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RADOVI ARHEOLOŠKOG ZAVODA  
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## PROSLOV

*S velikim zadovoljstvom i u ime cijelog uredništva predstavljamo dvobroj 37/38 časopisa Opuscula Archaeologica koji je utemeljen 1956. godine, te s više ili manje poteškoća izlazi više od pet desetljeća. Usprkos trenutnim financijskim poteškoćama pred nama je časopis koji i ovoga puta, i to sa 19 članaka od 25 autora, na preko četiri stotine stranica, objavljuje znanstvene, pregledne i stručne tekstove visoke kvalitete.*

*No, ovaj dvobroj časopisa Opuscula archaeologica se razlikuje od prethodnih izdanja jer se sastoji od dva tematska poglavlja. U prvom poglavlju je jedanaest radova koji su, u skladu s tradicijom našeg časopisa, posvećeni različitim arheološkim problemima koji će kako znanstvenicima, tako i drugima, dati mogućnost dobivanja uvida, ne samo u nepoznatu arheološku građu, nego i mogućnost upoznavanja s najnovijim razmišljanjima o određenim problemima kao i njihovim mogućim rješenjima. Drugi dio broja 37/38 časopisa Opuscula archaeologica nas posebno raduje jer se sastoji od osam radova posvećenih 30-godišnjici smrti uglednog hrvatskog profesora prapovijesne arheologije Stojana Dimitrijevića. Radovi su prezentirani na skupu posvećenom Stojanu Dimitrijeviću na Filozofskom fakultetu u Zagrebu 13.12.2011.*

*Napor koji je uredništvo časopisa uložilo u izlazak ovoga broja nije nas obeshrabrio nego potaknuo da i dalje činimo sve potrebno da bi autori i dalje imali priliku objavljivati članke za koje smatraju da doprinose arheološkoj znanosti. Za kvalitetu objavljenih priloga brinuo se cijeli tim recenzentata, čije je mišljenje i omogućilo da svaki prilog ima onu kvalitetu kakvu naš časopis i zaslužuje. Stoga na kraju svim autorima i suradnicima najsrdačnije zahvaljujemo na priložima tiskanim u ovome broju časopisa Opuscula archaeologica.*

*Glavni i odgovorni urednici*

## PROLOGUE

*We are proud to present a double volume 37/38 of Opuscula archaeologica on behalf of the Editorial board. Since its first volume in 1956, journal Opuscula archaeologica has been publishing scientific articles in the field of archaeology and other historical disciplines. Despite current financial challenges we were able to publish 19 articles by 25 authors on more than 400 pages containing high quality original scientific articles and professional papers.*

*The structure of this double volume differs from previous ones because it is divided into two sections. The first section consisting of 11 articles that are, in the tradition of this journal, facing specific archaeological issues. We hope that these articles will provide information to readers on new, unpublished material and current debates. The second section contains 8 papers dedicated to the 30th anniversary of death of Professor Stojan Dimitrijević, a distinguished professor of Prehistoric Archaeology at the University of Zagreb. These papers were originally presented at the conference organized by the Faculty of Humanities and Social Sciences, University of Zagreb on December 13th 2011.*

*Various challenges presented to us during the preparation of this volume were not discouraging, but, on the contrary, gave us the additional motivation to secure the future of this journal as a platform for publication of quality scientific and professional papers by fellow scholars. Extensive team of domestic and international reviewers is the quality assurance of the published articles, and the journal as a whole.*

*We would like to express our gratitude to all contributors whose articles are published in this double volume.*

*Editors*



Ivana MILETIĆ ČAKŠIRAN

## KERAMIKA TANKIH STIJENKI S LOKALITETA SV. KVIRIN U SISKU

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## THIN-WALLED POTTERY FROM THE SITE SV. KVIRIN IN SISAK

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*U radu se obrađuje keramika tankih stijenki s lokaliteta sv. Kvirin, nađena pri zaštitnom arheološkom istraživanju 2003., u bloku A i B, stratigrafskoj jedinici SJ 11, odnosno sloju koji je nastao nakon uništenja prve faze izgradnje rimske Siscije. Analizirana je te statistički obrađena do sada objavljena i obrađena keramika tankih stijenki nađena na području antičke Siscije. S lokaliteta sv. Kvirin analizirano je ukupno 100 ulomaka. Analizirana keramika tankih stijenki koji se razlikuju prema tehnici izrade, fakturi, po obliku te načinu ukrašavanja keramike. Izdvojeno je 11 različitih faktura kojima su dodijeljene oznake Sisc.kts.1–11. Prema načinu ukrašavanja podijeljena je na glatku, ukrašenu urezivanjem, utiskivanjem i apliciranim ukrasom. Usporedbom s ostalim materijalom nađenim u ovom sloju, kao i prema stratigrafiji, može se zaključiti kako je materijal vezan uz kasnotiberijsko-klaudijevsko razdoblje.*

