIa; Rig V Illus 130

306 Sole (Type 2) Leather

Child's right sole with broad rounded toe. Edge–flesh stitching channel; stitch length 4.5–5.5mm. Worn and partially delaminated, with holes in rear of seat and inner front of forepart. Length 184mm; maximum width of forepart 70mm; width of waist 51mm; maximum width of seat 54mm. Thickness: outer edge of waist 2.5mm; front of forepart 4.5mm. Matching Upper (Type Bi) Cat No 307/A12635c. Conserved. 12th–13th centuries.

A12635b; C4727–4; B16b, Pit 4726; Phase Id–IIa; Rig V Illus 146

307 Upper (Type Bi) Leather

Two fragments of upper of child's ankle boot, with two tunnel holes for one horizontal thong. Larger fragment comprises vamp, vamp wings, vamp throat, quarters and leg flap. Vamp and quarters join. Tunnel hole for horizontal thong on either side

of quarters/vamp wing. Very worn and delaminated, particularly at throat and leg flap, where stitching channels are missing. Smaller fragment is second leg flap. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Edge–flesh stitching channels on vamp wings, vamp throat and second leg flap; stitch length 3mm. Top edges of quarters and leg flaps and vertical edge of second leg flap oversewn, indicating that the two leg flaps were not sewn together. Matching Sole (Type 2) Cat No 306/A12635b. Conserved. 12th–14th centuries. A12635c; C4727–4; B16b, Pit 4726; Phase Id–IIa; Rig V Illus 146

313 Sole (Type 1), Rand, Clump and Upper (Type Biii)

Leather (cattle hide)

Almost complete upper of boot in two fragments, with top band, stiffener and rand; fragments of sole with clump, survive separately. Upper: larger fragment comprises vamp, vamp wings, vamp throat, leg flap and quarters, with vertical thonging; smaller fragment consists of side-piece and leg flap, with top band attached to top edge. Triangular stiffener, flesh side facing flesh side of quarters, survives in situ. Both fragments of upper and stiffener have lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Edge–flesh stitching channels on vamp wings, vamp throat, side-piece, quarters and bottom edges of leg flaps; stitch length 3mm. Top edges of quarters and leg flaps, and vertical edges of leg flaps oversewn, for attachment of top band. Edge–flesh stitching channel on outer leg flap indicates that small fragment of upper missing. Three fragments of rand still attached to quarters and one vamp wing; fourth fragment survives separately. Sole: three very worn and tattered fragments, almost certainly matching upper. Largest comprises waist, front of seat and rear forepart; tunnel holes for clumps survive on both. Second is most probably forepart with clump sole still attached, but too tattered to join accurately to middle fragment. Fragment of rand attached to front of forepart. Third is stitching channel of seat, but not possible to join to first fragment. Edge–flesh stitching channel on all three fragments; stitch length 4–5mm. Thickness (outer edge of forepart) 5mm; thickness elsewhere, and length and width not measurable. Both sole and upper are covered with thick hard mud containing small stones. Conserved. Sole: 12th–13th centuries; upper: 12th–13th centuries.

A12310; C5061–3; MC039, Pit 2609; Phase If,IIa; Rig V Illus 145

314 Sole (Type 6) Leather (cattle hide)

Right sole with pointed toe turned outwards. Toe may have been stuffed with moss; it is noticeably unworn. Hole in centre of seat, rear of which is now bent over. Cracks in centre forepart, hole at great toe area. Maximum length c256mm; length of pointed toe (from great toe area) c30mm; maximum width of forepart 92.5mm; width of waist 57.5mm; maximum width of seat 75mm. Thickness: inner edge of waist 4mm; outer edge of waist 2mm; forepart 3.5–4mm. Edge–flesh stitching channel; stitch length 4.5–5mm. Possibly matches Upper (Type F) Cat No 315/A10365b. Conserved. 11th–12th centuries. A10365a; C4477–3; MC049; Phase IIa; Rig V Illus 122

315 Upper (Type F) Leather (cattle hide)

Upper of shoe with no latches. Toe end of vamp rounded, but wear, cracks at toe and crack from vamp throat to toe, suggest that it might have been gathered to a point. Top edge deliberately cut, original top edge; a few remaining stitch holes indicate presence of a top band. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Edge–flesh stitching channels on ends of both sides of upper; not clear whether these ends meet, or if a side-piece is missing. A straight slip-on shoe, with no fastenings. Possibly matches Sole (Type 6) Cat No 314/A10365a. Conserved. Mid 10th–mid 14th centuries (sole–12th century).

A10365b; C4477–3; MC049; Phase IIa; Rig V
Illus 139

325 Sole (Type 4) Leather

Left sole with pointed toe. Small hole in centre forepart. Rear of seat is cracked, worn and turned over. Edge–flesh stitching channel; stitch length 4.5–6mm. length c230mm; maximum width of forepart 79mm; width of waist 40mm; maximum width of seat 62mm. Thickness: outer edge of waist, outer edge of forepart 2.5mm, inner edge of seat, inner edge of forepart and waist 3mm. Conserved. 13th–14th centuries.

A03–0009b; C5255–3; MC049, Pit 5259; Phase IIa; Rig V
Illus 121

328 Strap (folded twice) Leather (cattle hide)

Folded twice, two edges stitched together with butted edge–flesh seam; stitch length 6mm, 5.5mm, 5mm, 6.5mm, 7mm; hole diameter c2mm. End folded over and stitched or nailed together, presumably to hold a buckle. Grain is on inside. Conserved.

A03–0009e; C5255–3; MC049, Pit 5259; Phase IIa; Rig V
Illus 158

334 Sole (Type 1) Leather (cattle hide)

Very large and broad left sole, with wide seat, waist and forepart, and very broad toe. Worn, with holes in rear of seat and front of forepart, and with crack towards rear of forepart. Stitch holes on underneath indicate that both forepart and seat have been repaired with clump soles, and that forepart has probably been repaired at least twice. Edge–flesh stitching channel; stitch length 4.5–6.5mm. Length 274mm; maximum width of forepart 112mm; width of waist 81.5mm; maximum width of seat 93mm. Thickness: rear of outer edge of forepart 2.5mm; inner edge of waist 4mm; outer edge of waist 2mm; rear and middle of inner edge of forepart, outer edge of seat 5.5mm; outer front of forepart, inner edge of seat 5mm; inner front of forepart 4.5mm; worn edges of holes 1mm. Conserved. 12th–13th centuries.

A03–0011; L0409; C5266–3; MC054a, Pit 5267; Phase (IIa)IIb; Rig VI
Illus 116

341 and 342 Linked straps (2) Leather and Fe?

Two, each of single thickness. No 341 length 325mm, width 8–11mm, thickness 3mm; stitched through on both edges, stitch length c2mm. Slit, c40mm long, near wider end; second strap passes through this slit. Near narrower end, short slit,

6mm long with small thin piece of leather through it. No 342 length 260mm, width 9–10mm, thickness 3mm; stitched through on both edges; stitch length 2mm. Slit near one end with first strap passing through. Other end, with metal rivet attached passed through slit in first strap. Probably too delicate for harness. Hawking equipment? Conserved.

A6772a, b; C3589–2; MC061; Phase IIb; Rig VI
Illus 151

343 Sole (Type 1), Rand and Upper

Leather (cattle hide) and wool

Right sole, rand and upper, still attached. Sole, straight with broad waist but narrow oval toe, which is beyond great toe area. Worn at rear of seat, slightly worn and cracked at outer edge of forepart. Length 263mm; maximum width of forepart 85mm; width of waist 76mm; maximum width of seat 72mm; thickness 4–5mm. Rand, thin strip 2mm thick, partially delaminated, perforated with oval holes, stitch length 5–6mm. Upper has been deliberately cut across front of vamp, with a sharp knife, probably for reuse; front of vamp left because worn. Lasting margin with grain–flesh stitching channel; stitch length 5–6mm. Wool survives in some holes. Upper type not definable.

Conserved. 12th–13th centuries.

A6772c; C3589–2; MC061; Phase IIb; Rig VI
Illus 145

350 Miscellaneous fragment Leather

Fragment with one oversewn edge, stitch length 3–4mm, one straight and one curved edge with edge–flesh stitching channel; stitch length 2.5–3.5mm. Fourth edge cut. Thickness c2mm. Purse? Conserved

A6772j; C3589–2; MC061; Phase IIb; Rig VI
Illus 159

353 Sole (Type 1) Leather (cattle hide)

Child's left, with short round seat, wide waist, broad forepart, gently curved, narrowing to oval toe. Edge–flesh stitching channel; stitch length 4.5–6mm. length 156.5mm; maximum width of forepart 68.5mm; width of waist 52mm; maximum width of seat 57mm. Thickness: inner edge of waist and forepart and outer edge of seat, waist and forepart 3mm. Matches Upper (Type Bi) Cat No 357/A6773f. Conserved. 12th–13th centuries. A6773b; L1661; C3589–2; MC061; Phase IIb; Rig VI
Not illustrated

357 Upper (Type Bi) Leather

Three fragments of upper of child's boot with tunnel hole for one horizontal thong on each side of quarters. Large fragment comprises vamp, vamp throat, vamp wing, quarters and leg flap. Impression of small triangular stiffener on flesh side of quarters. Quarters and vamp wing join second and third fragments–thin strips–which probably join top edge of quarters. Lasting margin with grain–flesh stitching channel; stitch length 5–6.5mm. Edge–flesh stitching channels on vamp throat, vamp wing, top and vertical edges of quarters, and on second and third fragments; stitch length 3.5–4mm. Matches Sole (Type 1) Cat No 353/A6773b. Conserved. 12th–13th centuries.

A6773f; L1661; C3589–2; MC061; Phase IIb; Rig VI
Not illustrated

358 Upper (Type Bii) Leather (cattle hide) and wool

Four fragments, plus top band, of upper of boot with tunnel holes for two horizontal rows of thong. Largest fragment comprises vamp, vamp throat, vamp wing, quarters and two leg flaps. On flesh side of quarters are stitch holes for low triangular stiffener, which does not survive. Single hole at vamp throat, with short stretch of thong threaded through it and knotted on flesh side. On closed side of quarters, two tunnel holes for horizontal thong(s), one above the other. On open side of quarters is tunnel hole with thong through it, knotted at one end. Second fragment, a long narrow triangle, joins leg flap and quarters (to first fragment) forming top corner of leg flap. Oval hole—for thong? Third fragment, a very small triangle, joins top of other leg flap, completing top corner. Fourth fragment is small triangle with fragment of rand attached by wool to its lasting margin; joins first fragment beneath junction of vamp wing and quarters, thus filling small gap. Top band, strap folded once; length 580mm, width (folded) 85mm, thickness (single) 1mm: length and bends show that band was originally attached to vertical and top edges of leg flaps and quarters. Front of boot open. Lasting margin with grain–flesh stitching channel; stitch length 4.5–8mm, on first and fourth fragments. Edge–flesh stitching channels on vamp wing, vamp throat, part of top edge of quarters, diagonal edges of leg flaps, one edge on each of second and third fragments, and on two edges of fourth fragment; stitch length 2.5–4mm. Vertical edges of leg flaps, part of top edge of quarters, and two edges on each of second and third fragments oversewn, for attachment of top band. Matches Sole (Type 2) Cat No 352/A6773a. 12th–14th centuries.

A6773g; L1661; C3589–2; MC061; Phase IIb; Rig VI
Illus 131 (reconstruction)

363 Sole (Type 1) with bunion? Leather

Left sole with wide seat, no waist, broad forepart with bulge, probably caused by bunion. Very worn and delaminated, with holes and cracks in both seat and forepart. Edge–flesh stitching channel; stitch length 4–5mm. Length 213.5mm; maximum width of forepart 109mm. Thickness: front of forepart 4mm; seat and outer edge of forepart 5mm. Matches Upper (Type Aii) Cat No 364/A2296b, even though the upper has shrunk considerably more than the sole; vamp matches very well, especially over the bunion bulge. Conserved. 12th–13th centuries.

A2296a; L0049; C3095–1; M14a, Pit 3040; Phase Id–IIc; Rig V
Illus 145

364 Upper (Type Aii) with bunion? Leather

Three fragments, plus stiffener, of upper of low ankle boot with no trace of thongs. Largest fragment comprises vamp, vamp wings, vamp throat, quarters and leg flap. Second fragment, side-piece, now torn in two, linking quarters and vamp wing. Third fragment, leg flap. On flesh side of quarters and of side-piece, stitch holes for stiffener, which survives separately. Lasting margin with grain–flesh stitching channels; stitch length 4–5.5mm. Edge–flesh stitching channels on vamp wing, vamp throat, quarters, leg flaps and side-piece; stitch length 2.5–3.5mm. Matching Sole (Type 1) Cat No 363/A2296a. Conserved. 12th–14th centuries.

A2296b; C3095–1; M14a, Pit 3040; Phase Id–IIc; Rig V
Illus 145

372 Upper with fastening? Leather

Two fragments of uppers with fastening? First fragment, quarters; stitch holes for semi-circular stiffener which survives separately. Thong passes through slit; second slit, forming tunnel, never used. One end of thong spade-like stitched to flesh side. Second fragment, leg flap, vamp throat, part of vamp. Thong through single slit, one end spade-like stitched to flesh side. Lasting margin with grain–flesh stitching channel; stitch length 3.5–4.5mm. Lasting margin is very neat. Edge–flesh stitching channels on vertical edge of quarters, vamp throat, vertical edge of leg and vertical edge of vamp wing; stitch length 3–4mm. Top edge oversewn. These two fragments almost certainly join to form quarters of low boot/ankle shoe. The two thongs probably met at the side of the foot. The thong in the second fragment is wider and might have had a buckle attached to it. Thickness c2mm. Conserved.

A4936; C3141–1; MC059, Pit 3142; Phase Id–IIc; Rig V
Illus 143

386 Strap (folded once)? Leather (cattle hide)

Short fragment of strap 116mm long, 38–44mm wide, and 2.5 thick. Short slashes on either edge, and approximately parallel pairs of lines of short slashes down the middle, suggesting strap was folded once, and stitched face to face. On either side of pair of short slashes, longer slashes. Length of short slashes 3–4mm; length of long slashes c15mm. Conserved.

A12377; C3903–1; MC065, T3907; Phase IIa–IIc; Rig VI
Illus 148

389 Sole (Type 1) Leather (cattle hide)

Child's left sole, with rounded toe. Edge–flesh stitching channel; stitch length 6–6.5mm. Length 142mm; maximum width of forepart 58mm; width of waist 44mm; maximum width of seat 44mm; thickness 2–3mm. Probably matches Upper (Type Bi) Cat No 390/A12296b. Conserved. 12th–13th centuries.

A12296a; C3886–1; MC065; Phase IIa–IIc; Rig VI
Illus 124

390 Upper (Type Bi) Leather

Fragment of child's ankle boot, with tunnel holes on closed side of quarter and on vamp wing, for one horizontal thong, fragment of which survives on vamp wing. Comprises vamp, vamp wing, vamp throat, and quarters. Lasting margin with grain–flesh stitching channel; stitch length 6–7mm. Edge–flesh stitching channels; stitch length 4–5mm, on vamp throat, vamp wing, vertical edge of quarters, and on inner part of top edge of quarters. Rest of top edge of quarters oversewn. Quarters cracked and worn. Matching Sole (Type 1) Cat No 389/A12296a. Conserved. 12th–14th centuries.

A12296b; C3886–1; MC065; Phase IIa–IIc; Rig VI
Illus 124

399 Strap (folded once) Leather

Edges oversewn; stitch length 4–5mm. One end broken; other end cut, with round hole in middle of width penetrating both thicknesses; diameter of hole 1.75mm. Length c340mm; width 7mm. Each edge 1mm thick, total width 2–3mm. Conserved.

A12293a; C5156–3; MC056, Pit 5155; Phase Ia–IIc; Rig VI
Illus 148

400 Sole (Type 1) Leather

Most of right sole, almost straight sided, with a rounded toe, large part of seat missing and very worn at front of forepart, which shows signs of repair. Edge–flesh stitching channel; stitch length 4mm. Maximum length 228mm; maximum width of forepart 77mm; width of waist 60mm. Thickness: inner forepart 3mm; inner waist 3–3.5mm; outer waist, outer forepart and seat 4mm. Conserved. 12th–13th centuries.

A12293b; C5156–3; MC056, Pit 5155; Phase Ia–IIc; Rig VI
Illus 117

402 Thong Leather

Thin strip with one broken end and one pointed end. Width: 4–4.5mm for c60mm, 6–6.5mm for c125mm; thickness c1mm. Conserved.

A12293d; C5156–3; MC056, Pit 5155; Phase Ia–IIc; Rig VI
Illus 152

404 Upper (Type Biii) Leather (cattle hide)

Very worn fragment of upper of boot with vertical thonging. Comprises vamp, vamp throat, quarters and leg flap. Quarters and vamp wing join. Missing second leg flap. Faint trace of stitching for low semi-circular stiffener on flesh side of quarters. Short stretches of vertical thonging on quarters and vamp wing. Lasting margin with grain–flesh stitching channel; stitch length 5.5mm; much of lasting margin missing. Edge–flesh stitching channels on vamp, wing, throat and quarters. Top edge of quarters and top and vertical edges of leg flap oversewn. Thickness 1–1.5mm. Conserved. 12th–13th centuries.

A12298a; L1750; C5156–3; MC056, Pit 5155; Phase Ia–IIc;
Rig VI
Illus 133

406 Sole (Type 1) with bunion? Leather (cattle hide)

Right sole, with wide seat and waist and broad and fairly straight forepart, ending in wide rounded toe. Forepart and seat both worn, hole and cracks in seat and small part of stitching channel separated from rest of sole; large hole in centre forepart, smaller hole in great toe area, where stitching channel has cracked. On inner edge of forepart, slight bulge suggests a bunion. Edge–flesh stitching channel; stitch length 4–5mm. Length: 277mm; maximum width of forepart 114.5mm; width of waist 75.5mm; maximum width of seat 80mm. Thickness: outer edge of waist 3.5mm; inner edge of waist 4.5mm. Conserved. 12th–13th centuries.

A12493a; L0054; C5182–3; MC056, Pit 5155; Phase Ia–IIc;
Rig VI
Illus 116

411 Upper (Type Biii) Leather (cattle hide)

Large fragment of upper of ankle boot, with vertical thonging. Comprises vamp with rounded toe, vamp throat, vamp wing, quarters and leg flap. Quarters and vamp wing probably meet. Second leg flap missing. Traces of triangular stiffener on flesh side of quarters. Vertical line of thonging on quarters, with three short fragments (width c4–4.5mm, length 3.5mm, 6.5mm and 4mm) on grain side and four (length c6.5mm, 7.5mm, 8.5mm and 7mm) on flesh side. Thong hole near edge of vamp throat–for horizontal thong? Also small hole or slit–for thong?–near top

edge of boot. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Edge–flesh stitching channel; stitch length 3–4mm. Top edge of quarters oversewn. Conserved. 12th–13th centuries.

A12493f; C5182–3; MC056, Pit 5155; Phase Ia–IIc; Rig VI
Illus 133

421 Offcut? Leather

Approximately triangular fragment, apparently folded in two, one side definitely grain, but the other looks more like flesh, yet definite fold, natural edge at one end. Grain surface is marked by short impressions–like those of tunnel stitches–and by irregular lines–natural marks from animal? Most probably offcut. Conserved.

A03–0015d; C5223–3; B4, Construction; Phase IIc; Rig VI
Illus 159

447 Soles (Types 8, 9) and Upper Leather (cattle hide)

Very tattered fragments of shoe, consisting of separate seat and forepart, sewn together across waist, and fragment of vamp, now attached to forepart by thong. Short, wide seat, worn, with edge–flesh stitching channel; stitch length 5–7.5mm. Short length of thong threaded through hole next to waist; also three other thong holes parallel to edge. Length 67mm; maximum width 60mm; width at waist 55mm. Forepart, almost symmetrical, long and fairly broad, but with pointed toe. Very worn and delaminated. Edge–flesh stitching channel; stitch length 5–6mm. Part of stitching channel replaced by thong. Length 84mm; width of waist 48mm; width at rear of waist 53mm. Very worn and delaminated fragment of vamp, with straw adhering to flesh layer. Lasting margin with grain–flesh stitching channel; stitch length 4.5–7mm, replaced by thong, knotted on flesh side of vamp. Also several very tattered fragments, some with straw attached, probably part of upper. Conserved.

A6722; L1648; C3570–2; B4, 'Byre'–Occupation; Phase IIc;
Rig VI
Illus 145

452 Sole (Type 1) Leather and wool

Straight seat, no waist, fairly straight forepart, rounded toe. Edge–flesh stitching channel, stitch length 5.5mm, 6mm, 7.5mm. Very worn, with a hole in seat and two small holes and one large crack in centre forepart. Tunnel stitch holes on underneath indicate that both seat and forepart have been repaired with clump soles. Second horizontal row of stitches across forepart suggests that clump fastened more firmly or possibly second layer of clump added. Length: 228.5mm; maximum width of forepart 88mm; width of waist 70mm; maximum width of seat 75mm. Thickness: inner edge of waist 2.5mm; outer edge of waist 3.5mm; rear of seat 4mm; front of forepart, outer edge of forepart 5.5mm; front of inner edge of forepart 5mm; measurements of thickness suggest right sole but wear pattern at front of forepart and way outer edge of forepart is turned over and style of vamp, suggests left sole. Wool survives in a few stitch holes. Matching Upper (Type J) Cat No 456/A10048e. Conserved. 12th–13th centuries.

A10048a; L0002; C2384–4; M1.1f, Pit 2383; Phase IIb,IIc; Rig VI
Illus 147

453 Sole (Type 2) Leather

Right sole with short wide seat, slight narrowing for waist, long and broad gently curved forepart with broad rounded toe. Worn at rear of seat, part of which is missing, and at forepart, where there are two cracks. On underside, tunnel stitch holes indicate that seat and forepart have been repaired. Some of forepart clump stitch holes cross and run along line of one hole and crack, demonstrating that further damage has been caused by the clump itself, which was very small in relation to the whole forepart. Also partially delaminated. Edge–flesh stitching channel; stitch length 4–6mm. Stitch holes on inner edge of forepart and on corresponding edge of upper indicate that this stretch has been repaired. Surviving length 242mm; maximum width of forepart 106mm; width of waist 74mm; maximum surviving width of seat 91mm. Thickness: worn edge of seat 1mm; outer edge of waist 4.5mm; inner edge of forepart, turned up 5.5mm; outer edge of forepart, turned up 6mm. Matching Upper (Type Aii) of low boot Cat No 455/A10048d. Conserved. 12th–14th centuries. A10048b; L0002; C2384–4; M1.1f, Pit 2383; Phase IIb,IIc; Rig VI Illus 147

455 Upper (Type Aii) Leather

Fragment of upper of low ankle boot, with no trace of thongs, but with vamp, vamp throat, vamp wing and front of leg flap. Lasting margin with stitching channel of grain–flesh holes; stitch length 4mm, 5mm, 5mm, 5mm, 4.5mm, 3mm—mainly 4.5–5.5mm. Edge–flesh stitching channels on vamp wing, throat and vertical edge of leg flap; stitch length 2–4mm. Top edge of leg flap oversewn. Worn, particularly at front of vamp and along lasting margin; rest of quarters/leg flap missing. Thickness: stitched edges 2mm; worn edges c1mm. Matching Sole (Type 2) Cat No 453/A10048b. Conserved. 12th–14th centuries. A10048d; L0002; C2384–4; M1.1f, Pit 2383; Phase IIb,IIc; Rig VI Illus 147

456 Upper (Type J) Leather (cattle hide)

Vamp with vamp wing and throat in one edge–flesh stitching channel; stitch length 3–4mm, extending across foot from one side of lasting margin to the other. Lasting margin with stitching channel of grain–flesh holes; stitch length 5.5–7mm. Worn with two cracks, one of which, on inner edge, has been repaired with a patch. Thickness 2.5mm. Matching Sole (Type 1) Cat No 452/A10048a. Conserved. A10048e; L0002; C2384–4; M1.1f, Pit 2383; Phase Ib,IIc; Rig VI Illus 147

459 Strap (folded twice) Leather (cattle hide)

Two pieces, one folded twice with its edges joined by a butted edge to grain seam where they meet on the reverse. Edges of strap, on both sides, marked by short slashes 3–4mm long, 2–3mm apart. Centre of obverse also marked by irregular slashes, 4–5mm long, 10–12mm apart. At one end of strap is a slit 26mm long. The other fragment, a thin strip contained within the first fragment, is also pierced by the stitches on the main fragment. Folded strap: length 222mm, width 16mm, thickness 2mm. Single strip: length as folded strap, width

12.5mm, thickness 1mm. Conserved.

