LATE ROMAN POTTERY FROM ROOM III/NORTH AT THE VISEGRÁD-GIZELLMAJOR FORT

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Abstract: Pottery at the late Roman fort of Visegrád-Gizellamajor contains both forms common in the 4th century as well as new ones, which appear at the turn of the 4th and 5th centuries. On traditional Roman household pottery and glazed vessels new surface ornaments (incised and notched) and new designs (fired yellowish-white, very gritty fabric) appear. Additionally, there are vessels with smoothed and smoothed-in ornaments. Although the excavators distinguished various layers in the fort, pottery from the layers often fit together. What survived to the greatest extent were the materials from the upper destruction debris. Room III of the north wing was a later addition to the fort; hence its pottery can be dated from the Valentinian period until the Hun period.

Keywords: Late Roman Period, Early Migration Period, pottery, Limes in Pannonia

INTRODUCTION

On the north-eastern border of Pannonia, along the Danube Limes (the province of Valeria) was a dense line of forts and watchtowers during the second half of the 4th century (Fig. 1.1). Part of this chain was the rectangular small fort excavated between 1988 and 2003 at Visegrád-Gizellamajor. The small fort lies between the forts of Pilismarót and Visegrád-Sibrik Hill, within sight of the neighbouring watchtowers. Strategically, it was in the best location for sighting and defending against attacks by the Quadi from across the Danube, as well as for controlling trade across the river.

There were fan-shaped towers at the four corners of the fort. Attached to its main walls, on the inside, side-wings (6 metres wide) were built, symmetrically enclosing the inner drill ground. Its gate was on the northern side, facing the Danube. The gate is now partly underneath modern-day Route 11 (Fig. 1.2).

Its construction can be dated to the mid-4th century, the reign of Constantius II. Remodelling during the Valentinian period can be detected throughout the fort, while at the turn of the 4th and 5th centuries only smaller rooms are attached to the main wings. The stratigraphic position of the latest buildings shows that they were built after the partial destruction of the fort. It was used according to its intended purpose until the 430s, after which it served as a burial site (and perhaps dwelling) of the Huns.

The analysis of the pottery, given the immense quantity, is carried out wing by wing, room by room. The present study presents the materials from room III of the north wing. This is simply due to the quantity of the materi-
Fig. 1. 1: Late Roman forts in the Danube Bend between Solva and Aquincum (Vtse 2003); 2: The ground plan of the fort uncovered in Visegrád-Gizellamajor.
1. THE STRATIGRAPHY OF ROOM III NORTH

The north wing was built facing the Danube, parallel to the river. This was the location of the small fort’s entrance, which split the wing into two parts in the middle. Originally there was a room on each side of the gate (I–II/N), from which the corner towers could be accessed. During later modifications, the rooms were split into two, fitted with heating flues, and two new trapezoid-shape rooms were built in front of them. Of these, room III/N narrowed the gate passage.4

Room III/N was built later than the fort itself (Period 2). Its original shape was probably rectangular, since the diagonal wall, which gave the room its trapezoid shape, postdates the stone wall of the lower heating flue.5 Its walls were of lower quality; within them ran a heating flue heated from an external furnace from the west (Fig. 2).

The excavators distinguished three layers in the room. The lower heating flue is built on the lowest, clayey layer (this layer is stony on the western side). When the flue was filled in, an intact, glazed jug and an assemblage of jewellery were hidden under the flue cover (Fig. 10.1).6 The upper heating flue system with a furnace (on the same level as the furnace in the middle of the west wing) is built on top of the filled in flue.7 The upper, new floor is a hard, clayey – with mortar patches in places – floor (Period 3), on which stood a large stone mortar (at the end of the diagonal wall). Above it was the destruction debris with daub and mortar (Period 4).

In terms of absolute chronology, the room which narrowed the gate passage was likely constructed during the remodelling, i.e. during the Valentinian period.8 The upper floor is later; it can be dated to the final third or end of the 4th century.9 The upper destruction debris was the level of the first third of the 5th century, when the room stopped being used in the 430s. In the Hun period a grave was dug into it (grave no. 94/1, in the western half of the room).10

2. POTTERY BY LAYERS

Separating pottery found in room III/N from those from room II/N as well as the western and northern part of the courtyard is problematic. Initially the excavation diary records all rooms west of the gate together. It is only in autumn 1995 that the area in the southern foreground of room II/N is designated room III/N.11 Altogether, I recorded 1045 fragments from room III/N and its surroundings.

4 Gróh–Gróh 1995, 65–66; Gróh 2000, 20, 28; The other trapezoid-shape room was built in front of room I East and room I North on the mortared pavement of the courtyard, block the entrance of room I/N.
5 Gróh 2000, 20: the originally rectangular room became trapezoid shaped after the construction of the upper heating flue. The new floor, above the old flue, was built onto the western wall of this building.
6 Military brooch, clasp, beads (including amber beads); somewhat farther: double-sided bone comb (Gróh 2000, 28, Fig. 1.3).
7 The daub debris and black timber beams are on the same level as the top of the lower flue (Fig. 2.2). On the bags there are materials from above the upper mortary layer and the upper clayey layer. This was likely the floor above the new heating-flue. Based on the above, the diagonal west wall would belong to the late-fourth-century remodelling. However, the diagonal wall in room IIb/N (which runs in the same direction) is recorded as a NW-SE wall connected with the lower floor, built on clay, above which the next floor was constructed (Gróh 2000, 19).
8 In room III/N several coins of Valens and a few of Constantius II were found, without closer identification of the layer. The earliest is a coin of Constantine II (337–341) from the mortary layer between rooms III/N and I/W. In the SE corner of the room was a brick fragment with a QUADRIBURG stamp.
9 This may correspond to period D1 used in the research of the Migration Period. The upper destruction debris may correspond to horizon D2. See Bierbauer 2015, 374 (Bierbauer D1: 370/380–400/410; D2a: 400/410–420/430; D2b: 420/430–440/450; D3: 450/460–480/490; Tejral D1: 360/370–400/410; D2: 390/400–430/440; D2/D3: 430–460; D3: 450–470/480).
10 Gróh 2000, Fig. 60 (with bronze buttons as grave goods).
11 It is unclear whether the area between rooms I/W and II/N, excavated in 1994, was the western edge of room III/N or the western part of the courtyard (2013.14–4.). It may perhaps belong to room IIb/N. It contains materials that match those of rooms IIb/N and III/N, hence I am publishing them here (Fig. 5.1). By 1996 the diary writes clearly about the area between III/N and I/W. The external furnace heating room III/N was located here, in the courtyard between the two buildings (2013.14.10–11.). It was published as part of the western half of the courtyard (Otthomány 2015a, 116). The gate passage to the north and the areas to its south and west, excavated between 1993 and 1996, too, cannot be always clearly connected with a particular room (foreground of the northern gate: 2013.14.20. and 22; 2018.1.13. and 15.).
Fig. 2. Top view of room III/N (1, 4) and sections (2.: heating flue, 3.: courtyard in front of the room’s southern wall)

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Room III/N was built during the remodelling of the fort (Period 2), therefore materials from before the Valentianian period could only appear here in a secondary context. Pottery could not be unequivocally connected with the lowest floor of the room. Belonging to the filling between the floors is perhaps the materials from the lower debris (2013.14.22.) and the daub debris above the lower clayey layer (2013.14.19.). In both we can find new-type household pottery and, among the lower debris, even smoothed-in vessels. The vessel and the assemblage of jewellery hidden inside the lower heating flue were buried during the late 4th century remodelling (Period 3). This is the only sealed layer; it is a pity that there were so few pieces of pottery in it (most being new-type household pottery). After the flue was filled in, a new, clayey, mortary floor was constructed above it (2013.14.7. and 12.). On this upper floor stood the stone mortar (2013.14.17.). During the excavation of the floor both smoothed-in and new-type household pottery were found. Most pieces of pottery in the room were found above it (upper yellowish-brown, upper stony brown, above the mortary layer, upper stone debris, upper daub). In this, latest period (Period 4), the whole fort is destroyed and filled in. The matching fragments in the daub layer may be the result of a deliberate infilling of the entire wing. The question is: by whom and when was it filled in?

2.1 Pottery groups

Based on the presence or absence of the various groups (early Roman pottery, glazed, smoothed-in, new, 5th century pottery), I tried to distinguish pottery groups within the fort’s material. This also meant chronological differences. Sometimes the pottery groups can be aligned with the layers (e.g. group IIa in the debris above the lower floor; group III in the upper daub). It is, however, more common that in the layers there is a mix of pottery from various groups, e.g. groups Ib and III in the upper debris, groups II–III in the layers above the upper floor etc. At times it even contradicts the stratigraphy, e.g. the latest group III in the lower debris (2013.14.22.). There are, therefore, no clear layers with connected pottery groups. This is a trend that lasts from the Valentianian period until the first half (or perhaps middle) of the 5th century, and, as time progresses, more and more new-type pottery appears in the debris, while the amount of 4th century pottery decreases.

Group Ia: mixed early and late Roman pottery. Typical 4th century household pottery, few hand-made (no smoothed or glazed). See 2013.14.16. (layer uncertain).

Group Ib: no early Roman pottery. 4th century glazed, smoothed, and household pottery. 2013.14.14. (upper debris) and 2013.14.18. (stone debris). Period 4.

Group IIa: In addition to 4th century glazed and household pottery, also smoothed-in pottery group 2 or late smoothed (few early pottery and some can be later, household pottery): 2013.14.12. (excavation of the floor), 2013.14.13. (stone debris), 2013.14.17. (layer with the stone mortar), 2013.14.19. (daub debris above the lower clay layer). Period 2/3–4.

Group IIb or IIIb: 4th century glazed, no smoothed-in, large amount of new-type household pottery (2013.14.7.: infill of the flue; 2018.1.15.: surface of the debris). Period 3–4.

Group IIc: 4th century glazed (one piece possibly late), one late smoothed, no new-type household pottery (2013.14.15.: above the mortary layer). Period 3–4.

Group III: late glazed, smoothed-in, late smoothed, and new-type household pottery as well as hand-made materials. In some cases there is no late glazed only, smoothed-in, late smoothed and late household pottery (IIia: 2013.14.5. + 9.); no glazed or smoothed-in, only the household pottery represents the 5th century (IIb or IIIb: 2013.14.7.; 2018.1.15.). Period 2/3–4.

Most of the pottery in room III/N belong to this group, although in some cases the 4th century material still dominates and there are very few 5th century vessels (3%: 2013.14.2–4.). A third of the material may be new-type (28–36%: 2013.14.1., 20., 22.; 2018.1.13., 15.).

According to the excavation diary, in the furnace pit of lower level’s heating flue there were fragments of a large barbarian vessel underneath the stone debris, as well as a small, squashed bronze vessel, a millstone and burnt timber beams (diary: 1996.VIII.15.). So far, I have not seen this material.

For more details on the groups see OTTÓNÁNYI 2015a, 5–7.
Its earliest layer is the lower debris (2013.14.22), but this, too, might already be post-Valentinian (Period 2–3). Most of the late material was found in the upper daub layer (Period 4). More than half (55–67.5%) of the pottery from this layer is a new-type, 5th century vessel. We have only one sealed layer – the infill of the lower heating flue (2013.14.7.) – where there was a conspicuously high amount of late household pottery (63.6%), although the glazed vessels found next to them represent traditional, 4th century forms (worn, leaky jug used for a long time). This sealed layer, which was formed through the construction of the new floor and flue above it (Period 3), dates the use of the following types: white; ribbed; with incised wave motifs; as well as the Leányfalu mug-pot type to the final quarter of the 4th century the earliest or the turn of the 4th and 5th centuries. Next to it, the military brooch and double-sided bone comb from the jewellery assemblage indicate that these vessels were used by a mixed group of Roman soldiers and a new, perhaps Germanic, populace (and their families).

2.2 Matching fragments

We can find matching fragments in the various parts of room III/N, and there are also matches with the material from rooms I/N and II/N and even in some cases with that of the west wing (see Table 1).15

Within room III/N: smoothed bowl fragments from the dark brown infill above the clay surface (2013.14.5.3.) and from a bag with an illegible label from room III/N (Fig. 7.1). From this same infill the fabric of a different smoothed bowl fragment (2013.14.5.12.) is very similar to that of a piece from above the clayey brown layer (2013.14.4.21.), so they may have belonged to the same vessel.

Room III/N and the western part of the courtyard: There is a glazed mortarium fragment from the daub debris of room III/N (2013.14.21.2.), which matches the material from above the clayey brown layer in the courtyard between the room and the west wing (2013.14.4.1.: Fig. 5.1).16 Room III/N and room I/N: the matching fragments of a white-slip vessel with a horizontal rim from the room’s daub debris (2013.14.6.107.) and in the daub debris of the neighbouring room I/N (2013.11.6.16.). Room III/N and room II/N: from this same upper daub debris (2013.14.6.112.), a jug fragment with incised wave motifs matches the material from the upper 20–40 cm of room II/N (2013.12.1.10.: Fig. 13.4). A smoothed small bowl from the upper stony brown part between II/N and the west wing (2013.14.1.21.) matches the material from the infill above the clayey floor of room II/N (2013.13.23.4.: Fig. 7.5). The fragments of a smoothed-in jug come from the infill below and above the mortary floor of IIb/N (2013.13.2. + 6. + 9. + 11. + 16.), as well as room III/N (2013.14.23.1.: Fig. 8.1).17 Therefore, the upper debris (daub and greyish-brown) appeared at the same time on top of the walls of the entire wing. Moreover, there is a fragment from this northern daub debris, which fits with the material from the infill above the west wing’s lower floor.18

Levelling in the north and west wing, therefore, took place at the same time. The question is: when? Perhaps when the original floor in room II/N was no longer in use, collapsed or decayed, it was filled up to form a level surface.19 Or, perhaps, when the lower-quality mud-brick walls were built on top and people were still living there (mixed Roman and Barbarian troops), or when these, too, were already levelled (by the Huns)? Since the material from the mud-brick debris, too, matches that of the layer below the floor (room IIb/N), the one from the ruins of these buildings may be the top layer of debris. This could only have happened at the end of occupation, during the first half of the 5th century, or during the Hun period, when other ethnic groups settled among the ruins of the fort.

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14 In other parts of the fort there are a few such pieces already in the Period 2 layers from the Valentinian period (e.g. OTTOMÁNYI 2015a, 6–7: group III between layers 1–2, group IIIc: layer 2).
15 Had it been possible to lay out and compare the entire material, or at least that of the rooms of the various wings at the same time, there would be a much greater number of matching fragments. Now, matching pieces can only be found in the cases of conspicuous, unique and easily-distinguishable smoothed-in, glazed or ornamented vessels.
16 From the same location comes a storage jar with yellowish-white slip (2013.14.4.17.), the other fragment of which comes from the daub above the courtyard’s clayey, mortary layer (2013.14.3.8.). These three layers were excavated in different years (1994 and 1999). In the absence, however, of data on depth, I cannot determine the connection between these layers.
17 Smoothed-in jug: 2013.13.2.11–12. Room IIb/N: upper debris + 2013.13.6.238. Room IIb/N: greyish-brown infill above mortary floor + 2013.13.9.2. Room IIb/N below the mortary floor + 2013.13.11.27. Room IIb/N below the mortary clay debris + 2013.13.16.91. (2 pieces) mud-brick section wall, room I/W above the layer 80 cm from the northern wall top + 2013.14.23.1. Room III/N (bag without label).
18 Smoothed-in pot rim fragment (OTTOMÁNYI 2012, 377, Fig. 12.10, Fig. 15.2, zs/32. + zs/53.).
19 In room IIb/N, after all, there are matching fragments from the layer both below and above mortary floor.
| Cat. no. | Layer (Room III/N)                                                                                                                                                                                                 | Glazed (115 pcs) | Smoothed-in (19 pcs) | Smoothed (124 pcs) | Household pottery (gritty, hard) (552 pcs) | Household pottery (well-levigated) (178 pcs) | HM (52 pcs), SW (8 pcs) | Other | Period | Pottery group |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------|--------------------|-------------------------------------------|---------------------------------------------|---------------------------------------------|--------|--------|--------------|
| 2013.14.1. (+ 2013.13.23.) | Area between r. II/N and FW, upper stony brown, 1994, (+ IIb/N infill above yellow, clayey floor, 1996)                                                                                                             | 21 (5 mortaria, 11 jugs, 5 other bowls; 6 late white) | 6 (1 bowl, 4 jugs, 1 fragment, 2 lattice, 3 vertical, Fig. 7.3; Fig. 8.4) | 17 (Fig. 7.4–5; 1 black, shiny) | 55 (21 pcs late: 10 white, 10 ribbed, 1 wavy line on horizontal bowl rim, 1 impression on jug shoulder)22 | 17 | 4 | African red slip ware rim | 4 | III (28%) |
| 2013.14.2. + 14.3. + 14.4. + 14.21. | Surface between r. IIb/N and FW, upper yellowish-brown layer (1994) + above clacey, mortuary layer (1999) + above clacey brown layer (1994) + r. III/N NE corner, removal of daub debris 30–40 cm from the wall (1993)23 | 20 (10 mortaria, 1 bowl with inverted rim, 1 bowl with horizontal rim, 1 bowl with glaze spot, 7 jugs (2 late, white) Fig. 4.2) | 1 jug (vertical) | 51 (1 bi-conical bowl: Fig. 7.7) | 59 (2 late: 1 ribbed, 1 white; 2 densely incised, 1 broom-stroked) Fig. 12.6; Fig. 14.4 | 45 (5 medium-hard) | 20 + 2 SW (Fig. 16.2) | 4 | III (3%) |
| 2013.14.5. + 14.9. | South of r. II/N, room with stone mortar, dark brown above clay surface (1994) + r. III/N (1994)                                                                                                                                 | 3 (mortarium, other bowl, jug) | 1 (diagonal lines) | 10 (1 shiny, black; Fig. 7.1) | 38 (22 late: 9 white, 1 bowl with horizontal rim, 1 Leányfalu, 13 trace of wheel); Fig. 12.2 | 8 (Fig. 14.6) | 6 | 4 | IIIa (36.4%) |

20. HM = Hand-made: 52 pieces, one of which is smoothed. SW = Slow-wheel: 8 pieces, of which two are smoothed. Since the 3 smoothed pieces already appear among the smoothed vessels, I only included 57 items in the total for hand-made and slow-wheel-made vessels.

21. I included here, in parentheses, the ratio (in percentage) within the layers’ pottery of new-type vessels which appeared at the turn of the 4th and 5th centuries. In the table, written in bold, are the latest materials.

22. Of the 10 white fragments, two are ribbed. One jug has impressed motifs. The other 8 ribbed motifs are on grey wall fragments.