*Ključne riječi: Siscia, Sisak, rimska keramika, keramika tankih stijenki*

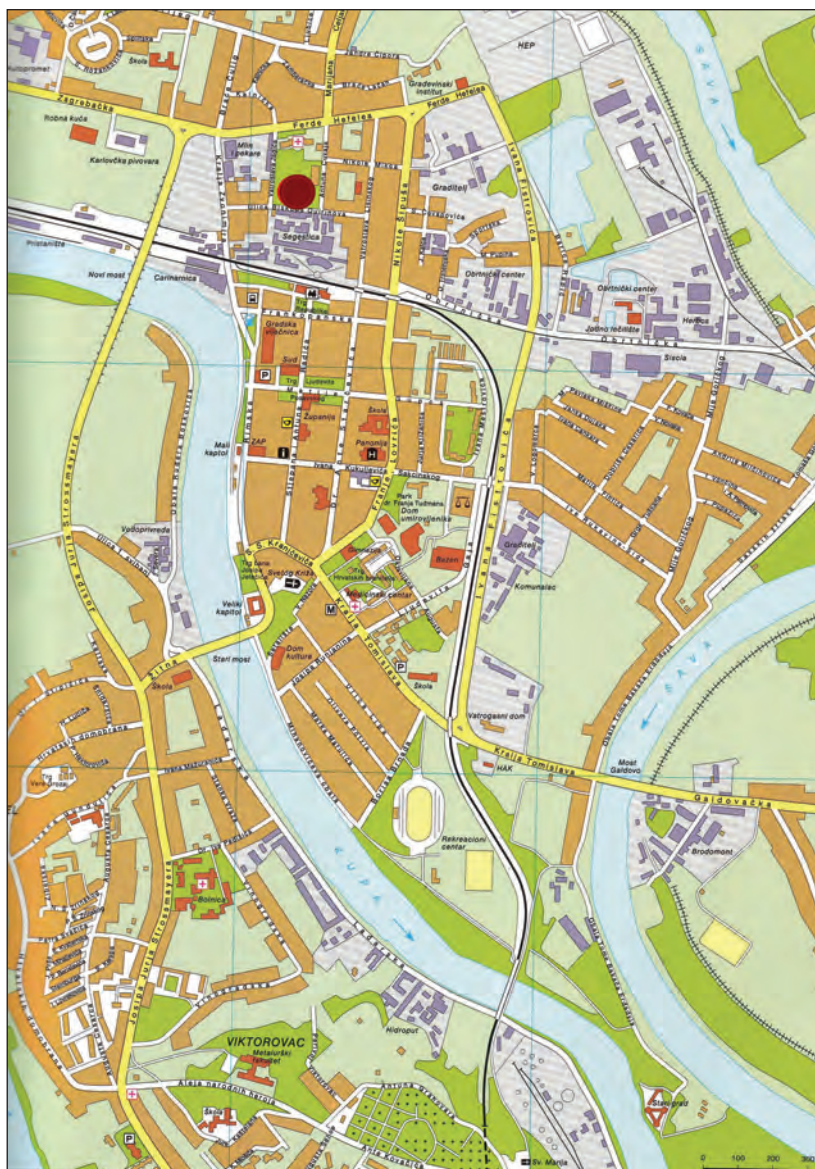
*This paper discusses the thin-walled pottery from the site Sv. Kvirin (Saint Quirinus), found during the 2003 rescue excavation in sectors A and B, stratigraphic unit SU 11, i. e. the layer formed after the destruction of the first phase of construction of the Roman Siscia. The published thin-walled pottery from the area of ancient Siscia has been examined and statistically analyzed. 100 fragments have been examined from the site Sv. Kvirin. The analyzed thin-walled pottery varies according to the clay body texture, production technique, shape and decoration method. 11 different structural compounds have been singled out and labeled Sisc.kts.1–11.*

*According to the decoration techniques, the pottery was divided into smooth-surface ware, ware with incised decoration, indentation and appliqués. Compared to the rest of the material from this layer, as well as the stratigraphy, it can be concluded that the material dates to the late Tiberian - Claudian period.*

*Key words: Siscia, Sisak, Roman pottery, thin walled ware*

## 1. UVOD<sup>1</sup>

Od travnja do lipnja 2003. g. provedena su zaštitna arheološka istraživanja na južnom dijelu bivšeg groblja uz crkvu sv. Kvirina u Sisku pod vodstvom Konzervatorskog odjela u Zagrebu, Uprave za zaštitu kulturne baštine Ministarstva kulture.<sup>2</sup> Zona zahvata, podijeljena na 10 blokova A - J (10 x 10 m), bila je određena projektom izgradnje novog vrtića. Zbog



Karta 1. Sisak, položaj lokaliteta sv. Kvirin u Sisku (izradio: autor; 2012).

Map 1. Sisak, the location of the site Sv. Kvirin in Sisak (made by the author; 2012)

<sup>1</sup> Ovom prilikom zahvaljujem se na savjetima i pomoći dr. sc. Zrinki Šimić-Kanaet i dr. sc. Ivani Ožanić Roguljić.

<sup>2</sup> Istraživanja je vodila Tatjana Lolić, viši stručni savjetnik iz Konzervatorskog odjela u Zagrebu Uprave za zaštitu kulturne baštine Ministarstva kulture kojoj se zahvaljujem na ustupljenom materijalu.

## 1. INTRODUCTION<sup>1</sup>

From April to June in 2003, rescue archaeological excavations were conducted in the southern part of the former cemetery near the church of sv. Kvirin in Sisak, under the guidance of the Conservation Department in Zagreb, the Department for the Protection of Cultural Heritage.<sup>2</sup> The area covered was divided into 10 grid squares A - J (10 x 10 m), and designated

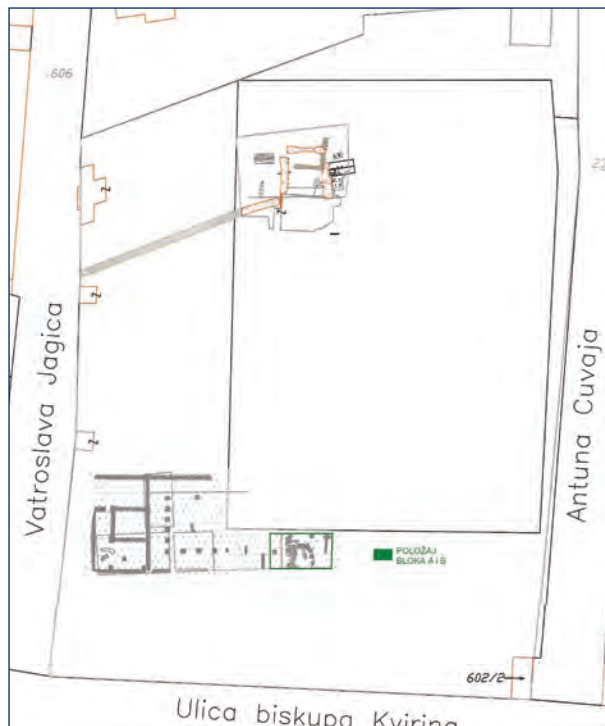
by the building project for the new kindergarten. Due to the extremely valuable archaeological finds, and in agreement with the city of Sisak, the kindergarten project was dropped and the area (1,5 ha) was converted into an archaeological zone intended to be the future archaeological park Siscia – Sv. Kvirin (Burmaz & Lolić 2005: 125). Because of the complexity of this part of the site and the large area of excavation, it was decided that the site excavated in 2003 would be preserved by backfilling until new conditions for further research and preservation would appear in presentational form. Excavations continued in 2004 in the northern area of the future park where the Roman architectural complex of the monumental northern entrance into Siscia was discovered, and they have been ongoing yearly ever since (Burmaz & Lolić 2005: 125-126; 2006: 175-177; Lolić 2007: 203-206; Tomaš 2008: 228-229; 2009: 289-291; Burmaz & Antolić 2010: 295-298).