A10506a; C4470–3; M1.1c, Pit 5005; Phase IIc; Rig VI Illus 149

461 Upper (Type Bi) Leather (cattle hide)

Two joining fragments (originally one) of low ankle boot, with holes for one horizontal thong. Comprises vamp, vamp throat, vamp wing, quarters, and two leg flaps. Vamp wing and quarters join. On closed side of quarters, tunnel hole for horizontal thong, with creases left by thong on either side. On corner of one leg flap, round hole with thong passing through it, and anchored on flesh side with a knot. No corresponding hole on opposite leg flap, therefore wrap-around thong. Small hole penetrated leather— for attachment to last (?)— close to top edge of quarters. Near top corner of vamp wing; small horizontal tunnel-like depression—possibly too small to have been made by a thong; mark caused by bracing boot to last? Edge–flesh stitching channels on vamp throat, vamp wing, and vertical edges of quarters; stitch length 3–4mm. Top and vertical edges of leg flaps and top edges of quarters oversewn. Lasting margin does not survive. Conserved. 12th–14th centuries.

A10511; C4470–3; M1.1c, Pit 5005; Phase IIc; Rig VI Illus 129

469 Sole (Type 1) Leather and wool

Probably for right foot; almost straight sides; very slightly narrowing for waist; gently curved broad forepart, ending in broad oval toe. Worn at rear of seat, which is missing, and at front of forepart, where stitching channel is worn, and where there are several short cracks and one small hole. Edge–flesh stitching channel; stitch length 4.5–6.5mm. Wool survives in some stitch holes. Surviving length 237mm; maximum width of forepart 91.5mm; width of waist 71.5mm; maximum width of seat 75mm. Thickness: outer edge of waist, rear of outer edge of seat 3.5mm; inner edge of waist, forepart and seat, and front of outer edge of seat 4.5mm; outer edge of forepart 5mm. Conserved. 12th–13th centuries.

A12285a; L0059; C4470–3; M1.1c, Pit 5005; Phase IIc; Rig VI Illus 117

470 Sole (Type 1) Leather and wool

Probably left foot; rear of seat rounded, slight narrowing of waist, very straight forepart with squarish front. Forepart worn, with large hole. Edge–flesh stitching channel; stitch length 4–6mm. Wool survives in some stitch holes. Length 244mm; maximum width of forepart 9mm; width of waist 64mm; maximum width of seat 75mm. Thickness: outer edge of forepart 3.5mm; inner and outer edge of waist, front of forepart 4mm; inner edge of forepart and seat 5mm. Conserved. 12th–13th centuries.

A12285b; L0059; C4470–3; M1.1c, Pit 5005; Phase IIc; Rig VI Illus 116

475 Sole (Type 1) Leather and wool

Left sole with straight-sided seat, wide waist and broad forepart, very slightly curved, ending in oval toe. Hole at front of forepart and great toe area; outer side of front of forepart pushed inwards; shape probably due to wear. Worn at rear of seat where crack between stitching channel and seat.

Edge–flesh stitching channel; stitch length 4.5–7.5mm. Wool survives in most of the stitch holes. Length 244mm; maximum width of seat 70mm; maximum width of forepart 97mm; width of waist 65.5mm. Thickness: inner edge of waist 3.5mm; inner edge of seat, turned up, 5mm; inner edge of forepart 4mm; outer edge of waist and rear of forepart 3mm; outer edge of seat 4.5mm; front of outer edge of forepart 6.5mm; edge of hole 0.5mm. Matches Upper (Type E) Cat No 476/A12302b. Conserved. 12th–13th centuries.

A12302a; L0050; C4470–3; M1.1c, Pit 5005; Phase IId; Rig VI Illus 139

476 Upper (Type E) Leather

Large fragment of low shoe comprising vamp, vamp wing, vamp throat, quarters, and latchet. Vamp wing and quarters do not join. Some tunnel stitches and impression of semi-circular stiffener on flesh side of quarters. Lasting margin with grain–flesh stitching channel; stitch length 4mm, 5mm. Edge–flesh stitching channels on vamp wing, throat, vertical edge of latchet, and quarters; stitch length 2.5–3.5mm. Top edge of latchet and quarters oversewn. Stiffener has lasting margin with stitching channel of grain–flesh holes; stitch length 4.5mm, 5mm, 5.5mm, 3.5mm; semi-circular with curved top-stitch holes for attachment to quarters. Matches left Sole (Type 1) Cat No 475/A12302a. Unusual in having vamp, side-piece, quarters join on outside of foot. Conserved. 12th century.

A12302b; L0050; C4470–3; M1.1c, Pit 5005; Phase IId; Rig VI Illus 139

477 Strap (folded once) Leather (cattle hide)

Now flat, originally folded once. Tunnel stitching on fold, penetrating only one thickness–decorative. Edges stitched. Strap stitched together, with grain–flesh stitching at both ends. Length 350mm; width 21–37mm (unfolded); thickness 1mm (unfolded). Probably top band of upper. Conserved.

A12309a; C4470–3; M1.1c, Pit 5005; Phase IId; Rig VI Illus 148

478 Upper (Type Aii) Leather (cattle hide)

Two joining fragments, plus stiffener, of high ankle boot with no thongs or holes for thongs. Larger fragment comprises vamp with rounded throat and wing, quarters and leg flap. Vamp wing joins quarters and leg flap. Lasting margin with grain–flesh stitching channel; stitch length 4.5–5.5mm. Smaller fragment, leg flap joining first leg flap and possibly vamp throat, but there might have been an inset over the instep– ‘bellows tongue’ (J Swann pers comm). Edge–flesh stitching channels on wing, throat, leg flaps and quarters; stitch length 2–3mm; hole diameter c 0.5mm. Top edges of quarters and leg flaps oversewn. Top edge of quarters has short vertical slit 23mm long, which has been stitched with a butted edge–flesh seam; stitch length 2–2.5mm; hole diameter c75mm–probably decorative seam. Vamp worn, with front missing, and with crack. Short slit on quarters probably crack not tie-hole. Tunnel stitch holes on flesh side of quarters mark position of semi-circular stiffener, which survives separately. Lasting margin with grain–flesh stitching channel corresponding to that on quarters; oversewn rounded edge for attachment to quarters. Vertical crack c45mm long, from

apex of semicircle; this crack stitched together with butted edge–flesh seam; stitch length 8–9mm; hole diameter c0.75mm. This was possibly an already cracked piece of leather repaired for use as stiffener. It would have been virtually impossible to stitch once stiffener was attached to inside of quarters. It might have been split to allow for curvature, but this is unlikely and probably unnecessary. Its irregular nature suggests a crack rather than a deliberate cut. Grain side of stiffener faces flesh side of quarters, which is unusual with stiffeners (J H Thornton pers comm). Upper almost complete, lacking only front end of vamp and a small side-piece, which would have filled in the oddly-shaped gap between quarters and leg flap. Stitching, especially on the butted edge–flesh, very neat. Conserved. 12th–14th centuries.

A12309b; C4470–3; M1.1c, Pit 5005; Phase IId; Rig VI Illus 126

481 Miscellaneous fragment Leather

Approximately trapezoidal, with cut edges; one edge torn. Parallel to two long edges are two rows of short slits; inner rows meeting in a point. Between each pair of rows of slits is a row of dots. Space between inner rows also filled with shallow dots (on grain side). Slits penetrate to flesh side, but dots do not. Slits engraved, dots punched. Delaminated. Thickness c2mm. Conserved.

A10503; L1693; C4468–3; M1.1d; Phase IId, Ile; Rig VI Illus 158

485 Miscellaneous fragment Leather

Rectangular; folded once. Perforated along one long side by stitching channel of grain–flesh holes, stitch length 2mm; along outer edges by two parallel stitching channels of grain–flesh holes, stitch length 2–2.5mm. Delaminated. Length 2–2.5mm; width 38mm; thickness c0.25mm. Case? Conserved.

A10504a; L1699; C4492–3; M1.1a; Phase IId,Ile; Rig VI Illus 158

486 Miscellaneous fragment Leather

Very worn and crumbly, folded once, making a sheath-like shape. Along bottom edge, two parallel stitching channels with grain–flesh holes perforating both layers; stitch length 2.5–4mm. About 19mm above top row, single horizontal stitching channel with grain–flesh holes; stitch length 2.5mm. Up vertical edge, two parallel stitching channels with grain–flesh holes; stitch length 2.5–4mm for first 56mm, then single row, over stitched (?) rib along edge. Leather below single horizontal row dark and in good condition, above it is paler and very fragmentary and crumbly. Surviving length 102mm; minimum width 35mm; maximum width 50mm; thickness 0.75mm. Case? Conserved.

A10504b; L1699; C4492–3; M1.1a; Phase IId,Ile; Rig VI Illus 158

503 Upper (Type C) Leather

Three fragments of low ankle boot with holes for side-lacing. Largest comprises vamp, vamp wing, vamp throat and quarters. Second is trapezoidal side-piece, linking quarters and vamp wing. Smallest is probably part of this upper.

Largest has five thong holes on vertical edge of vamp wing, edge parallel to holes oversewn, with five matching tie-holes on side-piece approximately 3mm by 2mm and 15.5mm, 12mm, 15mm and 14.5mm apart. Lasting margin with grain–flesh stitching channel; stitch length 5.5–6.5mm on largest and second fragments. Edge–flesh stitching channels; stitch length 2.5–3.5mm, on lower part of vamp wing, vamp throat, vertical edge of leg flap, vertical edge of quarters, part of edge with holes, and two other edges of side-piece, and two edges of third fragment. Conserved. 14th–15th centuries.

A03–0003b; C4433–3; P2.1a; Phase IIb–IIc; Rig V

Illus 135

505 Sole (Type 1) Leather (cattle hide)

Child's right sole with short seat, wide waist and long gently curved forepart with rounded front. Edge–flesh stitching channel; stitch length 4–7mm. Length 166.5mm; maximum width of forepart 45mm; maximum width of seat 48mm.

Thickness: outside edge of waist and forepart 2.5mm, inner edge of waist, front of forepart 3mm; inner edge of forepart 3.5mm, rear of seat 4mm. Matches Upper (Type Bi) Cat No 508/A3447e. Conserved. 12th–13th centuries.

A3447b; L1671; C3582–2; M1.1d and M1.1e; Phase IIc–IId; Rig VI

Illus 124

508 Upper (Type Bi) Leather

Three fragments of child's boot, with tunnel holes for one horizontal thong. Large fragment comprises vamp, vamp wing, vamp throat and quarters. Second fragment, trapezoidal, joins vamp wing. Third fragment, also trapezoidal, possibly fits between quarters and second fragment. Tunnel hole with thong near top of second fragment; tunnel hole on closed side of quarters. Lasting margin with grain–flesh stitching channel; stitch length 4.5–6mm. Edge–flesh stitching channel; stitch length 3mm, on vamp wing, vamp throat and on second and third fragments. Thickness 1mm. Matches Sole (Type 1) Cat No 505/A3447b (Illus 124). Conserved. 12th–14th centuries.

A3447e; L1671; C3582–2; M1.1d and M1.1e; Phase IIc–IId; Rig VI

Not illustrated

524 Strap/belt (folded twice) Leather

Fragment, consisting of two pieces, one folded twice, with edges meeting on reverse, where stitched together with a butted edge to grain seam; stitch length 8–8.5mm; the other, placed inside the first, is a thin strip 1mm thick. Slashes at irregular intervals down the middle of the belt–decoration? One end appears torn, the other is cut and has several holes penetrating it–attachment for buckle? Length c330mm; maximum width 29mm; minimum width 17mm; total thickness 5mm. Conserved.

A9369; L0011; C2643–3; B5, WW3566; Phase IIa–IIc; Rig V
Illus 149

527 Upper (Type Bi) Leather (cattle hide)

Large fragment of child's ankle boot, with tunnel hole on closed side of quarters, and single hole at vamp throat for one horizontal thong. Comprises vamp, vamp wings, vamp throat, quarters and two leg flaps. Complete except for small low side-

piece linking quarters and vamp wing. Lasting margin with grain–flesh stitching channel; stitch length 5mm. Edge–flesh stitching channels on vamp wing, vamp throat and on lower edges of leg flaps; stitch length 3–4mm. Top edges of quarters and top and vertical edges of leg flaps oversewn. Thickness 2mm. Conserved. 12th–14th centuries.

A6803; L1672; C3596–1/2; B5, South Room–Floor/Occupation (3); Phase IIa–IIc; Rig V

Illus 130

537 Upper (Type Bii) Leather

Three fragments, plus stiffener, of boot; very worn and partially delaminated; thong wrapped twice round boot, with tunnel holes enabling it to be wrapped twice more. Good example of boot with wrap-around thong. Two fragments, originally one, comprise vamp, vamp wings, vamp throat, quarters and leg flap. Third fragment is second leg flap, which is now loosely held in place by thong wrapped round boot twice. One end of thong secured to second leg flap by knots on both grain and flesh side of tunnel hole; thong passes to vamp wing, through tunnel hole bridging vamp wing and quarters, round rear of quarters and through tunnel hole on closed side of quarters, through tunnel hole on vamp wing, past throat, back to second leg flap, through single hole, round quarters again, through tunnel hole on closed side (above first one), then ends torn.

At rear of quarters is trace of tunnel holes through which thongs once passed. On closed side of quarters are two more tunnel holes, above first two, suggesting that they could have been wrapped round boot twice more. Also another tunnel hole on leg flap. Lasting margin with grain–flesh stitching channel; stitch length 5mm. Edge–flesh stitching channels on vamp wing, vamp throat, quarters and leg flaps; stitch length 3mm. Top edges of quarters and leg flaps cut. Trace of stitch holes on flesh side of quarters, for semi-circular stiffener with survives separately. Conserved. 12th–13th centuries.

A6416a; L1774; C3569–1/2; B5, North Room–Floor/Occupation (1); Phase IIa–IIc; Rig V

Not illustrated

570 Sheath (decorated) Leather (cattle hide)

Fragment, in one piece, folded twice; edges meet in middle of reverse, where joined by butted edge to grain seam; stitch length 3.5–5mm. Part of top edge of reverse also has edge to grain holes. Front and rear of sheath are decorated with bands of diagonal hatching. Surviving length 97mm; maximum width 30mm; minimum width 21mm. Thickness: edge to grain stitching channel 3.5mm; elsewhere 1.5mm. Conserved. 13th–14th centuries.

cf Custom House site, London, similar cross-hatching, early to mid-14th century (Tatton-Brown 1975, 162–3, figs 29, 116).

A9120; C2279–4; M10; Phase IIc–IId; Rig V

Illus 155

590 Strap (single thickness) Leather

Fragment of single thickness with row of short slits parallel to each long edge, one row 2.5–3mm from edge, the other 5–7mm; slits approximately 5–6mm apart (centre to centre). One end torn, the other cut, though slightly irregular, with two irregular rows of slits parallel to it. In centre of strap are two round holes, diameter 5mm, and edge of third. Length 130mm;

width 27–29mm; thickness 2mm; Conserved.

A11250a; L1898; C2304–4; M10; Phase IId–IIg; Rig V
Illus 152

625 Sole (Type 1) Leather

Short wide left sole, with rounded toe. Very worn and delaminated; holes towards rear of seat and in centre forepart, and front inner portion of forepart missing. Tunnel holes on underside indicate that both seat and forepart repaired with clump soles at least twice. Forepart cracked along outer line of stitching. Edge–flesh stitching channel; stitch length 5mm. Length 264mm; maximum width of forepart 110mm; width of waist 77mm; maximum width of seat 87mm; thickness 4–6mm. Matches Upper Cat No 626/A9885b. Conserved. 12th–13th centuries.

A9885a; C2333–4; M10; Phase IId–IIg; Rig V
Illus 104

626 Upper Leather (cattle hide)

Two fragments, with repair patch. Larger fragment comprises toe end of vamp, vamp wing and quarters. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Two edge–flesh stitching channels; stitch length 2.5–3mm. Part of lasting margin missing, replaced by a long thin patch, attached with tunnel stitching. Lasting margin on patch irregular. Quarter has also been repaired, on grain side with a semicircular fragment, attached by tunnel stitching, now missing. Smaller fragment, vamp wing, joins front of vamp. Rest of upper cut away. Probably matches Sole (Type 1) Cat No 625/A9885a (12th–13th centuries). Conserved.

A9885b; C2333–4; M10; Phase IId–IIg; Rig V
Illus 104

631 Upper (Type Biii) Leather

Fragment of boot, with vertical thonging, comprises vamp with oval toe, vamp throat, vamp wing, leg flap and part of quarters, with three stretches of vertical thong on grain side. Thong doubled before being threaded through tunnel holes. Lasting margin with grain–flesh stitching channel; stitch length 5.5–6.5mm. Edge–flesh stitching channels on vamp throat, vamp wing and top edge of quarters; stitch length 3–4mm. Vertical edge of leg flap oversewn, front of boot open. Conserved. 12th–13th centuries.

A10047a; C2462B–3; M10; Phase IId–IIg; Rig V
Illus 132

739 Long dagger sheath Leather (cattle hide)

Formed of one strip, folded twice and probably meeting and joined in middle of reverse, with butted edge to grain seam; stitch length 3.5mm. For c360mm from top 50–53mm wide, narrowing to c20mm, but not complete. Large oval hole, c14mm by 8.5mm, at 25mm from top, presumably for attachment to belt, with twelve smaller holes, diameter 3.5mm, six above six below. Stitching channel of short slits parallel with each edge, c9–11mm from each edge—on both sides—slits not very wide and no thread—possibly just decoration. Worn, with most of reverse missing. Length c630mm. Conserved.

A9143; L0007; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh); Rig VI
Illus 154

740 Sole (Type 3) Leather (cattle hide)

Left, with rounded seat, very narrow waist; forepart wide at rear, then turned inwards to oval toe. Edge–flesh stitching channel; stitch length 3.5–4.5mm. Partially delaminated; worn on underneath of centre seat and of centre forepart. Length 243mm; maximum width of forepart 83mm; width of waist 33mm; maximum width of seat 64mm; thickness 3.5mm. Probably partner of right Sole (Type 3) 774/A9365. Conserved. 13th–14th centuries.

A9144; L0069; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh); Rig VI
Illus 120

774 Sole (Type 3) Leather

Right, two joining fragments. Seat and forepart worn and delaminated. Edge–flesh stitching channel; stitch length 5–6mm. Maximum length 243mm; maximum width of forepart 75mm; width of waist 36mm; maximum width of seat 70mm; thickness 4–5mm. Same shape as and probably partner of Sole (Type 3) 740/A9144. Conserved. 13th–14th centuries.

A9365; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh); Rig VI
Not illustrated

776 Sole (Type 2) with bunion Leather

Right, with rounded seat, wide waist, broad forepart, gently curved and with bunion extension. Very worn and delaminated, with two cracks in seat, one of which has had the effect of widening it. Grain layer also very worn at front and centre forepart. Edge–flesh stitching channel; stitch length 5mm, 6mm. Length 232.5mm; maximum width of forepart 99mm; width of waist 63mm; width of seat 83mm; thickness 5mm. Conserved. 12th–13th centuries. A9371b; L0009; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh); Rig VI
Illus 118

779 Upper (Type E) Leather (cattle hide)

Fragment of low shoe, comprising rear of vamp, throat, vamp wing, quarters and latchet. Vamp and quarter wings joined in butted edge–flesh seam; stitch length c2.5mm. Edge–flesh seam also at throat. Top edges of quarters and vamp wing oversewn. Second latchet missing. Front of vamp cut away. Crack in remaining part of vamp. Lasting margin with stitching channel of grain–flesh holes; stitch length 5.5mm, 5mm, 4mm, mainly 5–5.5mm. Also three holes 3mm apart—probably one is repair hole. Thickness 3mm. Conserved.

A9371e; L0009; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh); Rig VI
Illus 138

783 Sole (Type 3) Leather and wool

Right, with rounded seat, narrow waist and wide gently curved forepart with broad oval toe. Fragment of rand still attached to outer edge of forepart; wool survives there and in stitch holes on inside waist and at front of forepart. Worn, especially at rear of seat and front of forepart, where cracked. Edge–flesh stitching channel; stitch length 4–9mm, chiefly 5–7mm. Close concentration of holes along inner edge of seat, waist and rear of forepart. Length 242mm; maximum width of forepart 89mm; width of waist 45.5mm; maximum width of seat 70mm. Thickness: outer edge of waist and seat 2.75mm; inner edge of waist 3.5mm; outer and inner edges of forepart 4mm; inner edge of seat 5mm. Conserved. 13th–14th centuries.

A9372a; L0045; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh); Rig VI
Illus 120

798 Sole (Type 1) Leather

Right, with rounded toe. Worn and partially delaminated, with a hole in seat and two cracks in centre forepart. Tunnel stitch holes on reverse indicate that clumps were added to seat and forepart. Edge–flesh stitching channel; stitch length 4–6mm. Length 179mm; maximum width of forepart 73mm; width of waist 63mm; maximum width of seat 63mm; thickness 4mm. Conserved. 12th–13th centuries.

A10366; L0071; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh);

Rig VI

Illus 104

803 Miscellaneous fragment Leather (cattle hide)

Oval, with protruding tabs at each end and with several cuts or slashes through central part. All edges cut but irregular. No trace of stitching. Tongue? Length 122mm; maximum width 45mm; thickness 3mm. Conserved.

A10775b; L1685; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh);

Rig VI

Illus 158

810 Upper (Type F) Leather

Large fragment; comprises pointed vamp, vamp throat, vamp wing, and quarters with domed top edge. Faint trace of stiffener. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Edge–flesh stitching channels on vamp wing and adjoining edge of quarters; stitch length 3mm; leather is so thin on part of quarters that holes are, in fact, grain–flesh. Vamp throat very worn, no stitching channel survives. Top edge of quarters also very worn, probably oversewn. Thickness: vamp wing 1mm; vertical edge of quarters 0.5mm. Matches Sole (Type 4) Cat No 811/A11219b. Conserved. Mid-10th–mid-14th centuries.

A11219a; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh); Rig VI

Illus 139

811 Sole (Type 4) Leather (cattle hide)

Right, with short rounded seat, narrow waist, and long slender forepart, gently curved, with central point. Edge–flesh stitching channel; stitch length 4–5mm. Length 215mm; maximum width of forepart 79mm; width of waist 36mm; maximum width of seat 59mm. Thickness: outer edge of waist, outer, and rear and middle of inner edges of forepart, inner, outer and rear edges of seat 3mm; inner edge of waist, front of inner edge of forepart 3.5mm. Matches Upper (Type F) Cat No 810/A11219a. Conserved. 13th–14th centuries.

A11219b; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh); Rig VI

Illus 139

821 Sole (Type 4) Leather (cattle hide) and wool

Left, long and slender, seat tapering towards rear, narrow forepart, almost symmetrical; pointed toe. Edge–flesh seam; stitch length 5–7.5mm. Wool survives in most of stitch holes. Holes towards rear of seat, repaired with clump sole, stitch holes visible on underneath. Also tunnel stitches on underneath of forepart, marking position of clump sole.

However, forepart not visibly worn, except at one corner of clump area, where surface is slightly pitted. Length 237.5mm; maximum width of forepart 73.5mm; width of waist 51mm;

maximum width of seat 59mm. Thickness: inner edge of waist and forepart 4.5mm; inner edge of seat 5.5mm; outer edge of waist and forepart 4mm. Probably matches Rand Cat No 822/A11221b and Upper (Type Ai) Cat No 823/A11221c. Conserved. Sole: 13th–14th centuries; upper: 12th–14th centuries.

A11221a; L0068; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh);

Rig VI

Illus 121

822 Rand Leather (cattle hide) and wool

Three fragments, stitch length 5.5mm, 7mm. Wool survives in all three fragments. Probably belongs to Sole (Type 4)

Cat No 821/A11221a. Conserved.