23. 2013.14.2.–4. Based on the sketch on the bag: not room III/N, but the western part of the courtyard. In 1994 the excavators had not designated room III/N yet, so the label is unclear. But this was also the location of the exterior furnace heating the room. Since it was left out of the paper presenting the courtyard’s material, I am publishing it here, especially since one of the vessels matches the material from room III/N (Fig. 5.1).
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| Cat. no. | Layer (Room III/N) | Glazed (115 pcs) | Smoothed-in (19 pcs) | Smoothed (124 pcs) | Household pottery (gritty, hard) (552 pcs) | Household pottery (well-levigated) (178 pcs) | HM (52 pcs), SW (8 pcs) | Other | Period | Pottery group |
|----------|--------------------|------------------|----------------------|--------------------|------------------------------------------|---------------------------------------------|-----------------------------------------------|-------|---------|---------------|
| 2013.14.6. (+ 2013.12.1. + 2013.11.6.) | III/N upper daub layer: N gate, southern foreground of II/N, 1994 (+ r. II/N 20–40 cm (1994) + r. I/N upper daub debris 1994) | 18 (1 bowl with inverted rim, 3 bowls with horizontal rim, 4 other bowls, 2 mortaria, 4 jugs, 4 mugs; 7 late; 2 biconical bowls (vertical; wave, in bands; Fig. 7.8–9, Fig. 10.5)) | 10 (Fig. 9.1) | 134 (89 late: 55 white, 16 Leányfalu, 39 trace of wheel, 11 incisions, 1 broom-stroked); Fig. 11.3.5; Fig. 12.5.7; Fig. 13.1–4; Fig. 15.2.6 | 14 (3 medium-hard, Fig. 6.4) | 1 (Fig. 16.1) | 1 painted, spindle wheels (Fig. 12.9–11) | 4 | III (55%) |
| 2013.14.7. | By the N gate, foreground of II/N (r. III/N) from the infill of the flue. 1994. (+ same location -40 cm, 1995) | 2 (mortarium, intact jug: Fig. 6.1; Fig. 10.1) | 7 (7 late: 5 white, 5 Leányfalu (ribbed), 1 wavy line, 1 dense lines) | 1 (Fig. 14.5) | 1 | | | | |
| 2013.14.12. | Western half of room III/N, excavation of the floor. (In 1996 the upper floor with the stone mortar was excavated) | 9 (4 mortaria, 2 bowls with a horizontal rim (of these one with wavy line), 2 other bowls, 1 jug) | 1 jug (with diagonal lines; Fig. 8.2) | 9 | 8 (1 trace of wheeling, 1 incised) | 24 (3 medium-hard), 1 rim of waster (Fig. 14.3) | 4 | 2 neutral-coloured | 3 | IIb/IIIb (63.6%) |
| 2013.14.13. | Western half of III/N, removal of the stone debris, 1996 | 3 (1 bowl with horizontal rim, 1 other bowl, 1 jug) | 3 (2 jugs, 1 bowl; 2 vertical, 1 Murga; Fig. 9.2–3) | 6 | 1 | 6 (1 medium-hard, 1 with pinches; Fig. 12.8) | 2 | 6 early (painted, neutral-coloured lamps) | 4 | Ia (11%) |
| 2013.14.14. | Northern half of Room III/N, upper debris, 1996 | 2 mortaria | 1 | 5 | 4 (1 medium-hard) | | | | | |
| Cat. no.     | Layer (Room III/N)                                                                 | Glazed (115 pcs) | Smoothed-in (19 pcs) | Smoothed (124 pcs) | Household pottery (gritty, hard) (552 pcs) | Household pottery (well-levigated) (178 pcs) | HM (52 pcs), SW (8 pcs) | Other | Period | Pottery group  |
|-------------|------------------------------------------------------------------------------------|------------------|----------------------|-------------------|-------------------------------------------|------------------------------------------------|------------------------|-------|--------|---------------|
| 2013.14.15. | By the eastern wall of Room III/N, above the mortary layer, (1995)                | 10 (2 bowls with inverted rim, 1 with segmented rim, 1 other bowl, 6 jugs; 1 trace of wheeling) | 1 shiny, black    | 11                 | 2                                           | 1 + 2 SW                                                  | 3–4        | He     | (7.4%)  |
| 2013.14.16. | Room III/N, corner by the western half, 1996                                      | 4 (1 bowl, 3 jugs) | 1 bowl (lattice and diagonal band; Fig. 8.3) | 3                 | 6                                           | 2 (1 medium-hard)                                          | 1          | 9 early (painted, brick-coloured), spindle whorls | ?    | Ia    |
| 2013.14.17. | Western half of r. III/N, layer with stone mortar, 1996                            | 1 jug             | 2                    | 2                 |                                             |                                                          | 4          | Ib     |
| 2013.14.18. | Room III/N, stone debris by the south wall of the room with stone mortar, south of the gate 1994 | 2 (mortarium, jug; Fig. 5.4) | 7 (1 biconical bowl, 1 Leányfalú rim: Fig. 7.2; Fig. 11.1) | 12 (2 trace of wheeling) | 6                                           | 2 + 2 SW                                                  | 1 painted   | 2–3    | Ia      |
| 2013.14.19. | Gate, south of room II/N, Room with stone mortar, southern side of heating flue, daub debris above lower clay, 1994 | 11 (2 mortaria, 1 bowl with horizontal rim, 1 other bowl, 1 mug, 5 jugs/mugs, 1 handle with glaze spot, 1 mug; 6 late; 5 white (with trace of wheel-throwing on one of them) and one bowl with gritty fabric and wavy rim) | 1 pitcher (Murga, lattice, vertical, trace of wheeling; Fig. 9.4) | 3                 | 83 (74 late: 12 Leányfalú type, 37 trace of wheeling, 5 wavy line, 1 broom-stroked; Fig. 12.3; Fig. 15.3) | 17 (8 medium-hard; Fig. 14.1) | 6 pcs       | 4      | III    |

25 5 white (with trace of wheel-throwing on one of them) and one bowl with gritty fabric and wavy rim.
| Cat. no. | Layer (Room III/N) | Glazed (115 pcs) | Smoothed-in (19 pcs) | Smoothed (124 pcs) | Household pottery (gritty, hard) (552 pcs) | Household pottery (well-levigated) (178 pcs) | HM (52 pcs), SW (8 pcs) | Other | Period | Pottery group |
|---------|-------------------|------------------|---------------------|-------------------|------------------------------------------|--------------------------------------------|-------------------------------|-------|--------|--------------|
| 2013.14.22. | W foreground of N gate, lower debris, – 120-130 cm, 1994 | 1 mortarium | 1 jug (lattice, ribbed; Fig. 6.3; Fig. 10.4) | 2 pcs | 28 (20 late; 5 Leányfalu, 10 trace of wheeling, 14 yellowish-red; Fig. 15.4-5) | 1 | 1 painted, whetstone | 2-3 | III | (62%) |
| 2013.14.23. (+ 2013.13.2. + 6, + 9, + 11. + 16.) | R. III/N without label (+ room IIb/N upper debris, and greyish-brown infill above mortary floor + r. IIb/N under mortary floor, etc.) | 1 jug (vertical and wave, shiny black: Fig. 8.1; Fig. 10.6) | | | | | glass jug foot | 4 | III |
| 2018.1.19.1. | Next to grave no. 94/1 dug in room III/N (1998) | | | | | | 1 large pot (Fig. 16.5) | 4 |
| ? | R. III/N. From the floor in the room built west and south of the gateway | | | | | | intact mug (white, trace of wheeling: Fig. 11.6; Fig. 13.5) | ? | IIIc |
| 2018.1.13. | Daub close to gateway, 1998 | 7 (1 mortarium, 1 bowl with horizontal rim, 4 jug/pot wall; 6 white; Fig. 4.7) | 1 jug (lattice, vertical: Fig. 9.5) | 5 pcs (1 black; Fig. 7.6) | 98 (72 late; 2 gravelly, 1 perhaps SW; 43 trace of wheeling, many whitish-grey; Fig. 11.4; Fig. 12.4) | 20 (2 medium-hard; Fig. 14.2 (glaze spot) | 4 | 4 | III (61%) |
| 2018.1.15. | South of the entrance to N. wing, from the surface of the debris, 1993 | 1 (bowl foot) | | | 3 (3 late: 2 yellowish-white, one of which densely incised) | 2 (1 not hard) | 1 | 4 | IIb/IIIb (43%) |

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Two beautiful fragments were removed (smoothed-in vessel and glass foot), but there is no label on the bag.

Only one large, hand-made vessel was removed from here. I have not seen the other material yet.

The label on the vessel’s box is no longer visible. Based on the diary, an intact vessel was found here in 1993. Other pieces of pottery have not been recorded from here.

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3. POTTERY FORMS

Only one imported vessel, an African red slip bowl rim, was found in the upper stony-brown infill (2013.14.1.34.). It is from a Hayes form 61b bowl, which is one of the latest types in Pannonia (second half of 4th century–first half of 5th century). The same form is attested in the upper, stony debris of room I/W. In Pannonia, in the 4th century, they tried substitute the progressively decreasing number of imported vessels using local materials. Metal, glass and terra sigillata imitations were made using new techniques and ornaments. New techniques included the glazing or burnishing of the vessels’ surface. The latest variants were decorated with incised and smoothed-in motifs. Many small workshops produced locally common everyday household pottery used for cooking and baking, on which, too, the incised and notched ornaments appear from the end of the century. It is characteristic of the period’s pottery that the same bowl and jug types are often used on grey household, glazed or smoothed variants. Painting, still common in the 3rd century, all but disappears in the 4th century. Alongside wheel-thrown pottery, from the second half of the 4th century, the importance of hand-made and slow-wheel-made vessels gradually increases.

The composition of pottery in room III/N is similar to other parts of the fort (Fig. 3.1). Most are household pottery (70%). The dominant group within these are the vessels with a gritty, hard-fired fabric (53%). The quantity of glazed vessels (11%) and pottery with smoothed surfaces (11.9%) is almost the same. Hand-made and slow-wheel-made ceramics make up 5.7%. Least frequent are the smoothed-in ornaments (1.8%).

3.1. Glazed pottery

Glazed pottery appears in nearly every layer; altogether: 115 pieces. From the fort’s construction until its destruction, its inhabitants used glazed vessels. We can make chronological observations based on their designs and ornaments. They were mostly produced in the usual, 4th century way: well-levigated, fired medium-hard or hard. The latest vessels, characteristic of the first half of the 5th century – yellowish-brown, gritty fabric, with surfaces sometimes decorated with impressed ornaments or traces of wheel – only appear in the topmost, yellowish-brown, stony and daub debris. There are altogether 28 such late fragments (24.3%). Their form, too, differs from earlier types (Fig. 3.3): bowls with a horizontal rim and shoulder carination (impression, incision), jugs with one handle (dents, notches), a jug with a collared rim, and so-called Leányfalu-type mug/pot (with trace of wheel). On their surface only a very thin, light-coloured or burnt layer of glaze can be found.

3.1.1. The colour of the glaze and the fabric

The colour of the glaze: Most common are green (28 pieces, 24.3%), dark green (21 pieces, 18.3%), and greenish-brown (16 pieces, 14%) glaze. There is an equal number of pieces with light green and yellowish-brown glaze (13 pieces, i.e. 11.3%). Of the rest there are only a few pieces: yellowish-green 1 piece, dark brown 3 pieces. There are certain colours, of which the majority are shiny, like dark brown (two out of three shiny) and greenish-brown (10 out of 16 shiny). All three yellowish-brown vessels are shiny, that is not the case with the other colours. A vessel can have glazes of different colours if the contiguous, thick glaze on the inside of the vessel is darker, while the glaze spilled on the outside is lighter, e.g. yellowish-brown on the inside, greenish-yellow on the outside (see 2013.14.15.7.). We can see such lines, spots and glaze patches on the outside of bowls, or the foot or

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[29] I would like to thank Dénes Gabler for identifying the fragment; a similarly late African red slip fragment came to light in Visegrád-Lepence (Gabler 2016, 141, Fig. 18).

[30] Ottományi 2012, table 1. (zs/5.1). In room I/W 3 African red slip bowl fragments were found in the upper, stony debris layer (zs/5., 10., 11.): a Hayes form 50 rim and wall (Type D: AD 320–380), as well as a Hayes form 61b bowl rim and a small wall fragment.

[31] Ottományi 2015a, 16, Fig. 7–8 (distribution of pottery in the south and west wing); Ottományi 2018a, Fig. 1 and 6 (courtyard); Ottományi 2018b, 4 (NW tower); Ottományi 2018c, Fig. 2 (Room IN).

[32] The one layer without glazed pottery: inner corner, room III/N, in front of its western half (2013.14.16.). Here there are relatively many early painted and neutral-coloured fragments.

[33] Of these 22 pieces are whitish-grey; their fabric is, in all cases, gritty, fired ‘ringing’ hard. The others are reddish-grey, their fabric was hard-fired, or gritty, hard-fired. Ribbing with traces of wheel appears on 3 vessels, of these only one is whitish-grey. Notches appear on 3 vessels and the same number has a wavy rim.
Fig. 3. 1: Pottery composition in room III/N (number of pieces); 2: Vessel forms of glazed pottery (percentage); 3: The quantity of 5th century vessels among glazed vessel forms
lower part of jugs. On jugs, too, the glaze does not always cover the entire surface of the vessel. In the case of glaze spots it is possible that the vessel was not glazed, the glaze spot got on the vessel when household and glazed pottery were fired together (e.g. yellowish-brown glaze spot on white band handle: 2013.14.20.26.).

There is a very large amount of secondarily burnt glaze (39 pieces); of these the colour of 19 pieces cannot be determined. Sometimes the glaze was fired after the vessel broke (the fracture is also burnt), sometimes it is black only in places, but often the glaze on the whole surface was burnt pitted and blistered.

The fabric and colour of the vessels: Most glazed vessels are well-levigated, medium-hard fired. Later pieces are hard-fired (46 pieces, 40%), half of which is gritty (23 pieces).

Reddish-grey is the most common colour (48 pieces). These include vessels fired in layers (red on the two edges, grey in the middle: 8 bowls, 3 jugs, 1 mug; or red on the outside, grey on the inside: 5 bowls, 1 jug). Often the whole vessel is grey, but on the outside (11 bowls), or inside (3 jugs), there is a thin red layer. The thin red layer can be under the glaze (2 jugs), but often precisely on the other side. And vice versa: the vessel is red, but there is a thin grey layer under the glaze (3 bowls, 3 jugs). The colour of the other vessels is red (25 pieces), grey (18 pieces), and two pieces are brownish-grey. The latest are the vessels, fired yellowish-white, of gritty fabrics (22 pieces), in the case of which either one side or the carination is grey (11 pieces), or, more rarely, pale red (4 pieces).

The relationship between glaze colour and vessel colour: yellowish-brown glaze always appears on red or reddish-grey fabrics and is connected with bowls. As glaze spot it can appear on the exterior of jugs and mugs. Light green glaze primarily appears on vessels made of fabrics fired yellowish-white (jugs, mugs) and on reddish-grey mortaria. Green glaze is the most common: it appears primarily on reddish-grey vessels, but also often on vessels made of yellowish-white and grey fabrics. Dark green glaze is typical for grey and reddish-grey jugs, less often for bowls. Greenish-brown glaze mostly appears on vessels made of reddish-grey and red fabrics, on all kinds of forms. Dark brown glaze in typical for red vessels. Burnt glaze can appear on vessels of any colour; most frequently on jugs and mugs fired yellowish-white (Table 2).

The fabric of the latest vessels is whitish-grey, whitish-red, the glaze on them is mostly burnt, light in colour, mostly light green (very thin, barely visible, sometimes only surviving in traces), see 2018.1.13.

The colour of the glaze depends on the workshop. After all, usually the basic glaze colours are produced by different kinds of firing: Oxidation firing produces yellow (yellowish-brown, yellowish-green), while reduction firing produces green (greenish-brown). This also impacts the colour of the fabric. The fabric of vessels with yellow, yellowish-brown glaze became red through oxidation firing, while the fabric of vessels with green, greenish-brown glaze, through reduction firing, is mostly grey.³⁴ Often, underneath the glaze, a thin layer, fired a different colour, can be observed. Its colour, too, depends on the method of firing; e.g. on a vessel made of a grey fabric the thin layer under the glaze is red, while on a vessel made of a red fabric it is grey.³⁵

Waster: The fragment with a melted, shiny green glaze lump stuck on the glazed foot, is perhaps a waster (2013.4.6.90.).

Table 2.
The relationship between the colours of the glaze and the fabric

| colour of the fabric | yellowish-brown glaze | light green glaze | green glaze | dark green glaze | greenish-brown glaze | brown glaze | burnt glaze |
|----------------------|-----------------------|------------------|------------|-----------------|---------------------|------------|-----------|
| grey                 | 1                     | 1                | 6          | 9               | 2                   | 3          |           |
| reddish-grey         | 3                     | 5                | 14         | 12              | 10                  | 4          |           |
| red                  | 8                     | 1                | 4          | 1               | 5                   | 2          | 4         |
| yellowish-white      | 1                     | 6                | 6          |                 |                     | 1          | 8         |

³⁴ Ototományi 1991, 14–15; Miklóssy Szöke 2008, 172 (footnote 122 with further references).

³⁵ Horváth 2011a, 606.
Vessels with a glazed surface were primarily tableware (Fig. 3.2). Most are bowls (62 pieces) and jugs (39 pieces). Mugs are significantly fewer (14 pieces). At first they imitated sigillata, metal and glass vessels with the glazed surfaces. Later on glaze came to be applied on regular household pottery forms as well, especially if they were locally produced.

Bows (62 pieces)

Half of the bowls are mortaria (30 pieces). There are far fewer bowls with a horizontal rim (9 pieces), and with an inverted rim (4 pieces); there is also a bowl with a segmented rim and conical base as well as mug with a handle. In the absence of rims, the forms of foot or wall fragments with glaze on the inside remain unclear (17 pieces).

Mortarium: a vessel typical for Roman culinary culture. Its grit-roughened interior made it suitable for grinding spices and making sauces during the first three centuries of the Roman Period. In late Roman mortaria, the glaze was applied on top of the gritty surface; its function, therefore, must have changed partially. However, if we look at the quantity of mortaria among glazed vessels, which is always the highest on all Roman sites – be they military or civilian settlements – it is likely that mortaria continued to play a significant role in dining; perhaps no longer as kitchenware, but as serving vessels.

Most mortaria are well-levigated, medium-hard fired and red, or reddish-brown (fired in layers), with greenish-brown or green glaze on the inside and rim. The rim of the earliest variant is painted, its glaze shiny yellowish-brown (2013.14.3.2.). If the fabric is grey, the glaze is green or dark green. The latest yellowish-white or greenish-brown or green glaze on the inside was classified as ‘other bowl’, while fragments with glaze on the outside were classified as ‘jug’, though the latter might also have belonged to mugs. Handles clearly belonged to jugs.

Applying glaze to household pottery came to be practised in Pannonia from the Valentian period or the last third of the 4th century. See: Tokod (LANTY 1981, 73; BONIS 1991, 135); OTTOMÁNYI 1991, 20 (Leányfalú; MIKLÓSITY SZÖKE 2008, 170–171 (Brigetio).

For references on the dating and spread of the vessel type see OTTOMÁNYI 2015a, footnote 154; CVJETIČANIN 2006, 21–29, LRG 1–8 (late 3rd century–early 5th century); HORVÁTH 2013a, 606–609, Fig. 5; BONIS 1991, 89, 123–129; At the Győr fort it is still attested in phase 1A–B of the Migration Period, during the early-5th century (TOMCA 2004, Table 2.1, Table 3.2, Table 4.2).

OTTOMÁNYI 2018a, 106 (courtyard) and there is a piece from the SW tower as well as room I/N (OTTOMÁNYI 2018c, 124).

OTTOMÁNYI 2015a, 27–28, Fig. 7.5 (segmented), Fig. 7.6, 8; OTTOMÁNYI 2015b, 710; OTTOMÁNYI 2018a, Table 4. 6; OTTOMÁNYI 1999, 338, Pl. II. 4–7; HORVÁTH 2011a, Fig. 4.1, and 5 (Keszthely-Fenékpuszta, segmented rim); GASSER 2000, 219–221, Fig. 186; ŠVAŇA 2011, Fig. 3.1a–c (Iza: after Valentian); CIGLENIČKI 1984, Fig. 3.38 (Tinje).

Cup: CVJETIČANIN 2006, 34–39, LRG 27; HORVÁTH 2011a, 609–611, Fig. 4; GROH–SIEIDLMAYR 2002, Fig. 132/669 (Hayes form 2 imitation, Mautern, 350–400/500 CE); BÖLÖI: CVJETIČANIN 2006, 51–55, LRG 71; BONIS 1991, 129–131, Fig. 9.1–7; The form is characteristic for periods 6–7 of the Mautern fort (GROH–SIEIDLMAYR 2002, 185–186, Fig. 132.802); it also lives on at highland sites in Slovenia during the 4th–6th centuries (CIGLENIČKI 1984, Fig. 3.32–34).

OTTOMÁNYI 1991, 16, Table 10, 52; BONIS 1991, Fig. 9.4; CIGLENIČKI 1984, Fig. 3.34–37 (Tinje: wavy line and impression on the rim of flat bowls. 4th–6th century).