The 2003 archaeological excavations revealed the residue of public buildings and the *cardo* alongside the northern rampart of Siscia, a building with a portico, and a layer of the embankment with the remains of wooden architecture, hearths, and kilns (Lolić 2003).

Grid squares A and B are the eastern part of the excavated area (Figure 1). The entire surface of squares A and B is covered with the recent cemetery layer (SU 2), which greatly damaged the layers and

<sup>1</sup> I would like to thank Zrinka Šimić-Kanaet, PhD, and Ivana Ožanić Roguljić, PhD, for their advice and help.

<sup>2</sup> The excavation was led by Tatjana Lolić, senior adviser for the Conservation Department in Zagreb of the Department for the Protection of Cultural Heritage, to whom I am grateful for making the finds available.



Slika 1. Područje arheološkog parka sv. Kvirin s istraženim zonama u razdoblju 2003. – 2006. (Lolić 2007: 204); naznačen položaj bloka A i B

Figure 1. The area of the archaeological park Sv. Kvirin with the excavated zones in the period between 2003-2006 (Lolić 2007: 204); position of grid squares A and B indicated

iznimno vrijednih arheoloških ostataka, u dogovoru s Gradom Siskom, odustalo se od gradnje vrtića te je ovo područje (ukupno 1,5 ha) prenamijenjeno u arheološku zonu koja će se formirati u Arheološki park Siscia - sv. Kvirin. (Burmaz & Lolić 2005: 125). Zbog kompleksnosti ovog dijela lokaliteta i velike površine iskopa odlučeno je kako će se u toj fazi lokalitet istražen 2003. zaštititi ponovnim zatrpavanjem dok se ne stvore uvjeti za daljnje istraživanje i konzerviranje u funkciji prezentacije. Istraživanja su se nastavila 2004. na sjevernom dijelu budućeg parka gdje je nađen kompleks rimske arhitekture monumentalnog sjevernog ulaza u Sisciju, a kontinuirano se provode svake godine. (Burmaz & Lolić 2005: 125-126; 2006: 175-177; Lolić 2007: 203-206; Tomaš 2008: 228-229; 2009: 289-291; Burmaz & Antolić 2010: 295-298).

Zaštitnim arheološkim istraživanjem 2003. otkriveni su ostaci javnih građevina i carda uz sjeverni bedem rimske Siscije, građevina s trijemom, te sloj nasipa s ostacima drvene arhitekture, ognjištima, pećima. (Lolić 2003). Blokovi A i B istočni su dio iskopne površine (Slika 1. ). Na cijeloj površini bloka A i B zabilježen je recentni sloj groblja (SJ 2), koji je znatno uništio slojeve i strukture rimske Siscije. U sjeveroistočnom uglu bloka A nađena su dva zida, tj. kut građevine sačuvan u temeljnoj zoni. Uza sam vanj-



Slika 2. Lokalitet sv. Kvirin, istraživanja 2003., pogled na blok A i B (snimio: M. Arbutina 2003).

Figure 2. The site Sv. Kvirin, the 2003 excavations, view of the grid squares A and B (photographed by: M. Arbutina 2003).

strukture of Roman Siscia. In the northeastern corner of square A two walls were found, i.e. the corner of a building preserved in the foundation layer. Alongside the outer wall of the building, a limestone surface was discovered which continued toward the west, until the remains of the foundations of the column pedestal next to the cardo. A layer foundation 6 m wide made of finely crushed stone was found, along with several smooth stone blocks, and one block used for road pavement. Beneath the layer of sand the main Roman sewer pipe base with the remains of its marginal walls appeared, as well as the small semicircular channel on the east side of the sewer pipe. As on the eastern side, so on the western part, in grid square B, underneath the recent cemetery layer, a light brown layer resides (SU 8). It is a layer of rammed earth which spreads toward the western part of the excavated surface where the foundational pedestals of the columns of the portico building were placed. All the structures in grid squares A and B (the corner of the building in the east, the smaller channel, the pedestals on both sides of the cardo and the sewer pipe remains) are entrenched in the light brown layer of soil (SU 11) with additions of slag, soot and considerable amounts of fine and coarse Roman pottery. Accord-

ski zid te građevine nađena je vapnena podloga koja se prostirala prema zapadu, do ostataka temelja postamenata za stupove portika uz *cardo*. Nađena je podloga *carda* od sipine široka 6 m, te nekoliko za-glađenih kamenih blokova, te jedan kameni blok sa spurilama kojima je cesta bila popločena. Ispod sloja pijeska nađeno je samo dno i dijelovi rubnih zidova rimskog kolektora te s njegove istočne strane manji, polukružno postavljen kanal. Kao i na istočnoj strani *carda* tako i zapadno, u bloku B, ostatak je postamenta stupa portika koji je pratio cestu. Zapadno od postamenta u bloku B, ispod recentnog sloja groblja, sloj je svijetlosmeđe zemlje (SJ 8). Radi se o sloju nabijene zemlje koja se prostire prema zapadnom dijelu istražene površine u kojoj su bili temeljeni postamenti stupova građevine s portikom.

Sve strukture u blokovima A i B (kut građevine na istoku, manji kanal, postamenti s obje strane *carda* i ostaci kolektora) ukopane su u sloj sivo-smeđe zemlje (SJ 11) s primjesama šljake, gara i znatne količine fine i grube rimske keramike. Prema nalazima i stratigrafiji može se zaključiti kako se radi o sloju nastalom nakon uništenja prve faze izgradnje rimske Siscije (Miletić 2007: 38–39). U ovom radu analizira se keramika tankih stijenki nađena na području bloka A i B, u sloju nasipa (SJ 11).