A11221b; L0068; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh);

Rig VI

Not illustrated

823 Upper (Type Ai) Leather (cattle hide)

Fragment of high ankle boot with no thongs or holes for them. Comprises vamp, vamp wing, vamp throat, quarters and leg flap. Second leg flap missing. Lasting margin with grain–flesh stitching channel; stitch length 4.5–7mm. Edge–flesh stitching channels on vamp wing, vamp throat, quarters and leg flap; stitch length 3–6mm. Top edge of quarters oversewn. Front of vamp worn, with stitching channel separated from vamp and with crack almost completely detaching front of vamp from rest of upper; also crack in vamp wing. Thickness approximately 1–3mm. Probably matches Sole (Type 4) Cat No 821/A11221a. Conserved.

Sole: 13th–14th centuries; upper–12th–14th centuries.

A11221c; L0068; C2611–3; M1.2, Pit 2648; Phase <IIg(IIh);

Rig VI

Illus 127

828 Miscellaneous fragment Leather and Cu alloy

Fragment, with decorated copper alloy plate (see Fascicule 2, The non-ferrous metalwork, Cat No 42) attached to grain side, and with two thin copper alloy strips attached to flesh side. Fragment of leather is approximately trapezoidal in shape, slightly tapered, with cut edges on one short and two long sides; fourth side torn. Maximum surviving length 75mm; width at torn end c30mm, other short end 22mm. Thickness 1mm. Not apparently delaminated. Trapezoidal plate of copper alloy attached to grain side by four rivets. One end of plate broken (matching torn end of fragment). Approximately mushroom-shaped hole has been cut in the centre of the plate and in leather, probably for a key. Two thin strips of copper alloy on flesh side, originally attached to leather by the same rivets which hold the plate on the grain side–ie strengtheners for decorated plate. Most probably strap or latchet of object with lock, eg purse, wallet, satchel, trunk? One of the strips is still held in place by the rivets, but the other is now only attached at one end. Conserved.

A12279; C5166–3; M1.2, Pit 2648, MW5166; Phase <IIg(IIh);

Rig VI

Not illustrated

830 Miscellaneous fragment with metalwork Leather and Fe

Small, approximately triangular, fragment, very worn and partially delaminated. Thickness 1.5 mm. Nail with rectangular head through fragment. Conserved. A8105; C2239-4; M11; Phase IIh; Rigs V and VI
Not illustrated

867 Miscellaneous fragment Leather (cattle hide)

Approximately square, c63mm by 73mm, consisting of a piece of leather, c1mm thick, 125mm wide and 140mm long, folded twice, resulting in a small square, with grain surface on outside, front and back, and on inside. Fragment held together by one thong, which passes repeatedly through all four thicknesses. Ends of thong are knotted together. All edges folded or cut—none stitched—part of sheath?/belt? Conserved. A8634b; L0038; C2462C-3; M1.3; Phase III; Rig VI
Illus 159

875 Sole Leather

Fragment of left sole, with rounded forepart and front of waist. Edge-flesh stitching channel; stitch length 5mm 5.5mm, 6mm, 6.5mm. Very worn, with large hole. Surviving length 155mm; maximum width 90 mm. Thickness: worn edge of forepart 0.75mm; worn edge at waist 1.5mm; outer edge of waist, rear of outer edge of forepart 3.5mm; inner edge of waist, rear of inner edge of forepart, middle of outer edge of forepart 4mm; middle and front of inner edge of forepart, front of outer edge of forepart 5mm. Matches Upper (Type Kiv) Cat No 878/A8665e. Conserved. A8665b; L1692; C2462C-3; M1.3; Phase III; Rig VI
Not illustrated

878 Upper (Type Kiv) Leather (cattle hide)

Two fragments child's boot with central fastening. Larger comprises vamp, high vamp wing, vamp throat with no stitching, part of quarters, and latchet with cut edges and with horizontal slit. Smaller comprises small latchet attached to high vamp wing by butted edge-flesh stitching channel and with three cut edges. Tunnel hole and single hole, with thong end of toggle threaded through and thus anchored. Head of toggle through slit in first latchet. Lasting margin with grain-flesh stitching channel; stitch length 5–6.5mm. Edge-flesh stitching channel; stitch length 2.5–3.5mm, on vamp wing, second latchet, and on vertical edge of quarters. Thickness 2.5mm. Matching Sole Cat No 875/A8665b. Conserved. 13th–14th centuries. A8665e; L1692; C2462C-3; M1.3; Phase III; Rig VI
Illus 143

897 Sole (Type 2) Leather (cattle hide)

Child's right sole with short wide seat, broad waist and forepart, fairly straight inner edge and gently curved outer edge, narrowing to a rounded toe. Worn, with crack in forepart and hole in centre of seat, and torn stitching channel at rear of seat. Edge-flesh stitching channel; stitch length 5mm, 4mm, 6mm, 6.5mm. Length 155mm; maximum width of forepart 70mm; width of waist 47mm; maximum width of seat 54mm. Thickness: outer and inner edges of waist and

rear of seat 2.5mm; outer edge of forepart 4.5mm; inner edge of forepart 3mm; worn edge of hole in seat 1mm. Matches Upper (Type Ai) Cat No 898/A11260b. Conserved. 12th–13th centuries. A11260a; L0019; C2462C-3; M1.3; Phase III; Rig VI
Illus 124

898 Upper (Type Ai) Leather (cattle hide)

Fragments of child's high ankle boot with decorated vamp. Comprises vamp, vamp throat, vamp wing and quarters. Vamp wing and quarters do not appear to join; small fragment missing. Lasting margin with stitching channel of grain-flesh holes; stitch length 4–6.5mm. Edge-flesh stitching channels on vamp wing, throat, and vertical edge of quarters; stitch length 3–4mm. Rest of vamp throat, and vertical edge of leg flap, cut. Top edge of quarters oversewn, with very faint impression of top band. Vamp decorated with engraved line from throat to toe, and with two at right angles, across middle of vamp; scored with a blunt tool. Thickness 1mm. Conserved. 12th–13th centuries. A11260b; L0019; C2462C-3; M1.3; Phase III; Rig VI
Illus 124

905 Miscellaneous fragment Leather (cattle hide)

Edge-flesh stitching channel; stitch length 3.5–4mm; hole diameter c1mm; other sides cut; approximately symmetrical; line down middle suggests it might have been folded, but with grain surfaces inwards. Slightly cracked and partially delaminated. Purpose—clothing? Length 204mm; height/width 106mm; thickness 2mm. Conserved. A9366; L0077; C2597-3; M1.3; Phase III; Rig VI
Illus 159

916 Sole (Type 8) Leather

Seat, sewn across waist, with edge-flesh stitching channel; stitch length 3mm, 5mm, 5.5 mm. Edge-flesh stitching channel round rest of seat; stitch length 4–6.5 mm. Length 71mm; maximum width 70mm; width of waist seam 58mm. Thickness: waist seam 3mm; sides 3–4mm; rear 4–5mm. Joins Sole (Type 9) Cat No 917/A12490b, and both match Upper (Type Aii) 918/A12490c. Conserved. Upper: 12th–13th centuries. A12490a; C4650-4; M1.3; Phase III; Rig VI
Not illustrated

917 Sole (Type 9) Leather (cattle hide)

Left forepart, sewn across waist, and with oval toe. Edge-flesh stitching stitch length 3.5–6.75mm. Partially delaminated. Length 171mm; maximum width 84mm; width at waist seam 49.5mm. Thickness 3–4mm. Matches Sole (Type 8) Cat No 916/A12490a and Upper (Type Aii) Cat No 918/A12490c. Conserved. Upper: 12th–13th centuries. A12490b; C4650-4; M1.3; Phase III; Rig VI
Illus 123

918 Upper (Type Aii) Leather

Fragment of low ankle boot, with no trace of thongs. Comprises vamp, vamp throat, vamp wings and quarters, in one piece. Lasting margin has stitching channel of grain-flesh holes; stitch length 5–7mm. Edge-flesh stitching

channels on vamp throat, vamp wings and quarters; stitch length c3mm. Top edge of quarters oversewn. Slit on one side of quarters, possibly a deliberate cut for thong or lace. Cracked at front of vamp. Wide flap on each side, folded in to meet waist of sole. Matches Sole (Type 8) Cat No 916/A12490a and Sole (Type 9) Cat No 917/A12490b sewn together at waist. Conserved. 12th–13th centuries.

A12490c; C4650–4; M1.3; Phase III; Rig VI

Not illustrated

919 Sole (Type 2) Leather

Left, with long seat, wide waist and broad forepart, gently curved on both sides and ending in oval toe. Cracked across waist and across middle of forepart. Stitch holes indicate forepart repaired with clump sole. Edge–flesh stitching channel; stitch length 4–7.5mm. length 240mm; maximum width of forepart 95mm; width of waist 55mm; maximum width of seat 73mm. Thickness: inner edge of waist 2.5mm; outer edge of waist 2mm; rear and front of inner edge of forepart, front of outer edge of forepart 3.5mm; rear of outer edge of forepart 3mm; middle of outer edge of forepart and edge of seat 4mm; cracked edges of forepart and waist 1.5mm. Conserved. 13th–14th centuries.

A12536a; L2462; C4655–4; M1.3; Phase II; Rig VI

Illus 118

931 Upper (Type Biii) Leather (cattle hide)

Two fragments of boot with vertical and horizontal thonging. Larger consists of vamp with square hole near throat, vamp wing, vamp throat, quarters and leg flap. Hole may have been cut to relieve pressure on instep, or to hold decorative feature. Edges of hole are not sharply cut, but rounded, as if it had been rubbed. Smaller is side-piece linking quarters and vamp wing; no evidence for stiffener. Vertical thonging on closed side of upper with three short stretches of thong on grain side c7mm long, 5mm wide and 9mm apart. Five short fragments on flesh side, four in vertical line, bottom and top fragments horizontal, bottom fragment pointing towards vamp throat, top fragment towards quarters. Small round hole near top edge of quarters c60mm above uppermost fragment of thong on grain side. On smaller fragment; short piece of vertical thong with one stretch on grain side, length 4mm, width 5mm, three stretches on flesh side with upper horizontal line towards quarters and lower horizontal line towards vamp, probably connecting with horizontal thong on vamp wing–vamp throat, which passes along flesh side, emerging onto grain side through two small holes c37mm apart; thong is knotted on flesh side. Lasting margin with grain–flesh stitching channel; stitch length 5–6mm. Edge–flesh stitching channels; stitch length 2–6mm, on vamp wing, throat and quarters. Top edge of quarters and vertical top edges of leg flap oversewn. Conserved. 12th–13th centuries.

A12305; L0061; C3898–1; MC111; Phase IIb–IIIb; Rig VI

Illus 134

933 Sole (Type 2)? Leather

Right, large, with long seat, very slight narrowing for waist, and broad gently curved forepart ending in oval toe. Edge–flesh stitching channel; stitch length 5–6mm. Very worn and delaminated, with hole in seat and cracks in forepart.

Length 267mm; maximum width of forepart 100mm; width of waist 67mm; maximum width of seat 74mm. Thickness: inner edge of waist 5mm, elsewhere not measurable because of delamination. Matches Upper (Type Biii) Cat No 934/A03-0327b. Conserved.

A03-0327a; L2492; C9488–9; P8.0; Phase IIIa,IIIb; Rig VII

Not illustrated

934 Upper (Type Biii) Leather (cattle hide)

Two joining fragments of boot with one row of horizontal and three of vertical thonging. Larger fragment comprises vamp, vamp throat, vamp wing, quarters and leg flap. Quarters and vamp wing appear to join. Smaller fragment is second leg flap. Lasting margin with stitching channel of grain–flesh holes; stitch length 5–6mm. Edge–flesh stitching channels on vamp throat, wing, quarters and leg flaps; stitch length 5–6mm. Vertical stitching channel on quarters unusual in that along part of it grain has been folded inwards, forming an edge, with c5mm of grain folded inside. On flesh side of quarters, slight impression of semicircular stiffener. Top edges of quarters and leg flaps oversewn. The two fragments are linked by a horizontal thong and both have tunnel holes for vertical thonging with vertical thong surviving on larger fragment. Row of vertical thonging on closed side of quarters, with five short stretches of thong exposed on grain side–single oval hole beside thong–between top stretch and top of quarters. Two vertical rows of tunnel holes for thongs on smaller fragment–two tunnel holes with single hole at each end; second row continues on to vamp throat with one tunnel hole spanning join–suggesting holes made after shoe stitched together. Long horizontal thong emerging from flesh side of smaller fragment, where knotted–evidently once secured by lowest stretch of vertical thong, and still secured by lowest stretch of vertical thong on quarters, passes behind quarters, knotted to another fragment of thong. Matches Sole (Type 2) Cat No 933/A03–0327a. Conserved. 12th–13th centuries. A03–0327b; L2492; C9488–9; P8.0; Phase IIIa,IIIb; Rig VII

Illus 134

970 Sole (Type 8) Leather (cattle hide)

Seat, with edge–flesh stitching channel across waist. Holes on underneath suggest repair clump was added. Delaminated. Edge–flesh stitching channel; stitch length 3.5–4.75mm, very neat; maximum length 79.5mm; maximum width 66mm; width at waist seam 57mm; thickness c4mm, but delaminated. Probably matches Sole (Type 9) Cat No 971/A11261b. Conserved.

A11261a; C2265–4; MC116; Phase IIe–IIIc; Rig V

Illus 123

971 Sole (Type 9) Leather

Left forepart with rounded toe, and trace of stitching channel across waist. Very delaminated. Edge–flesh stitching channel 4.5–6mm. Length 158.5mm; maximum width 78mm; width at waist seam 52mm (possibly c55mm before worn); thickness 5.5mm. Probably matches Sole (Type 8) Cat No 970/A11261a. Conserved.

A11261b; C2265–4; MC116; Phase IIe–IIIc; Rig V

Illus 123

1009 Miscellaneous fragment Leather

Approximately rectangular, 340mm by 235mm, 1mm thick, with stitching channel of very small grain–flesh holes on the three surviving straight edges; stitch length 4.5–5mm. On longest side, five other rows of stitching, parallel to edge: first row c15mm from edge, second 12mm from first, third c5mm from second, fourth c10mm from third and fifth c6mm from fourth. Thread and leather appear to have been gathered along these six rows of stitching. Leather cracked and delaminated, with large part of rectangle missing. Fragment of clothing? Conserved.

A8008; L0044; C2234–4; M1.4a(a); Phase IIIa–IIIc; Rig VI
Illus 162

1035 Sole (Type 3) Leather

Left, long with slender seat and waist and wider forepart, ending in oval toe. Very worn and delaminated, missing part of stitching channel and with holes in forepart. Edge–flesh stitching channel; stitch length 5.5–7mm. Maximum surviving length 259mm; maximum width of forepart 88mm; width of waist 42mm; maximum width of seat 68mm. Thickness: rear of inner edge of forepart 4mm; rear of inner edge of seat 4.5mm. The rest too delaminated. Conserved. 13th–14th centuries.

A8009a; L1726; C2527B–3; MC117, Pit 4695; Phase IIe–IIIc; Rig V
Illus 119

1042 Sole (Type 4) Leather (cattle hide)

Left, with pointed forepart. Worn with crack separating rear of seat from rest of sole. Crack in centre forepart and two at great toe area. Part of stitching channel missing. Edge–flesh stitching channel; stitch length 5–7.5mm, 5mm being most common. Maximum length 240mm; maximum width of forepart 82mm; width of waist 51mm; maximum width of seat 66mm. Thickness: inner edge of forepart 2.5mm; elsewhere 3mm. Conserved. 13th–14th centuries.

A8546; C2527B–3; MC117, Pit 4695; Phase IIe–IIIc; Rig V
Illus 121

1057 Strap (folded twice) Leather

Long, folded twice, edges joined with butted edge to grain stitching channel; stitch length 6–7mm. Length 1075mm; maximum width 58mm, tapering towards both ends. One end cut, with smooth rounded edges, width 20mm; the other, width 27mm, has edge–flesh stitching channel; stitch length 3–4mm, suggesting it was joined to another fragment before being folded. Wide part of strap decorated with two parallel stitching channels of short grain–flesh slits; stitch length 2–3mm. These stitching channels form two ovals and appear on both sides of fragment. No thread survives but probably stitched for decorative effect. Strap pierced at cut end by four round holes, diameter c3mm and c60mm, 100mm and 40mm apart for pin of buckle. Irregular spacing of holes suggests that these were made when they were required. Part of harness? Support for weaponry? Possibly part of horse tack, eg girth, but edge–flesh stitching channel would have been a weak point. Perhaps elaborate belt. Conserved.

A10623; C4544–4; MC117, Pit 4695; Phase IIe–IIIc; Rig V
Illus 153

1061 Strap/belt (single thickness) Leather (cattle hide)

Fragment, 210mm long, 18–25.5mm wide, formed of single thickness of leather (2mm). Perforated by five round holes, diameter c5mm and 37mm, 36.5mm, 38mm, and 32.5mm apart (edge to edge). Also perforated by channels of short slits, c3mm long and 4–5mm apart (edge to edge). Channels not exactly parallel with edges; at thinner end converging on and encircling last hole: at wider end perforated by channel of smaller slits or holes c1mm long and 2.5mm, 3.5mm and 4mm apart. Short cracks radiate from each of the five holes, suggesting wear from pin of buckle. Probably complete. Conserved.

A9554a; L1719; C4564–4; MC117, Pit 4695; Phase IIe–IIIc; Rig V
Illus 151

1062 Strap/belt (single thickness) Leather

Fragment, of single thickness, c117mm long, 30mm wide and 1mm thick. Very cracked, perforated by two round holes, diameter 5mm, 34mm apart, and by two channels of short (2mm) slashes c5mm apart. Conserved.

A9554b; L1719; C4564–4; MC117, Pit 4695; Phase IIe–IIIc; Rig V
Illus 151

1086 Miscellaneous fragment with metalwork Leather and Fe

Very small scrap with small iron buckle still attached; see Fascicule 2, The metalwork, Iron Cat No 17 (322). Conserved. A03-0278a; L1061; C9439-9; B19 (Phase 2b), North Room–Floor (2b); Phase IIIc; Rig VII
Not illustrated

1089 Upper Leather (cattle hide)

Irregularly shaped fragment. Lasting margin with stitching channel of grain–flesh holes; stitch length 7.5mm. Three edge–flesh stitching channels; stitch length 4.5–6mm. One edge with grain–flesh holes, apparently hem stitch; thread remains in two holes. Unusual vertical stitching channel, central rib with grain–flesh holes on either side–implies leather folded tightly inwards and stitched through both layers, forming stiff rib–decorative effect for quarters? Thickness 2mm.

A03–0278d; L1369; C9439–9; B19 (Phase 2b), North Room–Floor (2b); Phase IIIc; Rig VII
Illus 144

1103 Sole (Type 2) Leather (cattle hide)

Left, with wide straight seat, part of which now folded over, wide waist, long forepart with oval toe. Worn, especially forepart with crack in front and large hole in centre; stitch holes indicate crack, but not central hole, repaired with clump sole, ie central hole indicates secondary wear. Partially delaminated. Edge–flesh stitching channel; stitch length 6.5–10mm. Length 256.5mm; maximum width of forepart 86.5mm; width of waist 60.5mm; appropriate maximum width of seat 76mm. Thickness: inner and outer edges of waist 3.5mm; inner edge of forepart 4.5mm; outer edge of forepart 4mm. Matches two fragments of Upper (Type Dii) Cat No 1105/A03–0287c and Rand Cat No 1104/A03–0287b. Conserved. 12th–14th centuries (upper: 13th–15th centuries).

A03–0287a; L1377; C9447–9; P8.1c; Phase IIIc; Rig VII
Illus 137

1104 Rand Leather

Fragment, stitch length 8mm, 9mm, 11 mm. Probably matches Sole (Type 2) Cat No 1103/A03-0287a. Conserved. A03-0287b; L1377; C9447-9; P8.1c; Phase IIIc; Rig VII
Not illustrated

1105 Upper (Type Dii) Leather (cattle hide)

Two fragments, almost certainly from same shoe. One fragment consists of side-piece, joining sole on inner side, at waist and front of seat, oblique split for side lacing, each edge oversewn, four tie holes on each side, tunnel stitching for facing or strengthener parallel to holes. The other fragment is also side-piece, joining sole at outer waist. Lasting margin on both fragments; grain–flesh stitching channels; stitch length 6.5–9.5mm. Edge–flesh stitching channels on second vertical edge of both fragments; stitch length 2.5–5mm. Top edges of both cut. Thickness 3mm. Matches Sole (Type 2) Cat No 1103/A03-0287a. Conserved. 13th–14th centuries
A03-0287c; L1377; C9447-9; P8.1c; Phase IIIc; Rig VII
Illus 137

1116 Sheath Leather (cattle hide)

Plain, constructed from single fragment of leather folded once and sewn with a thong c4.5mm wide and c1mm thick. Upper part is wider and is sewn with second, thinner, thong. Worn, cracked and delaminated. Length 198mm; maximum width 47mm; thickness, single, c0.75mm. Conserved. A9889; L1710; C2606-3; M6a; Phase IIg–IIId; Rig VI
Illus 154

1145 Upper (Type Ai) Leather (cattle hide)

Almost complete upper, in three fragments, of high ankle boot with no thongs or holes for thongs. First fragment comprises vamp, vamp throat, vamp wing, quarters and part of leg flap; vamp wing and quarters possibly join. Second fragment, approximately triangular, joins top of quarter. Third fragment is second leg flap. Lasting margin with grain–flesh stitching channel; stitch length c5mm. Edge–flesh stitching channel on vamp wing, vamp throat and vertical edges of quarters and leg flap; stitch length 2.5–3.5mm. Top edge of quarters oversewn. Thickness c0.5–1.5mm; leg flap 1.5mm; second leg flap 1.5–2mm. Impression of stiffener on flesh side of quarters. Conserved. 12th–14th centuries.
A4817b; C3549-1; M12; Phase IIg–IIId(–IVa); Rig V
Illus 127 (reconstruction)

1214 Miscellaneous fragment with metalwork

Leather and Cu alloy

Strip, folded once, grain side outwards; both ends torn, one long edge cut, other possibly torn (but this edge incomplete). Part of larger object? Perforated by two parallel rows of holes, c1.5 mm diameter, and 4.5, 5, 5.5mm apart; holes for metal rivets of which 23 out of a possible 71 survive. Rivets have heads of Cu alloy (see Fascicule 2, The metalwork, Non-ferrous Cat No 83). Length c175mm; width (single/ folded) 15–18mm; thickness (single) 2mm. Conserved. A9104; C2583-3; M6b; Phase IIg–IIId; Rig V
Not illustrated

1224 Sheath (decorated) Leather (cattle hide)

Small, decorated, with projecting upper part. Now in two parts, joined together. Almost complete. Constructed from a single piece of leather; upper part, height 60mm, folded once, edges stitched together from reverse; lower part tapers, folded twice, with edges meeting in middle of reverse, where joined with butted edge to grain seam; stitch length c5mm. Sheath ends in a narrow point, 6mm wide, 4mm thick, held together by the stitching of the middle seam. Top end cut, with no stitch holes. On upper part of reverse, pair of holes for attachment to belt or other article. Decoration: front, upper part, three horizontal rows, each with two shield or U-shaped motif, all enclosed within a rectangle. Front, lower part, simple curvilinear design–debased acanthus scroll– enclosed in long narrow oblong. Reverse, upper part, two approximately vertical lines with diagonal scorings. All decorations marked out with shallow lines, c0.75mm wide, made with a blunt tool. Length 149mm; width at top 33.5mm; width at base 6mm; thickness at top 3mm. Conserved. 13th century.
A8183; C2247-4; MC120a; Phase IIh–IVa; Rig V
Illus 155

1228 Miscellaneous fragment with metalwork

Leather and metal (unspecified)

Approximately rectangular; each short edge folded once and fastened with short nails, c9mm long, with domed head, diameter c5mm; three nails survive, two broken, one appears to be complete. The heads are on the grain side of the article. Nail holes are c4–5mm apart; where nails are missing, impressions of them are visible. One half of fragment perforated repeatedly in three, possibly four, places–hard to distinguish between deliberate perforation and wear–decoration? Fragment very frail and worn, turned edges cut, long tear down middle, long edges torn. Thickness 1.5mm. Conserved.
A8687a; C2247-4; MC120a; Phase IIh–IVa/39–51; Rig V
Illus 164