Similar flat bowls with a smoothed exterior at the west wing and the courtyard in front of it (OTTOMÁNYI 2015a, 29, Fig. 11.5; OTTOMÁNYI 2018a, Table 4.1); Leányfalú: OTTOMÁNYI 1991, Table 12.62.
Fig. 4. Glazed bowls
A later variant is the bowl, similar to the S-profile, with shoulder carination and a conical base. It is common not only in glazed but also in household pottery form from the last third of the 4th century. There are impressions on its neck; its fabric is gritty, hard-fired (Fig. 4.5).44 The edge of three smaller cups, too, was made wavy with impressions (Fig. 4.6–8).45 Their fabric was hard-fired, gritty. Their colour is yellowish-white, and in one case red. They all have burnt glaze on the inside. These later items were found in the daub layer (2013.14.6., 14.20. and 2018.1.13.). In the same topmost daub layer there were also more traditional, earlier forms. These were also found during the excavation of the floor (2013.14.12.).

Bowl with an inverted rim (4 pieces; Fig. 4.1–2): traditional Roman bowl form (neutral-coloured, painted, grey variants), with the inside sometimes glazed in the 4th century.46 Their fabric is red, reddish-grey, well-levigated, medium-hard fired. On the inside there is light-coloured glaze (greenish-brown, light green, yellowish-green) and in one case pitted burnt glaze. It was found in the upper destruction layer 3–4.

Bowl with segmented upper part and conical base (Fig. 4.3): This type can be connected with an early Roman form, which reappears with such a steep, conical lower part only in the last third of the 4th century. It appears most frequently as smoothed or household pottery. In room III/N it was found above the mortary layer, which can be connected with the destruction debris. Based on its shiny, brown glaze and design it cannot be placed in the latest group. It can also be found in other parts of the fort.47 The closest analogies are the bowls found at the Valentinian-period watchtowers at Pilismarót-Malompatak, Leányfalu and Budakalász-Lupacsárdá.48

Cup with stabbed ornaments inkább stitched decoration (2013.14.1.10.; Fig. 10.2). A distinctive form, which already appears in the mid-4th century, is the cup with two-three handles, with a number of bands of stitched ornaments on its vertical upper part.49 The fragment of such a cup was found in the upper stony layer. Its fabric is hard-fired, yellowish-grey, its glaze light green. This type was still in use during the first half of the 5th century. Based on the Visegrád fragment’s design, it can be placed also in the later group.

Among the fragments of unidentifiable bowl forms, glazed on the inside (17 pieces), there are two foot fragments; the rest are wall fragments. Of these the fabric of 3 is whitish-yellow, gritty, hard-fired. On another fragment there are traces of wheel (2013.14.15.4.).

Jugs (39 pieces)50

Belonging to this group are the neck and wall fragments, feet (6 pieces) and band handles (4 pieces) with glaze on the outside. One of the broad, tripartite handles belonged to a large jug (2013.14.6.89.), with burnt glaze on it.51 On another there is only a glaze spot (2013.14.20.26.: its fabric white, gritty). There are few rims (3 pieces) and even fewer intact vessels (1 piece).

44CVjetićanin 2006, 34, LRG 24 (impressions on the neck), 43, LRG 42 (wavy line on the rim), 51–53, LRG 69a, 70 (S-profile); Grünewald 1979, Table 67.2; Jelinec 2015, Table 151.91 (impressions on the rim: 3rd–early 5th century).

45OTTOMÁNYI 2015a, 28–29, Fig. 11.3, 6 (notches on the rim); Ottományi 2018b NW tower (Fig. 4.2–3: notches and circular impressions); Ottományi 1999, 337, Pl. 1.9–10 (Dunabogdány); Grünewald 1979, 71, Table 67.9; Tomka 2004, Table 3.3 (Győr, phase 1B); CVjetićanin 2006, 56, LRG 75. bowl with circular impressions on the rim; Jeremic 2012, Fig. 3. Cat. no. 206., 210., 211. (Sal- dum, Valentinian period).

46OTTOMÁNYI 1991, 15, Table 1.5.8 (Leányfalu); Ottományi 1999, 336, Pl. I.1–4 (Dunabogdány); Friesinger–Kerchler 1981, Fig. 7.2; Miklösty Szőke 2008, 165, Table III.4–5 (Brigetio); Bonis 1991, 131–133, Fig. 18.2 and pottery workshop: Fig. 10.5; Horváth 2010b, 210, Fig. 94.K229 (late-3rd century–Valentinian period).

47There are a few additional, thin wall fragments, which may equally belong to jugs or mugs. I currently included them with the mugs based on their colour and design (8 pieces, probably Leány- falu-type). The form of many wall fragments glazed on the outside is uncertain (they might have been mugs as well). Based on its fabric, a red small jug fragment with white slip on the outside may have been glazed, although no glaze remained on its exterior (Fig. 6.4).

48In the south wing of the fort a conspicuously high number of such large glazed jugs with one or two handles were found (Ottományi 2015a, 30–31, Fig. 3.8, Fig. 12.1). Also found in the west wing, in the burnt, daub debris (Ottományi 2015b, Fig. 7.5, Fig. 10.2); in room I/N (Ottományi 2018c, Fig. 2.3: of yellowish-white fabric, with collared rim); In Pannonia, during the late-4th century, large glazed jugs appear in other sites as well with different rims, e.g. Budács: (Ottományi 2011, 269, Table 4.11); Tokod: Bonis 1991, 135–139, Fig. 7.1, Fig. 8.13; Moesia, Dacia: CVjetićanin 2006, 81–82, LRG 126–128 (amphora, second half of 4th century).
Fig. 5. Glazed mortaria, jugs, mugs

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Fig. 6. Glazed (1–2), smoothed-in (3) and brick-coloured (4) jugs

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**Jugs with handles and narrow necks:** Most narrow neck fragments feature one or more ribs (4 pieces). Around the neck of one run stamped circular motifs, with burnt green glaze on it (Fig. 5.5, Fig. 10.3). On the everted rim fragment (2013.14.15.6.) there is a band handle start with shiny dark brown glaze. On the upright, segmented rim there are traces of burnt glaze (2013.14.17.4.). They probably belonged to jugs with handles and narrow necks, which, with different rim variants, were widely used in the 4th century.52 The only intact vessel was found in the infill of the room’s flue.53 It probably ended up there when the flue was filled in (Fig. 6.1; Fig. 10.1). It was likely used for a long time; the green glaze on its surface is worn, its wall is punctured in one place. Its form, oval body and widening rim, is typical mostly for the second half of the 4th century, but it continues until the end of the century.54 Its position and condition indicate that it was hidden at the very end of the 4th century. Several, almost intact glazed jugs were found in this part of the fort, e.g. two in front of the NE entrance of the west wing.55

**Jug with collared rim** (2013.14.2.1.): Its fabric is yellowish-white, gritty, hard-fired, with shiny brown glaze on the inside. The form appears at the turn of the 4th and 5th centuries, usually common with smoothed-in decoration and as household pottery. In Visegrád-Gizellamajor it appears with glazed surface in several places, in the upper destruction debris (room III/N), or under the daub debris (west wing).60 It mostly appears in glazed form where it was produced locally, e.g. Leányfalu, Tokod.57

**Jug with a dented wall** (Fig. 6.2): Unique form; its profile can be nearly reconstructed from the fragments (its rim is missing). Its fabric was hard-fired, micaceous, with dark green and in places secondarily burnt glaze. Its decoration, bands of dented and notched ornaments, is typical for the time when glazed pottery stopped being used. It is from the upper daub layer. A more slender jug with a similar form and decoration was found in Leányfalu; its heavily segmented collared rim and handle start also survived (made of a gritty, porous fabric, fired greyish-black, without glaze, with incised wavy line).58 Perhaps both were made by the same potter. Dents also appear on a glazed bowl in room IIb/N of the Gizellamajor fort.59

The earlier jugs with medium-hard fired fabrics are red, reddish-grey with green, greenish-brown glaze. The later jugs, hard-fired, are dark grey with green glaze. The latest are the yellowish-white, whitish-grey collared jug rim fragment and band handle with glaze spot, as well as the thin wall fragments made of a gritty fabric, which could have belonged to a jug or equally a Leányfalu-type mug.

**Mug/pot** (14 pieces)

Belonging here are two rim fragments as well as a few wall fragments glazed on the outside.60 The traditional mug forms with an everted rim are earlier.61 They are red, with burnt, perhaps green glaze on the one (Fig. 5.6), and a yellowish-brown glaze spot on the other (Fig. 14.2). Based on its medium-hard fired fabric, it may have been originally glazed, although it is possible that the glaze spot only ended up on the household pottery mug during firing. Glazed or glaze-spotted mugs with an everted rim were also found in the south wing.62

**Leányfalu-type mugs/pots:** based on their distinctive shoulder carination, two fragments certainly belong to this type (Fig. 5.7; 2013.14.6.117.). They are reddish-grey and light grey. Other thin wall fragments, fired yellowish-grey, of a ‘ringing’ hard and gritty fabric, too, may probably be included here (10 pieces). The shoulder of one was ribbed with traces of fabric from (2013.14.20.6.). Their find-spot is the upper daub layer (2013.14.6.21–22.,
2013.14.20.3–6. and 2018.1.13.2–5.). Their glaze is light coloured, blistered by fire. In places it can be seen that glaze likely used to be light green. Only a thin layer of glaze was applied, and does not cover the whole surface. This type appears on a range of sizes from small mugs to large pots. It has many variants in the fort. It appears usually as household pottery, but in areas where it was made locally, e.g. Leányfalu, Tokod, it also has glazed variants. This type, which appeared in the last third of the 4th century, remains common until the mid-5th century.65

**New vessels forms at the turn of the 4th and 5th centuries**

If we look at the latest, early-5th century vessel forms, it is not the number of items that counts, but the ratio within the given forms (Fig. 3.3). Most common are the thin-walled, probably Leányfalu-type vessels (85.7% of mugs), which indicates that mugs were rarely glazed earlier. The other form, where half of all pieces are late vessels, is the bowl with a horizontal rim. Here, too, is a new type with a conical base and shoulder carination, which only appears on the latest vessels. 4 pieces might be jugs. Two were fired white, with a gritty fabric (collared rim, glaze-spotted handle); the other two were placed in the late group due to their decoration (stamped wall and dented wall with impressions). These two were secondarily fired, with reddish-grey layers. Indicating the long life of mortaria is that these vessels, which appeared the earliest, were still in demand in the first half of the 5th century. At the same time, this also indicates ethnicity: a part of those who used glazed vessels continued to maintain Roman eating habits even in the 5th century.

### 3.1.3. Decoration

The earliest ornament on glazed pottery is stitched decoration (on a cup with three handles), which appeared already during the middle third of the 4th century. The plastic ornaments are all later: impressions (on jug shoulder: Fig. 10.2; on the rim of horizontal bowls), wavy rims (on bowls with a horizontal rim), as well as incised wavy lines (on horizontal bowl rims). These are more characteristic of the second half of the century and live on also during the first half of the 5th century.66 Jugs with dented walls, decorated with notches, however, belongs to the latest, 5th century group (although its fabric is not fired white). Stamped ornaments are much rarer. There is such a jug neck in room III/N: circular stamped motifs (with an x in their middle) can be seen on a narrow-necked jug with burnt green glaze (Fig. 5.5). The other stamped vessel decorated with rosettes in the north wing is yellowish-brick-coloured, unglazed.67 As an analogy we can mention the stamped household pottery from the Tokod fort, the origin of which the author traces to the African red slip bowls arriving from the Mediterranean.68 There simple, circular stamp-marks can also be observed on glazed pottery, the handle of a so-called snake-vessel.69 Stamped rosettes are also attested in the Barbaricum, not on glazed, but on household pottery (e.g. in the Upper Tisza region), or on surfaces smoothed shiny.70 It is therefore unlikely the custom came from there.

The strong traces of wheel, which can be observed on the shoulder and belly of Leányfalu type mugs and the upper part of a bowl, can be considered also as decoration (3 pieces).71 It can be traced from the turn of the 4th and 5th centuries until the mid-5th century.72

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63 It is also called Tokod pottery. Not only this form, but also the vessels, fired ‘ringing’ hard, of a very gritty fabric, too, are placed in this category. LÁNYI 1981, 75, Type I, Fig. 1–2; OTTÓMÁNYI 1991, 20, Table 28–32. 39b, 42, 50a, 60, 63. Typ. Some only have a glaze spot.
64 West wing, daub, mortary debris layer: OTTÓMÁNYI 2015b, 714, Fig. 11.1.
65 CVJETIĆANIN 2006, 93–94, LRG 170 (5th–6th century).
66 LÁNYI 1981, 82, Fig. 24.
67 OTTÓMÁNYI 2015a, 31–32 (with further analogies); ŠVAŇA 2011, 245, Fig. 4a–b (Iza: after Valentinian–early-5th century).
68 LÁNYI 1991, 141, Fig. 12.7; GRÜNEWALD 1979, 69, Table 102.2 (late 3rd – late 4th century).
69 GINDELE–ISTVÁNOVITS 2009, Table 81.1 (5th phase of pottery: mid-3rd–4th century); POLLAK 1980, Table 29.2 (Kleinesiedlendorf: polished surface, 4th century)
70 The fabric of the bowl fragment decorated with traces of wheel is not late (medium-well levigated, with yellowish-brown glaze: 2013.14.15.4.)
71 E.g. south wing (OTTÓMÁNYI 2015a, 32, Fig. 3.8, Fig. 12.1). For more details see the section on household pottery!
3.2. Pottery with smoothed-in decoration

We can find smoothed-in decoration on 19 fragments altogether. The shiny, smoothed-in pattern which appears on the matt surface is what makes these vessels ornamental pottery. All are serving bowls; the larger ones may have been also used for storage. Their material, finely-shaped and well-levigated, was not suitable for cooking vessels.

3.2.1. Smoothed-in decoration method, colour and fabric

With one exception, smoothed-in decorations are all shiny. Sometimes in the case of a single vessel, the smoothed-in decoration is shiny on one fragment, while it is worn and barely visible on the other (e.g. Fig. 9.4). Usually, the smoothed-in decoration matches the colour of the fabric; only in 3 cases is it darker (Fig. 6.3; Fig. 7.9). One of these decorations is shiny black on a dark grey jug (Fig. 8.1). Another fragment of the same jug is brownish-grey with a darker smoothed-in decoration, though not fired black. The colour and the smoothed-in decoration’s shine, therefore, depends not only the surface treatment but also on the firing method.73 The pattern consists mostly of thick lines (7 pieces: vertical bands, wavy line, lattice pattern), only in the case of two jugs with lattice pattern, one jug with diagonal lines, as well as a biconical bowl does the smoothed-in pattern consist of thin lines (Fig. 6.3; Fig. 7.8; Fig. 8.2–3). These are the products of different potters who used different tools for the smoothed-in decoration.

The colour of the fragments is usually grey (15 pieces). There is also a light brown, a reddish-brown and two dark red fragments. Some of the red fragments were fired grey in places (Fig. 6.3). Their fabric is well-levigated, half were medium-hard fired, one was soft-fired (reddish-brown jug: Fig. 9.4). The other half of the vessels were hard-fired (9 pieces), which, with two exceptions, are grey.74 One of them is a fragment with a gritty fabric (2013.14.9.6.: smoothed-in with diagonal bands).

There are no waster fragments in the north wing.

3.2.2. Pattern

The composition of the patterns is varied; no one motif dominates. Most common is the vertical line/band, followed by lattice pattern and wavy line. There are no unique motifs; although the pattern on the shoulder of a jug is difficult to interpret due to its fragmentary nature.

Vertical line/band: Most common is the vertical line or band (12 pieces). On two fragments we can observe wider bands; on the inside of two bowls and on the neck of a jug, the dense vertical smoothed-in ornaments form an almost contiguous surface (2013.14.13.23.; Fig. 7.3; Fig. 9.2).75 Sometimes the vertical lines appear on a vessel on their own, e.g. on the neck of a biconical bowl (Fig. 7.8). When they decorate the neck of a jug, probably there once was another pattern below, even if it has not survived (Fig. 9.2; 2013.14.1.39.; 2013.14.3.29.). Frequently they are combined with a wavy line (e.g. belly of a biconical bowl: Fig. 7.9; neck of a jug: Fig. 8.1) or lattice pattern (Fig. 9.3–5).

Diagonal lines appear on the neck of a jug (Fig. 8.2) and diagonal bands appear on the shoulder of three other jugs (2013.14.9.6; Fig. 8.3; Fig. 9.3).

Lattice pattern: 6 instances. Sometimes on its own (Fig. 6.3; Fig. 8.4), however, mostly combined with other motifs (usually vertical lines) (Fig. 8.3; Fig. 9.3–5). They most frequently appear on jug necks.

Wavy line motif appears on the belly of a biconical bowl and the shoulder of a jug, in both cases in a band, below or above a vertical line. The wavy line motif on the jug follows a regular, zigzag-like pattern (Fig. 8.1). On the other vessel features an irregular double-wave motif.

73 MASEK 2011, 253–254.
74 The exceptions being a red jug with grey spots (Fig. 6.3) and a light brown, biconical bowl (Fig. 7.9).
75 There are neck fragments, where the vertical smoothed-in ornaments are wholly contiguous (e.g. 2018.1.13.21.); these I discuss in the section on smoothed vessels. On the inside of bowls, smoothed-in vertical lines are usually rare (they are mostly horizontal). For the analogies see the section on vessel forms.
Fig. 7. Smoothed and smoothed-in bowls

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Fig. 8. Jugs with smoothed-in decoration

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Fig. 9. Smoothed and smoothed-in jugs, mugs

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As part of a *Murga-type motif* a vertical wavy line can be seen on the neck of a pitcher (Fig. 9.4.). The pattern on the jug neck of Fig. 9.3 (standing wave, triangle filled with diagonal lines?, with a lattice pattern below) is unclear.

Sometimes the ornaments are arranged in bands (around 3 pieces). We find these mostly on the shoulders of biconical bowls and jugs. More commonly, the various parts of the vessel (neck, shoulder, belly) are decorated using different patterns, separated by a protruding shoulder or a groove. On smaller fragments the pattern of the ornaments is unclear (e.g. 2013.14.1.40.). Handles were smoothed vertically (this is surface smoothing rather than smoothed-in decoration). See Fig. 8.3; Fig. 9.3. Under the handles the smoothed-in decoration usually breaks. The belly and lower half of the vessels are, in all cases, covered by contiguous, horizontal smoothing. The body of two large jugs, below the smoothed-in ornament, is decorated with flat ribs (traces of wheel), the surface of which was smoothed horizontally (Fig. 6.3; Fig. 9.4). On the vessels incised patterns do not appear, only incised/sunken dividing lines between the smoothed-in bands. On the bowl with horizontal rim, vertically smoothed-in on the inside, the rim on the outside was fashioned wavy-shaped using impressions, just like on similar-shaped glazed bowls in this late period.

### 3.2.3. Form

**Bowl** (4 pieces)

Two are Roman forms, two are new, 5th century types. The two forms with Roman roots are covered on the inside almost continguously by vertical bands.76 One of them is a deep bowl with an inverted rim (2013.14.13.23.). This form was characteristic of late Celtic, 1st century vessels. It reappears from the second half of the 4th century in glazed (Fig. 4.1), smoothed or smoothed-in versions.77 It was found during the removal of the stone debris.