## 2. ANALIZA KERAMIKE TANKIH STIJENKI S LOKALITETA SV. KVIRIN, ISTRAŽIVANJA 2003., SJ. 11, BLOKOVI A I B

Pregledom keramičkih nalaza izvojeno je 190 ulomaka keramike tankih stijenki, a analizirano je, tipološki i kronološki, te kataloški obrađeno 100 ulomaka. Za obradu su izdvojeni oni ulomci koji se mogu tipološki odrediti, a to su rubovi, dna i ulomci s ukrasom. Samo je 8 zdjelica moguće rekonstruirati potpuno. Analizirana keramika tankih stijenki s lokaliteta sv. Kvirin istraživanja 2003., iz stratigrafske jedinice SJ 11 razlikuje se prema tehnici izrade, fakturi, po obliku te načinu ukrašavanja keramike.

### 2.1. TEHNIKA IZRADA I NAČIN PEČENJA

Pregledom analizirane keramike tankih stijenki može se zaključiti kako je izrađena u kalupu i na lončarskom kolu od fine pročišćene gline. Na lokalitetu sv. Kvirin, u sloju SJ 11, od ukupno 100 obrađenih, 15 je ulomaka keramike tankih stijenki redukcijski pečenih, dok je 85 oksidacijski pečeno.

Tipološki su zastupljene zdjelice i čaše. S obzirom na fragmentiranost materijala sa sigurnošću je moguće, od 100 analiziranih, prepoznati 42 zdjelice te 3 čaše.

ing to stratigraphy finds, the conclusion is that the layer was created after the destruction of the first phase of the construction of Roman Siscia (Miletić 2007: 38–39). This work analyzes the thin-walled pottery from the squares A and B, in the embankment layer (SU 11).

## 2. THE ANALYSIS OF THIN-WALLED POTTERY FROM THE SITE SV.KVIRIN, THE 2003 EXCAVATION, SU 11, GRID BLOCKS A AND B

The examination of ceramic finds produced 190 fragments of thin-walled pottery, and 100 of them have been analyzed typologically and chronologically, and cataloged. Fragments which can be determined typologically have been selected, and those are rims, bases and fragments carrying decoration. Only eight bowls can be completely reconstructed. The analysis of thin-walled pottery from the 2003 excavation of the site Sv. Kvirin, from the stratigraphic unit SU 11 differs according to the manufacture technique, clay texture and type of decoration.

### 2.1. THE MANUFACTURE TECHNIQUE AND FIRING PROCESS

The analysis of the thin-walled pottery revealed it was made in a mold on the potter's wheel, of highly refined clay. On the site of Sv. Kvirin, in SU 11, of the 100 fragments analyzed overall, 15 sherds of thin-walled pottery were fired in reduction and 85 in oxidation. Typologically, the prevailing types are bowls and cups. Given the fragmentation of the material, it is possible to determine with certainty 42 bowls and 3 cups out of the 100 analyzed sherds.

### 2.2. CLAY TEXTURE ANALYSIS

The analysis of clay body texture was done based on the tactile and visual macroscopic method. The sherds were classified according to the color and structure of the cross-section, and the color and type of coating, into 11 clay textures (Sisc.kts1-11).

**Sisc.kts.1** (T.6: 1) Thin-walled pottery of beige color (cat. no. 4 a, b, c). The walls are hard, polished and of uniform beige color (skin color), 10yR 8/3 very pale brown. Only three fragments were preserved. The sherds have a smooth silky surface with no decoration or coating. Since their size does not exceed 3 cm, it is not possible to determine if the decoration was placed on the belly of the cup. The shape and

## 2.2. ANALIZA FAKTURA

Analiza faktura napravljena je na temelju taktilne i vizualne makroskopske metode. Razvrstani su ulomci prema boji i strukturi presjeka, te boji i vrsti premaza u jedanaest faktura (Sisc.kts1-11).

**Sisc.kts.1** (T.6: 1) Keramika tankih stijenki bež boje (kat. br. 4 a, b, c). Stijenke su tvrde, zaglađene, ujednačene bež boje (boja kože), 10yR 8/3 very pale brown. Sačuvana su samo tri ulomka. Nađeni ulomci su glatki bez ukrasa, svilenkaste površine, bez premaza. Kako se radi o ulomcima do 3 cm veličine nije moguće utvrditi da li se na trbuhu čaše nalazio ukras. Oblikom i fakturama ulomci imaju analogije s keramikom tankih stijenki iz Španjolske (Baetica) (López Mullor: 1989: T. 88: 6,7; T. 132: 3) koja se proizvodila od Tiberijeva vremena (14. – 37. g.), a vrhunac produkcije je od 40. do 80. g. (Tyers 1996: 160). U do sada analiziranom i objavljenom materijalu keramike tankih stijenki, s prostora hrvatskog dijela provincije Panonije, nije zabilježen nalaz keramike tankih stijenki s prostora današnje Španjolske. Na prostoru Dalmacije objavljen je nalaz španjolske keramike tankih stijenki nađen u Tiluriju (Šimić-Kanaet 2010: 33). Pojava keramike tankih stijenki iz Španjolske na prostoru Siscije može se vezati uz boravak vojske<sup>3</sup> ili uz trgovinu amfora Dressel 20. Zbog slabe očuvanosti tj. fragmentiranosti tri ulomka iz Siska daljnje će interdisciplinarnе analize utvrditi da li se radi o imitaciji španjolske keramike tankih stijenki ili uvoznog roba.

**Sisc.kts.2** (T.6: 2) Keramika tankih stijenki sivo-crne boje (kat. br. 24). Keramika je svijetlo do tamno sive i crne boje. Stijenke su tvrde, zvonke. Ovoj skupini može se pripisati ulomak bikonične zdjelice kat. br. 24 vrlo tankih stijenki crne boje (GLE1 4 dark gray), zaglađene, svilenkaste površine bez premaza. Ukrašen je nizom manjih vrlo oštarih zarezova. Prema opisu i obliku može se usporediti s Fabrikatom D prema podjeli materijala s Magdalensberga (Schindler-Kaudelka & Schneider 1998: 399).