1287 and 1288 Upper (Type Di) Leather (cattle hide)

Two fragments of shoe with side lacing. Larger (No 1287) comprises vamp, vamp wings, vamp throat, latches and quarters; on closed side of quarters/vamp wing vertical row of very neat tunnel stitching, tunnels only 3–3.5mm apart, forming slight rib–to hold lining? Smaller (No 1288) is approximately rectangular side-piece, linking quarters and vamp wing. Two matching vertical rows of thong holes on vertical edges of vamp wing and side-piece. Four or five holes on vamp wing, adjacent edge oversewn, faint trace of tunnel stitching for strengthener on flesh side, three holes on side-piece, adjacent edge oversewn, tunnel stitching for strengthener on flesh side. Lasting margin with grain–flesh stitching channel; stitch length 6mm. Edge–flesh stitching channels on vamp throat, diagonal edge of quarters, vertical edge of latchet and on side-piece; stitch length 3–4mm. Top edges of latchet, vamp wing, quarters and side-piece oversewn. Thong links the two fragments: threaded through holes, loosely knotted on grain side, passes to slit on larger fragment, higher up, and c20–25mm from edge, knotted on flesh side. Clumsy repair. Shoe very worn, particularly vamp, with irregular slits. However, these may have originally been

part of openwork decoration. Side-piece is minus lasting margin. Thickness 1.5mm. Conserved. 13th–14th centuries. A6415c, d; L1732; C2528–3; P2.2b; Phase IVa; Rig V
Illus 136

1310 Upper (Type J) Leather

Vamp of shoe, with rounded throat, and edge–flesh stitching channels on both sides of vamp wing and at throat; stitch length 2.3mm. Lasting margin with stitching channel of grain–flesh holes; stitch length 3.5–4mm. Very worn and partially delaminated. Thickness 2mm. Conserved. A6377; L1688; C2536–3; P2.2b; IVa; Rig V
Illus 140

1314 Sole (Type 3) Leather (cattle hide)

Left, with seat which is straight on outer edge, slightly curved on inner and rear edges, slight narrowing for waist, wide forepart, almost straight on inner edge, curved on outer edge. Rounded toe. Edge–flesh stitching channel; stitch length 5mm. Stitch holes on underside indicate both seat and forepart repaired with clump soles. Hole up centre of sole. Length of hole 183mm; maximum width 23mm, pointed at each end. Edge–flesh stitching channel up each edge; stitch length 3–4mm. Sole made up of two pieces? Repair? Forepart worn and thin, particularly on left side of stitched hole, with three holes. Length 239mm; maximum width of forepart 98.4mm; width of waist 61.5mm; maximum width of seat 65mm. Thickness: inner edge of waist, seat, rear of inner edge of forepart 4mm; outer edge of waist and seat, rear and front of outer edge of forepart 3.5mm; middle of outer edge of forepart 4.25mm; middle of both edges of stitched hole 2mm; worn edge of forepart 0.25mm. Conserved. 13th–14th centuries. A7989a; L1751; C2203–4; MC143; Phase IVa; Rig V
Illus 120

1360 Sheath (decorated) Leather (cattle hide)

Fragment, engraved with a blunt tool and punched with a hollow tool. Construction: made from single fragment of leather folded once, edges probably joined with grain–flesh seam, of which only a few stitches remain, as most of outer edge is missing, worn and cracked. Projecting upper part approximately rectangular when complete, lower part tapers to a point. A few stitch holes remain on projecting edge of rectangular section: stitch length c6mm. A few stitch holes also survive on lower section: stitch length 9–10mm. Decoration: upper and lower sections of front decorated with diamond pattern, each diamond filled with a round hole, apparently punched with a hollow tool. Diamonds c4mm by 4mm, holes diameter c1.5mm. The sections of diamond patterns are bordered by engraved straight lines, and between the upper and lower sections are two horizontal lines. On either side of upper section are panels with bands of four diagonal strokes with c1.5mm between each stroke and 7–9mm between each band; each panel c6mm wide. To right of right-hand panel of upper section is zone with continuous zigzag and edge of second zigzag pattern. At top of lower section, edge of three horizontal lines to right of diamond pattern. Lower section of reverse decorated with vertical panel of oblique strokes c2.5–3.5mm apart,

on left hand side; right hand side plain except for a few oblique strokes, continuation of chevrons on left hand side of diamond pattern on front. Most of grain side missing from reverse, but some remains with decoration; three horizontal lines, continuation of those bordering and beneath upper section of diamond pattern on front. Above this are another two vertical lines, whose impression also visible on flesh layer. To right of vertical lines, three bands of four slightly concave oblique lines c1.5mm between lines and 5–8mm between bands. Very worn, cracked and delaminated. Length 137.5mm; maximum width 46mm. Conserved. 13th–14th centuries.

cf Kings Lynn, diamonds enclosing punched holes, mid-13th to mid-14th century (Clarke and Carter 1977, 364–6, fig 169, 91)
A8002; L1772; C2237–4; MC143; Phase IVaa; Rig V
Illus 156

1361 Sole (Type 5) Leather (cattle hide)

Right, with long slender seat, very narrow waist, wide forepart ending in point. Edge–flesh stitching channel; stitch length 4mm. Length 213.5mm; width of forepart 79mm; width of waist 20mm; maximum width of seat 49mm. Thickness: outer and inner edges of waist, outer edge of seat, outer edge of forepart 2.5mm; inner edge of forepart and seat 3mm. Conserved. 13th–15th centuries. A8007a; L1772; C2237–4; MC143; IVaa; Rig V
Illus 122

1362 Upper (Type Di/J) Leather (cattle hide)

Vamp of low shoe, lasting margin missing, separate from quarters, and with row of five tie holes on one vamp wing—hence types Di and J. Diameter of holes 1.5mm, and 7mm, 10mm, 9mm, 9mm apart. Edge parallel to holes oversewn. On flesh side, tunnel stitching for strengthener. Edge–flesh stitching channels on second vamp wing, vamp throat and vertical edge of latchet; stitch length 2.5mm. Top edge of latchet oversewn. Thickness 1.5mm. Conserved. 13th–14th centuries. A8007b; L1772; C2237–4; MC143; Phase IVaa; Rig V
Illus 136

1430 Miscellaneous fragment Leather

Very tattered and torn, with hem stitching along four edges and two parallel rows of tunnel stitch holes. Similar to Miscellaneous fragment Cat No 1431/A6187f. Very worn. Thickness 0.75mm. Clothing? Conserved. A6187e; L1655; C2215–4; MC156; IVaa; Rig V
Illus 162

1431 Miscellaneous fragment Leather

Two joining fragments with five rows of stitches, very torn and tattered, partially delaminated. Clothing? Conserved. A6187f; L1655; C2215–4; MC156; IVaa; Rig V
Illus 164

1568 Miscellaneous fragment Leather

Short, with one long edge folded over and stitched down with hem stitch, other edges torn. Length 104mm; width 45–48mm; width of hem 13mm; thickness c1.5mm. Clothing?

Conserved.

A03–0423a; L2328; C7363–7; MC130; Phase <IIIc–IVaa;

Rig VII

Illus 160

1569 Miscellaneous fragment Leather

Short, with one long edge folded over and stitched down with hem stitch, other edges torn. Length 190mm; width 37–47mm; width of hem 13–15mm; thickness 1.5mm. Clothing? Conserved.

A03–0423b; L2328; C7363–7; MC130; Phase <IIIc–IVaa;

Rig VII

Illus 160

1570 Miscellaneous fragments (2) Leather

Two, with narrow hems. A03–0423c) Long strip, with one long edge folded over and stitched down with hem stitch, leaving scalloped impression on flesh side. One short edge also folded over and stitched down. Second long edge cut. Second short edge torn. Length 215mm; maximum width 25mm; width of hems 6–7mm; thickness 1mm. A03–0425d) Worn and delaminated, with one long and one short edge folded over and stitched down with hem stitch. Second long edge cut, second short edge torn. Length 181mm; maximum width 60mm; width of folded edge 6–8mm; thickness 1mm. Clothing? Conserved.

A03–0423c,d; L2328; C7363–7; MC130; Phase <IIIc–IVaa;

Rig VII

Illus 163

1692 Miscellaneous fragment with metalwork

Leather, wood and Cu alloy

Irregular, folded once, with grain surfaces exposed on both sides. Row of nine copper alloy rivets parallel with folded edge and c3mm from it. Heads of six rivets and shaft of one survive in situ, a seventh head and a shaft survive separately. Rivets pass through small, approximately round, grain–flesh holes c4–5mm apart. A further 26 holes are now without their rivets (originally 35 rivets). Fragment incomplete; is nailed to wooden object and was folded in order to give neat edge. Leather on underneath side cut leaving a regular edge—probably in order not to waste leather which could have been used elsewhere. Thickness c1.5mm. Conserved. (see Fascicule 2, The metalwork, Non-ferrous Cat No 84). A5124; C2510–3; B3(South), Pit 2529; Phase IVa,IVaa; Rig V Not illustrated

1752 Sole (Type 2) Leather

Two joining fragments, very worn, probably right foot, with broad seat, waist and forepart, ending in oval toe. Particularly worn at rear of seat, outer edge of waist and forepart, and in centre of forepart, where large hole now separates sole into two fragments. Stitch holes on underside indicate forepart repaired with clump sole. Slight delamination at rear of seat. Edge–flesh stitching channel; stitch length 5–6.5mm. Length 246.5mm; maximum width of forepart 103mm; width of waist 61mm; maximum width of seat 73mm. Thickness: outer edge of waist 3mm; rear and outer edge of forepart 4mm; front of outer edge of forepart 4.5mm; rear and front of inner edge of forepart, seat 5mm; torn edge of forepart 1.5mm. Conserved. 12th–14th centuries.

A03–0350a; C7336–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII Illus 118

1754 Sole (Type 3) Leather

Right, very worn, with wide seat, slightly narrower waist and long gently curved forepart, with oval toe. Hole in seat and three holes in forepart, partially delaminated. Stitch holes on underside indicate seat repaired with clump sole. Edge–flesh stitching channel; stitch length 4.5–7mm. Length 254mm; maximum width of forepart 89mm; width of waist 52mm; maximum width of seat 74mm. Thickness: outer edge of waist 3.5mm; inner edge of waist, inner edge of seat 4mm. Rest delaminated. Conserved. 13th–14th centuries.

A03–0350c; C7336–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII Illus 119

1804 Sole (Type 4), upper (Type Di) and thong

Leather (cattle hide)

Left sole with long thin seat; narrow waist and slender gently curved forepart, ending in pointed toe; upper now attached by thong. Edge–flesh stitching channel; stitch length 4–5mm. Seat very worn, with large hole; part of stitching channel missing. Inner front of forepart worn very thin, stitching channel replaced by two holes and thong. Length 230mm; maximum width of forepart 82mm; width of waist 36.5mm; maximum surviving width of seat 54mm. Thickness inner edge of waist, outer edge of seat, rear of outer edge of forepart 2.5mm; outer edge of waist 2mm; inner edge of seat, rear of inner edge of forepart 3mm; middle of outer edge of forepart 3.5mm; front of outer edge of forepart 4mm; middle of inner edge of forepart 1.5mm; front of inner edge of forepart 1mm; worn edge of seat 0.25mm. Upper comprises vamp, vamp wing and quarters; side-piece c30mm wide missing. Lasting margin with grain–flesh stitching channel; stitch length 4–5mm. Mostly cut away above lasting margin possibly for reuse. Quarters with stitch holes for small triangular stiffener; long diagonal edge, oversewn, with five tie-holes, row of tunnel stitch holes on flesh side for facing or strengthener. Edge–flesh stitching channels on quarters and vamp wing; stitch length 2.5–3mm. Inner edge of vamp attached to forepart of sole by 8mm wide thong, which passes through a slit in vamp and one in forepart; knotted by being passed through a slit in itself. Another slit in forepart, two more in vamp. Repair/replacement of worn edge–flesh stitching channel. Conserved. 13th–14th centuries.

A03–0367a; L2323; C7336–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII

Illus 145

1805 Miscellaneous fragment Leather

Approximately oblong, with three oversewn edges, and one cut or cracked edge. Maximum length 103mm; maximum width 96mm; thickness c1.5–2mm. Clothing? Conserved.

A03–0367b; L2323; C7336–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII

Illus 159

1826 Miscellaneous fragment Leather

Small, approximately triangular. One short straight edge c125mm long, stitched with pairs of holes 5mm apart, holes 6mm apart. Slightly curved edge also stitched with pairs of holes 6mm apart, slightly gathered, holes 3–4mm apart. Third edge slightly irregular and probably rand; parallel to it, four rows of stitching 18mm, 41mm, 35mm apart, with pairs of holes

c15mm apart, holes 2mm apart. Thickness c1.5mm. Clothing? Conserved.

A03–0376a; L2337; C7336–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII
Illus 161

1827 Miscellaneous fragment Leather

Large, irregular in shape. One long edge, 415mm, has pairs of grain–flesh stitch holes c8–10mm apart, holes 6mm apart, parts of edge now folded over. Parallel to and c180mm from this edge is an edge 183mm long also stitched with pairs of holes 6mm apart, holes 4mm apart, thread has been pulled, gathering leather together. Parallel edges joined on one side by curved edge, again stitched with pairs of holes c5mm apart, holes c6mm apart. Fourth, irregular, edge torn or cut? Between the two parallel edges is a line of pairs of holes 14–16mm apart, holes 3–5mm apart, parallel to shorter edge and c65mm from it. Another line of stitching occurs parallel with long edge, then curves up to join other line of stitching–pairs of holes, but irregular and holes very small. A line of pairs of holes c7mm apart, holes c4mm apart, at right angles to long edge, probably joins curved edge which is torn. A line of three pairs of holes c18mm apart, holes c2mm apart, occurs in angle between long edge and curved edge. Thickness c1.5mm. Clothing? Conserved.

A03–0376b; L2237; C7336–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII
Illus 161

1991 Sole (Type 3) Leather

Right, slender, with pointed oval toe. Edge–flesh stitching channel; stitch length 5–6mm. Worn and partially delaminated, with holes in seat. Length 248mm; maximum width of forepart 87mm; width of waist 38mm; maximum width of seat 69mm. Thickness: inner edge of forepart 2.5mm; outer edge of forepart 4mm; rear of seat 4.5mm. Conserved. 13th–14th centuries.

A03–0362a; L2489; C7342–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII
Illus 119

2181 Sole (Type 7) Leather

Left, fragment with long rounded seat, very narrow waist and gently curved forepart, turned inwards slightly. Cut across front of tread, with worn stitching channel of edge–flesh holes; stitch length 4.5mm, 6.5mm: possibly a repair seam. Edge–flesh stitching channel round rest of sole; stitch length 4mm, 5mm, 6.5mm, 6mm, 7mm. Slight delamination at outer edge of waist. Crack across middle of seat, thin strip missing. Short crack on inside edge of forepart. Rear and front of outer edge of forepart worn. Several shallow cuts in centre of waist and forepart, and on either side of missing slit in seat. A few holes on underside suggest seat repaired with clump sole. Maximum surviving length 226mm; maximum width of forepart 88mm; width of waist 34mm; maximum width of seat 68mm. Thickness: inner edge of waist and rear of inner edge of forepart, outer edge of seat, rear and middle of outer edge of forepart 4mm; inner edge of seat, rear and middle of outer edge of forepart 4mm; inner edge of seat, front of inner edge of forepart 3.5mm; sewn edge across tread and front

of outer edge of forepart 2mm; worn edge of seat 1.5mm. Conserved.

A03–0385a; L2334; C7342–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII
Illus 123

2272 Miscellaneous fragment Leather (cattle hide)

Worn and completely delaminated triangular fragment (grain and flesh layers completely separate) with two long cut edges meeting in a point. Third edge torn, but part of it may be cut. Grain–flesh slits parallel with long edges, perforating both layers; slits c4–5mm from edge, and 4mm long and c3mm apart end to end, 5–6mm centre to centre. Grain layer decorated with small circles, diameter 3mm, made with a hollow punch. Maximum length 105mm; maximum width 64mm. Thickness: flesh layer 2.5mm; grain layer 1mm. Conserved.

A03–0426b; L2499; C7342–7; MC126, Pit 7402; Phase IVaa,IVb; Rig VII
Illus 158

2274 Miscellaneous fragment Leather (sheepskin)

Large, irregular, c280mm by 350mm, one straight edge with grain–flesh stitching holes, but scalloped edge suggests it has been oversewn. Stitching channel shiny–like lasting margin–covered by binding? Another, irregular, edge with stitching, part of it folded over, as if for hem. Between these stitched edges are widely spaced rows of stitching channels of grain–flesh holes; stitch length c10–20mm; five such rows parallel with regular stitched edge c50–60mm apart; two short rows at right angles to these. Also three other rows, approximately parallel with first five, but closer together, c11–13mm apart. Fragment very worn and torn, c1mm thick. Possibly two tunnel holes. Clothing? Conserved.

A03–0411a; L2319; C7338–7; MC146, Pit 7339; Phase <IVb; Rig VII
Illus 162

2303 Upper (Type Di) Leather (cattle hide)

Fragment of shoe with part of vamp, vamp throat with small latchet, low quarters, ending in diagonal edge with row of five tie holes. Edge itself has been oversewn. Interior very worn, no trace of tunnel holes for stiffener or facing. Lasting margin with stitching channel of grain–flesh holes; stitch length 6mm, 6.5mm, 7mm, 7.5mm. Top edge oversewn. Edge–flesh stitching channel at vamp throat; stitch length 3.5mm. Thickness 1mm. Conserved. 13th–14th centuries.

A03–0276d; L1367; C7294–7; M1.4f; Phase IVc; Rig VI
Illus 136

2307 Miscellaneous fragment Leather

Long and narrow, with approximately vertical row of 21 holes, mostly in pairs. Single hole and two pairs in middle of fragment. Edge parallel to holes probably oversewn. Two edge–flesh stitching channels; stitch length 3mm. Thickness 1mm. Clothing? Conserved.

A03–0279d; L1370; C7294–7; M1.4f; Phase IVc; Rig VI
Illus 160

2312 Strap (folded twice) Leather (cattle hide)

Fragment, formed of strip of leather folded twice, edges meeting in centre of reverse at one end and stitched together in a butted edge to grain seam; stitch length c4.5mm. Join of edges slants towards one edge, and at other end the two edges are face to face. Several holes in centre of front of strap, through some of which a thong, c5mm wide and c2mm thick, passes. Row of slits parallel to each edge of strap, on both sides. Length 223mm; width, folded, 20mm; thickness, unfolded, 3mm. Very worn and cracked. Conserved.

A03–0280; L1371; C7294–7; M1.4f; Phase IVc; Rig VI
Illus 150

2333 Sole (Type 3) Leather

Right, with rounded seat, fairly narrow waist and wide forepart ending in oval toe. Very worn, with holes in seat and forepart, both of which repaired with clump soles. Edge–flesh stitching channel; stitch length 4.5–6mm. Length 257mm; maximum width of forepart 98mm; width of waist 46mm; maximum width of seat 73mm. Thickness: outer edge of waist 2mm; inner edge of waist 2.5mm; rear of outer edge of forepart 3mm; rear of seat 5.5mm; front of inner edge of forepart 6mm. Matches Upper Cat No 2337/A03–0291e. Conserved. 13th–14th centuries.

A03–0291a; L1738; C7294–7; M1.4f; Phase IVc; Rig VI
Illus 147

2337 Upper Leather (cattle hide)

Large fragment, comprising vamp, vamp wing and quarters. Lasting margin with stitching channels of grain–flesh holes; stitch length 4.5–6.5mm. Vamp wing and quarters joined with butted edge–flesh stitching channel; stitch length 2.5mm. Upper very worn and patched in three places, remainder appears to have been cut away, probably for re-use. Thickness 1.5–3mm. Matches Sole (Type 3) Cat No 2333/A03–0291a. Conserved.

Sole: 13th–14th centuries.
A03–0291e; L1738; C7294–7; M1.4f; Phase IVc; Rig VI
Illus 147

2338 Sole (Type 3)? Leather

Left, long with seat, narrow waist and slender forepart, gently curved. Probably oval toe but end missing. Worn, especially on inner side of forepart and at rear of seat, partially delaminated. Surviving length 262mm; maximum width of forepart 89mm; width of waist 46mm; maximum width of seat 73mm. Thickness: worn edges 0.75mm; inner edge of forepart 2.5mm; inner edge of seat, outer edge of forepart 3.5mm; rear and outer edge of seat 4mm. Underside bears faint impression of checked pattern. Conserved. 13th–14th centuries.

A03–0308a; L1392; C7326–7; M1.4f; Phase IVc; Rig VI
Not illustrated

2361 Sole (Type 2)? rand and upper Leather and wool

Left sole with two fragments of rand and large fragment of upper still attached. Sole with seat tapering towards rear, wide waist and broad rounded forepart, narrowing to an oval toe. Edge–flesh stitching channel; stitch length 5–6.5mm. Worn, particularly centre forepart; wool survives in many stitch holes. Two fragments of rand still attached to waist and to rear of inner edge of forepart and to front of forepart, second fragment is bent over front of vamp, thus protecting it. Upper

comprises vamp, vamp wing and quarters joined. Lasting margin with grain–flesh stitching channel; stitch length 5–6.5mm. Edge–flesh stitching channels on vertical edge of quarters and vamp wing; stitch length 2–3mm. Top edges of quarters and vamp wing oversewn–high shoe, not boot. Stitch holes mark position of triangular stiffener. Length of sole 240mm; maximum width of forepart 90mm; width of waist 62mm; maximum width of seat 68mm. Conserved. 12th–13th centuries?

A03–0331a; L2326; C7326–7; M1.4f; Phase IVc; Rig VI
Illus 146

2486–2488 Upper (Type Ai) Leather (cattle hide)

Three fragments of high ankle boot, probably a child's, with no thongs or holes for thongs. No 2486/A03–0392h, large fragment comprises vamp, vamp wing, vamp throat, quarters and leg flap. On flesh side of quarters, impression of triangular stiffener, with trace of stitch holes. No 2487/A03–0392i, lower side-piece, fitting between vamp wing and quarters. No 2488/A03–0392j, side-piece fitting above Cat No 2487/A03–0392i, lasting margin with grain–flesh stitching channel; stitch length 5–7.5mm. Edge–flesh stitching channels on vamp wing, vamp throat, diagonal edge of quarters, on part of top edge of quarters and on both side-pieces; stitch length 3.5–4.5mm. Part of top edge of quarters oversewn. Probably missing higher fragment(s). Small triangular stiffener with lasting margin and two oversewn edges. Conserved. 12th–13th centuries.

A03–0392h–j; L2332; C7335–7; M1.4f; Phase IVc; Rig VI
Illus 128

2514 Belt/strap (single thickness) Leather (cattle hide)

Three fragments of belt of single thickness (2mm). Two join, combined length 490mm; width 45–50mm, two lines of short diagonal slits parallel to each edge; row of seven round holes in centre, hole diameter c5mm, and c35mm, 40mm, 55mm apart (centre to centre). One end of one fragment is perforated by oval holes–for attachment of buckle or other belt fitting? Third fragment, length 165mm; width 42–48mm, perforated by irregular pattern of oval holes–for belt fitting? Conserved.

A03–0401a; L2317; C7350–7; P8.2b; Phase IVb; Rig VII
Illus 152

2535 Miscellaneous fragment Leather

Large and very tattered but with stitching along two long edges and with parallel rows between. One long edge has been partially folded and stitched along fold–one part of edge now folded, other has opened out. Adjacent and almost parallel to still folded edge are three parallel rows of tunnel stitching c10mm apart, pairs of holes c3mm apart with c5mm between them. Parallel to these rows and to edge now opened out are three rows of tunnel stitching c27mm from first three rows and 40mm and 65mm apart, pairs of holes are c5mm apart with c10–12mm between pairs. Both ends of other long edge of fragment have been folded over and stitched along fold–now partially folded and partially opened out, middle part of edge oversewn, leaving scalloped edge. c415mm by 300mm. Clothing? Conserved.