The horizontally rimmed vessel of the other bowl was fashioned wavy-shaped. Its surface is covered by smoothed bands: horizontal on the outside, vertical on the inside (Fig. 7.3). It comes from the upper, stony, brown layer. Its form can be observed on glazed vessels from the second half of the 4th century, though its origins can be traced to the African red slip types.78 A glazed bowl with a similar form, with smoothed bands on the outside, was found in the upper daub layer of room III/N and the gravelly layer of the foreground of room IV/S (Fig. 4.4). At the Leányfalu watchtower, this form was manufactured with a rim with a smoothed-in wavy line.79 At the Balatonalmádi kiln it was produced smoothed on the inside, with a wavy rim during the final third of the 4th century.80

New types are the two biconical bowls. Both come from the upper daub layer. One of them is more spherical, with vertical lines on its shoulder (Fig. 7.8).81 The belly of the other is sharply carinated, with two bands of smoothed-in motifs on the shoulder (wavy line and vertical lines) (Fig. 7.9). Its form appears already at the turn of the 4th and 5th centuries, becoming widespread during the middle, second half of the 5th century (it even lives on in Lombard/Gepid pottery). The smoothed-in wavy line motif is most prevalent in Moravian territory.82 Many varieties of biconical bowls with smoothed-in decorations have been found at Gizellamajor. There are no two identical types among them.83 In the Danube Bend several workshops produced them locally at the turn of the 4th and 5th centuries. In Pilismarót-Malompatak they featured ornaments organised into bands, in Leányfalu they featured lattice motifs.84 None of them resemble the vessels of room III/N.

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76 They could belong to the smoothed vessels, but the vertical lines/bands are clearly separate from each other.

77 In the south wing: OTTOMÁNYI 2015a, Fig. 4.1, Fig. 8.1, Fig. 13.1 (smoothed), Fig. 8.3 (smoothed-in with vertical lines); at forts along the Limes in many places e.g. Carnuntum, Mautern, Boiotro, Klosterneuburg etc. Dated to the turn of the 4th and 5th centuries: FRIESENGR–KERCHLER 1981, Fig. 3.5, 13, Fig. 27.5; GRUNEWALD 1979, Table. 71.2–3 (Fabr. B); GASSNER 2000, 237, Fig. 198; ÜNLÜ 1986, Fig. 20; GROH–SIEDEMAYER 2002, 235–236, Fig. 144, 728, 1180 (4th/5th century); GROH–SIEDEMAYER 2013, 504, Fig. 8 (period 5). 78 GROH–SIEDEMAYER 2002, 184 (Hayes form 69) FRIESENGR–KERCHLER 1981, Fig. 9.5 (Mautern). 79 OTTOMÁNYI 1991, Table 12.62 (glazed, with smoothed surface on the outside: Table 12.63; household pottery: Table 12.64). 80 PALAGYI 2004, 54, Fig. 19.11. (along with similarly-shaped glazed bowls).

81 Similar decorations on biconical vessels e.g. Wien-Aspern (FRIESENGR–KERCHLER 1981, Fig. 26.4); TEIRAL 1985, Fig. 18.5 (Lovčíčky).

82 TOMKA 2004, Table 3.9 (Győr, Migration Period phase 1B); FRIESENGR–KERCHLER 1981, 261–263, Fig. 42–43 (Lower Austria: lattice pattern); TEIRAL 1985, Fig. 17.2–3 (Mackovice, Vyskov: wavy line); etc.

83 South wing (OTTOMÁNYI 2015a, Fig. 14.7, Fig. 16.9); west wing (OTTOMÁNYI 2015b, Fig. 12.1–2, Fig. 14.1); south courtyard (OTTOMÁNYI 2018a, 108, Table 6.2–3); On the Sibrik hill (Visegrád), in a pit dug at the Roman fort, there was a biconical bowl fragment decorated with a smoothed-in lattice motif (SOPRONI 1985, 63, Table 12.2).

84 OTTOMÁNYI 1996, 85, Fig. 5.29 (Pilismarót-Malompatak); OTTOMÁNYI 1991, Table 3.16,19, Table 4, Table 5.18 (Leányfalu).
These biconical bowls constitute foreign forms among late Roman pottery. Although they do have Celtic antecedents, as do the techniques used for the smoothed-in decorations, they cannot be directly linked. The form reached the Danube from the east, probably from the Chernyakhov culture during the early-5th century. Here a local, Danubian variant developed, which is common in both late Roman and Germanic territories; even the 6th century vessels are considered to have been derived from these Danubian archetypes. In Pannonia, Roman workshops continued to manufacture them even during the mid-5th century (e.g. at Szombathely).

**Jugs (13 pieces)**

Most fragments belong to jugs. They are usually neck and shoulder fragments (Fig. 8). Rims have only been found for two large jugs. One of these is a jug with an everted rim and a wide mouth (from the daub layer). Its shoulder is slightly protruding, above and below it is a smoothed-in motif band (Fig. 9.4). Its fabric is soft, reddish-grey. Its belly shows traces of wheel. Its neck features a Murga-type motif. This motif is characteristic usually of jugs with a collared rim from the early-5th century onwards. It is rare on pitchers with an everted rim. This type has a band handle, which starts at the rim; in this case, however it did not survive. The form is attested from the early Roman Period until the mid-5th century, mostly with vertical lines or bands on the neck, but there are also variants with smoothed-in decorations.

The other jug rim is a funnel-like, everted rim. Starting at the rim is a band handle with a knob, imitating glass jugs (Fig. 9.3). Due to its fragmentary state, the motif is unclear (on its shoulder a lattice, above it a wavy line or a triangle filled with diagonal lines?). It was found during the removal of the stone debris. Jugs with funnel-like everted rims with similar handles comprise one of the most characteristic types of smoothed-in vessels at the turn of the 4th and 5th centuries and the first half of the 5th century (their neck is ribbed).

The rim of a ribbed fragment with a neck tapering upwards is missing. It could have had a funnel-like or a collared rim (Fig. 8.1). Based on its black smoothing, it belongs to the latest group. This vessel is the clearest proof that the material of the upper debris cannot be treated separately from the debris underneath, as some of the jug’s fragments were found in the upper debris of room II/N above and below the mortary floor.

With the exception of the rim, the whole form of a large jug with lattice motifs survived (Fig. 6.3). Its surface, decorated with traces of wheel, and its fabric – similar to household pottery, thin-walled, hard-fired – place it in the latest group (although it was found in the lower debris). An almost intact vessel with a similar form and decoration was found in the daub debris of the north wing and the debris above the lower floor of room I west.

The aforementioned form, which appears at the turn of the 4th and 5th centuries, is attested even during the mid-5th century in 2nd–3rd century Sarmatian pottery (OTTOMÁNYI 1982, 80; VADAY 1989, 141–143; MASEK 2013, 245).

OTTOMÁNYI 2011, Table VII–VIII. Type 9a–d (usually vertical lines on the neck, lattice pattern on the shoulder and belly); OTTOMÁNYI–SOSZTARTS 1998, 166, Table VII.7 (mid-5th century); FRIEßINGER–KERCHLER 1981, Fig. 24–25,57; STADLER et al. 2008, 160 (Mödling; prior to 405–420); TEEREL 1988, Fig. 14.6, Fig. 18.19, Fig. 24.6. etc. (horizon D1–D2).

A jug neck from room III/S has the same decoration (wavy line under vertical band). See OTTOMÁNYI 2015a, Fig. 14.5; AMONG Keszthely-Fenékpusza pottery, fragments of jugs with a collared rim have a similar decoration (HORVÁTH 2011a, 631–633, Fig. 19 (with further references); MASEK 2011, 260–261; BOCS 2011, 112–113, Fig. 1.1 (Zamárdi); TEEREL 1985, 130–132, Fig. 24; FRIEßINGER–KERCHLER 1981, 262–263 (Temitz); QUAST 2008, 278, Fig. 12.1.3 (Runde Berg, pottery group 6.); HEGEWISCH 2011, Fig. 23–24 (Germania, 4th–6th century: not smoothed-in).

OTTOMÁNYI–SOSZTARTS 1998, 160–163, Table IV.6, Table. V.1–5, Table. VI.6–9, Map I (map of its spread)

Murga-type motif on the neck of a jug with collared rim from the west wing (OTTOMÁNYI 2015a, 42, Fig. 14.10); TEEREL 1985, Fig. 14.2–3, Fig. 15.1; TEEREL 1988, Fig. 27.12 (Kistokaj); Fig. 29.6 (Murga). Fig. 44.4 (Smolina); BIEBBAUER 2015, Fig. 29.11 (Košeč); MASEK 2013, Fig. 5.1 (Kórosladány); MASEK 2018, 139–140 (at Rákócziúfa in horizon 1 of the settlement: on the jug’s shoulder, in horizon 3: on the jug’s neck).

In the Migration Period phase 1B of the Győr fort there is a similarly-decorated neck of a mug or jug with an everted rim (TOMKA 2004, Table 5.3; DUNABOGDÁNY, fort reduction (OTTOMÁNYI 1999, Pl. VI.7); TEEREL 1988, Fig. 46.5 (Levice); Antecedents of the pattern appear in Pannonia during the early Roman Period as well as in 2nd–3rd century Sarmatian pottery (OTTOMÁNYI 1982, 80; VADAY 1989, 141–143; MASEK 2013, 245).

OTTOMÁNYI 2011, Table VI.4–4a (Szentendre, Bia, Interiica, Fenékpusza, Nagykanizsa, Pécs); OTTOMÁNYI 1999, 346, Pl. VII.8; TOMKA 2004, Table. 4.6. Table 8.3 (Győr, Migration Period phase 1B and phase 3 of the fort).

OTTOMÁNYI 1998, 62 (Hernádvécse, Hun period); HORVÁTH 2011a, 631–633, Fig. 19 (with further references); MASEK 2011, 260–261; BOCS 2011, 112–113, Fig. 1.1 (Zamárdi); TEEREL 1985, 130–132, Fig. 24; FRIEßINGER–KERCHLER 1981, 262–263 (Temitz); QUAST 2008, 278, Fig. 12.1.3 (Runde Berg, pottery group 6.); HEGEWISCH 2011, Fig. 23–24 (Germania, 4th–6th century: not smoothed-in).
smoothed-in fragments in room III/N cannot be differentiated. "Murga pottery" with shiny, black smoothing is usu-
jug with the Murga-type motif come from the upper daub layer. The above indicates that, based on layers, the
foreground of the northern gate, so possibly also from room IIb/N and not room III/N). The biconical bowl and the
from room III/N is without a layer). The jug with lattice pattern, however, comes from the lower debris (western
(Fig. 7.9) In terms of layers, the fragments of the
cases by horizontal smoothing. The four abovementioned late fragments belonged to jugs. Based on its form, a
another soft-fired jug, decorated with a Murga-type motif
(Fig. 9.4) The traces of wheel were emphasised in both
cases by horizontal smoothing. The four abovementioned late fragments belonged to jugs. Based on its form, a
biconical bowl with a strongly carinated belly also belongs here (Fig. 7.9). In terms of layers, the fragments of the
jug with black smoothing were found in room IIb/N below and above the mortary layer, as well as the upper stone and daub debris.
Based on their design, the latest (Group 3) are those smoothed-in vessels with a shiny black smoothed-in
decoration (1 piece: Fig. 8.1), or with a gritty fabric (1 wall fragment), and perhaps a thin-walled vessel fired ‘ring-
ing’ hard (1 piece: Fig. 6.3). The body of the third vessel is decorated with traces of wheel, just like the belly of
another soft-fired jug, decorated with a Murga-type motif (Fig. 9.4). The traces of wheel were emphasised in both
cases by horizontal smoothing. The four abovementioned late fragments belonged to jugs. Based on its form, a
biconical bowl with a strongly carinated belly also belongs here (Fig. 7.9). In terms of layers, the fragments of the
jug with black smoothing were found in room IIb/N below and above the mortary layer as well as in the upper de-
bris; it therefore comes from either the infill or the destruction debris after the room was no longer used (its fragment
from room III/N is without a layer). The jug with lattice pattern, however, comes from the lower debris (western
foreground of the northern gate, so possibly also from room IIb/N and not room III/N). The biconical bowl and the
jug with the Murga-type motif come from the upper daub layer. The above indicates that, based on layers, the
smoothed-in fragments in room III/N cannot be differentiated. "Murga pottery" with shiny, black smoothing is usu-
ally dated to between the first half and the final third of the 5th century in the Middle Danube region (its heyday is

3.2.4. Layers and groups

Smoothed-in decoration itself constitutes a new type of ornament on late Roman pottery. In its earliest
group characteristic are the unframed horizontal, vertical or wavy smoothed-in ornaments (lattice pattern is rare at
this stage). They are grey, well-surfaced.96 Based on their form and pattern perhaps the two bowls smoothed-in on
the inside, although both are from the topmost, stone debris and other, later, smoothed-in fragments were also found
alongside them. Below the vertical smoothed-in decoration of the neck fragments there could have been all kinds of
other patterns. Hence they cannot be placed in a group according to this. The same applies to two jug shoulder
fragments with diagonal lines. One of these (Fig. 8.2) is, based on the layer (from the excavation of the upper floor),
perhaps earlier than the other vessels from the destruction debris. Their fabric, however, was hard-fired, and the
fabric of one is gritty (2013.14.9.6.). Based on the above, we can place perhaps two or three fragments into this
Group 1, but not with certainty. At Gizellamajor they can be dated to the Valentinian period – final third of the 4th
century.97

In Group 2 of smoothed-in pottery belong the vessels with framed ornaments or ornaments organised into
bands. There are still many Roman forms (jugs, mugs), but new types, too, already appear (jug with collared rim,
biconical bowl). High quality, grey; but there are many hard-fired wares among them. They date to the turn of the 4th
and 5th centuries and the first third of the 5th century.98 Most fragments can be placed in this group. They were
found in the layer with the stone mortar, above the mortary layer, as well as the upper stone and daub debris.
Based on their design, the latest (Group 3) are those smoothed-in vessels with a shiny black smoothed-in
decoration (1 piece: Fig. 8.1), or with a gritty fabric (1 wall fragment), and perhaps a thin-walled vessel fired ‘ring-
ing’ hard (1 piece: Fig. 6.3). The body of the third vessel is decorated with traces of wheel, just like the belly of
another soft-fired jug, decorated with a Murga-type motif (Fig. 9.4). The traces of wheel were emphasised in both
cases by horizontal smoothing. The four abovementioned late fragments belonged to jugs. Based on its form, a
biconical bowl with a strongly carinated belly also belongs here (Fig. 7.9). In terms of layers, the fragments of the
jug with black smoothing were found in room IIb/N below and above the mortary floor as well as in the upper de-
bris; it therefore comes from either the infill or the destruction debris after the room was no longer used (its fragment
from room III/N is without a layer). The jug with lattice pattern, however, comes from the lower debris (western
foreground of the northern gate, so possibly also from room IIb/N and not room III/N). The biconical bowl and the
jug with the Murga-type motif come from the upper daub layer. The above indicates that, based on layers, the
smoothed-in fragments in room III/N cannot be differentiated. “Murga pottery” with shiny, black smoothing is usu-
ally dated to between the first half and the final third of the 5th century in the Middle Danube region (its heyday is

94 In Leánpalu with a lattice pattern and traces of wheel, without a rim (Ottományi 1991, Table 39.1).
95 E.g. in Acs-Vaspuzta with incised wavy line, in a 5th century refuse pit (Ottományi 1989, Fig. 122.19);
96 For more details on the classification of pottery see Ottományi 1991, 36–37; Ottományi 2009, 430–434; Tóth 2005, 380–385. The classification of vessels into these groups is not always
equivocal. Sometimes at the same site vessels from all three groups are found.
97 Tóth 2005, 380: dates the first group to the middle third of the 4th century onwards, connecting it with the Carpi. The date
when this pottery type appeared likely differed by regions, e.g. at Tokod, near Visegrád, smoothed-in pottery (2 pieces) was found in the topmost debris layer of the pottery workshop’s buildings, by the
fort. It does not yet appear in either the foundations (under Constantii II) or the burnt layer (Valentinian period), even though these
contain large numbers of glazed and gritty household pottery (Kélemen 2012, 82).
98 According to Endre Tóth this second group dates to after
430 and was spread in the borderlands by our eastern neighbours, the
Sarmatians (Tóth 2005, 380–385). But then it cannot be explained
why they keep on being produced at Roman period Limes forts, which
in Valeria were destroyed for the most part in the 430s. This group is
often referred to as “Föderatenkeramik”, which is dated by Austrian
researchers to the final third of the 4th century–first half of the 5th
century; this was modified by new C14 analyses to prior to 390/405–
410/420 (Stadler et al. 2008, 159–160, Fig. 2–3, Table 3: Unter-
lanzeendorf, Mödling).

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Fig. 10. Glazed (1–3) and smoothed-in pottery (4–6). 1: 2013.14.7.1.; 2: 2013.14.1.10–11.; 3: 2013.14.1.9.; 4: 2013.14.22.5.; 5: 2013.14.6.52.; 6: 2013.14.23.1.

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the middle third of the century). Vessels of Group 2 and 3, i.e. grey vessels and pottery fired black, can often be found side by side on the same site, sometimes even the forms are similar.

The varied motifs and forms of the smoothed-in vessels of room III/N indicate that most were in use before the actual Hun period, since the preponderance of biconical bowls with lattice pattern, characteristic of the mid-5th century, cannot yet be observed here.

If smoothed-in vessels are missing from a layer that is likely a coincidence, since the whole room itself was created during the remodelling in the Valentinian period. There is no such material connected with the layer dating to the remodelling. There was no smoothed-in pottery either next to the glazed jar and the jewellery found in the lower heating flue; the bone comb found there, however, dates the layer to the turn of the 4th and 5th centuries. Similarly-aged might be the – in terms of stratigraphy – earliest smoothed-in jug fragment from the excavation of the (upper?) floor (Fig. 8.2) and the layer with the stone mortar (Fig. 8.3). The vessel from the lower debris, as we have seen above, based on its fabric and design can be placed in the latest group. The other vessels are later, from the upper daub layer and the mixed debris or infill. Along with them appears glazed pottery in all layers; hence, based on this either, it is not possible to distinguish a later group.

The use of pottery with smoothed-in decoration indicates a foreign, eastern influence on late Roman pottery. Its connection with a specific ethnic group and its closer dating is still debated. Based on its forms, motifs, and design it can be divided into at least two, but more likely three groups. It came to Pannonia in several waves and through the influence of several ethnic groups, and there, blending with local forms, it was also produced by local workshops from the Valentinian period until the mid-5th century.

3.3. Pottery with a smoothed surface

Smoothing the surface of vessels – following early Roman precedents – reappears during the early-4th century in Pannonia. Initially, it is used on traditional Roman forms, then at the turn of the 4th and 5th centuries new types appear, sometimes with darker, shiny, black smoothing. In room III/N altogether 124 pieces of pottery with a smoothed surface were found, of which a quarter (31 pieces) could be connected with a vessel form.

3.3.1. Smoothing: method, colour and fabric

The smoothing is usually shiny, matches the colour of the fabric. Only 14 fragments have a darker smoothing, of these four are shiny, black (Fig. 7.4. and 6; 2013.14.15.8.: lower half of a biconical bowl; 2013.14.5.12.: outcurved rim). The latter are the latest based on both the design and the biconical vessel form (bowl form with a conical base).

There is contiguous smoothing, covering the whole surface on half of the fragments (c. 60 pieces). The other half is horizontally smoothed (36 pieces), on which the bands (13 pieces) or lines (2 pieces) sometimes separate the surface. The gritty and ribbed surface also appears on household pottery at the turn of the 4th and 5th centuries. The jug with a neck decorated with a Murga-type motif is a traditional, Roman form. Along with the sharply carinated biconical bowl, in the same daub layer, was also a more spherical biconical bowl with diagonal lines. In this case both may belong to the latest period.

Mid-5th century pottery workshop: Szombathely (Ottomány-Sósztárits 1998, Table V–VI); late-5th century pottery workshop: Ternitz (Feiessler-Kirchler 1981, Fig. 33–41).

There are no smoothed-in vessels in pottery groups Ia-b and Ib, which, however belonged to layers 2/3–4 of the fort (see Table 1). If there is no smoothed-in pottery in groups Ia or Ib there is a late smoothed vessel (2013.14.15., and 19.).

Smoothed-in pottery appears without glazed vessels until the 6th century in already abandoned Roman forts and Barbarian settlements e.g. Arrabona phase 2–3, Szabadbattyán, Ordcsahi, Zamárdi (Tomka 2004; Bocsi 2011).