**Sisc.kts.3** (T.6: 3) Keramika tankih stijenki sivo-crne boje s premazom (kat. br. 1, 2, 5, 6, 7, 18, 20, 23, 80, 81, 83, 84, 86, 87, 89). Skupinu karakterizira redukcijski pečena keramika tankih stijenki s tamno sivim do crnim premazom (7.5yR 5/1 gray, 7.5yR 6/2 pinkish gray, GLE1 4 dark gray). Javlja se mat i sjajni premaz. U ovoj skupini 6 ulomaka tvrdih stijenki sive boje (7.5yR 5/1 gray, GLE1 5 gray) kat. br. 1, 2, 5-7 ima mat premaz s primjesama sitnog pijeska. Ulomak kat. br. 23 jedini je ulomak sa saču-

clay texture have parallels to the thin-walled pottery from Spain (Baetica) (López Mullor: 1989: T. 88: 6,7; T. 132: 3) which was produced from the reign of Tiberius (14 – 37 AD), with the height of production between 40 and 80 AD (Tyers 1996: 160). So far, the examined and published finds of thin-walled pottery from the Croatian part of the Pannonia province mention no trace of a thin-walled pottery find from Spain. A Spanish thin-walled pottery find was found in Tilurium and published (Šimić-Kanaet 2010: 33). The appearance of thin-walled pottery from Spain in the Siscia area can be related to the army presence<sup>3</sup> or to the Dressel 20 amphorae trade. Due to the poor preservation, i.e. the fragmented state of the three sherds from Siscia, further interdisciplinary analysis will determine if this is a case of Spanish thin-walled pottery imitation or import.

**Sisc.kts.2** (T.6: 2) Thin-walled pottery of gray-black color (cat. no. 24).

The pottery is light to dark gray and black. The walls are hard and reverberant. A fragment of the biconical bowl cat. no. 24 can be attributed to this group, with very thin black walls (GLE1 4 dark gray), and a smooth silky surface without coating. It is decorated with a series of small sharp notches. Based on the description and shape it can be compared to the factory-finished product D, according to the classification of finds from Magdalensberg (Schindler-Kaudelka & Schneider 1998: 399).

**Sisc.kts.3** (T.6: 3) Coated thin-walled pottery of gray-black color (cat. no. 1, 2, 5, 6, 7, 18, 20, 23, 80, 81, 83, 84, 86, 87, 89). The group is characterized by reduction fired thin-walled pottery with a dark-gray to black coating (7.5yR 5/1 gray, 7.5yR 6/2 pinkish gray, GLE1 4 dark gray). Matte and glossy coatings also appear. In this group 6 hard-walled gray sherds (7.5yR 5/1 gray, GLE1 5 gray) cat. no. 1, 2, 5-7, have a matte coating tempered with fine sand. The fragment cat. no. 23 is the only fragment with a preserved coating of graphite-black gloss on the outer surface. Analogous to this clay texture would be the thin-walled pottery "Fabrikat E" from Magdalensberg. E. Schindler-Kaudelka classifies them usually as thin-walled pottery finds from the second half of the 1st century. He states they come in many variants of decoration and quality (Schindler-Kaudelka & Schneider 1998: 399–401). This group appears on other Pannonian sites as well. Examples have been reported in Emona (Plesničar-Gec 1977: 18) and Carnuntum (Gassner 1990: 256–261).

<sup>3</sup> Pretpostavlja se kako je legija IX Hispana boravila u Panoniji u 1. pol. 1. stoljeća, vjerojatno u Sisciji sve do odlaska u Britaniju između 42. i 45. godine. (Hoti 1992: 142).

<sup>3</sup> It is assumed that the Legio IX Hispana stayed in Pannonia in the first half of the 1st century, most likely in Siscia, until its departure for Britannia between 42 and 45 AD (Hoti 1992: 142).

vanim premazom grafitnog sjaja na vanjskoj površini. Analogna ovoj fakturi bila bi keramika tankih stijenki Fabrikata E iz Magdalensberga. E. Schindler-Kaudelka ubraja ih u najčešće nalaze keramike tankih stijenki druge polovice 1. stoljeća. Navodi kako se javljaju s vrlo velikim varijacijama ukrasa te različite kvalitete. (Schindler-Kaudelka & Schneider 1998: 399–401). Ova skupina pojavljuje se i na drugim panonskim nalazištima. Zabilježeni su primjeri iz Emone (Plesničar-Gec 1977: 18) te Carnuntuma (Gassner 1990: 256–261).

**Sisc.kts.4** (T.6: 4) Keramika tankih stijenki žuto-zelene boje sa sivo-smeđim premazom (kat. br. 3, 36, 41, 43, 63). Skupinu keramike tankih stijenki žuto-zelenkaste boje stijenki (2.5y 8/3 pale yellow, 5y 8/3 pale yellow) čini 5 primjera. Stijenke su mekše premazane premazom sivo-smeđe boje (7.5yR 6/4 light brown – 4/1 dark gray) koji je slabo sačuvan. Ukrašeni su pjeskastim i barbotinskim ukrasom i to motivom narebrenih ljuskica, manjim listićima, spiralnim viticama i stiliziranim listovima. Prema boji fature odgovara fakturi lyonske keramike tankih stijenki (Tyers 1996: 148), u Magdalensbergu opisane kao Fabrikat H (Schindler-Kaudelka 1975: 35) no motivi barbotinskog ukrasa upućuju na južnopanonske radionice. Analogije ovoj skupini nisu nađene u dostupnoj literaturi. Daljnje interdisciplinarnе analize pokazat će radi li se o imitaciji lyonske keramike ili proizvodu do sada neutvrđene radionice.

**Sisc.kts.5** (T.6: 5) Keramika tankih stijenki svijetlo sivo-smeđe boje s narančasto-smeđim i smeđim premazom (kat. br. 12, 13, 15, 17, 21, 27). Skupinu karakterizira sivo-smeđa boja stijenki (2.5y 7/1 light gray, 7.5yR 8/3 pink, 10yR 6/1 gray), zatim narančasto-smeđi i smeđi nijansirani premaz (5yR 6/6 reddish yellow – 4/1 dark gray, 7.5yR 6/6 reddish yellow – 4/2 brown), izrazito fina faktura te ukrašavanje motivom sitnih gustih zarezaz izvedenih kotačićem. Unutarnja površina premazana je premazom s primjesom sitnih zrnaca pijeska. Sačuvani ulomci rubova izrazito su tanki te vrlo fine fature. Premaz je mat ili sjajan. Prema opisu odgovara skupini keramike tankih stijenki nađenih u Carnuntumu (Gassner 1990: 264), gdje su ukrasi barbotinski i nemaju paralele s ovim primjercima iz Siska. Oblikom i ukrasom podsjećaju na primjerke sive keramike sa crnim premazom (Schindler-Kaudelka 1975: T. 17), ali nikako se ne mogu vezati uz tu skupinu s obzirom na karakterističan premaz.