A03–0409b; L2322; C7350–7; P8.2b; Phase IVb; Rig VII
Illus 161

2554 Strap (single thickness) with metalwork

Leather and Fe

Short fragment, of single thickness, length 53mm, width 7mm, thickness 3.5mm. Ring of iron buckle attached to one end of strap. Pin of buckle passes through grain–flesh hole in leather (see Fascicule 2, The metalwork, Iron Cat No 18 (599)). Other end of strap cracked, one slit 4.5mm long survives, also top edge of another beneath it. Two small round holes 5mm apart (centre to centre), and c1.5mm in diameter. Conserved.

A04-0430; C9245-9; P8.2b; Phase IVb; Rig VII

Not illustrated

2636 Strap (single thickness)? Leather

Of single thickness, with cut edge and two groups of four slits– for fastening? Length 261mm; maximum width 38.5mm; thickness 3mm. Conserved.

A03-0176; L1267; C9277-9; B18 (Phase 1/2); Phase IVaa,IVb; Rig VII

Illus 152

2652 Sole (Type 1) Leather

Child's left sole with long narrow seat, wide waist, long slender forepart with oval toe. Front of forepart bent over. Worn, with hole towards rear of seat; two small holes in centre forepart. Edge–flesh stitching channel; stitch length 4–7mm. Maximum length 165.5mm; maximum width of forepart 55.5mm; width of waist 42mm; maximum width of seat 47.5mm. Thickness: inner and outer edges of waist, outer edge of seat 3mm; inner edge of forepart 2.5mm; bent-over edge of outer forepart 4mm; inner edge and rear of seat 3.5mm; worn edge of hole in seat 0.25mm. Matches Upper (Type Bii) Cat No 2653/A03-0316c. Conserved. 12th–13th centuries.

A03-0316b; L1734; C7325-7; B18 (Phase 1/2), Pit 7324; Phase IVaa,IVb; Rig VII

Illus 146

2653 Upper (Type Bii) Leather

Large fragment of child's boot, with tunnel holes for two horizontal rows of thonging. Comprises vamp, vamp throat, vamp wing, quarters and leg flap. Two tunnel holes, one above the other, on each side of quarters. Tunnel stitch holes on flesh side of quarters indicate position of semi-circular stiffener. Lasting margin with grain–flesh stitching channel; stitch length 3.5–6mm (mainly 5mm). Edge–flesh stitching channels on vamp wing, vamp throat, vertical edge of quarters and leg flap and on part of top edge of quarters; stitch length 2.5–5mm. Rest of top edge of quarters and leg flap oversewn. Matches Sole (Type 1) Cat No 2652/A03-0316b. Conserved. 12th–13th centuries.

A03-0316c; L1734; C7325-7; B18 (Phase 1/2), Pit 7324; Phase IVaa,IVb; Rig VII

Illus 146

2700–2703 Miscellaneous fragments (4)

Leather (cattle hide)

Three fragments joined together by a thong. No 2700, long, with one very tattered edge and edge–flesh stitching channel; stitch length 3.5–4.5mm along half of second edge, rest of edge cut, with holes with thongs threaded through them; thong

also passes through small, approximately oblong, fragment (No 2701) with two edge–flesh stitching channels; stitch length 3–4mm; fourth edge torn; No 2702 loosely connected to No 2700 by thong, edge with thong also has trace of edge–flesh stitching channel, opposite is cut and has four oval holes c9mm by 4mm and c17mm apart (centre to centre)– fragment of lasting margin? sandwiched between thong and c). Thong which connects Nos 2700 and 2702 is separate from that which links Nos 2700 and 2701. No 2703 comprises two thongs knotted together–probably part of same article. Conserved.

A03-0292a-d; L1381; C7307-7; B18 (Phase 1/2), MF 7307; Phase IVaa,IVb; Rig VII

Illus 164

2724 Miscellaneous fragment Leather

Approximately oval, narrowing at each end, with leather rolled together on flesh side forming a tab at each end, stitched with butted grain–flesh seam. Centre cut by several irregular lines. Maximum length 131mm; maximum width 31mm; thickness 2mm; width of tab 4–5mm; thickness of tabs 5mm. Tongue? Conserved.

A03-0383; C7384-7; B18 (Phases 2a and 2b), T7385; Phase IVb; Rig VII

Illus 158

2725 Sole (Type 3)?, rand and upper (Type C)

Leather and wool

Right sole, six fragments of rand, and two fragments of upper of boot; all sewn together with wool. Right sole with rounded seat, narrow waist, wide gently curved forepart, probably oval toe but point missing. Edge–flesh stitching channel; stitch length 5–6mm. Worn on outer edge of forepart where stitch holes perforate grain layer, not edge. Six fragments of rand, stitch length 5–6mm. Rand is wider at inside and outside waist, extending 7mm and 9.5mm respectively beyond stitching channel, thus improving water tightness of sole–upper seam. Two fragments of boot with tie holes for side lacing; larger comprises vamp, (missing front), vamp wing, vamp throat, quarters, and leg flap; smaller is leg flap. Lasting margin with grain–flesh stitching channels; stitch length 5–6mm. Edge–flesh stitching channel on top edge of quarters, vertical edges of leg flap and on vamp throat, and on lower part (20mm) of join between quarters and vamp wing/leg flap. Rest of top edge cut, not oversewn. Parallel to oversewn higher parts of those edges are tie holes. On vamp wing are six holes 20mm apart. On adjacent edge of quarters are eight holes 17–23.5mm apart. Holes not directly opposite each other, ie not paired. Parallel to tie holes are tunnel stitch holes on flesh side, for facing or strengthener. No stitch holes for stiffener survive. Boot complete but for toe of sole and upper, and small part of upper which would have joined top edge of quarters. Surviving length of sole 230mm; maximum width of forepart 85mm; width of waist 40mm; maximum width of seat 70mm; maximum height of quarters c145mm. Conserved. 13th–15th centuries?

A03-0413a; C7384-7; B18 (Phases 2a and 2b), T7385; Phase IVb; Rig VII

Illus 135

2745 Upper (Type C) Leather (cattle hide)

Three fragments of high boot with side lacing. Largest fragment is part of leg, with vertical row of nine thong holes c13mm, 15mm, 16mm, 17mm, 16mm, 15mm, 15mm, 17mm apart (measuring upwards). Edge parallel to holes oversewn. To left of holes, on flesh side, is tunnel stitching for facing or strengthener. Middle fragment is rectangular, probably leg flap, with vertical row of five thong holes, parallel to oversewn edge. Tunnel stitching on flesh side for facing or strengthener, to right of holes. Smallest, triangular fragment joins largest fragment. Edge–flesh stitching channels; stitch length 3–4mm; on second vertical edge and on part of bottom edge of largest fragment, on second vertical edge of middle fragment, and on two edges of smallest fragment. Hem stitch on rest of top edge of largest fragment, on top edge of middle fragment, and on third edge of smallest fragment. Rest of upper cut away. Thickness 2–3mm. Conserved. 14th–15th centuries. A03–0294a; L1383; C7306–7; B18 (Phase 2b), North Room and Hall–Construction (1); Phase IVb; Rig VII Illus 135

2747 Sole (Type 2) Leather (cattle hide)

Child's left sole with broad seat and waist and forepart, rounded toe. Underneath of seat and forepart slightly worn. Slight delamination at front of forepart. Edge–flesh stitching channel; stitch length 3–6mm. Length 141.5mm; maximum width of forepart 57mm; width of waist 38mm; maximum width of seat 49mm. Thickness: inner edge of waist, inner edge of forepart, middle of outer edge of forepart 3.5mm; outer edge of waist, rear of seat, rear of outer edge of forepart 3mm; inner edge of seat, front of outer edge of forepart 4.5mm. Conserved. 12th–14th centuries. A03–0297a; L1386; C7306–7; B18 (Phase 2b), North Room and Hall–Construction (1); Phase IVb; Rig VII Illus 124

2750 Sole (Type 3) Leather

Left, long with oval seat, moderately narrow waist and fairly wide forepart, bent inwards. Edge–flesh stitching channel; stitch length 4mm, 4.5mm, 5.5mm, 6mm, 8mm, 6.5mm. Very worn and delaminated, with holes in seat and forepart. Maximum length 259mm; maximum width of forepart 91mm; width of waist 49mm; maximum width of seat 71.5mm. Thickness: rear of inner edge of forepart 1.5mm; front of inner edge of forepart, outer edge of forepart 3mm; rear of seat 3.5mm. Conserved. 13th–14th centuries. A03–0293; L1382; C7304–7; B18 (Phase 2b), North Room and Hall–Construction (2); Phase IVb; Rig VII Illus 119

2754 Sole (Type 2) Leather

Right, with long narrow seat, slender waist, wide forepart, fairly straight on inner edge, gently curved outer edge. Very worn, with large hole in centre forepart and smaller one in seat. Edge–flesh stitching channel; stitch length 5–6.5mm. Surviving length 255.5mm; maximum width of forepart 95mm; width of waist 45.5mm; maximum width of seat 67.5mm. Thickness: outer edge of forepart 3mm; inner edge of waist and seat, front of outer edge of forepart 3.5mm; inner edge of forepart 4mm; worn middle outer edge of forepart 1.5mm.

Matches Upper (Type Dii) Cat No 2759/A03–0288f. Conserved. 12th–13th centuries.

A03–0288a; L1378; C7299–7; B18 (Phase 2b), North Room, Hall and Hall South–Occupation (10); Phase IVb; Rig VII Illus 137

2759 Upper (Type Dii) Leather

Two fragments of low shoe with side-pieces slit for side lacing; larger comprises vamp, vamp wing, vamp throat, small latchet and quarters; slit or crack in quarter with thong or offcut emerging from it: smaller is side-piece, linking vamp wing and quarters. Vertical distance between holes: left 8.5mm, 10.5mm, 14.5mm, 11mm, 6.5mm; right 11.5mm, 11mm, 10.5mm, 12.5mm, 8mm (from bottom upwards). Horizontal distance between holes 12mm, 15mm, 17mm, 12.5mm, 13.5mm and 16mm. Lasting margin on both fragments, grain–flesh stitching channel, stitch length 5mm, 6mm. Edge–flesh stitching channels on vamp wing, vamp throat, vertical edge of quarters and on both vertical edges of side-piece; stitch length 2.5–3mm. Top edges of quarters, leg flap and side-piece oversewn. Larger fragment worn, cracked and delaminated. Smaller fragment in good condition. Second leg flap missing. Matches Sole (Type 2) 2754/A03–0288a. Conserved. 13th–14th centuries. A03–0288f; L1378; C7299–7; B18 (Phase 2b), North Room, Hall and Hall South–Occupation (10); Phase IVb; Rig VII Illus 137

2762 Sole (Type 9) Leather

Right forepart, slender, gently curved with oval toe now bent over. Very narrow waist with edge–flesh stitching channel. Two tunnel holes in rear of forepart, only one of which reaches grain layer, with short length of thong threaded through them: reuse of leg of upper of boot? Sole very worn and delaminated. Edge–flesh stitching channel; stitch length 6–7mm. Length 142mm; maximum width 73mm; width of waist 27.5mm; width of waist seam 29mm. Thickness not measured because of delamination. Conserved. A03–0104b; L0462; C9132–9; B18 (Phase 2b), North Room, Hall and Hall South–Occupation (10); Phase IVb; Rig VII Illus 123

2769 Miscellaneous fragment Leather (cattle hide)

Long triangular fragment with two edge–flesh stitching channels meeting in a point; stitch length 1.5–2.5mm. Third edge cut. At the end, grain–flesh stitch holes form and fill a rectangle for attachment of other article or for decoration? Thickness 2mm. Clothing or part of leg of upper of boot? Conserved. A03–0113e; L0468; C9132–9; B18 (Phase 2b), North Room, Hall and Hall South–Occupation (10); Phase IVb; Rig VII Illus 161

2771 Upper (Type C) Leather (cattle hide)

Small fragment of low boot with side lacing, probably leg flap. Parallel to vertical oversewn edge are four thong holes, diameter c2mm and 14.5mm, 13.5mm, 15.5mm apart. Tunnel stitching for facing or strengtheners. Top edge oversewn. Edge–flesh stitching channel on third edge; stitch length 3–3.5mm. Fourth edge torn. Worn and delaminated. Thickness

1.5mm. Conserved. 14th–15th centuries.

A03–0123a; L0476; C9132–9; B18 (Phase 2b), North Room, Hall and Hall South–Occupation (10); Phase IVb; Rig VII
Illus 135

2775 Sole (Type 2) and rand Leather

Fragment of right forepart with oval toe. Edge–flesh stitching channel; stitch length 5–7.5mm. Very worn, much of stitching channel missing. Surviving length 82.5mm. Thickness rear of outer edge 3.5mm; rear of inner edge 4mm; front of inner edge 4.5mm; middle and front of outer edge 5mm; worn edge at rear of forepart 3mm; worn edges, centre forepart 1.5mm. Rand, stitch length 5–7.5mm, not attached but matches shape of forepart. Forepart matches Upper Cat No 2777/A03–0124c. Conserved. 12th–14th centuries.

A03–0124a, b; L0477; C9132–9; B18 (Phase 2b), North Room, Hall and Hall South–Occupation (10); Phase IVb; Rig VII
Illus 146

2777 Upper Leather (cattle hide)

Fragment of vamp with rounded toe. Lasting margin with grain–flesh stitching channel; stitch length 5–7mm. Edge–flesh stitching channels on vamp wing; stitch length 3–4.5mm. Thong 15–18mm wide threaded through slit in vamp, knotted or anchored by being passed through itself, then threaded through second slit in vamp. Rough repair? Very worn and cracked. Matches Sole (Type 2) Cat No 2775/A03–0124a. Conserved.

A03–0124c; L0477; C9132–9; B18 (Phase 2b), North Room, Hall and Hall South–Occupation (10); Phase IVb; Rig VII
Illus 146

2784 Upper (Type C) Leather (cattle hide)

Very fragile fragment of low boot with side lacing, comprising quarters, leg flap and vamp throat, with vertical row of seven thong holes. Diameter of holes 1.5–2mm, and 14mm, 13mm, 15mm, 13.5mm, 14.5mm, 17.5mm apart (measuring upwards). Edge parallel to holes is oversewn. Lasting margin with grain–flesh stitching channel; stitch length 5.5–6mm. Edge–flesh stitching channels on vertical edge of leg flap and on vamp throat; stitch length 2.5mm. Top edge oversewn. On flesh side of quarters, tunnel stitching marks position of triangular stiffener, which survives separately. Conserved. 14th–15th centuries.

A03–0245e; L1336; C9132–9; B18 (Phase 2b), North Room, Hall and Hall South–Occupation (10); Phase IVb; Rig VII
Illus 135

2801 Upper (Type Di) Leather

Large fragment of low shoe with side lacing, comprising vamp, vamp throat, vamp wing, small leg flap or latchet, and quarters. Left foot. Two matching vertical rows of thong holes, three on vamp wing and five on quarters. Top corner of vamp wing missing. On flesh side, trace of tunnel holes for attachment of facings or strengtheners. Edge adjacent to holes oversewn. Lasting margin with grain–flesh stitching channel; stitch length 5, 6, 8mm. Edge–flesh stitching channels; stitch length 3, 4.5, 5.5, at vamp throat and on lower parts of vamp wing and vertical edge of quarters below tie holes. Top edges of quarters and leg flap oversewn. Crack at vamp throat. Lasting margin

worn, particularly at front of vamp and at quarters. Length of shoe c240mm; thickness 2.5mm. Conserved. 13th–14th centuries.

A03–0078; C9095–9; B18 (Phase 2b), Hall and Hall South–Occupation (12a); Phase IVb; Rig VII
Illus 136

2818 Toggle Leather

Two long thin thongs emerging from double toggle. Constructed from single piece of leather split into two thongs after first 3mm. Parallel with split are two short slits through which the thongs pass, thus forming a thick toggle. Thongs: length 147mm; width 6–9mm; thickness c0.5mm. Toggle: length 15mm; width 6–7mm; thickness 4mm. Four very small holes at loose end of longer thong—for attachment to article to be fastened. Conserved.

A03–0273b; L1364; C6146–10; M9b(a); Phase IVc; Rig VIII
Illus 150

2819 Miscellaneous fragment Leather (cattle hide)

Approximately rectangular, folded once lengthways. One side has a projecting flap folded over second side; clear impression on leather suggests that it was intended to be folded over, not tucked in or otherwise used. Row of short diagonal grain–flesh stitches parallel to cut edges of article, the holes on each side matching exactly; probably stitched. At end of projecting flap is a double row of slits. Other end of article bears second row of slits parallel to and 7.5–9mm from first row. On side without flap is a decorative motif at this end, marked out with a single row of slits, starting and ending at this second row. At other end of this side are two vertical rows of slits in centre. On other side of article at same end as above mentioned slits is a small triangular shape marked out with slits; at base of triangle a slit, 16.5mm long, perforates this side, its other edge also marked with slits. For end of strap? Length, including flap, 223mm; length of flap 24mm; minimum width, excluding flap, 34mm; minimum width of flap 29mm; single thickness 1mm. Case? Conserved.

A03–0273c; L1364; C6146–10; M9b(a); Phase IVc; Rig VIII
Illus 158

2820 Miscellaneous fragment Leather (cattle hide)

Small, consisting of strip folded once. Three rows of short diagonal grain–flesh slits or stitch holes on one side, and one row on the other, which is narrower. In present state, the ends do not meet and rows of stitching at each end do not meet, but possibly did originally. Stitched together or to belt of clothing or other article? Another two rows of holes on first side could be purely decorative. Length, folded, 43.5mm; maximum width (side with three rows) 12mm; minimum width (side with one row) 9mm. Single thickness c0.5mm. Conserved.

A03–0273d; L1364; C6146–10; M9b(a); Phase IVc; Rig VIII
Illus 152

2821 Miscellaneous fragment Leather (cattle hide)

Small, consisting of strip folded once. Diagonal slits parallel to all edges, except on one side of fold. Ends and edges match—could have been stitched together if edges also, then not loop. Decorative stitching? Not oversewn, as edges do not appear pulled. Length, folded, 35mm; maximum width 13.5mm;

thickness, single c0.75mm. Conserved.

A03–0273e; L1364; C6146–10; M9b(a); Phase IVc; Rig VIII
Illus 152

2872 Sole (Type 2) Leather (cattle hide)

Child's left sole with slender seat, only very slightly narrowing for waist; forepart with almost straight inner edge, curved outer edge, rounded toe. Slightly delaminated. Edge–flesh stitching channel; stitch length 6–9mm, mostly 6–7mm. Length 168mm; maximum width of forepart 64mm; width of waist 45mm; maximum width of seat 46mm. Thickness: inner edge of forepart 4.5mm; outer edge of seat 4mm; outer edge of waist 5mm; front outer edge of forepart 3.5mm. Conserved. 12th–13th centuries.

A4894; L0020; C2483–3; MC155; Phase IVb,IVc; Rig V
Illus 124

2875 Strap/belt (single thickness) Leather (cattle hide)

Fragment of single thickness, c83mm by 31mm, delaminated, grain side only remaining, thickness not measured. Irregular stitching of grain–flesh holes or slits along each edge, converging to meet in middle of width at cut end of strap. Also six other holes, one in corner between stitching channel and edges, five between the rows of stitches—three small, one large and cracked around edges, one large and round, the two large ones probably worn by pin or buckle. Conserved.

A9357a; L0001; C2530–3; MC155; Pit 2691; Phase IVb,IVc; Rig V
Not illustrated

2876 Strap (single thickness) Leather (cattle hide)

Two fragments, of single thickness, very delaminated, probably originally one. Stitching channel of grain–flesh slits along each long edge; stitch length c6–8mm. Length 126mm; width 17–22mm. Conserved.

A9357b; L0001; C2530–3; MC155; Pit 2691; Phase IVb,IVc; Rig V
Illus 152

2883 Miscellaneous fragment Leather

Large and irregular c410mm by 280mm by 2mm. Along one hem stitched edge is a row, c190mm long, of seventeen tie holes c2mm by 1mm and 13mm, 11mm, 13.5mm, 11.5mm, 13.5mm, 12mm, 12.5mm, 10mm, 11mm, 11.5mm, 9mm, 10mm, 11.5mm, 9mm apart. Two rows of grain–flesh stitching secure a fold–dart? On flesh side, several small circular impressions, diameter 3–5mm. Clothing? Conserved.

A9361; L0027; C2530–3; MC155; Pit 2691; Phase IVb,IVc; Rig V
Illus 160

2985 Sole (Type 3) with bunion? Leather (cattle hide)

Right, with rounded seat, rear of which has curled up and over, narrow waist, wide forepart ending in oval toe. Bulge on inside of forepart, probably caused by bunion, hole next to the bulge; also hole at rear of seat. Edge–flesh stitching channel; stitch length 4.5–8mm—mainly 6mm, 8mm occurs only twice, on either side of waist, stitching noticeably closer at front of forepart. Length 227.5mm; maximum width of forepart 96mm; width of waist 44mm; maximum width of seat 74mm. Thickness: outer and inner edges of waist, inner edge of forepart 3mm; front of outer edge of seat 3.5mm; inner edge

of seat and rear of outer and curled up outer edge of forepart 4.5mm; worn edge of hole 0.5mm. Conserved. 13th–14th centuries.

A10521; L0008; C2530–3; MC155; Pit 2691; Phase IVb,IVc; Rig V
Illus 145

3033 Sole (Type 3) Leather

Left, with long seat, narrow waist and slender forepart, tapering inwards to an oval toe. Worn, with part of front of forepart missing, a hole in centre forepart, and stitching channel separated from rear of seat. Edge–flesh stitching channel; stitch length 3.5–5.5mm, mostly 4.5–5mm. Surviving length 200mm; maximum width of forepart 75mm; width of waist 31mm; maximum width of seat 57mm. Thickness: outer edge of forepart 2.5mm; inner edge of forepart 3mm; inner edge of waist, inner edge of seat 3.5mm. Conserved. 13th–14th centuries.

A3459; C2476–3; M1.4d; Phase IVb,IVc; Rig VI
Illus 120

3047 Sheath (decorated) Leather

Decorated fragment formed of one thickness of leather folded twice and stitched up middle of reverse in a butted edge to grain seam; stitch length 4mm, 4.5mm, 5mm. Upper part projects. Reverse of upper part has three holes for attachment to belt; three of these holes also penetrate front of sheath. Top edge has been cut and folded inwards but not stitched. Bottom end does not survive. Much of bottom section is missing. Front and reverse engraved with a blunt tool and possibly with a punch, for series of slots. Decoration was engraved before leather was folded. Top part: front of projection decorated with zone of alternating diagonal lines—rather faint. Rear of projection plain. Front and rear of rest of upper part divided into three panels. Panels on reverse and on fold decorated with zones of alternating diagonal lines—neater and tighter than those on projecting part. Panel on front also filled with zones of alternating diagonal lines, but every second line consists of shield or toothed pattern. Panels are bordered and separated by plain bands. At top, above plain band, horizontal band filled with short vertical strokes. At bottom, similar band, but strokes are smaller and, particularly on reverse, these form a shield or toothed pattern. Lower part: front has been decorated with long thin panel, outside edge of which is marked by band containing shallow dots c1.5mm diameter and c4mm apart. Interior of panel has been filled with a curvilinear design. Fold decorated with a band with shallow dots (more rectangular than round, c1.5mm by 1mm and 3.5–4mm apart); the two rows are c7mm apart. Area between them filled with stylised elongated 'S'. Surviving part of reverse, adjacent to edge to grain stitching channel decorated with short diagonal strokes. Surviving length 242mm; maximum width of upper part 63mm; maximum width of lower part 43.5mm thickness 3mm. Shield pattern—imitation of armorial bearings?—13th century; cross-hatching 13th century or later? curvilinear design—meaningless—debased acanthus scroll or debased mythical beasts?—13th century. Conserved. 13th century or later?