For more details see Ottomány 2015a, 39–46; Horváth 2011a, 625–630; Conrad 2007, 234–236 (Iatrus: blending of Roman, Germanic, Sarmatian and Dacian forms); Tóth 2005, 375–382; Gassner 2000, 236–244.

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Fig. 11. Smoothed (1) and household pottery (2–6). 1: 2013.14.19.4.; 2: 2013.14.1.17.; 3: 2013.14.6.103.; 4: 2018.1.13.23.; 5: 2013.14.6.49.; 6: from the floor, room III/N (1993)
LATE ROMAN POTTERY FROM ROOM III/N AT THE VISEGRÁD-GIZELLAMAJOR FORT

Otto Mányi

3.3.2. Forms

_Bowl_ (13 pieces)¹⁰⁶

There were bowls with an inverted rim (4 pieces), bowls with a segmented upper part, with a carinated shoulder and a conical base (3 pieces) and biconical bowls (5 pieces) made with a smoothed surface. On bowls with a horizontal rim in one case do we find smoothed bands on the outside; the inside of this bowl is glazed (Fig. 4.4). Bowls glazed on the inside, smoothed on the outside, with an inverted or horizontal rim are also found elsewhere in the Gizellamajor fort.¹⁰⁷

The rim of the bowls with an inverted rim is swollen, straight cut or sharply undercut. Their lower half is mostly conical. The rims of two are grooved. The piercing under the rim is probably due to later repair (wiring) (Fig. 7.1). Among cover bowls the brick-coloured bowl from the daub debris, with two encircling grooves outside under the rim represents a rare form (Fig. 7.2; Fig. 11.1).¹⁰⁸ The bowl form is attested during the four centuries of the Roman Period. Its rim, form and design change during the various phases.¹⁰⁹ In Visegrád, it can be found in all wings of the fort, with different rims, with both deeper and flatter variants.¹¹⁰

The bowl type with a segmented upper part (swollen rim) and carinated shoulder appears in both glazed and household pottery during the late Roman Period. One fragment is smoothed shiny, black on the outside (lighter smoothing on the inside). The other is hard-fired, with a gravelly fabric, reminiscent of household pottery (Fig. 7.4–5). The third fragment was pierced below the rim (2013.14.1.30.). All come from the upper stony brown layer. One of them matches the material of the infill above the upper floor in room II/N. Similar forms, both smaller and larger, were also found in room I/N and the west and south wings, in layers 2–4.¹¹¹ In the Danube bend it appears in several watch-

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¹⁰⁵ In recent years Zsófia Masek has been studying the polished surfaces and ornaments on Sarmatian smoothed and smoothed-in pottery created by various pottery techniques (polish by e.g. lathe, wooden knife, gravel etc.). Horizontal smoothing was done usually with a potter’s wheel, while vertical smoothing and smoothed-in decoration was always by hand, without a wheel (MASEK 2018, 61–72).

¹⁰⁶ There are two other bowls horizontally smoothed-in on the outside and with dense vertical smoothed-in decoration on the inside (with inverted rim and horizontal rim), which I describe in the section on smoothed-in vessels. For more on the bowl glazed on the inside and smoothed on the outside see the section on glazed pottery.

¹⁰⁷ Three in the NW tower, of these two have an inverted rim (OTTOMÁNYI 2018b, 135, Fig. 3.7, Fig. 4.4–5). For the analogies of the bowls with a horizontal rim see the section on glazed bowls.

¹⁰⁸ A similar, but smaller bowl was found in room III/S (OTTOMÁNYI 2015a, Fig. 13.3); Carnuntum: GRÜNEWALD 1979, 75, Table 75.1–2.

¹⁰⁹ Produced with a smoothed surface at the turn of the 4th and 5th centuries e.g. at the Mautern kiln (FREISINGER–KERCHEL 1981, Fig. 2.8–9, Fig. 3.4,13. Same kiln, glazed variant: Fig. 7.2); Leányfalu workshop: OTTOMÁNYI 1991, Table 1.2, Table 2.9a (smoothed); Table 1.5,6,7 (glazed), Table 1.4,5a, Table 2.9,10 (household pottery); Dunabogdány, fort limitation material: OTTOMÁNYI 1999, 343, PL V.1–3; HORVÁTH 2016, 64, Fig. 8; JELINČIĆ 2015, Table 156 (1st–4th century).

¹¹⁰ OTTOMÁNYI 2015a, 36–37, Fig. 4.1.3, Fig. 8.1, Fig. 13.1–3; OTTOMÁNYI 2015b, 718, Fig. 11.2.

¹¹¹ OTTOMÁNYI 2018a, 109, Table 7.2; OTTOMÁNYI 2018c, 124, Fig. 3.1; OTTOMÁNYI 2015b, Fig. 11.2 (above the lower floor); OTTOMÁNYI 2015a, 37, Fig. 4.2,4 (from the upper debris layer, with further analogies).
towers and forts.\textsuperscript{112} It was one of the main bowl forms produced by the Mautern kiln at the turn of the 4\textsuperscript{th} and 5\textsuperscript{th} centuries.\textsuperscript{113}

Biconical bowl: 5 pieces, of these three are smoothed black, shiny. These include a biconical vessel with tall, ribbed neck (\textit{Fig. 7.6}),\textsuperscript{114} as well as a base fragment (2013.14.5.12.). The latter’s reddish-brown colour, dark-grey on the outside, and its fabric, hard-fired, resemble fragment 2013.14.4.21. (it is possible that the materials from the two layers belong together: above the clayey brown level and the dark brown above the clay surface). An out-curved rim fragment, also smoothed shiny and black, probably also belongs to such a type (2013.14.15.8.). This biconical form, therefore, based on both its design and non-Roman form, can be placed in the latest, 5\textsuperscript{th} century pottery group. Two further, flatter biconical bowl fragments with less everted rims were smoothed horizontally and medium-hard fired (\textit{Fig. 7.7, 2013.14.19.12.}).\textsuperscript{115} In terms of layers, they come from the topmost daub, mortary debris, from the infill above the upper floor, though one piece was also found in the daub debris above the lower floor. The biconical form is attested in all wings in the Gizellamajor fort, often with the same surface, smoothed black and shiny.\textsuperscript{116}

\textit{Jug}

Around 13 pieces can be placed in the group. Two rims, jug necks (\textit{Fig. 9.1}) and handles (5 pieces). The everted small rims may be connected with pitchers with a wider mouth or jugs with a narrower neck, though they might have also belonged to mugs (2013.14.20.19.; 2018.1.13.21.). The smoothing on the neck is usually vertical, while on belly fragments it is horizontal. On the lower half of the smoothed-in jugs, too, we can observe horizontal smoothing (e.g. 2013.14.1.40. + 41.). On the outside, the band handles were smoothed vertically or contiguously; one of them belonged to a large jug (2013.14.1.6.).\textsuperscript{117}

The majority of wall (73 pieces) and foot (13 pieces) fragments smoothed externally, too, likely belonged to jugs, but some may have been parts of mugs or larger pots. The gritty hard-fired wall fragments (4 pieces) belonged rather to mugs.

\textit{Mug/pot}

There is only one rim fragment, which, given its characteristic protruding shoulder, likely belonged to the so-called Leányfalu type (\textit{Fig. 9.6}).\textsuperscript{118} This form is characteristic of household pottery, but rarely it also occurs on other designs (smoothed, glazed).\textsuperscript{119} The few thicker-walled wall and foot fragments (c. 5 pieces), too, likely were from pots. The two fragments made with a slow-wheel (one is a foot fragment) and the hand-made foot fragment can in all certainty be connected with pots.

\textit{Storage vessel}

One wall and one foot fragment belong here; they are light grey and light brown. Storage vessels with a smoothed surface were typical in the 1\textsuperscript{st} and 2\textsuperscript{nd} centuries; they came once again to the fore in the 4\textsuperscript{th} century. The Gizellamajor pieces are made of a well-levigated, medium-hard fired fabric, and have a contiguously smoothed surface.

\textsuperscript{112} Leányfalu: OTTOMÁNYI 1991, Table 2.12, Table 3.14–15; OTTOMÁNYI 2004, Table 1.4–8 (Budakalász-Luppacsárda); OTTOMÁNYI 1999, 343–344, PL. V.4–5 (Dunabogdány, fort reduction).

\textsuperscript{113} FREISINGER–KRECHLER 1981, 261, Fig. 2.2–7, Fig. 3.6–12, Fig. 45.3, Fig. 57 (it appears around 375 and continues to be used until the end of the 5\textsuperscript{th} century); The main bowl type in the latest period of the Mautern fort: GASSNER 2000, 217, Fig. 185, 197; GROH–SIEGLMAYER 2002, 218–222, Fig. 140–141; GROH–SIEGLMAYER 2013, Fig. 8 (dated to the 4\textsuperscript{th} century); UT 1986, Fig. 20 (Klosterneburg); GRINEWALD 1979, 76, Table. 72–73 (Carnuntum).

\textsuperscript{114} Its form resembles late Celtic vessels, but this is not unique among late Roman smoothed-in vessels. Its 4\textsuperscript{th} century analogies can be found among the vessels of the Marosszentanna–Chernyakhov culture (BÓTAJ 2011, Table 3.1–2); this variant with a ribbed neck is also common in Moravian territory (with smoothed-in decoration): TERÁL 1985, Fig. 17.7–8 (first half/middle of the 5\textsuperscript{th} century), Fig. 27.1.9 (turn of 5\textsuperscript{th} and 6\textsuperscript{th} centuries).

\textsuperscript{115} OTTOMÁNYI 2004, 275, Table II.1 (Budakalász-Luppa-csárda); OTTOMÁNYI–SOÓSZTÁRIS 1998, Table VI.7 (Szombathely: smoothed with horizontal bands; from a mid-5\textsuperscript{th} century kiln); SOÓSZ–BARÁNY–KOHLER–PUZTÁI 2017, Pl. I.1 (Hernádvécse, Hun period).

\textsuperscript{116} West wing (OTTOMÁNYI 2015b, Fig. 11. 3); South wing (OTTOMÁNYI 2015a, Fig. 8.2, Fig. 13.5.); room I/N: OTTOMÁNYI 2018c, 124 (3 pieces from the upper, stony debris).

\textsuperscript{117} In the south wing there are many large smoothed jugs with one or two handles (OTTOMÁNYI 2015a, 38, Fig. 13.8); west wing (OTTOMÁNYI 2015b, Fig. 13.1) etc.

\textsuperscript{118} Its form is uncertain. It may have been the rim of a biconical bowl, but it is not smoothed on the inside. It more likely belonged to a Leányfalu type mug.

\textsuperscript{119} OTTOMÁNYI 1991, 23, Table 31.61b (Leányfalu).
3.3.3. The latest group (turn of the 4th and 5th centuries–first half of the 5th century)

Around 7 fragments can be placed in this group. They come from above the upper floor and from the stony, daub debris. On four bowls with a sharp shoulder carination and a conical base we can observe shiny, black smoothing. One has a straight, segmented rim (Fig. 7.4), the other three are biconical bowl fragment (two outcurved rims: Fig. 7.6; 2013.14.15.8., and a lower part: 2013.14.5.12.). Based on their forms, two other biconical bowl fragments may have belonged in this group, although the smoothing on them is darker than their fabric’s colour (Fig. 7.7; 2013.14.19.12.). The Leányfalu type pot, too, represents a new form from the final third of the 4th century (2013.14.19.11.). Fragments with a gravelly (4 pieces), gritty (4 pieces) and hard-fired (c. 20 pieces) fabric, too, may have survived into the 5th century. Among them is a bowl with a conical base (Fig. 7.5).

3.4. Household pottery

Most common in all rooms of the fort are the household pottery used for everyday baking and cooking. They could also be used as serving vessels, replacing the previously prevalent neutral-coloured, well-levigated bowls and jugs. They can be found in all layers. In room III/N 730 pieces were found.

3.4.1. Design (fabric, colour)

Their fabric is usually hard-fired. 70% are gritty (504 pieces), more rarely well-levigated, mica-tempered (147 pieces) or gravel-tempered (48 pieces). Only 31 pieces are medium-hard fired. Among the latter there are around 10 fragments with a smooth (but not smoothened) surface.

Half the fragments are grey (363 pieces), light or dark grey, often fired in layers. Fragments can also be greyish-brown (24 pieces), reddish-grey (56 pieces), or just red (63 pieces), or rarely brown (8 pieces). The latest group is the yellowish-white, whitish-grey, sometimes pinkish-white pottery, always made of a gritty fabric, fired ‘ringing’ hard (201 pieces, 27%).

3.4.2. Forms

74% of the fragments are wall and foot fragments (524 pieces, 70 of which are feet), which cannot be connected with a precise form. I grouped the narrow necks and handles with the jugs, pieces with a sharply carinated shoulder with the bowls, wall fragments with a protruding shoulder with the Leányfalu type mugs/pots. Only for a quarter of the fragments could a specific vessel form be ascertained. There are also a few conical and biconical spindle whorls from the daub layer (Fig. 12.9–11). Bowl (c. 20 pieces)

Bowl with an inverted rim: this is the most common bowl type during the four centuries of the Roman Period, with changing rims and walls. It occurs as glazed, smoothed as well as household pottery in the 4th century. Its rim on the outside may be punctuated by one or two lines (Fig. 12.1). Its latest variant is the covering

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120 On vessels produced by two-phase firing the surface is grey, the inside is fired red (SOÓS–BARÁNY–KOHLER–PUȘTÁI 2017, 62; MASEK 2011, 258–263).
121 Forms used for a long time, e.g. OŢTOMÂNYI 2008, 175, Fig. 17.8 (Biatörbágy, Hun period settlement).
122 GRUNEWALD 1979, 64, Table 58.3–13 (late-3rd century–4th century); OŢTOMÂNYI 1989, Fig. 113–114 (Constantinian dynasty–early-5th century); OŢTOMÂNYI 1999, 352, PI. VIII.4–6 (Dunabogdány); HORVÁTH 2011a, 620–621, Fig. 7:11 (Keszthely-Fenékpuszta); LÁNTI 1981, 78, Type XXVII, Fig. 14.1–6 (Tokod); the form survives until the mid-5th century, e.g. Ordacehi-Cserefeld (BOCSI–GALLINA–SORÓS 2016, 103, Table 2, 3); CiGLNEČKI 1984, Fig. 1.5–8, Fig. 6.2–3 (Gradec bei Prapatno, Tinje, 4th–6th century); JELINČIČ 2015, Table 153, 156 (1st–4th century).
123 This bowl was found in the narrow area between room III/N and the west wing, in the courtyard. It may also have belonged to the material of III/N’s external furnace. The other pieces of pottery found here were published together with those from the western half of the courtyard, but this drawing was left out from that article (OŢTOMÂNYI 2018a).
Fig. 12. Household pottery bowls (1–5), lids (6–8) and spindle whorls (9–11)

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Fig. 13. Household pottery jugs and mug (first half of the 5th century)

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Fig. 14. Household pottery jug (1), mug (2), pot (3–6)

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bowl with a sharply undercut rim, which was found in the upper stony debris and the daub layer (2013.14.1.19.; Fig. 12.6–7). The latter type was made always of a gritty, hard-fired fabric.124

Bowl with a horizontal rim (15/17 pieces: Fig. 12.2–4)125 cups or larger bowl sizes (mouth diameter: 13–22 cm) are also found. From the late-4th century, the spherical variants without shoulder carination are rare. After the horizontal rim come the short neck, the shoulder carination and the conical lower half. Its rim can be S-profile-like (2013.14.6.96., 97. etc.; Fig. 12.3), perhaps furrowed for a lid, or a simple horizontal rim. Its wall is sometimes lightly ribbed with traces of wheel (Fig. 12.4). On one fragment on and under the rim runs an incised wavy line (Fig. 11.2).126 Its fabric is always hard-fired, gritty, often whitish-grey. Those fragments with a sharply carinated shoulder and a conical base without a rim (2013.14.6.124., 2018.1.13.37.) probably belong in this group, as do the bowls with a protruding shoulder (2013.14.6.118., 119.). Furthermore, based on analogies from Leányfalu, the pedestal bowl fragment likely had a similar rim (Fig. 12.5).127 It can be found in all wings in the fort.129 There is an especially great number of bowls of this type found at the nearby watchtowers and forts along the Limes; sometimes they were also produced locally, e.g. at Leányfalu and Tokod.129 It can also be found from the late-4th century at forts of the Lower Danube, highland sites in Slovenia, and in the Barbaricum.130

Strainer bowl (2 pieces): bowls with a swollen rim, vertical wall and flat foot (2013.14.6.102.; 2013.14.20.12.). Both are from the daub layer. The earlier vessel is well-levigated, medium-hard fired. The later one is from a very gravelly, poorly levigated fabric.

It is a durable form, used in the 2nd–4th centuries.131

Jug (c. 41 pieces)

An earlier piece, or not belonging to household pottery, is the lower half of a small brick-coloured jug, with whitish slip on its surface (Fig. 6.4). The same slip can be found on a small vessel with a horizontally everted rim (2013.14.6.107. + 2013.11.6.16.), on a wall fragment (2013.14.9.9.) and on a few storage vessel fragments (2013.14.3.8. + 4.17.).

Straight, grooved rim (2 pieces): 2013.14.1.22.; 2018.1.13. Traditional, late Roman jug form, hard-fired, grey fabric.132

Jug with a straight, ungegrooved rim, with a band handle starting at the rim. Fired white, gritty fabric (2013.14.20.25.: 2 pieces). Its further form is unclear.

Everted jug rim with band handle (2018.1.13.15.), with a small knob on the handle (2013.14.20.24.). On the other shoulder fragment with everted rim also found here, there is an incised wavy line (2013.14.20.13.), both of a yellowish-grey, gritty fabric. Several shoulder fragments from the daub layer, too, may have belonged to a similar form, but not all were fired white (Fig. 14.1).

Jug with collared rim (4 pieces): It has a narrower- and a wider-mouthed variant. On both there are several bands of incised wavy lines, on the rim, the shoulder and the belly. On the dividing line, which emphasises the shoulder carination, there are impressions; but the same kind of notches or circular impressions, too, can also be

124 OTTOMÁNYI 2015a, 17–18, Fig. 2.4, Fig. 9.5, Fig. 16.4 (south wing); OTTOMÁNYI 2018a, Table 7.7–8 (southern half of courtyard); OTTOMÁNYI 2018c, Fig. 5.2–3 (room I/N); LÁNYI 1981, 77, Type 15, Fig. 9.8–9 (Tokod, lid); TOMKA 2004, Table. 3.6 (Arrabona fort Migration Period phase 1b); VAŠIČ 1982–1983, Fig. 11.10–12 (Čezava, second half of phase 6, late-4th–mid-5th century).

125 There are also many horizontally-everted small rim fragments, where the form cannot be ascertained. They could also have belonged to pots, e.g. 2013.14.6.61., 62, 94, 95. etc.

126 OTTOMÁNYI 2015a, Fig. 5.5 (SW tower: wavy line on and under the rim); LÁNYI 1981, Fig. 15.1.4.6 (wavy line on the rim); OTTOMÁNYI 1991, Table 10.47–48a, 52 (wavy line on the rim); OTTOMÁNYI 1999, 353–354, Pl. IX.5 (Dunabogdány, after Valentini); TEERAL 1985, Fig. 8.4 (Jiříkovice: bundle of incised wavy lines on the shoulder); ČIGLENEČKI 1984, Fig. 6.70 (Tinje), Fig. 9.98 (Korinški hrib: with wavy line).

127 OTTOMÁNYI 1991, 16, Table 10.47 (glazed), 50, Table 36.3 (household pottery); LÁNYI 1981, 78, Fig. 15.1, 10–12 (Tokod); TEERAL 1982, XLVI.1.

128 OTTOMÁNYI 2015b, 698–700, Fig. 2.4–5 (west wing, with wavy line on one of the rims); OTTOMÁNYI 2015a, 18, Fig. 9.2–3 (south wing); OTTOMÁNYI 2018c, 127, Fig. 5.5 (room I/N).