**Sisc.kts.6** (T.6: 6) Keramika tankih stijenki bež, svijetlo smeđe, narančaste, narančasto-roza boje s narančastim, narančasto-crveno-smeđim i smeđim premazom. (kat. br. 8, 9, 10, 14, 16, 29, 30, 32, 34, 39, 40, 45, 48, 49, 50, 55, 57, 62, 59, 60, 65, 66, 68, 73, 74, 79, 82, 97). Skupina čini 14% analizirane keramike

**Sisc.kts.4** (T.6: 4) Thin-walled pottery of yellow-green color with a gray-brown coating (cat.no. 3, 36, 41, 43, 63). This group of thin-walled pottery with yellow-green colored walls (2.5y 8/3 pale yellow, 5y 8/3 pale yellow) consists of 5 examples. The walls are softer and covered in a gray-brown coating (7.5yR 6/4 light brown – 4/1 dark gray) which has been poorly preserved. The decoration consists of sandy and barbotine ornaments, with motifs of ribbed scales, smaller leaves, spiral coils and stylized leaves. The clay texture color corresponds to the clay texture of the Lyon thin-walled pottery (Tyers 1996: 148), classified in Magdalensberg as Fabrikat H (Schindler-Kaudelka 1975: 35), but the motif of barbotine decoration indicates southern Pannonian workshops. Analogies with this group are not available in scientific literature. Further interdisciplinary analysis will show if this is an imitation of Lyon pottery or the work of some new unspecified workshop.

**Sisc.kts.5** (T.6: 5) Thin-walled pottery of light gray-brown color with an orange-brown and brown coating (cat. no. 12, 13, 15, 17, 21, 27). The group is characterized by gray-brown walls (2.5y 7/1 light gray, 7.5yR 8/3 pink, 10yR 6/1 gray), nuanced orange-brown and brown coating (5yR 6/6 reddish yellow – 4/1 dark gray, 7.5yR 6/6 reddish yellow – 4/2 brown), particularly fine clay texture, and decoration with the motif of tiny densely-packed notches banded by a small roller. The inner surface is coated with a layer tempered with tiny grains of sand. The preserved rim sherds are extremely thin and have very fine clay texture. The coating is matte or glossy. Based on the description, it corresponds to the thin-walled pottery group from Carnuntum (Gassner 1990: 264), where there are barbotine decorations, and there are no parallels with the Sisak examples. The shape and decorations recall the gray pottery examples coated in a black layer (Schindler-Kaudelka 1975: T. 17), but they cannot be linked to this group because of the characteristic coating.

**Sisc.kts.6** (T.6: 6) Thin-walled pottery of beige, light brown, orange, orange-pink color with an orange, orange-red-brown and brown coating (cat. no. 8, 9, 10, 14, 16, 29, 30, 32, 34, 39, 40, 45, 48, 49, 50, 55, 57, 62, 59, 60, 65, 66, 68, 73, 74, 79, 82, 97). This group makes up 14% of the analyzed thin-walled pottery. It is characterized by oxidation fired pottery with light brown, orange to orange-pink walls (10yR 7/4 very pale brown, 7.5yR 8/4 pink, 7.5yR 7/4 pink, 5yR 7/6 reddish yellow, 2.5yR 7/4 light reddish brown), with a coating of intense orange, orange-red, and brown color (10yR 4/3 brown – 6/6 brownish yellow, 5yR 6/6/7/8 reddish yellow – 5/3 reddish brown, 5yR 4/2 dark reddish gray, 5yR 5/6 yellowish red,



tankih stijenki. Karakterizira je oksidacijski pečena keramika, svijetlo smeđe, narančaste do narančasto-roza boje stijenke (10yR 7/4 very pale brown, 7.5yR 8/4 pink, 7.5yR 7/4 pink, 5yR 7/6 reddish yellow, 2.5yR 7/4 light reddish brown), s premazom intenzivne narančaste, narančasto-crvene, smeđe boje (10yR 4/3 brown – 6/6 brownish yellow, 5yR 6/67/8 reddish yellow – 5/3 reddish brown, 5yR 4/2 dark reddish gray, 5yR 5/6 yellowish red, 2.5yR 6/8 light red, 2.5yR 5/8 red). Velike su varijacije u boji prema za unutarnjih i vanjskih stijenka. Premaz je sjajni ili mat, uglavnom unutarnja stijenka ima metalni sjaj. Neki primjerci na unutarnjoj površini imaju primjese pijeska. Od motiva se pojavljuje barbotinski ukras motiva narebrenih ljuskica, kapljica, spiralne vitice, cvjetni motivi, listovi te pjeskasti ukras. U donjem dijelu ukrašeni su zarezima izvedenim kotačićem, a u unutrašnjosti sitnim zrcima pijeska. Prema opisu i usporedbi faktura i ukrasa ova skupina mogla bi se pripisati južnapanonskim radionicama<sup>4</sup>. Prema nalazima keramike tankih stijenki nađenih u Carnuntumu kronološki se južnapanonska keramika tankih stijenki pojavljuje u kladijevsko-neronsko vrijeme te nastavlja koristiti i u razdoblju vladavine Flavijevaca, do Trajana. (Gassner 1992: 463). Može se usporediti i s fabrikatom F s Magdalensberga (Schindler-Kaudelka 1975: 33–34)

**Sisc.kts.7** (T.6: 7) Keramika tankih stijenki bež boje (10yR 8/3 very pale brown) s tamno smeđim – crnim premazom (kat. br. 19, 58). Premaz je mat (10yR 5/3 brown – 4/1 dark gray, 7.5yR 4/1 dark gray – 5/6 strong brown) i nejednako je nanesen na keramiku. Od motiva se pojavljuju peteljke, listovi u kombinaciji s bobicama na čaši izvinutog ruba kat. br. 58, te nizovi izvedeni kotačićem koji tvore strukturu tkanine.