A8334; C2476–3; M1.4d; Phase IVb,IVc; Rig VI
Illus 155

3068 Sole (Type 7) Leather and wool

Left, with rounded seat, narrow waist and gently curved forepart with an edge–flesh stitching channel across tread. Very worn, partially delaminated. Edge–flesh stitching channel; stitch length 4–7.5mm. Wool survives in one hole. Surviving length 217mm; maximum width of forepart 95mm; width of waist 46mm; maximum width of seat 52mm. Thickness: inner edge of waist and forepart 4mm; outer edge of waist 3mm; inner edge of seat 5.5mm; outer edge of forepart 4.5mm; seam across tread 2.5mm. Conserved.

A8668c; L0016; C2476–3; M1.4d; Phase IVb,IVc; Rig VI
Not illustrated

3070 Sole Leather

Small fragment with edge–flesh stitching channel; stitch length 6.5mm, 7 mm. Conserved.

Radiocarbon date of 720±35 BP (calibrated at 95 per cent probability to AD 720–1310) obtained.

A8668e; L0016; C2476–3; M1.4d; Phase IVb,IVc; Rig VI
Not illustrated

3072 Upper Leather

Fragment of front of vamp with lasting margin with stitching channel of grain–flesh holes; stitch length 5.5–7.5mm. Rounded toe. Small hole next to lasting margin with short piece of thong passing through it—probably repair. Thickness 2.5mm.

A8668g; L0016; C2476–3; M1.4d; Phase IVb,IVc; Rig VI
Illus 144

3090 Strap/belt (folded once) Leather (cattle hide)

Fragment, folded once and stitched together where edges meet—face to face, not oversewn—with diagonal grain–flesh slits; stitch length c4mm. One end torn or cracked, with trace of central hole. Stitching stops c40mm from other end, where five round and oval holes penetrate both thicknesses—attachment for buckle? End cut or torn but irregular and one thickness extends slightly beyond the other. Length c290mm; width 27–28.5mm; single thickness c3–4mm. Conserved.

A5900a; L1700; C2790–2; M1.4d; Phase IVb,IVc; Rig VI
Illus 148

3108 Upper? Leather (cattle hide)

Fragment, with edge–flesh stitching channel along one short edge; stitch length 5.5mm, 6.5mm, and along long edge edge–flesh and grain–flesh, with grain folded to form flesh; stitch length 4.5–5.5mm. Area above long edge has had long pointed ovals cut out, and edges of three more? Decoration? Open sandal? Ovals not very regular. Thickness 2mm. Conserved.

A8000a; L1729; C2567–3; M1.4d; Pit 2566; Phase IVb,IVc; Rig VI
Not illustrated

3221 Miscellaneous fragment Leather (cattle hide)

Approximately round, diameter c35mm, with central hole, diameter c2mm. Delaminated, two separate layers, c2.5mm and 0.25mm thick. Conserved.

A6228c; L0017; C2462A–3; M1.4c; Phase IIIa–IVcc; Rigs V and VI
Illus 159

3246 Sole (Type 3) Leather

Left, long with slender rounded seat, narrow waist, proportionately wider forepart, almost straight along inner edge, more curved along outer edge, turning inwards slightly, to broad slightly pointed toe. Edge–flesh stitching channel; stitch length 4–5mm. Very worn, with outer part of seat missing, forepart thin, cracked in centre. Stitching channel along outer edge replaced by six, possibly seven, slits (as far as seat and therefore possibly more) and thong, three fragments of which survive. Maximum surviving length 253mm; maximum width of forepart 93mm; width of waist 39mm; maximum surviving width of seat 60mm. Thickness: inner edge of waist and seat, rear of inner edge of forepart 3.5mm; front and middle of inner edge of forepart 3mm; outer edge of waist, worn edge of seat 1mm; front of outer edge of seat 2.25mm; rear–middle of outer edge of forepart 2.5mm; middle–front of outer edge of forepart 2.75–3mm. Thong: width 7.5–8mm; thickness 1mm. Conserved. 13th–14th centuries.

A6195; L1674; C2190A–4; M1.4b; Phase IVb–IVcc; Rigs V and VI
Illus 120

3281 Strap (single thickness) Leather

Irregular strip of single thickness, c200 by 15–17 by 1.5–5mm, delaminated. With traces of cracks or holes? edges cut. Fragment of strap or belt? Conserved.

A03–0227a; L1318; C7233–7; P8.3/256; Phase IVc,IVcc; Rig VII
Not illustrated

3283 Upper (Type Kiii) Leather

Fragment of latchet? with one row of vertical thonging and three rows of horizontal thonging, but not type Biii—central fastening. Oversewn top edge, second edge torn, third and fourth cut. Row of vertical thonging with four tunnel holes and three short stretches of thong surviving on grain side. Three rows of horizontal thonging, with tunnel hole and single hole in each row. Thong survives on grain side between the holes in upper and lower rows and through tunnel hole in middle row. Horizontal rows lie along line of vertical tunnel holes; horizontal thongs could only have been connected to vertical thong on flesh side. Vertical thonging purely decorative? Thickness 1–3mm. Conserved. 13th–14th centuries.

A03–0227d; L1318; C7233–7; P8.3; Phase IVc,IVcc; Rig VII
Illus 144

3304 Strap/belt (single thickness) Leather (cattle hide)

Four delaminated fragments of short belt of single thickness, perforated on each long edge by grain–flesh holes, diameter c3mm and c15–20mm apart. Both ends cut, one stitched with edge–flesh seam, traces of which remain, other end perforated by round holes. Conserved.

A03–0250a; L1341; C7233–7; P8.3; Phase IVc,IVcc; Rig VII
Illus 152

3335 Sole (Type 2) Leather (cattle hide)

Child's left sole with short seat and longer forepart. Cracked at front of seat and at inner and outer edges of front of forepart. Edge–flesh stitching channel; stitch length 6mm, 5mm, 6.5mm. Length 138mm; maximum width of forepart 64mm; width of waist 40mm; maximum width of seat 43mm. Thickness: outer

and inner edges of waist, rear of seat and front of forepart 3.5mm. Conserved. 12th–13th centuries.
A03–0261a; L1352; C7271–7; P8.3 and M9a, PW7267; Phase IVc, IVcc; Rig VII
Illus 124

3364 Upper (Type Di) Leather

Fragment, plus stiffener, of shoe with side lacing. Comprises vamp, vamp wing, vamp throat, latchet and low quarters. Side-piece missing. Parallel to oversewn edge of quarters are six tie holes; on flesh side, tunnel stitching for attachment of strengthener. Upper very worn, front of vamp and part of quarters missing, no lasting margin survives. Irregular oval hole cut in vamp— for decoration? Edge–flesh stitching channels on vamp wing and vamp throat; stitch length 2mm—very neat stitching. Top edge oversewn. Triangular stiffener with lasting margin with grain–flesh stitching channel; stitch length 6mm; and with stitch holes for attachment to quarters; probably belongs to this upper. Conserved. 13th–14th centuries.
A03–0223b; L1314; C7231–7; M9a; Phase IVc, IVcc; Rig VII
Illus 136

3382 Sole (Type 3) Leather

Right, with narrow seat and waist, slender forepart, turned inwards slightly, oval toe. Short cracks at inner edge of centre forepart and at outer edge of waist. Rear of seat missing. Edge–flesh stitching channel; stitch length 6mm, 7mm, 8mm. Surviving length 215.5mm; maximum width of forepart 80mm; width of waist 39.5mm; maximum width of seat 59mm. Thickness: outer edge of waist 2.5mm; outer and inner edges of forepart 3mm; inner edge of seat 4mm; outer edge of seat, inner edge of waist 4.5mm; worn edge of seat 0.75mm. Conserved. 13th–14th centuries.
A03–0249a; L1340; C7238–7; M9a; Phase IVc, IVcc; Rig VII
Illus 120

3385 Upper (Type Dii) Leather (cattle hide)

Approximately rectangular fragment of shoe: side-piece split for side lacing. Lasting margin with grain–flesh stitching channel; stitch length 5.5–8mm. Edge–flesh stitching channels, stitch length 3–4mm, on vertical edge and on part of top edge. Rest of top edge oversewn. Diagonal edge oversewn; parallel to it are four or five tie holes c2mm by 4mm and c10mm apart. Tunnel stitching for facing or strengthener on flesh side. Also, part of second diagonal edge. Maximum height 47mm; thickness 2mm. Conserved. 13th–14th centuries.
A03–0233b; L1324; C7247–7; M9a; Phase IVc, IVcc; Rig VII
Illus 137

3403 Miscellaneous fragment with metalwork

Leather and metal
Irregular strip, length 57 mm, width 5–8 mm, thickness c1 mm; apparently found in association with a cylindrical hollow lace-end into which it is too thick to fit (see Fascicule 2, The metalwork, Non-ferrous Cat 50). Conserved.
A04–0079a, b; L4917; C9001–8; M9a; Phase IVc, IVcc; Rig VII
Not illustrated

3412 Strap (single thickness) Leather (cattle hide)

Fragment of single thickness, 3.5mm thick, with cut on long edges, with stitching channel of grain–flesh slits; stitch length 5–6mm, parallel to each long edge; one short edge cut or cracked, other worn/torn. Strap has evidently worn or cracked along line of stitching channel, towards cut end, for strap narrows and remains of original stitching channel visible along edge, second stitching channel replacing it overlaps slightly end of stitching channel on wider portion. Length 176mm; original/maximum width 24mm; minimum width of narrowest part 16mm. Conserved.
A03–0081a; L0450; C9085–9; M9a; Phase IVc, IVcc; Rig VII
Illus 151

3413 Strap (single thickness) Leather (cattle hide)

Short, delaminated, fragment of strap of single thickness, with edges cut along stitching channel of grain–flesh holes; stitch length 4.5–5mm, parallel to each cut edge. Short edges torn. Length 80mm; width 22mm. Conserved.
A03–0081b; L0450; C9085–9; M9a; Phase IVc, IVcc; Rig VII
Illus 151

3510 Miscellaneous fragment Leather (cattle hide)

Approximately trapezoidal fragment with three long and one very short straight edges, and one slightly curved edge, all oversewn; stitch length c10–12mm. Short edge and curved edge slightly worn, slight delamination. Maximum dimensions: 114mm by 78mm by 2mm. Conserved.
A03–0220; L1311; C6166–10; M9b(b), PW6166; Phase IVc, IVcc; Rig VIII
Illus 159

3511 Clump Leather

Seat, with waist, stitch holes for attachment to sole. Length 86mm; maximum width 70mm; width at waist 45mm. Thickness c1–2mm. Conserved.
A03–0251; L1342; C6131–10; M9b(b), Pit 6127; Phase IVc, IVcc; Rig VIII
Illus 104

3569–3572 Miscellaneous fragments (4) Leather

Four fragments, two joined together, with oversewn edges and with thongs and tunnel holes. Nos 3569/A7688e (triangular) and 3570/A7688f (trapezoidal) joined together by two thongs, one of which is knotted, to form a toggle. No 3571/A7688g small, with traces of two oversewn edges and with thong through tunnel hole. No 3572/A7688h approximately triangular, with one oversewn edge and two edge–flesh stitching channels; stitch length 1–5mm; and single oval thong hole. Clothing? Conserved.
A7688e–h; C2540–3; M1.4e; Phase IVcc(Va)(VI); Rig VI
Illus 159

3594 Sole (Type 5) Leather

Left, fragment with narrow waist, gently curved forepart, pointed toe. Part of seat missing. Edge–flesh stitching channel; stitch length 5.5–7mm. Stitching channel on inner edge of forepart worn very thin, replaced by five thong holes 24mm, 12mm, 27mm, 19mm apart. Surviving length 215mm; maximum width of

forepart 82mm; width of waist 44mm. Thickness: worn edge of forepart 1mm; inner edge of seat 4mm; inner and outer edges of waist 3mm; rear of outer edge of forepart 3.5mm; upturned outer edge of front of forepart 4.5mm. Conserved. 13th–15th centuries.

A6220b; L0022; C2447–3; M1.4e; Phase IVcc(Va); Rig VI
Illus 122

3602 Upper (Type Ki) Leather (cattle hide)

Two joining fragments (originally one) of high shoe or low boot with central fastening, comprising rear of vamp, vamp throat, vamp wing, part of quarters and two latches, one pierced by two long horizontal slits, the other by three horizontal slits and one round hole. Toggle emerges from centre of vamp throat, directly under end of latch, thong of toggle knotted over edge of throat, long pointed tail on flesh side. Lasting margin with grain–flesh stitching channel; stitch length 5–6.5mm. Edge–flesh stitching channels on vamp throat, vamp wing and quarters; stitch length 4mm. Also three other fragments, very worn, probably part of same upper. Conserved.

A4329e; L1697; C2456–3; M1.4e; Phase IVcc(Va); Rig VI
Illus 142

3621 Upper (Type Bii) Leather (cattle hide)

Fragment of boot with tunnel holes for three horizontal rows of thonging. Comprises vamp, vamp wing, vamp throat and quarters. Three tunnel holes for horizontal thongs on closed side of quarter, only middle hole seems to have been used. Lasting margin with grain–flesh stitching channel; stitch length 5.5–7.5mm. Edge–flesh stitching channels on vamp wing, vamp throat and quarters; stitch length 4mm. Very cracked and frail, front of vamp worn, lasting margin missing. Thickness 2mm. Conserved. 12th–13th centuries.

A4914; L0023; C2456–3; M1.4e; Phase IVcc(Va); Rig VI
Illus 131

3670 Upper (Type F) Leather (cattle hide?)

Fragment of shoe comprising vamp, vamp wings, high vamp throat and very low quarters, no latches. Side-piece linking vamp wing and quarters missing. Probably also missing piece of vamp throat, to give continuous oversewn edge. Lasting margin with grain–flesh stitching channel; stitch length 5.5–6.5mm. Edge–flesh stitching channels on vamp wings and vertical edge of quarters; stitch length 2.5mm. Top edge of throat, quarters and vamp wing oversewn. Tunnel stitching for triangular stiffener on flesh side of quarters. Adjacent to vertical edge of quarters, on flesh side, is a faint diagonal row of tunnel stitching and a well-defined vertical row on closed side at junction of vamp/quarters. On flesh side, therefore not decorative—attachment of lining, for quarters only? Worn, especially at front of vamp. Thickness 1.5mm. Conserved. Mid-10th–14th centuries.

A7791; L1744; C2544–3; P6; Phase IVcc,Va; Rig VI
Illus 140

3705 Strap/belt (folded twice) Leather (cattle hide)

Fragment, formed by folding leather twice; edges joined in a butted edge–grain seam; stitch length 5.5–6.5mm. Belt pierced by grain–flesh holes parallel with folded edges and by oval holes or slits up centre. Length c135mm; width, folded,

c3.5mm; single thickness 3.5mm. Conserved.

A03–0172a; L1263; C7187–7; B34, Floor; Phase Va; Rig VI
Illus 150

3717 Sheath Leather (cattle hide)

Small fragment of decorated sheath? with cut edge, with curve of fold remaining, other edges torn. Decorated with irregular lines, mostly diagonal, also part of two vertical lines forming rough lattice; near bottom edge are two parallel horizontal lines—frame of panel? Surviving length c55mm; thickness 2mm. Conserved.

A03–0160a; L0693; C7191–7; B34–Courtyard; Phase Va; Rig VI
Illus 155

3859 Sole (Type 8) Leather

Fairly long seat, sewn across waist, edge–flesh stitching channel; stitch length 5.5mm, 7mm (waist), 4.5mm, 6mm (perimeter), plus 7.5mm, 9mm, 10mm, 10.5mm; duplicate holes on sides and rear on grain, not edge—probably repair. Length 81.5mm; maximum width 63.5mm; width at waist 41mm. Thickness: sides and waist 3.5mm; upturned edge at rear of seat 2.5mm. Probably matches Sole (Type 9) Cat No 3860/A03–0048b. Conserved.

A03–0048a; L0427; C7079–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 123

3860 Sole (Type 9) Leather

Right forepart, wide almost straight inner edge, curved outer edge, oval toe. Narrow waist with edge–flesh stitching channel. Very worn and delaminated, especially along inner edge. Edge–flesh stitching channel; stitch length 4.5mm; at waist 6.5mm, 6mm, 7mm. Maximum width 78mm; width of waist 39mm. Thickness: outer edge 4mm. Probably matches Sole (Type 8) Cat No 3859/A03–0048a. Conserved.

A03–0048b; L0427; C7079–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 123

3863 Sole (Type 4) Leather

Left, with long slender seat, narrow waist and wide gently curved forepart with pointed toe. Seat worn, with crack, hole in centre, and with part of stitching channel detached. Delaminated, stitch holes indicate seat repaired with clump sole. Edge–flesh stitching channel; stitch length 5.5–8.5mm. Length 238.5mm; maximum width of forepart 85mm; width of waist 37.5mm; maximum width of seat 56mm. Thickness: front of forepart 3mm; rear outer edge of forepart 3.5mm; outer edge of waist, middle of outer edge of forepart, front of inner edge of forepart 4mm; inner edge of waist 4.5mm. Conserved. 13th–14th centuries.

A03–0067a; L1096; C7079–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 121

3865 Clump Leather and wool

Right forepart clump with pointed toe and with tunnel holes for attachment to original sole. Delaminated. Wool remains

in some holes. Length 101.5mm; maximum width 73mm.

Thickness 2mm. Conserved.

A03–0068; L1094; C7079–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 104

3866 Upper (Type Ki) Leather (cattle hide)

Latchet? of upper with central fastening? Oblong, fragment, two edge–flesh stitching channels; stitch length 2–2.5mm; two edges with tunnel stitching on flesh side, fifth edge cut; thin strip with edge–flesh stitching channel–vamp throat? Shorter edge with tunnel stitching perforated by one T-shaped slit and by two tunnel holes with thongs of toggles passed through them. Conserved. 13th–14th centuries.

A03–0069a; L1098; C7079–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 142

3869 Knife sheath Leather (cattle hide)

Decorated, formed of one piece of leather, probably folded twice, with edges sewn together with butted grain to edge seam. One folded edge and one edge with grain to edge holes survive. Top edge cut. Decoration: front plain band near top, beneath it horizontal band with six spirals within; plain band; horizontal band with one whole rectangle and two halves of rectangles. Whole rectangle contains shield, which has been sub-divided into four rows: top row, four shields; second row, three shields; third row, two shields; fourth row, one shield; background between shield and rectangle filled with very neatly stamped chequered pattern; one of the half rectangle appears to contain the same design, the other has a small shield in top left corner containing two, possibly three, debased *fleurs-de-lys*, and beneath shield larger *fleur-de-lys*. Same pattern of rectangles and shields repeated in next row, followed by plain band, then horizontal band with six spirals. Lower part of sheath divided vertically, larger part of front filled with 4½ lozenges, formed by two parallel pairs of zigzag lines. Lozenges appear to be filled with a *fleur-de-lys* just recognisable in top lozenges, less distinct in others, because of cracks. *Fleurs-de-lys* probably stamped. Triangular spaces between zigzags and side of panel filled with neat stamped chequered pattern. Outer edge of lower part of shield decorated with shields and spirals. Decoration: reverse; undecorated except for very fine and regular vertical lines. Near top, two holes one above the other, for attachment to belt or other article. Length 183.5mm; maximum width 38mm; single thickness 2mm. Shield pattern and *fleurs-de-lys* copying of armorial bearings?; spirals debased acanthus scroll? Conserved. 13th century.

A03–0070; L1089; C7079–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 156 (appears as no 3984 – illus needs to be altered)

3870 Upper (Type Kii) Leather

Latchet? of upper with central fastening? One cut edge, one with edge–flesh stitching channel, two oversewn. Three parallel slits or cracks. Length c62.4mm; width 65mm; thickness 2mm. Conserved.

A03–0098a; L1756; C7079–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 142

3875 Knife sheath Leather (cattle hide)

Small, formed of thin strip of leather folded twice, edges meeting on reverse, not centrally, by butted edge to grain seam; stitch length c5mm. Decorated with vertical zones of zigzag, two on front, one on reverse, engraved with a blunt tool. Bottom marked with four roughly parallel horizontal lines c3mm apart. Top edge cut. Part of one folded edge missing. Length (probably complete) 108.5mm; width, folded, 22mm; thickness, single, 1.5mm. Conserved 12th–13th centuries.

cf Dyer and Wenham 1972, 96–8, no 1, rear decorated with similar zigzag lines, 12th–13th centuries (pottery); Richardson 1959, 103, engraved lines round point imitating metal reinforcing bands?

A03–0118; L0471; C7082–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 155

3876 Strap/belt (single thickness) Leather (cattle hide)

Fragment of single thickness, 300mm long, 29mm wide, 4.5mm thick, with row of short diagonal slits parallel to each long edge but probably not stitched; decorative. Pierced by two approximately oval holes 4mm by 6mm and 2.5mm by 4mm. Cut at each end to form a point. Conserved.

A03–0120a; L0473; C7082–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 151

3877 Sole (Type 2) Leather

Right, complete, with long fairly narrow seat, only slightly thinner at waist, and long broad forepart, gently curved, with oval toe. Edge–flesh stitching channel; stitch length 6–8.5mm, except for one of 4mm. Worn, especially at rear of seat, and crack across front of seat. Maximum length 253mm; maximum width of forepart 90mm; width of waist 52mm; maximum width of seat 64mm. Thickness: inner edge of waist and seat, rear of inner edge of forepart 4.5mm; middle of inner edge of forepart, rear of outer edge of forepart 3.5mm; outer edge of seat and waist, front of outer edge of forepart 4mm. Conserved. 12th–14th centuries.

A03–0120b; L0473; C7082–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 118

3878 Sole (Type 9) Leather

Pointed left forepart, very worn and delaminated, faint traces of stitching across waist, long and narrow with very narrow waist; similar to Sole (Type 4) foreparts. Worn, particularly along inner edge. Edge–flesh stitching channel; stitch length 4.5–6mm. Maximum length 157mm; maximum width 63mm; width of waist 29mm. Thickness: inner edge c 0.75mm; rear of outer edge, front of outer edge 3.5mm; middle of outer edge 4.5mm; waist 2.5mm. Conserved.

A03–0120c; L0473; C7082–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 121

3888 Miscellaneous fragment Leather

Irregular, very worn, with three approximately parallel stitching channels of grain–flesh holes; holes, 2.5mm apart, are in pairs and pairs are 4.5mm apart. Fragment of clothing? Conserved. A03–0125c; L0478; C7082–7; M1.5b; Phase Vaa; Rigs VI and VII
Illus 160

3927 Miscellaneous fragment Leather and wool

Triangular, with two edge–flesh stitching channels forming a point; stitch length 4.5–6mm. Wool survives in stitch holes. Third edge cut; tunnel stitch holes across this edge. Length 62mm, width 41mm. Thickness: edge–flesh stitching channels 4–4.5mm; cut edge 2.5mm. Repaired front of forepart of sole? Conserved.

A03–0136c; L0489; C7169–7; M1.5b; Phase Vaa; Rigs VI and VII

Illus 159

3928 Miscellaneous fragment Leather and wool

Triangular, with two edge–flesh stitching channels forming a point; stitch length 4.5–6mm. Wool survives in stitch holes. Third edge cut; tunnel stitch holes across this edge. Length 71mm, width 57mm. Thickness: edge–flesh stitching channels 4–4.5mm; cut edges 2.5mm. Repaired front of forepart of soles? Conserved.

A03–0136d; L0489; C7169–7; M1.5b; Phase Vaa; Rigs VI and VII

Illus 159

3929 Miscellaneous fragment Leather and wool

Triangular, with two edge–flesh stitching channels forming a point; stitch length 4.5–6mm. Wool survives in stitch holes. Third edge cut; round hole and trace of tunnel stitch holes on flesh side. Length 70.5mm, width 41mm; thickness: edge–flesh stitching channels 4–4.5mm; cut edges 2.5mm. Repaired front of forepart of sole? Conserved.

A03–0136c–e; L0489; C7169–7; M1.5b; Phase Vaa; Rigs VI and VII

Illus 159

3961–3964 Miscellaneous fragments (4)

Leather (cattle hide)

Four, with edge–flesh stitching channels, possibly clothing. No 3961/A03–0142b approximately oblong, with two long edge–flesh stitching channels; stitch length 3–4.5mm; both edges indented at one end–armhole? Edge between indentations irregular but with trace of grain–flesh stitching channel. In centre of fragment, grain–flesh stitch holes suggest a dart. Fourth edge irregular, partly oversewn, partly edge–flesh stitching channel. Thickness: edge–flesh stitching channel 2mm; worn edge 0.75mm. Conserved.