129 LÁNYI 1981, 78, Type XXX–XXXI, Fig. 15.1–12; OTTOMÁNYI 1991, Table 9–10; OTTOMÁNYI 1999, 353–354, Pl. IX; OTTOMÁNYI 2004, 272, Table II.2–8 (Budakalász).

130 VAŠIČ 1982–1983, Fig. 11.1–2; Čezava, second half of phase 6, late-4th–mid-5th century); ČIGLENEČKI 2000, Table 82.12 (Gradec bei Prapetno), Table 85.1–3 (Rinfik). From the turn of the 4th and 5th centuries, these bowls with Roman antecedents are also produced beyond the province, e.g. in the Upper Tisza region (Hernádvécse: SOOS–BARÁNY–KOHLER–PUZTAI 2017, Fig. 12.I.4–6, Pl. XIII.4).

131 South wing: OTTOMÁNYI 2015a, 18, Fig. 2.2–3, Fig. 6.6; Courtyard: OTTOMÁNYI 2018a, 111, Table 11.1; GRUNEWALD 1979, 49, Table 36.5–9; HARSHEGYI–OTTOMÁNYI 2013, Fig. 5.3.

132 South wing: OTTOMÁNYI 2015a, 20, Fig. 6.7; GRUNEWALD 1979, 61, Table 55.7 and Table 56.7, 9.
between two bands of wavy lines. Several neck and shoulder fragments were found with a similar decoration from the same upper daub layer (Fig. 11.3–4; Fig. 13.1 and 4), with fragments matching one of them from the upper level of room III/N.\textsuperscript{133} They are whitish-yellow and whitish-red, of a gritty, hard-fired fabric. The folds on the handle copy glass jug archetypes. Made with the same decoration and of the same fabric is a nearly intact jug with a missing rim from room III/S and the southern half of the courtyard.\textsuperscript{134} On the shoulder of undecorated collared rims (Fig. 13.2; 2013.14.19.5.), too, there may have been incisions which did not survive. This rim type is common in Gizellamajor, including its variants with both a narrower and wider mouth diameter. Everywhere they come from the upper destruction debris.\textsuperscript{135} This jug type, in terms of both design and layer, can be placed among the latest, 5\textsuperscript{th} century material of the fort. In the nearby forts, built during the Valentinian period and still operational during the first half of the 5\textsuperscript{th} century (Leányfalu, Tokod), it was produced locally in countless versions, often with incised wavy lines.\textsuperscript{136} The form, through its variant without decoration, or perhaps with traces of wheel, lives on until the middle/second half of the 5\textsuperscript{th} century in communities with late antique roots under Ostrogothic rule, e.g. Ordacsehi-Kistötőtés.\textsuperscript{137} It also appears in Sarmatian and Moravian territories, as a foreign influence.\textsuperscript{138} On a small handled jug, of a gravelly fabric, with a body ribbed with traces of wheel, found in the daub layer, the rim did not survive (Fig. 13.3). Based on its design, it can be placed in the early-5\textsuperscript{th} century group.

Handles: band handles clearly belong to jugs, sometimes to large variants. At the start of the handles knobs and folds imitating glass jugs are common (Fig. 13.1; 2013.14.20.24.). On the inside of a band handle fired white is a glaze spot. It is unclear whether there was glaze on the vessel, or it got on it during the firing process (2013.14.20.26.). The twisted handles are all made of the latest, gritty, yellowish-white fabric (Fig. 11.5). They can be found in other parts of the fort as well, as both glazed and household pottery.\textsuperscript{139} Analogies can be found in e.g. Tokod, Leányfalu, Moravian territory, etc.\textsuperscript{140} Ribbon handles can also belong to smaller mugs (e.g. 2013.14.19.3.). Fragments with an inverted foot and half vessels, too can be group with jugs.

**Cup** (3 pieces)
Thin-walled, everted-rimmed small cup fragments from the daub layer (2013.14.20.14.; 2018.1.13.10.) made of a yellowish-white, gritty fabric. The other, a horizontally-everted cup rim (2013.14.9.4.), is of a grey, hard-fired fabric.

Pottery cup is a rare form in the late Roman Period. In the other rooms of the fort there are only a few household pottery cups. None of them resemble the fragments of room III/N.\textsuperscript{141}

**Mug/pot** (c. 150 pieces)
It is difficult to group the small fragments into mug and pot forms respectively. If the mouth diameter cannot be measured, the wall thickness can help. Just 100 pieces are rim fragments. Around half are everted, around half are funnelled for lid. Some of the everted and straight rims are split on the outside by a line or groove (5 pieces). These are mug forms (sometimes possibly jugs).\textsuperscript{142} There are very few horizontally-everted rims (6 pieces); they are mostly pots.\textsuperscript{143} From the small rims, we are not always able to ascertain the form. Most common (around

\textsuperscript{133} In the same upper daub layer there are several neck and shoulder fragments with a similar decoration, which, however, do not match (2013.14.6.53–56). It is possible that they belong to one of the large vessels (see Fig. 13.1 and 4). Similar shoulder fragments from the daub south of the gate (2013.14.20.30. and 2018.1.13.23.).

\textsuperscript{134} OTTOMÁNYI 2015a, Fig. 9.8; OTTOMÁNYI 2018c, Table 8.3–4, 112; Shoulder fragments with a row of wavy lines and notches: OTTOMÁNYI 2015b, 4.1–3.

\textsuperscript{135} In room I/W jug with a wider mouth: OTTOMÁNYI 2015b, Fig. 2.9–10 (period 4); southern building, room III: OTTOMÁNYI 2015a, 20–21, Fig. 9.9–11; southern part of the courtyard, upper daub debris: OTTOMÁNYI 2018a, 112, Table 8.1, Table 11.2; room I/N, upper daub debris: OTTOMÁNYI 2018c, 128, Fig. 6.1.

\textsuperscript{136} OTTOMÁNYI 1991, Table 15.2–5, Table 16.7, 11, Table 17.13a,16; LÁNYI 1981, 75, Type III, Fig. 3.

\textsuperscript{137} BOCSI 2008, Fig. 13.5a.

\textsuperscript{138} MASEK 2018, 243, Fig. 154 (settlement horizon 2); TEERAL 1988, 280, Fig. 40.21 (horizon D2/D3).

\textsuperscript{139} Room I/W (OTTOMÁNYI 2015b, Fig. 10.5; glazed).

\textsuperscript{140} LÁNYI 1981, Fig. 5.3–6; OTTOMÁNYI 1991, Table 33.65 (on a Leányfalu mug form); TEERAL 1985, Fig. 19.7 (Velké Némčice).

\textsuperscript{141} OTTOMÁNYI 2015a, Fig. 2.5 (southern); OTTOMÁNYI 2015b, Fig. 2.12 (western); OTTOMÁNYI 2018c, 126, Fig. 4 (room I/N: 1 piece); OTTOMÁNYI 2018a, Fig. 5 (courtyard: 2 pieces).

\textsuperscript{142} South wing: OTTOMÁNYI 2015a, Fig. 10.3; western building: OTTOMÁNYI 2015b, Fig. 3.3 (4.3% of mugs); GRÖF 1992, Fig. 2; at Ācs-Vaspuszta it can be dated started from layers dating to the Constantinian dynasty until the late-4\textsuperscript{th} century: OTTOMÁNYI 1989, Fig. 130–131/26–34 (with further references); OTTOMÁNYI 1991, Table 27–28. 34–36 (Leányfalu); GASSNER 2000, 211, Fig. 182; GROH–SEIDLMAIER 2002, 284, Fig. 158.822, 1106 (Mautern, mid-4\textsuperscript{th} –5\textsuperscript{th} century); HORVÁTH 2011a, 621–622, Fig. 8 (the majority of grey mug-pot forms of a gritty fabric at Keszthely-Fenékpuszta are these vessels with a grooved rim).

\textsuperscript{143} HORVÁTH 2011a, 622–623, Fig. 9 (developed further from 2\textsuperscript{nd}–3\textsuperscript{rd} century antecedents).
Fig. 15. “Leányfalu-type” pots
Around 32 pieces of mug and 40 pieces of pot fragments can be identified securely. The other fragments may have equally been mugs or pots (moreover, the wall and foot fragments may have belonged to bowl or jug forms).

**Mug:** A small intact vessel was uncovered on the upper floor (we can label it either a cup or a handleless mug). Its body is covered with traces of wheel, its fabric is gritty, hard-fired and white. Based on these, it belongs to the latest, 5th century group (*Fig. 11.6*). Of the same fabric and design is the everted small rim fragment (cup or mug) from the daub behind the gate (**2018.1.13.10**). Of the simple, everted rims a further two may have belonged to mugs. The smooth-surfaced, thin-walled vessel made of a brown, well-levigated, hard-fired fabric, found above the clayey, brown layer, is earlier (**2013.14.4.14**). The everted mug rim, with the top cut straight, from the daub layer, is later (**2013.14.6.26**). On a small, brick-coloured rim fragment, a yellowish-brown glaze spot can be seen; given that its fabric was medium-hard fired, it may also have been glazed originally (*Fig. 14.2*).

**Leányfalu mug:** with a furrowed, profiled rim (**2013.14.6.7; 2013.14.7.4**). There may be lines around its neck, or traces of wheel on its shoulder. Based on their characteristic shoulder carination, wall fragments, too, can be included here (e.g. **2013.14.6.38, 40**).

Perhaps belonging to mugs were the thin-walled, white wall fragments with, similarly to jugs, several rows of wavy lines decorating their shoulder (**2013.14.6.116**), with traces of wheel below. **145** The thin-walled, white wall fragments, with a ribbed wall, without wavy lines, too, may belong to mugs (e.g. **2013.14.6.3**). The small belly fragments with a handle start (mostly ribbon handles), too, can be connected with mugs (**2013.14.6.1; 2013.14.5.25**). Made of a gritty, grey or whitish-grey fabric. Among the flat feet, too, the smaller ones may have belonged here (e.g. **2013.14.12.40**).

**Pot:** Of the everted rim fragments (c. 5 pieces) one is deformed, a waster (*Fig. 14.3*). Based on its design, it still belongs to traditional, 4th century pottery. It was found during the excavation of the upper floor. The other half of the rims is furrowed (around 6 pieces: *Fig. 14.4–5*). **146** Among the latter, a rib, too, may run under the rim (**2013.14.6.57**).

**“Leányfalu type”:** there are such pots with everted, straight-cut (**2013.14.5.5–6; 2013.14.6.2**) and also furrowed rims (*Fig. 15; 2013.14.5.23; 2013.14.20.17*). The earliest piece was made of a well-levigated, brick-coloured, medium-hard fired fabric (*Fig. 15.1*). It does not have a more precisely identified layer, but there appeared no characteristically late pottery alongside it (mixed with early Roman pottery). The type therefore already appears in the material dating to the construction of the fort, in the second half of the century. It, however, consists mostly of later vessels, made of a gritty, hard-fired fabric; often fired yellowish-white (28 pieces). **30% of the mug/pot forms of room III/N, 45 pieces, can be classified as belonging to this type. There are many such pieces in other parts of the fort as well.** **147** It is attested, with a ribbed surface, until the mid-5th century in the province, and, more rarely, in neighbouring Germanic territory. **148**

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**Notes:**

144 The closest and most numerous analogies are from the Leányfalu workshop: OTTÓMÁNYI 1991, 11, Table 28.39c, Table 29.39a, 43, 45; JEREMIEC 2012, Fig. 4, Cat. No.273 (Saldum, Valentinian period); from Moravian territory (TRUAI 1985, Fig. 19.3–5–6). For further analogies, see the section of pot forms.

145 Analogies e.g. from Leányfalu (OTTÓMÁNYI 1991, 12, Table 27.1–2, Table 43.8–9).

146 A typical rim and form in late Roman pottery (GRUNEWALD 1979, 60, Table 54.9–17; GROH–SZEMLÉYER 2002, 259–284, Fig. 157–158); CIGLENEČKI 2000, Table 87.1–2, Table 90.4–5; etc. It spread not only in Pannonia, but in the surrounding Barbaricum as well, probably through Roman influence; it was by then also being produced by local workshops (KULCSÁR–MERKAI 2011, Fig. 17; MAŠEK 2018 159, Fig. 75–76; SOSS–BARÁNY–KOHLER–PUSZTAI 2017, Fig. 12.11.6.8.13–15, Pl. VIII.4.8).

147 West wing: over half of all mugs and pots of this type (OTTÓMÁNYI 2015b, 701, Fig. 3.6–7, 9–10); in the south wing only 16.4% (OTTÓMÁNYI 2015a, 23, Fig. 2.6, Fig. 6.11, Fig. 10.5.8.9, 10, Fig. 16.5–6; Fig. 18.1; in the courtyard’s material 19% (OTTÓMÁNYI 2018a, 112, Table 9.201504); room I/N (OTTÓMÁNYI 2018c, Fig. 6.3); in the NW corner tower 1 piece (OTTÓMÁNYI 2018b, Fig. 5.4).

148 In Leányfalu, Pilisszentimre and Tokod a whole series of such vessels was produced from the Valentinian period until the first third of the 5th century (in Tokod even further): LÁNYI 1981, 75, Typ. 1, Fig. 1–2 (52.2% of all fragments); OTTÓMÁNYI 1991, 11–12, Type 36–75, Table 28–34 and Map 5. In Leányfalu 70% of mugs and pots belong to this type; OTTÓMÁNYI 1996, 89–92, Fig. 8–9 (Pilisszentimre–Malompatak, 53%); Intercisa: on the floor of a house burnt down during the Hun period (BONA 1993, 236, drawing 67); OTTÓMÁNYI 2008, 170–171, Fig. 16.6–15 (Biatorbágy, Hun period settlement); with a shorter neck in South Pannonia, Keszelthely–Fenékpusztai, etc. (JELINEK 2015, Table 134.1; HORMÁTH 2011a, 623–624, Fig. 11; BOCSI 2008, Fig. 7.1/1b, Fig. 8.2/1C, Fig. 13.Ib (Oradscehi–Kistőltes), Fig. 14.Ib–c, VIA (Zamárdi); BOCSI 2011, 114–115, Table 3 (Zamárdi–Kútölgyi–dűlo, 5th–6th century settlement); CIGLENEČKI 1984, Fig. 2.19–21 (Grade bei Prappett); TRUAI 1985, Fig. 19.1.3.5–6; STEUFFER 2008, Fig. 5.4; GINDELE–ISTVÁNOVITS 2009, Fig. 51.680B/8 (phase 5).
Storage vessel (6 pieces)

Made with a traditional, everted, often swollen rim; grey; made of a well-levigated fabric, fired medium-hard or hard. The surface of a vessel with a horizontal, ribbed rim is smooth (Fig. 14.6). These types are present through four centuries; later variants are darker grey and harder. One variant has a whitish-yellow slip (its fabric is brick-coloured: 2013.14.3.8. + 14.4.17.).

Lid (7 pieces)

Straight-ended, flatter lid from the excavation of the stone debris (Fig. 12.8).\(^{149}\) From the second half–end of the 4th century, cover bowls with a sharply-undercut rim and conical body are the most characteristic (4 pieces and three others classified with bowls: Fig. 12.6–7).\(^{150}\) There are two lid knobs.

3.4.3. Decoration

The plastic decoration, ribbing or incision of the surface of household pottery, is characteristic of the latest vessels, which appear during the late-4th century. Broom strokes, used through 4 centuries, appear only on a few items (5 pieces).\(^{151}\)

Ribbing with traces of wheel: can be found on 171 fragments, i.e. 23.4%.\(^{152}\) In terms of form, it mostly appears on mugs and pots, and within these especially on shoulder and belly of Leányfalu-type ones.\(^{153}\) It lives on also in 5th–6th century settlements.\(^{154}\) It also appears in Germanic and Sarmatian settlements on the other side of the Danube at the end of the 4th century with a profiled rim, of a gritty fabric, with ribbed walls (through Roman influence, also produced by then by local workshops).\(^{155}\) On Moravian territory it appears in a 5th century setting along with glazed and smoothed-in pottery.\(^{156}\) Rarely light ribbing can also be seen on the belly of jugs and the shoulder of bowls with a horizontally-evorted rim.

Incised horizontal lines: they can appear as one or two encircling, horizontal lines, mostly to serve as division where the neck and shoulder meet; but the horizontal lines can also densely-packed, imitating traces of wheel (7 pieces).\(^{157}\) The latter, too, only appears on the latest vessels.

Incised wavy line (20 pieces): can appear on horizontal rims and under the rim (Fig. 11.2), the neck and shoulder of jugs with a collared rim, and the shoulder of pots, in one or two rows. Sometimes notches are used to emphasise the dividing lines between or above these, at the shoulder carination (10 pieces; Fig. 13.1,4; 2018.1.13.23, etc.). These can equally be both small circular impressions and sharp notches. Almost all vessels thus decorated are made of a gritty, yellowish-white fabric. Only a few jugs are made of a more traditional fabric, fired grey or reddish-brown (Fig. 14.1). This method of decoration and design is characteristic of early-5th century vessels, both of household pottery and glazed jugs.\(^{158}\)

\(^{149}\) OTTOMÁNYI 2015a, 24, Fig. 5.9 (SW corner tower); JELINČIĆ 2015, Table 160 (1st–4th century).

\(^{150}\) In room I/W: OTTOMÁNYI 2015b, 697, Fig. 4. 4–5; OTTOMÁNYI 2015a, 24, Fig. 9.6–7, Fig. 18.3; HORVÁTH 2011a, 625, Fig. 7.5–6,8; GRÜNEWALD 1979, 64, Table 59.21–23 (Carnuntum, period 4); BOCSI 2008, Fig. 7.a.1/IVb (Ordačehi-Kistóltés, material group 1).

\(^{151}\) Analogies: e.g. Leányfalu (OTTOMÁNYI 1991, Table 27, 33).

\(^{152}\) In the south wing on 12.6% of household pottery (OTTOMÁNYI 2015a, 24–25); in the west wing on 6% (OTTOMÁNYI 2015b, 703).

\(^{153}\) LÁNYI 1981, 75; HORVÁTH 2011a, 614–615; OTTOMÁNYI 2008, 170–171 (with further references).

\(^{154}\) BOCSI 2008, Fig. 8, Fig. 9.3/Ic, etc. (Ordačehi, Zamárdi).

\(^{155}\) ISTVÁNOVIT–KULCÁRS 2005; KULCÁRS–MÉRAI 2011, Fig. 12–14 (workshop in Ülő); VADAY 1988–1989, Fig. 46.1–6; MASEK 2018 149, Fig. 75.

\(^{156}\) TEIRAI 1985, Fig. 20.2–7; Fig. 21.2,5.8.10, etc. E.g. 2013.14.1.49.; 2013.14.2.21. and 27.; 2018.1.13.35.; 2018.1.15.2.

\(^{157}\) OTTOMÁNYI 1991, Table 32, 33, Table 42, Table 43.7–9; OTTOMÁNYI 1996, Fig. 18.1–3 (Pilismarót); LÁNYI 1981, Fig. 4.1–11, Fig. 5.7–12, Fig. 6, Fig. 7.1–11, Fig. 12 (Tokod); SZÖNYI 1984, 348, Fig. 5.1. (Győr, Martinovics Square); TÖMÖC 2004, Table 5.1 (Arrabona fort, Migration Period, period 1B); OTTOMÁNYI 2008, 173 (with further analogies); CELENECZEK 2000 (Slovenia, 4th–6th century); in Raetia–Noricum these vessels made of a highly gritty fabric, decorated with sunken wavy lines appear under the label “Horreumkeramik”. Their form does not resemble pottery in Visegrád (GATTRINGER– GRÜNEWALD 1981; RODRIGUEZ 1997; GASNNE 2000, 244–246; GROTH–SEDLMAYER 2013, 502–503, Fig. 7; Mautern, period 5).
3.4.4. The latest group

Around 320 pieces of pottery belong here, nearly half (44%) of the household pottery in the room.\(^{159}\) We can distinguish the latest, late-4\(^{\text{th}}\)–5\(^{\text{th}}\) century, group primarily based on the fabric, design and possibly decoration. There are also a few characteristic forms, which are chiefly made of this kind of fabric, and even if the design or form is different or more traditional, it is still newer compared to earlier Roman pottery. Some traditional forms, too, could be produced according to the new design. Ribbing the vessels’ surface using traces of wheel also a new kind of decoration. It, however, appears not only on whitish-yellow, but also on usual grey, reddish-grey vessels. Therefore, to this late group belong several kinds of forms and designs. The boundary between 4\(^{\text{th}}\) and 5\(^{\text{th}}\) century pottery is sometimes uncertain.\(^{160}\)

**Colour, fabric**

Belonging to the late group are primarily the white, yellowish-white, whitish-grey or reddish-white fragments (201 pieces). They may be fired grey in places, or their two sides fired to different colours. They are usually thin-walled, fired ‘ringing’ hard. Their fabric is gritty.