**Sisc.kts.8** (T.6: 8) Keramika tankih stijenki svijetlo smeđe boje (10yR 7/4 very pale brown) i tamno-smeđim nijansiranim premazom (7.5yR 7/6 reddish yellow – 3/1 very dark gray) utvrđen je na jednom ulomku ruba ukrašenog motivom zvonastog cvijeta za koji nisu pronađene paralele (kat. br. 77). U keramici su vidljive sitne crne primjese, dobro je pečena i tvrda. Premaz ima blagi sjaj.

**Sisc.kts.9** (T.6: 9) Keramika tankih stijenki bež–bijele boje (10yR 8/3 very pale brown) s narančastim premazom (5yR 6/6 reddish yellow, 2.5yR 6/6 – 6/8 light red) (kat. br. 11, 25, 53). Boja je mat i ujednačena. Od ukrasa pojavljuju se trokutići i zarezni, te barbotin ukras s motivom stiliziranog lista.

2.5yR 6/8 light red, 2.5yR 5/8 red). The color of the coating varies greatly between the inner and outer walls. The coating is glossy or matte, the inner walls mostly having a metallic gloss. Some examples have the inner surface tempered with sand. The decoration is usually the barbotine motif of ribbed scales, droplets, spiral coils, floral motifs, leaves and sandy decorations. The lower parts are decorated with notches banded by a small roller, and the inside is tempered with grains of sand. According to the description and comparison of clay textures and decorations, this group can be ascribed to the southern Pannonian workshops<sup>4</sup>. According to the thin-walled pottery finds from Carnuntum, the southern Pannonian thin-walled pottery appears in the Claudian-Nero era, and its usage continues during the Flavian reign, up until Trajan (Gassner 1992: 463). It can be compared to the Fabrikat F group from Magdalensberg (Schindler-Kaudelka 1975: 33–34).

**Sisc.kts.7** (T.6: 7) Thin-walled pottery of beige color (10yR 8/3 very pale brown) with a dark brown-black coating (cat. no. 19, 58). The coating is matte (10yR 5/3 brown – 4/1 dark gray, 7.5yR 4/1 dark gray – 5/6 strong brown) and unevenly applied. The motifs that appear are stalks, leaves in combination with berries on a glass with an inverted rim cat. no. 58, and lines applied with a roller that create a textile-like structure.

**Sisc.kts.8** (T.6: 8) Thin-walled pottery of light brown color (10yR 7/4 very pale brown) and a dark-brown nuanced coating (7.5yR 7/6 reddish yellow – 3/1 very dark gray) established on one rim sherd decorated with the bell-shaped flower motif unparallel anywhere else (cat. no. 77). Tiny black admixtures are visible in the pottery which is well fired and has hard walls. The coating is slightly glossy.

**Sisc.kts.9** (T.6: 9) Thin-walled pottery of beige-white color (10yR 8/3 very pale brown) with an orange coating (5yR 6/6 reddish yellow, 2.5yR 6/6 – 6/8 light red) (cat. no. 11, 25, 53). The color is matte and even. The decoration comes in the form of triangles and notches, and the barbotine appliqué with the stylized leaf motif.

**Sisc.kts.10** (T.6: 10) Thin-walled pottery of brown, orange-brown, pink-brown, and pink color with a red coating (cat. no. 26, 37, 38, 44, 47, 51, 52, 54, 61, 64, 71, 72, 76, 85, 88, 92, 95). The coating is dark to bright red (2.5yR 5/8 red, 10R 4/8 red), matte or glossy. Some interior walls are tempered with sand grains. The sherds cat. no. 61, 72 stand out, and

<sup>4</sup> Južnapanonsku keramiku tankih stijenki karakterizira smeđi presjek, narančasto-smeđi premaz blagog metalnog sjaja. Ukrašen i su plastičnim barbotinom. (Gassner 1992: 449).

<sup>4</sup> South Pannonian thin-walled pottery is characterized by a brown cross-section and an orange-brown coating of slight metal sheen. It is decorated with barbotine appliqués (Gassner 1992: 449).

**Sisc.kts.10** (T.6: 10) Keramika tankih stijenki svijetlo smeđe, narančasto-smeđe, roza-smeđe, roza boje s crvenim premazom. (kat. br. 26, 37, 38, 44, 47, 51, 52, 54, 61, 64, 71, 72, 76, 85, 88, 92, 95). Premaz je zagasite do žarko crvene boje (2.5yR 5/8 red, 10R 4/8 red), mat ili sjajni. Na nekim unutarnjim stijenka nalazi se premaz s primjesama sitnog pijeska. Ističu se ulomci kat. br. 61, 72 te kat. br. 38, 44 čiji premaz podsjeća na premaz koji je karakterističan za teru sigilatu. Prema opisu odgovara fabriku K s Magdalensberga (Schindler-Kaudelka 1975: 35–36). Ulomci kat. br. 52, 54, 71 pripadaju zasigurno istoj seriji proizvodnje od iste smjese možda istog majstora. Od motiva pojavljuje se ukras izveden kotačićem, motiv spiralne vitice, narebreni stilizirani listovi, mali listići, narebrene ljuskice.

**Sisc.kts.11** (T.6: 11) Keramika tankih stijenki svijetlo smeđe do bež boje s narančastim, crveno-smeđim premazom (kat. br. 98, 99, 100). Ova grupa izdvaja se i oblikovanjem. To su zdjelice šireg otvora čija je debljina stijenke oko 4–5 mm. Imaju profilirani rub i ukrašene su zarezima i/ili trokutićima izvedenim kotačićem. Premaz je, u gornjim dijelovima zdjele, svjetliji tj. crvene ili narančaste boje (2.5yR 5/8 red) dok je u donjim dijelovima tamniji, crvene ili smeđe boje (2.5yR 4/4 reddish brown).