No 3962/A03–0142c long thin triangular fragment with two long edge–flesh stitching channels; stitch length 3–4.5mm; third edge possibly oversewn, might join one of long edges of No 3961. Thickness: edge–flesh stitching channel 2mm; oversewn edge 1mm. Conserved.

No 3963/A03–0142d approximately trapezoidal fragment with three edge–flesh stitching channels; stitch length 3.5–6mm. Fourth edge torn. Part of No 3961? Thickness: edge–flesh stitching channel 2mm; worn edge c 0.5mm. Conserved.

No 3964 triangular fragment, with one edge–flesh stitching channel; stitch length 3.5–4.5mm, one oversewn edge and third edge worn. Part of b)? Thickness: edge–flesh stitching channel 1.75mm, worn edge c 0.5mm. Conserved.

A03–0142b–e; L0494; C7169–7; M1.5b; Phase Vaa; Rigs VI and VII

Illus 163

3985 Sole (Type 5) Leather

Right, fragment with rounded seat, narrow waist, fairly narrow forepart. Worn, front missing but probably pointed. Edge–flesh stitching channel; stitch length 5–7mm. Surviving length 240mm; maximum width of forepart 82mm; width of waist 34mm; maximum width of seat 64mm. Thickness: outer edge of waist, rear of outer edge of forepart, inner edge of waist 3mm; front of outer edge of forepart 2.5mm; rear of inner edge of forepart, outer edge of seat, rear of seat 4mm; worn edges of forepart c1mm. Conserved. 13th–15th centuries.

A03–0170b; L1261; C7169–7; M1.5b; Phase Vaa; Rigs VI and VII

Illus 122

3988 Upper (Type Kii) Leather (cattle hide)

Very worn irregular fragment with central fastening, vamp, vamp throat, quarters and latchet, which is pierced by three slits c19mm by 2mm. Lasting margin with grain–flesh stitching channel; stitch length 4mm. Two edge–flesh stitching channels; stitch length 2.5mm on quarters. Top edges of latchet, quarters and throat oversewn. Small oval hole for thong at vamp throat. Thickness 1mm. Conserved. 13th–15th centuries.

A03–0170e; L1261; C7169–7; M1.5b; Phase Vaa; Rigs VI and VII

Illus 142

3989 Upper (Type Kiii) Leather (cattle hide)

Fragment with central fastening, most probably part of quarters and leg flap, with three horizontal thongs, each threaded through a single hole and tunnel hole; two thongs end in loops, third broken. Short grain–flesh stitching channel at throat. Vertical edge of latchet cut. Top edge oversewn. Thickness 1.5–2mm. Conserved. 13th–15th centuries.

A03–0170f; L1261; C7169–7; M1.5b; Phase Vaa; Rigs VI and VII

Illus 142

4030 and 4031 Upper (Type Ki) Leather (cattle hide)

Two fragments with central fastening. No 4030, larger fragment comprises vamp throat and latchet; No 4031 is second latchet. On latchet of No 4030, parallel to oversewn vertical edge, are two horizontal slits, ending in eyelets. Single hole at middle of vamp throat, with toggle threaded through it; edge of thong cut or torn on grain side. On latchet of No 4031, parallel to oversewn vertical edge, is a long horizontal slit ending in eyelet; above it, tunnel hole and single hole, with thong end of toggle threaded through it. Top edges of both latchets oversewn. Edge–flesh stitching channels at vamp throat of No 4030 and on second vertical edge of No 4031; stitch length 4mm. Conserved. 13th–14th centuries.

A03–0156c,d; L1894; C7185–7; P8.4; Phase Va; Rig VII

Illus 142

4048 Upper Leather

Small fragment, approximately trapezoidal, almost triangular, with two opposite and converging edges oversewn, one edge cut, one worn. Part latchet? Thickness 1.5mm. Conserved.

A03–0159h; L0168; C7185–7; P8.4; Phase Va; Rig VII

Illus 143

4123 Sole (Type 3) and rand Leather and wool

Right, with rounded seat, narrow waist, long forepart with straight inner edge and bulging outer edge, turned inwards, oval toe. Edge–flesh stitching channel; stitch length 4–8mm. Worn, with cracks in centre of seat and forepart. Wool survives in a few stitch holes. Maximum length 239mm; maximum width of forepart 86mm; width of waist 38mm; maximum width of seat 65.5mm. Thickness: outer edge of waist, inner and outer edges of seat 2.5mm; rear outer edge of forepart, middle of inner edge of forepart 4mm; inner edge of waist, front of outer and inner edges of forepart 3.5mm; middle of outer edge of forepart, rear of inner edge of forepart, rear of seat 5mm. Matching Upper Cat No 4131/A03–0214i. Also fragment of rand still attached to rear of seat. Conserved. 13th–14th centuries.

A03–0214a; L1305; C7208–7; P8.4; Phase Va; Rig VII
Illus 120

4124 Sole (Type 4) Leather

Left, with long narrow seat, slender waist, gently curved forepart, almost symmetrical; pointed toe. Worn, with part of seat missing and with two cracks in centre of forepart. A few tunnel stitches on underside suggest forepart repaired with clump sole. Edge–flesh stitching channel; stitch length 6–9mm. Surviving length 240.5mm; maximum width of forepart 80mm; width of waist 38mm; maximum width of seat 53mm. Thickness: inner edge of waist and seat, rear of inner edge of forepart 4mm; middle of inner edge of forepart 3.5mm; front of inner edge of forepart, outer edge of seat and waist, rear of outer edge of forepart 3mm; rear of outer edges of seat 2mm. Conserved. 13th–14th centuries.

A03–0214b; L1305; C7208–7; P8.4; Va; Rig VII
Illus 121

4131 Upper Leather (cattle hide)

Fragment of vamp, with lasting margin, stitch length 5–6 mm. Matches Sole (Type 3) Cat No 4123/A03–0214a. Conserved. Sole: 13th–14th centuries.

A03–0214i; L1305; C7208–7; P8.4; Phase Va; Rig VII
Not illustrated

4151 Miscellaneous fragment with metalwork

Leather and Cu alloy

Three pieces, two joining hollow copper alloy strap, possibly with leather passing through it and with piece of leather attached to corrosion on one fragment: strapend or chape (see Fascicule 2, The metalwork, Non-ferrous Cat No 51). Conserved.

A04–0088; L3968; C9010–9; P8.4; Phase Va; Rig VII
Not illustrated

4153 Upper (Type Kii) with bunion? Leather (cattle hide)

Large fragment with central fastening, comprising vamp, vamp throat, vamp wing, quarters and latchet or leg flap with four long horizontal slits, probably left foot. Lasting margin with grain–flesh stitching channel; stitch length 6–9mm. Edge–flesh stitching channels at vamp throat, vamp wing and vertical edge of quarters; stitch length 3.5–4.5mm. Top edge of quarters and vertical edge of leg flap and part of vertical edge of vamp wing oversewn. No traces of tunnel stitching for any facing.

Long crack down vamp; torn not cut, accordingly accidental, not deliberate. Front of vamp fairly pointed. Considerable wear towards front of vamp, but behind toe, suggests that either the shoe was too narrow or that the wearer had a bunion. It is also possible that the shoe was too long, with the toe extending beyond foot. Probable length of boot c220mm. Very worn and fragile. Conserved.

A03–0198b; L1289; C7215–7; P8.4; Pit 7216; Phase Va;
Rig VII
Illus 142

4248 Sole (Type 3) Leather

Right, with long narrow seat, waist and wide rounded forepart with oval toe. Very worn, thin and cracked, several short cuts in seat—possibly remains of stitching for clump sole. Edge–flesh stitching channel; stitch length 4mm. Length 259.5mm; maximum width of forepart 92.5mm; width of waist 36.5mm; maximum width of seat 64mm. Thickness: outer edge of waist, rear of outer edge of forepart 1mm; inner edge of waist, outer, inner and rear edges of seat 2mm; outer edge of front of forepart 3mm; middle of outer and inner edges of forepart 3.5mm. Conserved. 13th–14th centuries.

A4943c; L0015; C2746–2; B1(b), Demolition; Phase Va; Rig V
Illus 119

4250–4252 Miscellaneous fragments with metalwork (3)

Leather and Cu alloy

Three fragments: one offcut and one scrap from shoe? Traces of stitching, no apparent connection with metal. Third fragment found inside one bent piece of three pieces of bronze/copper, but possibly not associated (see Fascicule 2, The metalwork, Non-ferrous Cat 187). Conserved.

A4491a–c; L3591; C2748–2; B1(b), Demolition; Phase Va; Rig V
Not illustrated

4256 Miscellaneous fragment Leather (cattle hide)

Fragment with two cut and two oversewn edges, c0.5mm thick. Conserved.

A4909; L1648; C2775–2; B1(b), Demolition, Tumble; Phase Va;
Rig V
Illus 159

4287 Upper Leather

Two torn fragments (adjoining, originally one) of vamp decorated with three ribs/four grooves from throat to toe. Very worn and torn and partially delaminated. Lasting margin with stitching channel of grain–flesh holes; stitch length 3–4.5mm. Edge–flesh stitching channel at vamp throat and wing; stitch length 3–3.5mm. A third fragment is torn part of upper with lasting margin; stitch length 4–5mm; and two edge–flesh stitching channels. Thickness c1mm. Conserved.

A6398; L1665; C3534–1; M5a, Pit 3540; Phase IVb–Vc; Rigs V and VI
Illus 144

4307 Upper (Type E) Leather

Fragment of low shoe, comprising vamp, part of vamp throat and quarters with stitch holes for tall triangular stiffener. Lasting margin with grain–flesh stitching channel; stitch length 4.5–8mm. Edge–flesh stitching channels on vamp throat and

vertical edge of quarters; stitch length: quarters 3–3.5mm, throat 4.5–5mm. Top edge oversewn. Very worn and cracked. Conserved. 12th century.

A1223b; L0031; C2404–3; M1.5a; Phase Va,Vb(VI); Rigs V and VI
Illus 138

4493 Sole (Type 2) Leather (cattle hide)

Child's right sole, complete but worn, with holes in rear of seat and in centre forepart. Rounded toe. Edge–flesh stitching channel; stitch length 5mm, 6mm, 7mm, 6.5mm, 7.5mm. Length 127mm; maximum width of forepart 51mm; width of waist 33.5mm; maximum width of seat 44.5mm. Thickness: worn edge of holes 0.5mm; seam edge 3.5mm. Conserved. 12th–14th centuries.

A4289a; L0036; C2404–3; M1.5a; Phase Va,Vb(VI); Rigs V and VI
Illus 124

4495 Toggle Leather

Thong, c110mm long, thick end of which has been rolled and threaded through itself to form a toggle. Conserved.

A4289c; L0036; C2404–3; M1.5a; Phase Va,Vb(VI); Rigs V and VI
Illus 150

4530 Sole (Type 4) Leather

Right, with pointed toe. Worn across forepart, with hole in great toe area, large hole in centre forepart and crack from large hole to outer edge of forepart; also worn at rear of seat, with stitching channel missing and small crack through centre of seat. Edge–flesh stitching channel; stitch length 4.5–8mm, mostly 6–7mm, fairly regular but slightly long and coarse. Maximum surviving length 226mm; maximum width of forepart 80.5mm; width of waist 43mm; maximum width of seat 58mm. Thickness: outer edge of seat, outer edge of forepart 5mm; outer edge of waist 3mm; outer and inner edges of forepart, turned up, inner edge of waist 4mm; inner edge of forepart, by hole and inner edge of seat 3.5mm. Conserved. 13th–14th centuries.

A6245a; C2404–3; M1.5a; Phase Va,Vb(VI); Rigs V and VI
Illus 121

4533 Sole (Type 3) Leather

Part of right sole, front of forepart and rear of seat missing, with two triangles cut out of centre forepart and one triangle cut out of seat. Remains of edge–flesh stitching channel; stitch length 5–6mm; most of stitching channel on the outer edge appears to have been cut away. The triangles have been well cut from underneath with a very sharp knife, probably by a cobbler or shoemaker; the triangles on the forepart were overcut in three places, that on the seat twice. The triangles would have been very thin, as they were cut from the weakest and most worn part of the shoe, the centre forepart. The purpose of these cut-outs is not clear. In its present condition, with front of forepart and rear of seat missing, the sole almost resembles a simple face mask, but this is probably purely coincidental. Maximum surviving length 180mm; maximum width of forepart 79mm; width of waist 38mm; maximum surviving width of seat 58mm. Thickness, delaminated,

c3.5mm. Conserved. 13th–14th centuries.

A6400; C2404–3; M1.5a; Phase Va,Vb(VI); Rigs V and VI
Illus 120

4815 Sole (Type 2) Leather

Right, with broad straight seat, narrower waist and wide forepart with rounded toe. Very worn, part of rear of seat missing and with cracks at waist and centre forepart. Edge–flesh stitching channel; stitch length 4–9mm, mainly 5–7.5mm. Surviving length 206mm; maximum width of forepart 86mm; width of waist 50mm; maximum width of seat 64mm. Thickness: outer edge of waist and forepart 3mm; inner edge of forepart 4mm; inner edge of waist 5mm. Conserved. 12th–14th centuries.

A6237a; L0024; C2405–3; M1.5a; Phase Va,Vb; Rigs V and VI
Illus 118

4844 Upper Leather

Very thin and worn triangular fragment with two oversewn edges and one edge–flesh stitching channel; stitch length 2.5mm.

At narrow end of triangle, eyelet, edges of which have been oversewn. Thickness c1mm. Latchet with fastening? Conserved.

A03–0175q; L2491; C7140–7; M8a; Phase Va,Vaa; Rig VII
Illus 143

4887 Sole (Type 3) Leather

Right, with rounded seat, narrow waist and forepart, turned inwards, ending in oval toe. Edge–flesh stitching channel; stitch length 4.5–7mm. Centre forepart very worn, with large hole. Length 257mm; maximum width of forepart 88mm; width of waist 38mm; maximum width of seat 66.5mm. Thickness: outer edge of waist, centre of inner edge 2.5mm; inner edge of waist 3mm; rear of outer edge of forepart 2mm; centre of outer edge of forepart and front and rear of inner edge of forepart 3.5mm; front of outer edge of forepart 4mm. Conserved. 12th–13th centuries.

A03–0128b; L1309; C7168–7; M8a; Phase Va,Vaa; Rig VII
Illus 119

4979 Toggle Leather

Formed by rolling up wider end of thong and threading it through itself. Length of thong, excluding toggle, 100mm; width of thong, excluding toggle, 1.5–5mm; thickness of thong, excluding toggle 1mm. Length of toggle 52mm; width of toggle 10mm; thickness of toggle 5mm. Conserved.

A03–0174s; L1265; C7201–7; M8a; Phase Va,Vaa; Rig VII
Illus 150

4980 Miscellaneous fragment Leather (cattle hide)

Worn and partially delaminated, with three loosely oversewn edges. Thickness c0.75mm. Conserved.

A03–0174t; L1265; C7201–7; M8a; Phase Va,Vaa; Rig VII
Illus 159

5019 Offcut Leather (cattle hide)

Thin strip with cut edges and vertical row of four oval holes, with fifth, larger, hole at top. Edges folded over towards narrower end. Conserved.

A03–0209; L1301; C7204–7; M8a; Phase Va,Vaa; Rig VII
Illus 159

5032 Upper, rand with metalwork (nails?) Leather and Fe

Fragment from quarters of shoe or boot, with rand, lasting margin of quarters and lasting margin of stiffener? all held together by nails? Conserved.

A03-0212m; C7205-7; M8a; Phase Va,Vaa; Rig VII

Not illustrated

5101 Upper? with fastening Leather (cattle hide)

Fragment with hem stitching at each edge at wider end, becoming tunnel stitching as the two rows converge, surrounding slit in narrower end. Probably latchet. Slit is big enough to go over a toggle. Hem stitching was probably for attachment to upper. Conserved.

A03-0046; L1091; C9012-9; M8a; Phase Va,Vaa; Rig VII

Illus 144

5220 Sheath (decorated)? Leather (cattle hide)

Fragment of leather, probably part of decorated sheath, folded once, edges meeting and stitched together with edge–flesh stitching channel; stitch length 5mm. Decorated with engraved lines made with a blunt tool. Decoration on one side of front consists of rectangles, vertical strokes alternating with plain rectangles– in column adjacent to edge, three panels with vertical strokes, two plain; in next, three plain and two with horizontal strokes. Rest of this side and part of reverse-fold decorated with a star pattern, formed by two interlocking pointed ovals; areas to side of stars filled in with horizontal strokes. Decorated before folded. Rest of reverse undecorated, but pierced by three pairs of oval holes c5mm by 2mm, c15–16mm between pairs; holes of lower two pairs c11mm apart, those of top pair c18mm apart. Leather between the holes is split. Whole fragment is very worn, torn, cracked and delaminated and both top and bottom edges are worn, not cut or finished. Surviving length 71mm; width, unfolded 80mm; width, folded 40mm. Rectangles with hatching–imitation of armorial bearings? Star pattern–also part of armorial bearings? 13th century?

A03-0130; L0483; C7172-7; M8a, T7193; Phase Va,Vaa;

Rig VII

Illus 156

5221 Sole (Type 7) Leather

Long, left, with slender seat and waist, and wide gently curved forepart, turned inwards, with edge–flesh stitching channel across front; stitch length 5mm, 9mm. Stitch holes indicate both seat and forepart repaired with clump soles. Worn, with hole in outer part of seat and with outer edge of forepart partially worn away. Length 254mm; maximum width of forepart 88mm; width of waist 41mm; maximum surviving width of seat 59.5mm; width of front of forepart 54mm. Thickness: inner edge of waist and rear of inner edge of forepart 4.5mm; inner edge of seat 5mm; outer edge of waist, front of outer edge of seat and front of outer edge of forepart 3.5mm; rear of outer edge of forepart 3mm; front of inner edge of forepart 4mm; middle/rear of outer edge of seat 1.5mm; front of forepart, worn middle of outer edge of forepart and worn edges of hole in seat 0.75mm. Conserved.

A03-0138a; L0490; C7172-7; M8a, T7193; Phase Va,Vaa;

Rig VII

Illus 123

5240 Sole (Type 4) Leather

Right, with long narrow seat, waist and slender forepart, gently curved with pointed toe. Very worn, with holes in seat and forepart. Slits indicate position of tunnel holes used in attachment of clump sole to seat, waist and rear of forepart. Edge–flesh stitching channel; stitch length 6–8mm. Length 273.5mm; maximum width of forepart 85mm; width of waist 48mm; maximum width of seat 69mm. Thickness: inner and outer edges of waist 1mm; outer edge of forepart, inner edge of forepart, outer edge of seat 3mm; inner edge of seat 2.5mm. Conserved. 13th–14th centuries.

A03-0090; L0457; C7141-7; B53 (Phase 1), Central Area–Occupation (3c); Phase Vb; Rig VII

Illus 121

5241 Sole (Type 2)? upper and rand

Leather upper (cattle hide) and wool

Left sole and upper in three fragments, still joined together, with wool surviving. Sole is complete, with wide seat, slight narrowing for waist and wide forepart, oval toe. Edge–flesh stitching channel; stitch length c5–7.5mm. Length 262.5mm; maximum width of forepart 100mm; width of waist 61.5mm; maximum width of seat 75.5mm. Thickness: outer edge of waist, rear of outer edge of forepart 3mm; front and middle of outer edge of forepart and rear of seat 6mm. Rand between sole and upper almost complete. Extends beyond sole for c9mm at inside waist and at front of forepart. At front of forepart, two fragments of rand, forming double thickness protecting front of vamp. Grain–flesh holes, round and oval, stitch length as edge–flesh stitching channel. Upper in three parts, quarters, from outside waist towards front of inside edge of seat; quarters have been cut away just above lasting margin for reuse. Second fragment, side-piece, bridges gap on inside edge between quarter and vamp wing; again cut away above lasting margin. Vamp, with vamp wing on each side, from inside waist to outside waist. Vamp has also been cut away above lasting margin, except for front, where more survives. All three fragments have lasting margin with stitching channel of grain–flesh holes; stitch length 5–6mm, 6.5mm, 8mm. Edge–flesh stitching channels on vertical edges; stitch length 2mm. Wool survives in sole–rand–upper seam but not edge–flesh seams of upper. Vamp is torn at lasting margin on inside edge, stitch holes indicate repair. Conserved. 12th–14th centuries?

A03-0216; L1307; C7129-7; B53 (Phase 1), Central Area–T7152; Phase Vb; Rig VII

Illus 146

5299 Sole (Type 9) Leather

Left forepart sewn across rear of waist; very narrow waist, wide forepart narrowing to a slightly out-turned point. Worn, particularly in centre and part of stitching channel on inner edge missing. Edge–flesh stitching channel; stitch length 5mm, 6.5mm, mainly 5.5–6mm. Length 149mm; maximum width 73mm; width of waist 32mm. Thickness: inner edge of waist, front of outer edge of forepart 3mm; inner edge of forepart, rear of outer edge of forepart 2.5mm; middle of outer edge of forepart 1.5mm. Conserved.

A6247; L1711; C2750-4; M4a; Phase Va–Vc; Rigs V and VI

Illus 123

5395 Sheath (decorated) Leather (cattle hide)

Four fragments, decorated, comprising front and back grain layers and front and back flesh layers. Sheath made with one piece of leather, folded once and joined where edges meet with grain to edge stitching; stitch length 6.5mm. Sheath is not complete; top edge may survive on one fragment; at its other end, stitching channel curves inwards slightly—bottom of sheath? Both front and back of sheath decorated with lozenges or rhomboids containing a bird, probably a hawk, on a perch. Pattern stamped, probably with an old stamp. Fold decorated with bands of three diagonal lines, engraved with a blunt tool on wet leather. Diagonal lines are on either side of fold, forming a chevron, suggesting that sheath was decorated before leather was folded. Edge of folded area marked on both sides by wide engraved line. Maximum surviving length 130mm; maximum surviving width 55mm; thickness: delaminated. Conserved. 14th–15th centuries ?

cf sheath from York with stamped eagles, with 14th to 15th century parallels from London and from Lund in Sweden (Richardson 1959, 103–4, Fig 29, 4).

A3192; C2159–4; P1a; Phase Vd; Rig VI

Illus 156

5555 Sole (Type 9) Leather

Pointed left forepart with narrow waist and wide tread, sewn across waist. Edge–flesh stitching channel; stitch length 4.5–7mm. Worn in centre where slightly cracked. Length 126.5mm; maximum width 72mm; width of waist 31mm. Thickness: middle and rear of outer edge of forepart 4mm; front of outer edge of forepart, front of inner edge of forepart and waist 3.5mm; rear of inner edge of forepart 4.5mm; middle of inner edge of forepart 3mm. Conserved.

A6242a; C2153–4; M3c; Phase Vd; Rig V

Illus 123

5599 Sole (Type 7) Leather

Right, with edge–flesh stitching channels across middle of seat and across front of forepart; stitch lengths 5–6.5mm. Edge–flesh stitching channel round rest of sole; stitch length 5–9mm; coarse. Worn, with hole in centre of forepart; delaminated sole. Scratch marks at waist, could be animal growth marks, or else could have been deliberately made with a blunt tool; very unlikely to be a trademark. Length 185mm; maximum width of forepart 80mm; width of seam across forepart 57mm; width of waist 38mm; width of seam across seat 54mm. Conserved.

A4352a; C2171–4; M3c; Phase Vd; Rig V

Illus 123

5606 Upper (Type J) Leather (cattle hide)

Large fragment of high boot, comprising quarters and leg, separate from vamp. Lasting margin with grain–flesh holes; stitch length 4–5mm. Edge–flesh stitching channels; stitch length 2.5–4mm. Top edge oversewn. Also, stitch holes for small triangular stiffener. Worn. Maximum height of leg c230mm; thickness 1–2mm. Conserved.