Based on the surface decoration (ribbing and wavy lines) and the form, also belonging to this latest group are the grey (86 pieces) and reddish-grey (22 pieces) vessels. The latter were either fired in layers, or the red vessel was fired grey in places. There are also 12 red, 1 reddish-brown and 2 light brown fragments.

**Form**

Among bowl forms, the latest are the bowls with a sharply carinated shoulder, a conical base, and a horizontally everted rim (2 pieces), or with an S profile and horizontal rim (3 pieces). On some, the rim is missing, only the characteristic lower part survived (4 pieces). The pedestalled bowl fragment, too, likely belonged to a bowl with such a rim. The rim and shoulder can be decorated with incised wavy lines, or the lower half with light ribbing (2 pieces).

Among jugs the latest are primarily the forms with a collared rim, decorated with rows of incised wavy lines, with a notched pattern between the rows. There are only a few, more traditional jugs with an everted or straight rim, fired white. Also belonging here are a few handles (3 pieces: twisted handle, band handle, ribbon handle) as well as the jug necks with ribs or incised wavy lines. There is one everted cup rim.

The majority of late fragments can be classified as belonging to mug and pot forms. Their rim is everted (4 pieces), furrowed (8 pieces), their surface often ribbed. Among them the most common are the Leányfalu types with a downwards-widening neck and protruding shoulder (45 pieces: of these 12 rims are white, 9 other colour), with a characteristic shoulder carination (15 pieces white, 8 pieces other colour), or without shoulder carination (1 white mug).

Furrowed rims and cover bowls with a sharply-undercut rim appear already during the second half of the 4\(^{\text{th}}\) century, yet they certainly lived on until the 5\(^{\text{th}}\) century.

**Decoration**

The majority of surfaces ribbed with traces of wheel, characteristic of the latest period, (171 pieces) appear on the above-mentioned mug-pot forms. They sometimes also appear on the lower half of jugs or bowls with a horizontal rim. They can be substituted with dense incisions (7 pieces).

Incised wavy lines decorate the neck and shoulder of jugs, possibly with impressions between the lines (white: 16 pieces wave, of these 8 notches and 1 impression without wave. Other colours: 4 pieces wave). They can also appear on larger vessels, e.g. pot shoulder (2 pieces). They also appear on the rim and neck of a bowl with a horizontal rim. They can be also combined with notches (10 pieces).

\(^{159}\) In the south wing: 16.3\%, 298 pieces. Most in room III/S, 27\% (OTTOMÁNYI 2015a, 26).

\(^{160}\) I did not include in this group the cover bowls with an undercut rim, unless their colour was white. Carinated bowls with a conical base were only included in the group if their bodies featured wavy lines or ribbing. All Leányfalu-type vessels were included, although there are grey pieces with unribbed walls (in case of rims we cannot tell whether or not the wall was ribbed). The type appears earlier, during the second half of the 4\(^{\text{th}}\) century/Valentinian period, but in the absence of stratigraphic data, the only way to distinguish the earlier and later vessels would be based on design and decoration.
Fig. 16. Hand-made pots
3.5. Hand-made and slow-wheel-made pottery

They can be found in nearly all layers of the room (their absence can only be a coincidence). There are, however, not nearly as many of them as of wheel-thrown pottery. In Pannonia they are common in the 1st–2nd century, but during the 2nd–3rd century it all but disappears. They appear mostly in the material of smaller villages, farther away from the roads. Along the Limes, hand-made pottery appears in increasing numbers from the second half of the 4th century. Belonging to this group are locally-made, simple vessel forms used for cooking, primarily pots and bowls. Among them, vessel types connected with barbarian ethnic groups are very rare.

3.5.1. Slow-wheel-made pottery

There are 8 slow-wheel-made fragments. Their colour is varied, and due to the lower quality of firing, fired with spots or in layers: 3 dark grey, 1 greyish-red, 2 greyish-brown, 1 light brown and 1 reddish-brown. Secondarily fired rims and feet were possibly burnt during cooking. Four are well-levigated, the fabric of two has small pieces of gravel, one is coarse gravelly, and another has a rough, cracked surface. Two are smoothed shiny on the outside. All are pot fragments, three have an everted rim. On the exterior, two have dense lines, vertical and horizontal respectively.

3.5.2. Hand-made pottery

Altogether 53 pieces. Few are just grey (6 pieces) or just brown (4 pieces). Usually, one side of the vessel was secondarily fired grey in places or black (7 pieces), or fired in layers during production: blackish-grey (6 pieces), brownish-grey (8 pieces), reddish-grey (4 pieces), reddish-brown (15 pieces).

Most common are the slightly gravelly, medium levigated fragments (27 pieces). Rare are the poorly-made vessels with larger pieces of gravel (5 pieces). They can be highly micaceous (7 pieces), possibly with large pieces of shiny, gold-coloured mica (2 pieces). The rest are well-levigated, fired medium hard (14 pieces). A flat foot fragment is smoothed on the outside (2013.14.2.44.).

Form: belonging to a bowl or cup is only one straight rim with a flat foot (2013.14.13.25.). The other slightly or more heavily everted rims likely belonged to pots. The neck of one is heavily inverted, almost jug-like (Fig. 16.1). On a more slightly everted rim run notches (Fig. 16.2).

A large pot/storage vessel, which can be completely reconstructed, was found in the western half of the room, next to grave no. 94/1 (Fig. 16.3–4). Among the debris layer of the SE corner tower, too, was an intact, hand-made pot.

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161 HORVÁTH 2011a, 639–641, Fig. 14.1–9; HORVÁTH 2016.
162 OTTÓMÁNYI 1999, 324, Pl. X.4.6, Pl. XI.1.3 (Duna-bogdány, fort reduction); CIGLNECKI 1984, Fig. 4.45–49 (Tinje), etc.
163 OTTÓMÁNYI 2015b, Fig. 16.1; OTTÓMÁNYI 1999, Pl. XII.9; POLLAK 1980, Table 124–125 (Straning); Table 41.1,6 (Maiersch), etc.; DROBERJAR–KNÁPEK–JARŮŠKOVA 2008, Fig. 5.9 (Malá Haná); ELSCHIK 2017, Table 43.14–22 (Bratislava–Dúbravka, phase 3); JELINČIČ 2015, Table 149, 153–154, Table 154.
164 OTTÓMÁNYI 1999, 359–361, Pl. XII.2–9 (with further references); OTTÓMÁNYI 2008, 173, Fig. 17.3.5 (Biatorbágy); HORVÁTH 2011a, 642, Fig. 16.10–15; JELINČIČ 2015, Table 148.
165 POLLAK 1980, Table 154.1 (Wien–Aspern); in a Hun period grave: Pusztataskony–Ledence 2, grave goods of grave no. 270/337 (MÁSER 2018 Fig. 283).
166 SOPRONI 1985, Table 15.2., Table 16.3 (Visegrád–Sibrik hill, house pit); HORVÁTH 2011, 642, Fig. 14.14–15; MÁSER 2018, 182, Table 23.8, Table 44.4 etc.; POLLAK 1980, Table 154.2 (Wien–Aspern) Table 160.4 (Wien–Leopoldau), etc.; DROBERJAR–KNÁPEK–JARŮŠKOVA 2008, Fig. 4–5 (late Suebic pottery: Jevičko, Malá Haná); ELSCHIK 2017, Table 44.5.9–11, Table 61.12 (Bratislava–Dúbravka, phase 3); BOCZI 2008, Fig. 14.1/A2, B3, C3 (Zamárdi–Kútvolgyi–dűlő, 5th–6th century).
167 The large, hand-made storage vessels in the late Roman period are characteristic of both the province and the neighbouring Sarmatian and Germanic settlements. Their forms, however, do not exactly match that of the Visegrád vessel. See MÁSER 2018, Fig. 95; TEBRAL 1982, 6/2, 17/3–4, etc.; JELINČIČ 2015, S. 139.209 (Kiskorja Jug).
168 GROF 1992, Fig. 1; OTTÓMÁNYI 2015a, Fig. 17.6; Based on the excavation diary, there were three large “Barbarian vessels” in this room. Two in 1996: in the western half of the trench on the yellow, clayey floor with mortar patches (1996. VII.10.), and the furnace pit of the lower level’s heating flue (1996. VIII.15.). Of these only the one from 1998, published now, has been located so far (1998.VIII.16). Is it perhaps the same vessel, but during conservation and repackaging the date was copied incorrectly?
4. LOCAL POTTERY PRODUCTION

A deformed, everted grey pot rim made of a gritty, gravelly fabric, from the excavation of the upper floor (Fig. 14.3) points at the local production of household pottery. Another very light, grey wall fragment burnt pitted and blistered may also be a waster (2013.14.6.134.). Additionally, we know of household pottery wasters from the west wing in the fort.\textsuperscript{169}

Among glazed pottery, the fragment with a melted, shiny green glaze lump stuck on the glazed foot may perhaps be a waster (2013.14.6.90.). A similar glaze lump stuck on a vessel can also be found in room I/N. Waste proving local production were found in the south wing and the southern part of the courtyard.\textsuperscript{170}

In room III/N there are no wasters among vessels with a smoothed or smoothed-in surface. A smoothed-in pot waster fragment was found in the south wing at the fort, underneath the floor of the room divided into two parts during the remodelling.\textsuperscript{171}

During the second half-end of the 4th century there are great similarities between the forms of household, glazed and smoothed/smoothed-in pottery, they often use the same types with different surface decorations.\textsuperscript{172} Their granular, gritty fabrics, which reflect pebble- and gravel-tempering along the Danube, are also similar. Based on the wasters (household pottery, glazed, smoothed/smoothed-in) and vessels with glaze spots, it is highly likely that at the Gizellamajor fort, too, pottery was produced locally in the late Roman Period. Sometimes materials from neighbouring sites/workshops (Tokod, Pilismarót-Malompatak, Leányfalu, Dunabogdány) are so similar that they raise the possibility of a shared workshop, or possibly a travelling potter. These travelling potters may have visited the forts along the Danube one after the other, producing vessels which reflected the taste of the mixed (Roman and barbarian) populace, from the Valentinian period until the 430s.\textsuperscript{173}

5. CONCLUSION

Among the pottery at the Visegrád-Gizellamajor fort, in our case room III/North, we see a mix of familiar 4th century, late Roman vessel forms and designs as well as new types and decorations which appear at the end of the Roman and the beginning of the Migration Period. Based on surface design and execution we can distinguish five basic groups among 4th–5th century pottery: household pottery – used for everyday baking and cooking, which represents the largest group –, glazed vessels, vessels with a smoothed surface – and among them vessels with smoothed-in decoration, which constitute a separate group both in terms of time and ethnic group. Among the pottery of the period we also find small numbers of slow-wheel-made and hand-made vessels.

In all groups of wheel-thrown pottery we can observe those changes – the appearance of new forms and decorations – which began in the final third of the 4th century, then matured and came to characterise the pottery of the first half of the 5th century (Fig. 17). These changes can be seen not only in the Roman province, but also on Germanic and Sarmatian territory across the Danube. New forms are bowls with conical base and sharply-carinated belly (with a horizontal, swollen, or S-profile rim), biconical bowls,ugs with a collared rim, large jugs with two handles, and “Leányfalu”-type mugs and pots with a protruding shoulder. Of course there were several 4th century forms which could survive into the 5th century (e.g. cover bowls with a sharply-undercut rim, pots with a furrowed rim, etc.). As new surface ornaments, the plastic (incised, notched) patterns appear on both household and glazed pottery (primarily wavy lines). The fabric of the latest vessels was fired ‘ringing’ hard, often yellowish-white, and their surface very frequently decorated with heavy traces of wheel. A new group also appears: pottery with a

\textsuperscript{169} OTTOMÁNYI 2015b, Fig. 5.3–4.
\textsuperscript{170} OTTOMÁNYI 2018c, 124 (glaze lump inside a household pottery vessel); OTTOMÁNYI 2015a, 34; OTTOMÁNYI 2018a, 15, Table 5.2.
\textsuperscript{171} OTTOMÁNYI 2015a, 44, Fig. 16.11 (Leányfalu type mug/pot).
\textsuperscript{172} Bowl with inverted rim: glazed (Fig. 4.1–2), smoothed-in, household pottery (Fig. 12.1), hand-made; Cover bowl: smoothed (Fig. 11.5), household pottery (Fig. 12.6–7); Bowl with a segmented upper part and conical base: glazed (Fig. 4.3), smoothed (Fig. 7.4–5), household pottery; Bowl with horizontal rim: glazed (Fig. 4.3–8), smoothed (Fig. 4.4), smoothed-in (Fig. 7.3), household pottery (Fig. 12.2–4); Jug with funnel-shaped rim: glazed, smoothed, smoothed-in (Fig. 9.3), household pottery; Jug with collared rim: glazed, smoothed, smoothed-in, household pottery (Fig. 13.1–3); Mugs with everted rim: glazed (Fig. 5.6), smoothed, smoothed-in, household pottery (Fig. 14.2), hand-made; Leányfalu type mug/pot: glazed (Fig. 5.7), smoothed (Fig. 9.6), household pottery (Fig. 15).
\textsuperscript{173} HÁRECSI–OTTOMÁNYI 2013, 486–489.

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smoothed-in decoration. New research places its beginning to as early as the middle third of the 4th century, but it only appears in the archaeological record in greater numbers during and after the Valentinian period. Among smoothed-in pottery, too, on the latest, 5th century variants appears the blend of plastic and smoothed-in ornaments, the ribbing of the surface, etc.

Changes in the pottery always reflect changes in the populace. At Visegrád-Gizellamajor, the population of the Roman fort at first grew when the residents of the civilian settlement outside its walls moved in – it was probably this that necessitated the remodelling during the Valentinian period. In spite of the decline, Roman rule continued in the final third of the 4th century and indeed beyond. Hence, signs of reconstruction after 375, too, can be observed in forts along the Limes. Thus, the latest, dry-walled, poorer-quality buildings inside the fort, too, need not necessarily be connected with a new barbarian populace; at most only with a mixed one. After all, during the last third of the 4th century (or only at the turn of the 4th and 5th centuries), garrisons all along the Limes were supplemented with barbarian troops; partly from neighbouring Sarmatians and Germans, partly from peoples arriving from the East (Goths, Alans, Huns).

Even if, in light of a new analysis of the sources, the settlement of foederati led by Alatheus and Saphrax in 380 cannot be proven, the continuous ‘Barbarisation’ of the population along the Limes cannot be denied. The foreign, barbarian elements brought with them their own forms and motifs and introduced them to the local Romans, setting a new trend. At the same time, they too adopted local customs and Roman workshops went on to produce for decades pottery reflecting this new, mixed taste. Although the fort was used for its intended purpose only until the 430s, the later Hun period settlers, too, left their mark in the archaeological record. Now it is difficult to ascertain among the pottery from the topmost destruction debris of the fort which were the vessels used until the fort was abandoned and which were those left behind perhaps by ethnic groups.

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174 Tóth 2005, 375–380; Horváth 2011, 627–628.
175 One of the most characteristic examples of this new type of pottery presented above is the assemblage of pottery at the Intercisa fort found on the floor of a burnt down, adobe house. Its destruction can be dated likely to the arrival of the Huns (between 425–434) (Bona 1993, 236, drawing 67).
176 Grof 2016, 137. The end of civilian settlements around military bases and the gradual relocation or deliberate resettlement of residents behind the walls of the forts can be observed in several places along the Limes in Pannonia from the second half of the 4th century; e.g. Győr (Tomka 2004, 390), Intercisa (Bona 2000, 70) etc.
177 Kovács 2004, 139; this includes e.g. reducing the size of earlier Limes forts, which we can see, among others, at the Dunabogdány (Cirpi) fort next to Visegrád. The fort’s archaeological record contains many vessels similar to those at Gizellamajor (Ottományi 1999); Bona 2000, 70–71.
178 Among weapons found at the Gizellamajor fort, we see both Roman and foreign types (Grof 1992, 133; Table V); on the Visegrád-Sibrik hill, among the finds of the semi-subterranean house and pit at the fort we see both Roman and hand-made (thought to be Quadic) pottery (Soproni 1985, 63–64, Table 11–16).
179 For a detailed treatment see Kovács 2004, 130–143; Kovács 2016; Vida 2011, 615–636; Bierbauer 2015, 422–447.
180 The mixed tastes applied not only to pottery, but also attire. Bone combs, too, were not part of Roman fashion; nonetheless they were often produced by local workshops during the late 4th century. They were equally found in Roman contexts and in graves from the Hun period. The same applies to the Visegrád-Gizellamajor fort: hidden in the flue of room III/N, next to a green-glazed jug, was a double-sided bone comb (above it a new floor was still built during period 3 of the fort). Another double-sided bone comb, however, was deposited in a probably Hun period grave of a woman with an artificially distorted skull, dug later into the floor of the courtyard (Grof 2016, 138–139).
under Hunnic rule. Through the analysis of the material’s composition, a trend can be identified: the quantity of the new pottery types in the various rooms of the fort increases continuously from the Valentinian period until the mid-5th century. Large quantities are found especially in those places where later remodelling or additional structures can be attested. 181 At the core, next to which appeared the vessels of a new design, remains late Roman pottery throughout. Even in the destruction debris it constitutes at least 50% of the vessels. 182 The presence of African red slip vessels at the fort proves that even at the turn of the 4th and 5th centuries this imported ware still reached the Limes in Valeria from the Mediterranean and that there were people living at the fort for whom such ornamental pottery was still in demand.

Pottery at the fort fits organically with the finds from the other Limes forts still operating during the first third of the 5th century in the Danube Bend. Furthermore, the role of the Danube as a boundary was coming to an end; and the pottery of Roman, Sarmatian and Germanic sites – which developed from different foundations —, too, came to share many traits in this age of the late Roman–early Migration Period.