A03–0254; L1345; C6012–10; MC174, Pit 7013; Phase (Va–)Vd (Vdd); Rig VIII

Illus 143

5608 Sole (Type 4) Leather

Child's right sole, with long seat and slender waist and forepart, with pointed toe; worn, especially at front of forepart and rear of seat. Edge–flesh stitching channel; stitch length 5.5mm, 6.5mm, 7mm; at outer edge of seat, close concentration of holes (repair). Length 165mm; maximum width of forepart 55mm; width of waist 28mm; maximum width of seat 41mm. Thickness: outer edge of waist and forepart 3.5mm; inner edge of waist 4mm; inner edge of forepart 4.5mm; rear of inner edge of seat 2.5mm; front of forepart 1.5mm; rear of seat 2mm. Conserved. 13th–14th centuries.

A03–0065; L1095; C7013–10; MC174, Pit 7013; Phase (Va–)Vd (Vdd); Rig VIII

Illus 124

5637 Strap (folded once) Leather (cattle hide)

Fragment of belt or strap, approximately 270mm long, 17–40 mm wide, with pointed oval hole, 45mm by 16mm at wide end and at narrow end ten small holes, diameter c2–3 mm in two clusters (for attachment of buckle or other fastening?). Formed of two separate pieces of leather, placed together with grain on either side. One fragment is folded once, thus forming a double thickness. Both fragments stitched together along edges and around large oval hole, except that there is no stitching at end with small holes, where edges cut, original edge or not? Thickness of each layer 2–2.5 mm; overall thickness 6mm. Conserved.

A1241; L1663; C2137–4; M3e, Pit 2111; Phase Vdd; Rig VI

Illus 152

5638 Upper (Type Ki) Leather (cattle hide)

Small fragment, possibly latchet, with one edge–flesh stitching channel; stitch length 3.5mm, and with three oversewn edges. Parallel to vertical oversewn edge are three holes with ends of toggles threaded through two of them; both thongs (of toggles) pass through tunnel hole on flesh side; one thong also passes through second thong also passed through second tunnel hole. No thong survives through third hole which ends in long split-hole for toggle from second latchet? Maximum dimensions 75mm by 50mm by 2mm. Probably latchet attached to quarters by edge–flesh stitching channel. Conserved. 13th–14th centuries.

A1249a; L1764; C2137–4; M3e, Pit 2111; Phase Vdd>; Rig VI

Illus 142

5739 Sole (Type 4) Leather (cattle hide)

Almost symmetrical with curled over pointed toe. Probably for right foot. Crack in seat, worn at front of forepart and underneath of centre forepart, partial delamination. Edge–flesh stitching channel; stitch length 4–6mm. Length 223mm; maximum width of forepart 77mm; width of waist 44mm; maximum width of seat 64.5mm. Thickness: outer edge of waist 3.5mm; outer edge of seat 4mm; inner edge of waist 2.5mm. Conserved. 13th–14th centuries.

A12307c; L0064; C3870–1; Unstratified; Rigs VI and VII

Illus 121

5740 Upper (Type Biii) Leather

Two fragments of ankle boot with vertical thonging. Larger fragment comprises vamp with oval toe, vamp wing, vamp throat, part of quarters and leg flap; smaller fragment is rest of quarters—originally one fragment, now torn. Quarters and vamp wing join. Line of vertical thonging on closed side of quarters, spanning join between the two fragments. Three tunnel holes, c11mm long, on larger fragment, three on smaller fragment, two being 6.5mm long and the other 9mm long. Short length, 32mm, of thong threaded through these tunnel holes; width of thong 5mm. Small hole, c2.4mm by 1mm, on larger fragment near vamp throat (for thin pointed end of thong?). Lasting margin with grain–flesh stitching channel; stitch length 5.5–6.5mm. Edge–flesh stitching channel on vamp wing, vamp throat, bottom edge of leg flap and vertical edge of quarters; stitch length 3–6.5mm. Top edge of quarters and top and vertical edges of leg flap oversewn. Conserved. 12th–13th centuries.

A12307d; L0064; C3870–1; Unstratified; Rigs VI and VII
Illus 132

5749 Toggle, with metalwork Leather (cattle hide) and metal

Strip of leather c350mm long, 8–9mm wide and 4mm thick, no stitching. Three lumps of metal and mud? attached. Conserved.

A5898i; L1758; C2716–2; Unstratified; Rigs V and VI
Illus 152

5762 Miscellaneous fragment Leather

Edges slightly bent and perforated all round by grain–flesh holes of c1mm diameter; stitch length 4.5–5.5mm. Symmetrical in shape, could have been folded but now no signs of fold. Thickness 2–2.5mm. Conserved.

A9914; L0070; C2716–2; Unstratified; Rigs V and VI
Illus 159

5767 Miscellaneous fragment Leather

Approximately square, 124mm by 145mm, and c0.25–0.5mm thick. Three edges cut, fourth worn; all corners worn. A central box is marked out by two engraved lines forming rectangles, one inside the other. Lines possibly stamped. Rectangles, 99mm by 73–76mm and 85mm by 65–66mm. Outer line 2mm wide, inner 1mm. Third line, c10mm out from larger rectangle, forming another rectangle–faint and irregular. Fourth rectangle marked by band of impressed or stamped decoration infilled with gilt/gold coloured substance; fourth side of this rectangle does not survive on torn side of fragment. Stamped decoration consists of repeated candelabrum motif and stylised floral motif. Fragment folded once if not twice but not permanently. Cover for flat article but no sign of glue on flesh side: boot cover? Conserved. Post- medieval?

A6203; L1654; C2001–3/4; Unstratified; Rigs V and VI
Illus 158

5768 Sole (Type 2) and 5769 rand and upper (Type J)

Leather (cattle hide) and wool

Complete sole (No 5768/A9821a), rand and nearly complete upper (No 5769/A9821b) of left ankle boot with

woollen thread and part of felt lining surviving (see also this Fascicule, The textiles, Cat No 406). Sole has short rounded seat, fairly broad waist and gently curved forepart with central oval toe. Edge–flesh stitching channel; stitch length 5.5–7mm. Wool survives in this seam, all round but visible only at rear of outer forepart, outer rear of seat, and inner waist. Sole is worn, with large hole in centre of seat, large hole in centre of tread of forepart, and small hole in outer rear of forepart. Trace of stitch holes for seat and forepart clumps. Length 229mm; maximum width of forepart 90mm; width of waist 55.5mm; maximum width of seat 61mm; thickness 5–16mm. Short fragment of rand at outer waist and another at front of forepart/vamp: providing protection for front of vamp? Upper consisting of three fragments with probably a fourth missing. Largest comprises vamp, vamp throat, both vamp wings each reaching far back. Outer vamp wing incorporates complete outer leg flap, inner vamp wing has only rear of inner leg flap, ie front of inner leg flap was a separate piece and is now missing. Second largest, approximately trapezoidal in shape, consists of quarters joined to outer vamp wing/leg flap and to inner vamp wing/leg flap and to small third fragment of upper. Quarters also attached on flesh side to stiffener. Third fragment of upper is very small and triangular and is attached to sole, vamp and quarters. Approximately trapezoidal stiffener, still in position, attached to sole and lasting margin of quarters by wool, but thread stitching its upper edges to flesh side of quarters does not survive. Lasting margin with stitching channel of grain–flesh holes on all three fragments of upper and on stiffener; stitch length 5.5–7mm. Edge–flesh stitching channels on vamp throat, vertical edges of leg flaps and vamp wings and of quarters; stitch length 2.5–3.5mm. Upper is worn, with cracks and holes, especially along both outer and inner edges of vamp and along vertical edge of outer vamp wing. At rear of seat, small fragment of felt lining survives. Trace of felt all over inside of boot. Construction unusual, with separate quarters and with third fragment of upper which suggests cobbler miscalculated in cutting out vamp and quarters and had to insert another fragment to fill a gap. Approximate height of vamp throat 40mm; maximum height of quarters 90mm; thickness of upper 2mm. Upper: approximate height of vamp throat above sole 40mm. Conserved. 12th–13th centuries.

A9821a,b; C2001–3/4; Unstratified; Rigs V and VI
Illus 140

5770 Sheath (decorated) Leather (cattle hide)

Fragment decorated with *fleurs-de-lys*. Formed of one piece of leather, folded once, edges joined by grain to edge seam; stitch length 3–4mm. Upper part of sheath is approximately rectangular, lower part pointed (but upper part does not project). Upper part pierced by two holes, adjacent to seam—holes pierce both back and front—for attachment to belt or other article. Lower part has two holes on one side, one on the other, otherwise no difference between the two sides. Decoration identical, except that on side with two holes on lower part it is less distinct (more worn by contact and therefore reverse?). Fragment, now unfolded, was decorated with stamped diamonds containing *fleurs-de-lys* before being folded. Upper margin of sheath marked by a row of short vertical lines engraved with a sharp tool. Upper part of sheath

filled with diamonds with *fleurs-de-lys* in 19 vertical rows (front and back) with four, five in alternating rows. Upper rectangular part and lower tapering part divided by double row of short vertical lines engraved with a sharp tool. Area beneath this again filled by diamonds with *fleurs-de-lys*. Surviving length 97mm; maximum width 39mm; thickness c2–3mm, but delaminated. Conserved.

A12573; C2001–3/4; Unstratified; Rigs V and VI
Illus 156

5774 Upper? Leather (cattle hide)

Fragment with fastening, with two thongs threaded through four tunnel holes, probably tongue or latchet rather than shoe. Both thongs knotted/anchored at one end of fragment. At other end, on flesh side, c140mm of one thong extends beyond tunnel holes; second thong broken. Between the two rows of tunnel holes is a line of short slashes. One short end of fragment has very neat grain–flesh stitching channel, edge bent (substitute for edge–flesh stitching channel?). Thickness 1mm. Conserved.

A12754d; C2001–3/4; Unstratified; Rigs V and VI
Illus 143

5775 Offcut Leather (cattle hide)

Length 265mm; maximum width c60mm; thickness 1.5–2mm; an area c120mm long and 60mm wide has been cut six times, leaving seven strips c6–7mm wide. Conserved.

A12574e; L0048; C2001–3/4; Unstratified; Rigs V and VI
Illus 158

5779 Sole (Type 2) Leather

Right, with rounded toe, worn at centre forepart, with hole and with long tunnel stitches, indicating that repair clump was added. Similarly, hole in centre of seat surrounded by a few tunnel stitches. Edge–flesh stitching channel; stitch length 5–10mm, mostly 7–9mm, very coarse, holes diameter 3mm; very close stitching at inner waist, hole diameter 1mm, seven holes close together, stitch length 2mm, 4mm, 3.5mm, 2.5mm– repair? Length 239mm; maximum width of forepart 83mm; width of waist 51mm; maximum width of seat 62mm. Thickness: outer edge of waist 4mm; inner edge of forepart and waist 5mm; outer forepart 6mm; rear of seat 6.5mm. Conserved. 12th–14th centuries.

A0800a; C2006–3/4; Unstratified; Rigs V and VI
Illus 118

5780 Clump/upper repair patch? Leather

Clump or repair patch? Edge–flesh stitching channel on one edge; stitch length 6mm; tunnel stitch holes on other edges. Length 103mm; width 25mm; thickness 4–5mm. Conserved.

A0800b; C2006–3/4; Unstratified; Rigs V and VI
Illus 104

5788 Miscellaneous fragment Leather

Triangular, 2.5–4.5mm thick, ?case, with edge–flesh stitching on all edges, hole diameter c2.25mm, stitch long but very regular, length 6–7mm. Conserved.

A0800j; C2006–3/4; Unstratified; Rigs V and VI
Illus 159

5793 Sole (welted) Leather

Seat and waist fragment of outer sole of welted shoe. Parallel to edges of waist is a stitching channel of grain–flesh slits; stitch length 2.5mm. Parallel to this row on left side and parallel to right edge, towards front, is a row of grain–flesh holes (nails or stitching?); stitch length 6.5mm, 5.5mm. Edge–flesh stitching channel across front of fragment; stitch length 6.5mm, 7.5mm. Grain–flesh holes (nails or stitching ?) round edge of seat; stitch length 6.5mm, 7mm, 9mm, 8mm, 10mm. Across front of seat is a row of grain–flesh holes, from grain side, only just piercing flesh side, probably nail holes. Centre of seat is perforated by seven holes (for nails?) probably flesh side up but hard to tell. Length 130mm; width at front of seam 63mm; width of waist 55mm; maximum width of seat 70mm. Thickness: right side of waist 2mm; left side of waist 2.5mm; seam across front 5mm; seat 4mm. Conserved.

A0817b; L1746; C2006–3/4; Unstratified; Rigs V and VI
Illus 145

5823 Miscellaneous fragment Leather (cattle hide)

Cut. Pointed slit at wide end, length 30.5mm, maximum width 3.5mm. Traces of edge–flesh stitching channel on long edges, towards narrow end. All edges cut. Loop? Shoe or other fastening? Length 101mm; width at one end 11mm; at other end 20mm; thickness 1–2mm. Conserved.

A03–0080; L1093; C7014–7; Modern, T7014, D7014; Phase VI; Rig VII
Illus 152

5824 Sole (Type 9) Leather (cattle hide)

Pointed left forepart, long and slender, stitched across rear of waist. Edge–flesh stitching channel; stitch length 2.5–5mm. Length 177mm; maximum width 76mm; width of waist 46mm; width at seam at rear of waist 62mm. Thickness: inner edge of waist, rear of inner edge of forepart, front edge of forepart, front of outer edge of forepart, stitched edge across rear of waist 3mm; middle and rear of outer edge of forepart and outer edge of waist 3.5mm; middle and front of inner edge of forepart 2.5mm. Conserved.

A03–0127a; L0480; C7164–7; Unstratified; Rigs VI and VII
Illus 123

5855 Clump Leather and wool

Seat, formed of two fragments joined with butted edge–flesh stitching channel; stitch length 4.5–7.5mm, with wool surviving. Reused fragments of soles? Tunnel stitches round perimeter for attachment to original sole. Unusual clump, very economical but probably neither very practical nor strong. Length 100mm; maximum width 75mm; thickness 1–3.5mm. Conserved.

A03–0133f; L0486; C7164–7; Unstratified; Rig VI and VII
Illus 104

5868 Sheath (decorated) Leather

Decoration: bands of hatching and rope pattern. Construction: of one piece of leather, originally approximately triangular. Lower part pointed, folded twice, edges meeting in middle of reverse side. Upper part is rectangular and projecting, meeting very close to projecting side with butted

edge to grain stitching channel; stitch length 11mm. Bottom end of sheath cut and turned in slightly, top edge cut. Pointed hole near top right hand corner of front of sheath with two very small holes above it; large and small holes in corresponding positions on reverse for attachment to belt or other article. Top edge of reverse slightly lower than that of front. Cracks at junction of lower and upper parts of sheath. Decoration: front, upper part—rectangular panel of irregular diagonal hatching divided by pairs or bands of horizontal lines: seven bands on right hand side, enclosing six zones of hatching: pairs of bands join in middle of panel to form six bands which continue across rest of front and whole of reverse, with hatching enclosed. To right of this large rectangular panel is a narrow strip of diagonal hatching and a small zone of hatching which contains the pointed hole described above. Also, horizontal zones of hatching at top and bottom of rectangular panel. Decoration: front, lower part—triangular panel with plaited or rope pattern enclosed by diagonal hatching. No decoration on reverse. Length 183mm; width of upper part 52mm; maximum width of lower part 30mm; minimum width of lower part 2mm; single thickness 1.5mm; folded thickness, bottom end 4mm. Conserved. 13th–14th centuries.

cf Richardson 1959, 103 for hatching 13th century or later, Tatton-Brown 1975, 162–3, figs 29, 113 (Custom House site, London) for rope pattern early to mid 14th century.

A03–0004a; C7000–7–10; Unstratified; Rigs VI–VIII
Illus 155

5872 Sheath (long, plain) Leather (cattle hide)

Long strip of leather slightly curved towards the bottom, folded twice, edges meeting up middle of reverse where stitched together in a butted edge to grain seam; stitch length 3–4mm. No decoration. Bottom end of sheath tapered, ending in gently rounded curve, not sharp point. Top edge of sheath cut, not in a straight line (original top?). Fragile and very delaminated. Length, straight, 353mm, curved c360mm; maximum width 56mm; single thickness 2.5mm. Conserved. A03–0019; C7000–7–10; Unstratified; Rigs VI–VIII
Illus 154

5873 Miscellaneous fragment Leather (cattle hide)

Approximately triangular, with rounded apex in which a small central and a larger concentric circle are partially cut; 13mm towards broad end a short loop? is cut out (part of fastening?). Maximum length 112.5mm; minimum width 10mm; maximum width 64mm; thickness 2mm. Conserved. A03–0028; L0414; C7000–7–10; Unstratified; Rigs VI–VIII
Illus 152

5875 Sheath (short, plain) Leather

Very worn fragment of plain sheath, formed by one piece of leather folded once and stitched where edges meet. Tattered and partially delaminated. Maximum surviving length 206.5mm; width 35.5mm. Conserved.

A03–0037a; L1099; C7000–7–10; Unstratified; Rigs VI–VIII
Illus 154

5878 Offcut Leather (cattle hide)

Irregular, with seven cuts in a row. Dimensions c131mm by 51mm by 1.5mm. Conserved.

A03–0040b; L0420; C7000–7–10; Unstratified; Rigs VI–VIII
Illus 159

5880 Strap (folded once) Leather (cattle hide)

Fragment, folded once, with, on one side, two rows of short grain–flesh slits 5.5mm long and 2.5–4mm (end to end) apart. The rows are parallel to edges of strap except where one side of strap widens by c10–14mm. Edge to grain stitching channel parallel to edge of wider part; stitch length 5.5–7mm. Parallel to stitching channel is a row of grain–flesh slits 3–4mm long and 3–4mm apart. Long edges of strap are cut on unwidened and on widened sides to extension, and long edge on widened side is torn after c90mm of edge to grain stitching channel. At that end, which is torn, at c20mm from end, slits cease on both sides. Other end is also torn. Length 347mm; maximum width, folded, 33mm; minimum width, with cut edges, 17mm; single thickness 2mm.

A03–0425b; L2485; C7000–7–10; Unstratified; Rigs VI–VIII
Illus 148

North Sector (Area 5)

5889 Upper (Type Biv) Leather

Two joining fragments, originally one, of upper of boot with short stretch of thong through slit in vamp wing, knotted on flesh side. Comprises vamp, high vamp wing, vamp throat, quarters with stitch holes for semi-circular stiffener and leg flap. Quarters and vamp wing join. Complete but for second leg flap. Lasting margin with grain–flesh stitching channel; stitch length 5–5.6mm. Edge–flesh stitching channels on vamp throat, vamp wing, vertical edge of leg flap and on vertical edge of quarters; stitch length 3mm. Top edges of quarters and leg flap oversewn. Quarters and front of vamp worn and cracked. Stitch holes on flesh side around crack in side of vamp and around part of vamp, lasting margin missing suggests that these areas have been repaired. Stitch holes on flesh side of quarters, beneath those for stiffener, also suggest repair. Conserved. 12th–14th centuries.

A7805c; L1748; C0435–5; CG005; Phase 4(5)
Illus 134

5924 Strap (single thickness) Leather

Piece, of single thickness with pointed end with roughly oval hole and with five short slashes, for decoration? Partially delaminated. Surviving length 233mm; width 23–24mm; thickness 0.35mm. Conserved.

A0115; C0062–5&A; Lade (4); Phase 6–12(b–e)
Illus 152

5929 Sole (Type 9) Leather

Left forepart with oval toe. Edge–flesh stitching channel across waist, and round perimeter; stitch length, waist 4mm, rest 7mm. Length 145mm; maximum width 75mm; width of waist 29mm. Thickness: at waist 2mm, at toe end of forepart 3mm, on inside and outside edges 4mm. Conserved.

A0110a; C0063–5&A; Lade (4); Phase 6–12(b–e)
Illus 123

5941 Strap/belt (single thickness), decorated Leather

Short fragment of single thickness, one long edge cut but apparently not stitched. One long edge cut, with stitching channel of grain to edge holes; stitch length c6mm. One short edge torn the other cut and apparently stitched, trace of grain–flesh stitching channel. Decoration: eight rosettes set within spirals or whorls, all within a long rectangular frame. The frame and innermost ring of spirals marked out by small punched dots, each of c1mm diameter. Some additional lines and triangular patches also marked out with three dots. Outer rings of whorls or spirals marked by narrow lines engraved with blunt tool on wet leather. Rosettes stamped, almost certainly with same stamp. Each rosette has seven petals. Rosette diameter 11.5mm each. Surviving length 181mm; maximum width 42mm; thickness c1mm, delaminated? Conserved.

A0802; C0100–5&A; Lade (4); Phase 6–12(b–e)

Illus 156

5942 Sole (Type 2) Leather (cattle hide)

Child's right, with almost straight inner edge, curved outer edge, of forepart, rounded toe. Edge–flesh stitching channel; stitch length 5mm, 6mm. Crack at waist. Length 118.5mm; maximum width of forepart 48mm; width of waist 34mm; maximum width of seat 41mm. Thickness: outer edge of waist, front of outer edge of forepart, rear of seat, 3mm; inner edge of waist and seat, middle of outer edge of forepart, inner edge of seat, 3.5mm; front of inner edge of forepart 2mm. Conserved. 12th–13th centuries.

A0807a; L1715; C0100–5&A; Lade (4); Phase 6–12(b–e)

Illus 124

5958 Strap/belt (single thickness) Leather (cattle hide)

Fragment of single thickness, greyish-blue, worn, with two rounded corners. Decorated with two parallel rows of short diagonal cuts next to edge, two round holes, diameter c5.5–6mm and 23mm apart; in centre is trace of third hole on worn torn edge. Signs of wear (pin or buckle?) around edges of both surviving holes. Length 113mm; width 45.5mm; thickness 2mm. Conserved.

A0100; L0043; C0026–5&A; CG024; Phase 14–16

Illus 151

South/North Sectors**5978 Upper (Type Biii)** Leather (cattle hide)

Two fragments of very worn and tattered boot with two rows of vertical thonging. Larger fragment comprises vamp, vamp throat, quarters and leg flap. Smaller fragment joins diagonal edge of quarters. On both sides of quarters is a vertical row of tunnel holes with thongs. On closed side of quarters are four short stretches of thong (on grain side), and on open side are three short stretches of thong (on grain side). Upper end of each thong is pointed (on flesh side). Lasting margin with grain–flesh stitching channel; stitch length 4.5–6.5mm. Edge–flesh stitching channels on vamp wing, vamp throat, vertical and diagonal edges of quarters, and on second fragment; stitch length 4–5mm. No stitching survives on vertical edge of leg flap. Quarters very worn. Conserved. 12th–13th centuries.

A?; L1694e; C?; Unstratified

Illus 133

5979 and 5980 Uppers? (2) Leather

Two fragments. No 5979/L1694f with lasting margin with stitching channel of irregularly spaced oval holes; stitch length 13.5mm, 11mm, 11.5mm, 5.5mm, 6mm. One edge has part edge–flesh, part grain–flesh, ie grain folded to form edge. Similarly, on third edge, stitch length 3mm, 3.5mm, 2mm (vertical edge), 4mm, 4.5mm, 5.5mm, 5mm (horizontal edge). No 5980/L1694g similar, stitch length 4.5mm, 5mm, 6mm, 3.5mm, 7mm, 8mm, 14mm; other two edges both compare, stitch length 2.5–3.5mm (vertical), 3–4mm (horizontal). These two fragments appear to join along their vertical edges (repair fragments for upper?). Thickness 2.5–3mm. Conserved.

A?; L1694f,g; C?; Unstratified

Illus 104

5983 Sole (welted) Leather

Fragment of seat, welted, with stitching channel of grain–flesh holes c5.5mm in from the edge; stitch length c3.5mm, 6mm, 2mm, 3mm, 5mm, very irregular. Five small round holes in centre, which just penetrate from flesh to grain. Worn, not easy to distinguish between grain and flesh sides. See also No 5984. Conserved.

A?; L2766b; C?; Unstratified

Illus 145

5984 Sole (welted) Leather

Seat, welted, with stitching channel of grain–flesh holes c7.5mm in from edge; stitch length c3–4mm. Seat appears to have grain side up. Centre is perforated by about twelve oval holes (one large, seven medium, four small). Irregular groove across seat to rear of waist, cracked at front, worn and very dry and brittle, most of stitching channel missing, only outline survives. Thickness c4–5mm. See also No 5983. Conserved.

A?; L2766c; C?; Unstratified

Illus 145