CATALOGUE OF OBJECTS PRESENTED IN THE TABLE

Abbreviations used in the catalogue and the tables

| Abbreviation | Meaning |
|--------------|---------|
| cat.no. | catalogue number |
| fd | foot diameter |
| fs | find-spot |
| h | height |
| hm | hand-made |
| ld | largest diameter |
| md | mouth diameter |
| pcs | pieces |
| r | room |
| sw | slow-wheel |
| wt | wall thickness |

Fig. 4. Glazed bowls

1. 2013.14.6.85. Brick-coloured, with traces of glaze burnt pitted inside and outside. Well-levigated, hard-fired. Md: 18 cm, wt: 0.8 cm.
2. 2013.14.2.2. + 2013.14.3.1. Brick-coloured, with a very thin grey layer inside under the glaze. Light, greenish-brown glaze on the inside. Well-levigated fabric, fired medium hard. Md: 16 cm, h: 4.5 cm, wt: 0.5 cm.
3. 2013.14.15.1. Grey, with a thin red layer on the outside. Shiny, greenish-brown glaze on the inside. Well-levigated fabric, fired medium hard. Md: 24.5 cm, wt: 0.7 cm.
4. 2013.14.6.17. Brick-coloured, some parts secondarily fired grey. Traces of greenish-brown glaze burnt pitted on the rim and on the inside. On the outside: smoothed with horizontal bands. Groove around the two edges of the rim. Well-levigated fabric, hard-fired. Md: 24.5 cm, fd: 14.5 cm, h: 4.5 cm, wt: 0.7–0.8 cm.
5. 2013.14.6.87. Rim ribbed with light grooves. On the outside, impressions around the neck. Dark red, with grey layers; rim and inside covered with burnt glaze. Gritty, hard-fired fabric. Md: 29 cm, wt: 0.4 cm.
6. 2013.14.6.86. Impressions around the edge of the rim. Yellowish-grey, with burnt glaze on the inside. Gritty, hard-fired fabric. Md: 17.5 cm, wt: 0.4 cm.
7. 2018.1.13.1. Edge of rim wavy, with a groove around its two edges. Traces of burnt, light-coloured glaze on the rim. Whitish-red, gritty fabric, fired ‘ringing’ hard. Md: 16 cm, wt: 0.3 cm.
8. 2013.14.20.1. Wavy rim, with a groove around its two edges. Brick-coloured, with glaze burnt pitted on the rim and on the inside. Glaze spots/bands on the outside. Gritty, hard-fired fabric. Md: 14.4 cm, wt: 0.2 cm.

Fig. 5. Glazed mortaria, jugs, mugs

1. 2013.14.4.1. + 2013.14.21.2. Edge of rim segmented with ribs. Grey, secondarily fired. Dark green glaze burnt black on the rim and on the inside. Well-levigated, hard-fired fabric. Md: 27 cm, wt: 0.7 cm.

181 Ottományi 2015a, 48, Fig. 24–25 (room III/S and SW tower).
182 If we accept that the majority of residents in Valeria were resettled around 425 and the Huns settled new ethnic groups behind the walls of the old Limes forts (Tóth 2005, 384–385), then this either does not apply to Visegrád-Gizellamajor, or the pottery of the destruction debris by all means has to be dated prior to Hunnic rule. Among the pottery of the fort, so far no such types can be attested, which, as e.g. in the case of jewellery (see Grof 2016), are characteristic exclusively of the Hun period.
2. 2013.14.21.1. Brick-coloured, fired grey in places. Dark green glaze, shiny on the inside, burnt on the rim. Well-levigated, hard-fired. Md: 27 cm, wt: 0.7 cm.
3. 2013.14.6.88. Worn green glaze on the rim and on the inside. Fabric fired in layers, red on the outside, grey on the inside. Well-levigated, medium-hard fired. Md: 27 cm, wt: 0.7 cm.
4. 2013.14.19.1. Pale brick-coloured, with worn, burnt green glaze on the inside. Well-levigated fabric, medium-hard fired. Md: 14 cm, wt: 0.5 cm.
5. 2013.14.19.9. (Fig. 10.3). Dark grey, with a red layer on the inside and burnt dark green glaze on the outside. Stamped pattern on the neck. Well-levigated, medium-hard fired. Neck diameter: 4.5 cm, wt: 0.4 cm.
6. 2013.14.20.2. Brick-coloured, with burnt, perhaps green glaze on the outside. Well-levigated fabric, medium-hard fired. Md: 8.3 cm, wt: 0.6 cm.
7. 2013.14.6.20. + 43. Thin-walled, light grey. On the outside surface covered in secondarily burnt, pitted glaze (traces of running and burnt glaze below). Gritty, hard-fired fabric. Ld: 13 cm, wt: 0.3–0.4 cm.

Fig. 6. Jugs
1. 2013.14.7.1. (Fig. 10.1). Worn, green glaze on the outside. Wall pierced under the handle, torn off on the other side in a circular spot. Grey, with a red layer on the outside. Well-levigated, hard-fired. Md: 4 cm, fd: 5.5 cm, h: 19.5 cm, wt: 0.3 cm.
2. 2013.14.6.1. Reddish-brown inside and outside, carination grey in layers. Around its wall, 3 rows of different-sized dents separated by rows of notched and stitched ornaments. Dark green glaze on the outside, secondarily burnt black in places. Well-levigated, micaceous, hard-fired fabric. Extant h: 23 cm, ld: 14 cm, fd: 7.5 cm, wt: 0.6 cm.
3. 2013.14.22.5. + 13. (Fig. 10.4). Dark red, fired grey in places. Large band handle start on the belly, flat ribbing on the outside of the body. The ribs (traces of wheel) are horizontally smoothed; smoothed-in lattice pattern on the shoulder. The smoothed-in ornament is shiny, darker than the fabric, thin-lined. Its fabric and thin-walled design resembles household pottery. Fd: 8.3 cm, ld: 19 cm, h: 21 cm, handle: 3.5 x 0. cm, wt: 0.3 cm.
4. 2013.14.6.64. Red, with traces of white slip on the outside. Well-levigated, medium-hard fired fabric. Fd: 4 cm, h: 7.5 cm, wt: 0.6 cm.

Fig. 7. Smoothed and smoothed-in bowls
1. 2013.14.9.3 (+ 2013.14.5.3.). Grey, with thin brown layer on the inside, smoothed surface on the outside. Pierced under the rim. Well-levigated, micaceous, medium-hard fired. Md: 24 cm, wt: 0.7–0.8 cm.
2. 2013.14.19.4. Pale red, some fragments fired grey. On the outside, two encircling grooves under the rim. Surface horizontally smoothed inside and outside. Well-levigated, micaceous, medium-hard fired. Md: 23.5 cm, h: 7.5 cm, fd: 9.5 cm, wt: 0.5–0.7 cm.
3. 2013.14.1.20. Grey. The outer edge of the rim made wavy with barely visible impressions. Rim and outside smoothed with horizontal bands, on the inside (almost contiguously) smoothed-in with vertical bands. Foot contiguously smoothed. Well-levigated, medium-hard fired fabric. Md: 27 cm, fd: 18 cm, h: 5 cm, wt: 0.7 cm.
4. 2013.14.1.18. Dark grey, with shiny, black, horizontal smoothing on the outside. On the inside smoothing matches the colour of the fabric. Well-levigated, medium-hard fired. Md: 21.6 cm, wt: 0.7 cm.
5. 2013.14.1.21. (+ 2013.13.23.4.). Fired light grey on the inside, darker grey on the outside. Horizontally-smoothed on the outside (with thin bands). Smoothing is shiny and matches the colour of the fabric. Well-levigated, with small pebbles, hard-fired. Md: 15 cm, wt: 0.4 cm.
6. 2013.14.1.39. Dark, blackish-grey, carination lighter, red in layers. On the outside the surface is smoothed contiguously shiny, black. Well-levigated, hard-fired, highly micaceous fabric. Md: 15 cm, wt: 0.4 cm.
7. 2013.14.4.13. Light grey, with a darker, smoothed surface on the outside. Well-levigated, not hard-fired. Md: 20 cm, wt: 0.6 cm.
8. 2013.14.6.33. Light grey. A band of smoothed-in vertical lines around the neck. Contiguously smoothed below the belly. The smoothed-in ornaments are barely shiny, thin-lined. Well-levigated medium-hard fired fabric. Md: 12.5 cm, wt: 0.4 cm.
9. 2013.14.6.52. (= Fig. 10.5). Light brown. Two bands of smoothed-in ornaments around the shoulder: double wavy line in the upper band, vertical lines underneath. Horizontally smoothed on the neck and under the belly carination. The smoothed-in ornaments are shiny, darker than the colour of the fabric, thick-lined. Well-levigated, micaceous, hard-fired fabric. Neck diameter: 10 cm, ld: 16 cm, wt: 0.3 cm.
Fig. 8. Jug fragments with smoothed-in decoration
1. 2013.14.23.1. + 2013.13.6.238.183 (Fig. 10.6). Dark grey. Smoothed-in vertical bands on the neck, below it a smoothed-in horizontal line emphasises the protruding shoulder. This is followed by a smoothed-in wavy line in a band with a matt base. On the belly is a groove, emphasised with horizontal smoothed-in decoration. Contiguously smoothed surface below. The smoothed-in decoration is shiny, darker than the colour of the fabric, black, thick-lined.184 Well-levigated, not hard-fired. Ld: 18.5 cm, neck diameter: 8 cm, wt: 0.7–0.8 cm.
2. 2013.14.12.11. Light grey. Horizontally (somewhat haphazardly) smoothed on the belly. There is a break in the smoothing at the band handle start. An incised line around the shoulder, with smoothed-in diagonal lines above. The smoothed-in ornament is shiny, matches the colour of the fabric, thin-lined. Well-levigated, hard-fired fabric. Ld: 17 cm, wt: 0.5 cm.
3. 2013.4.17.9. Grey. Band handle vertically smoothed. Above the belly carination – framed by a flat rib – a smoothed-in pattern begins (diagonal bands?, triangle?). There is a break in the pattern under the handle. Lattice pattern on the other side of the handle (thin-lined, shiny smoothed-in decoration). Horizontal smoothing on the belly. Well-levigated, medium-hard fired fabric. Ld: 21 cm, handle width: 3.5 cm, wt: 0.5 cm.
4. 2013.14.1.37. Light grey. Smoothed-in lattice pattern on the shoulder (the pattern stops under the handle), bordered above by a groove. The smoothed-in decoration is shiny, matches the colour of the fabric, thick-lined. Well-levigated, micaceous, hard-fired fabric. Ld: 20 cm, wt: 0.5 cm.

Fig. 9. Smoothed and smoothed-in jug and mug/pot fragments
1. 2013.14.6.6. Reddish-brown, fired grey in places, with a barely shiny, contiguous smoothed surface on the outside. Well-levigated, hard-fired fabric. Neck diameter: 4.5 cm, Ld: 16.5 cm, wt: 0.5 cm, handle: 3 × 1 cm.
2. 2013.14.13.15. Grey. The vertical smoothed-in decoration on the neck is shiny and matches the colour of the fabric (it breaks at probably where the handle used to be). Well-levigated, hard-fired. Neck diameter: 12 cm, wt: 0.5–0.6 cm.
3. 2013.14.13.12. Dark grey. Rim horizontally smoothed on the inside, the handle vertically smoothed, with vertically smoothed-in bands on the neck. Between the bands in the beginning of smoothed-in pattern (wavy line?, triangle filled with diagonal lines?). Below the handle, on the jug’s shoulder begin smoothed-in vertical and lattice pattern-like lines. The smoothed-in decoration is shiny, matches the colour of the fabric. Well-levigated, hard-fired fabric. Md: 16.8 cm, wt: 0.6 cm, handle: 3 × 1.4 cm.
4. 2013.14.20.11. + 28. (+ 34.). Reddish-brown. On the neck, between vertically smoothed bands is a smoothed-in vertical wavy line (Murga-type motif). Lattice pattern above the shoulder carination, with vertical smoothed-in lines in a band below. This is followed by a contiguous, horizontal smoothing on the belly. The smoothing and the smoothed-in decoration are shiny, matching the colour of the fabric. Well-levigated, medium-hard fired, almost soft-fired fabric. The surface of the vessel is partially torn off, of a very poor quality; the smoothing is worn, barely visible. Belly fragment no. 34 (not drawn), too, probably belongs to it. On that fragment traces of wheel emphasised by smoothed horizontal bands can be seen on the outside (the fragments do not fit together). Md: 13 cm, Ld: 19 cm, wt: 0.3–0.4 cm.
5. 2018.1.13.22. Dark red, with shiny smoothed-in decoration matching the fabric’s colour on the outside. Lattice pattern above, with vertical lines under the slightly protruding shoulder, bordered below by horizontal smoothing. Well-levigated, medium-hard fired. Size: 4 × 3.2 × 0.4 cm.
6. 2013.14.19.11. Brownish-red, with a darker, shiny, horizontally-smoothed surface on the outside. Well-levigated, hard-fired. Md: 11.4 cm, wt: 0.3 cm.

Fig. 10. Glazed (1–3) and smoothed-in pottery (4–6)
1. 2013.14.7.1. = Fig. 6.1.
2. 2013.14.1.10. Glazed cup fragment, with stitched (pastry wheel-like) decoration under a rib on the outside, on a light green glaze. Yellowish-grey, well-levigated, hard-fired. Size: 3 × 2.5 × 0.5 cm.
3. 2013.14.1.11. Jug fragment, with shiny, greenish-brown glaze and impressed decoration on the outside. Grey, well-levigated, medium-hard fired. Size: 3.5 × 2 × 0.5 cm.
4. 2013.14.1.9. = Fig. 5.5.
5. 2013.14.22.5. = Fig. 6.3.
6. 2013.14.6.52. = Fig. 7.9.
7. 2013.14.23.1. = Fig. 8.1.

183 One vessel with vessels 2013.13.2.11–12. and 2013.13.9.2. and 2013.13.11.27. and 2013.13.16.91. and 2013.14.23.1. 184 Except fragment 2013.13.2.11–12., which is brownish-grey with a shiny, darker smoothing. This was not fired black, but belongs to the same vessel.

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Fig. 11. Smoothed (1) and household pottery (2–6)
1. 2013.14.19.4. = Fig. 7.2.
2. 2013.14.1.17. Bowl fragment with a horizontally everted rim. On and under the rim runs an encircling incised wavy line. Light green, gritty, hard-fired fabric. Rim length: 6 cm, wt: 1.4 cm.
3. 2013.14.1.17. (Fig. 13.1). Whitish-yellow, fired grey in places. Several rows of incised wavy lines around the rim and shoulder, divided by grooves. Notches on the shoulder carination. Gritty, hard-fired fabric, household pottery. Md: 7 cm, extant h: 15 cm, ld: 13 cm.
4. 2018.1.13.23. Pot shoulder fragment. White on the outside, light grey on the inside, fired in layers. Incised wavy line on the neck, shoulder carination decorated with notches, followed by another row of wavy lines. Household pottery, gritty, fired ‘ringing’ hard. Size: 5 × 6.5 × 0.5 cm.
5. 2013.14.6.49. Twisted handle fragment. Household pottery of a yellow, gritty, hard-fired fabric. Size: 9.5 × 3 × 3.5 cm.
6. (Fig. 13.5). Yellowish-white, decorated with dense traces of wheel outside on the shoulder. Fired greyish-black in places. In a large spot on the rim and inside and outside rust-coloured discoloration. Glued, intact vessel. Md: 8 cm, h: 9 cm, fd: 4.5 cm, wt: 0.4 cm. Fs: floor, room built in the north wing, to the west and south of the gate (= room III/N), 1993.185

Fig. 12. Household pottery bowls (1–5), lids (6–8) and spindle whorls (9–11)
1. 2013.14.10.3. Grey, well-levigated, hard-fired fabric. Md: 23 cm, h: 4 cm, wt: 0.5 cm.
2. 2013.14.5.7. Blackish-grey, gritty, micaceous, hard-fired fabric. Wall lightly ribbed. Md: 22 cm, h: 4 cm, wt: 0.3 cm.
3. 2013.14.20.16. Blackish-grey, carination is lighter. Gritty, hard-fired fabric. Md: 15.7 cm, wt: 0.5 cm.
4. 2018.1.13.13. Dark grey, gritty, well-levigated household pottery, fired ‘ringing’ hard. Wall lightly ribbed. Md: 13 cm, wt: 0.3 cm.
5. 2013.14.6.50. Household pottery of a yellowish-white, gritty, hard-fired fabric. Fd: 7.5 cm, wt: 0.4–0.6 cm.
6. 2013.14.3.13. Dark grey, carination is lighter, secondarily fired. Gritty, hard-fired fabric. Md: 19 cm, wt: 0.5 cm.
7. 2013.14.6.93. Dark grey, gritty, hard-fired fabric. Md: 16.6 cm, wt: 0.5 cm.
8. 2013.14.13.4. Brownish-red, well-levigated, hard-fired fabric. Md: 12 cm, wt: 0.7 cm.
9. 2013.14.6.145. Reddish-brown, gravelly, hard-fired fabric. Spindle whorl drilled in the middle. Diameter: 2.8 and 4 cm, h: 3.5 cm.
10. 2013.14.16.21. Light grey, well-levigated household pottery. Diameter: 3 cm, h: 1.5 cm.
11. 2013.14.16.22. Reddish-grey, well-levigated household pottery. Diameter: 4 cm, h: 2 cm.

Fig. 13. Household pottery jugs and mug
1. 2013.14.6.103. = Fig. 11.3.
2. 2013.14.6.104. White, gritty, hard-fired fabric. Md: 9.2 cm, wt: 0.4 cm.
3. 2013.14.6.110. Dark red, fired grey in places. Body lightly ribbed with traces of wheel (ribbing starts at the handle start). Gravelly, hard-fired fabric. Fd: 4 cm, handle: 8 × 2 × 0.7 cm.
4. 2013.14.6.112. + 2013.12.1.10. Yellowish-white, one of the fragments was fired light grey. There are three rows of incised wavy lines, one above the other, around the vessel’s rim, shoulder and belly, separated by grooves. Household pottery of a gritty, hard-fired fabric. Md: 9.5 cm, h: 28 cm, fd: 10–11 cm, wt: 0.3–0.5 cm.
5. = Fig. 11.6.

Fig. 14. Household pottery jug, mug/pot
1. 2013.14.20.29. Reddish-brown, with incised wavy line decoration on the shoulder. Well-levigated, hard-fired fabric. Ld: 19.3 cm, neck diameter: 6 cm, wt: 0.4 cm.
2. 2018.1.13.17. Brick-coloured, the carination is grey. A yellowish-brown glaze spot on the outside. Micaceous, medium-hard fired. Md: 12.2 cm, wt: 0.7 cm.
3. 2013.14.12.12. Deformed pot rim. Household pottery of a dark grey, gritty, gravelly, hard-fired fabric. Md: 13 cm, wt: 0.5 cm.
4. 2013.14.3.26. Grey, fired black in places. Well-levigated, hard-fired fabric. Md: 12 cm, wt: 0.3 cm.
5. 2013.14.7.3. Reddish-brown, well-levigated, hard-fired household pottery. Md: 13.5 cm, wt: 0.5 cm.
6. 2013.14.5.4. Grey, with a smooth surface. Well-levigated, medium-hard fired. Md: 18 cm, wt: 0.6 cm.

185 It does not have a catalogue number, as we drew and photographed it in 2000. Later on, it did not resurface during the cataloguing.

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Fig. 15. Leányfalú-type mug/pot
1. 2013.14.16.1. Brick-coloured, well-levigated, medium-hard fired fabric. Md: 12.5 cm, wt: 0.5 cm.
2. 2013.14.6.3. Pale red inside and outside, carination grey. Well-levigated, hard-fired. Md: 12 cm, wt: 0.5 cm.
3. 2013.14.20.10. Red on the inside, grey on the outside. Thin-walled with lines around the neck and a lightly-ribbed shoulder. Gritty, hard-fired fabric. Md: 10 cm, wt: 0.2 cm.
4-5. 2013.14.22.4. Red, fired grey in places. Neck, shoulder and entire wall ribbed. Household pottery of a gritty, hard-fired fabric. Md: 19.5 cm, wt: 0.4 cm.
6. 2013.14.6.98. Brown, with a furrowed rim and ribbed shoulder. Gritty, hard-fired fabric. Md: 13.5 cm, h: 6 cm, wt: 0.3 cm.

Fig. 16. Hand-made pottery
1. 2013.14.6.84. Brown, fired black in places and layers. Gravelly, poorly-levigated fabric. Md: 10.5 cm, wt: 0.6 cm.
2. 2013.14.6.3. Pale red inside and outside, carination grey. Well-levigated, hard-fired. Md: 12 cm, wt: 0.5 cm.
3. 2013.14.20.10. Red on the inside, grey on the outside. Thin-walled with lines around the neck and a lightly-ribbed shoulder. Gritty, hard-fired fabric. Md: 12.5 cm, h: 38 cm, fd: 14 cm.
4-5. 2013.14.22.4. Red, fired grey in places. Neck, shoulder and entire wall ribbed. Household pottery of a gritty, hard-fired fabric.

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