Analizom je utvrđeno 11 različitih faktura što ukazuje na raznolikost koja upućuje na mogući broj radionica, ali i raznovrsnost u načinu ukrašavanja i pečenju keramike tankih stijenki u istoj radionici. Najzastupljenija je faktura Sisc.kts.6 koja se može pripisati južnopanonskim radionicama. Od motiva zastupljen je barbotinski ukras motiva narebrenih ljuskica, kapljica, spiralne vitice, cvjetni motivi, listovi, pjeskasti ukras te ukras urezivanjem s motivom mreže. Panonskim radionicama mogla bi se pripisati faktura Sisc.kts.10 na kojoj se pojavljuje ukras izveden kotačićem, motiv spiralne vitice, narebreni stilizirani listovi, mali listići, narebrene ljuskice te faktura Sisc.kts.11. s ukrasima zarezima i/ili trokutića izvedenih kotačićem. Italskim radionicama može se pripisati faktura Sisc.kts. 2. te Sisc.kts. 3. Izuzetak predstavljaju faktura Sisc.kts.1 te Sisc.kts.4. Faktura Sisc.kts.1. bojom odgovara fakturi keramike tankih stijenki iz Španjolske što bi bio prvi nalaz španjolske keramike tankih stijenki na prostoru hrvatskog dijela Panonije. Faktura Sisc.kts.4. odgovara bojom fakturi lyonske keramike tankih stijenki, no ukrasi upućuju na vezu s motivima koji prevladavaju u proizvodima panonskih radionica. Daljnje analize te multidisciplinarni pristup pokazati će izvorište ove do sada nezabilježene radionice keramike tankih stijenki u Hrvatskoj.

cat. no. 38, 44 have a coating which is reminiscent of the coating characteristic of terra sigillata. The description corresponds to the Fabrikat K group of Magdalensberg (Schindler-Kaudelka 1975: 35–36). The sherds cat. no. 52, 54, 71 belong to the same manufacture series from the same mixture of the possibly same craftsman. The motifs which appear are roller-made, spiral coils, ribbed stylized leaves, leaflets, and ribbed scales.

**Sisc.kts.11** (T.6: 11) Thin-walled pottery of light brown to beige color with orange, red-brown coating (cat. no. 98, 99, 100). This groups stands out with its form. The bowls have a wider opening with a wall thickness of 4–5mm. They have a molded rim and are decorated with notches and/or triangles banded by a small roller. The coating is, in the upper parts of the bowl, lighter, i.e. red or orange (2.5yR 5/8 red), while in the lower parts it is darker, red or brown (2.5yR 4/4 reddish brown).

The analysis has revealed 11 different clay textures which points to a diversity indicating a possible large number of workshops, and a diversity in the decoration and firing methods of thin-walled pottery in a single workshop. The predominant clay texture is Sisc.kts.6 which can be attributed to southern Pannonian workshops. The motifs represented are the barbotine motif of ribbed scales, droplets, spiral coils, flower motifs, leaves, sand ornaments and a carved net motif. The clay texture Sisc.kts.10 can also be attributed to the Pannonian workshops where the roller-made motifs appear, as well as spiral coils, ribbed stylized leaves, leaflets, and ribbed scales, along with the Sisc.kts.11 clay texture with notches and/or roller-made triangles. The clay textures Sisc.kts. 2 and Sisc.kts. 3 can be attributed to Italic workshops. Clay textures Sisc.kts.1 and Sisc.kts.4 are an exception. The Sisc.kts.1 clay texture corresponds in color to the clay texture of Spanish thin-walled pottery, which would be the first find of Spanish thin-walled pottery on the territory of the Croatian part of Pannonia. The Sisc.kts.4 clay texture corresponds in color to the clay texture of Lyon thin-walled pottery, but the decoration points to a link with the motifs prevalent on Pannonian workshop products. Further analysis and an interdisciplinary approach will pinpoint the source of the thus-far unrecorded thin-walled pottery workshop in Croatia.

### 2.3. DECORATION ANALYSIS

Thin-walled pottery from the Sisak site Sv. Kvirin (2003) is decorated with coatings and incised, impressed and appliqué figures. The appliqué figures can

### 2.3. ANALIZA UKRASA

Keramika tankih stijenki iz Siska, s lokaliteta sv. Kvirin, 2003. ukrašena je premazima i ukrasima izvedenim urezivanjem, utiskivanjem i onima ukrašenim apliciranjem. Od apliciranih ukrasa javlja se barbotin ukras, i ukras nanosa sitnih zrnaca pijeska. Barbotin ukras javlja se u velikom broju motiva (motiv ljuska, kapljicašti motiv, listovi različitog oblikovanja, cvjetovi, girlande<sup>5</sup>, zvonasti cvjetovi, spirale). Od 100 analiziranih 44 ih ima unutarnju površinu stijenke prekrivenu sitnim zrnacima pijeska.

#### 2.3.a. Keramika tankih stijenki ukrašena urezivanjem (kat. br. 29) (T.7: 4)

Na lokalitetu sv. Kvirin u Sisku nađen je ulomak čaše, oksidacijski pečene crveno-smeđe boje s blagim sjajem, ukrašen tankim finim urezanim paralelnim, vertikalnim linijama preko cijele površine koje sijeku naknadno urezane okomite linije te formiraju mrežu<sup>6</sup>. Vertikalne linije pravilno su raspoređene dok su one okomite nepravilnije raspoređene. Slična zdjelica, redukcijski pečena izrazito fine izrade, nađena je u Emoni (Curk 1971: 61, sl. 1: 16; Plesničar-Gec 1977: 21, T. 2: 12) te u Poetoviji (Istenić 1999: 104). Isti tip nalazi se u repertoaru keramike ranog carstva iz Panonije (Bonis 1942: 45, T. XIX: 14). Čaša s tom vrstom ukrasa sivo-crne boje nađena je i na Magdalensbergu datirana od oko 20. do 30. g. (Schindler-Kaudelka 1975: T. 18: 95c).

#### 2.3.b. Keramika tankih stijenki ukrašena utiskivanjem s motivom zarezata ili trokutića (kat. br. 10–28, 61, 88, 90–94, 96–97, 98–100) (T.7: 2, 3)

Na zdjelicama se javlja ukras zarezata i/ili trokutića izvedenih utiskivanjem. Pojavljuje se kao samostalan ukras (kat. br. 10–16, 20, 26, 97) ili u kombinaciji s drugim ukrasima kada je uglavnom smješten u donjem dijelu posudica. Keramika tankih stijenki ukrašena utiskivanjem s motivom zarezata ili trokutića vrlo je rasprostranjena keramika te tipičan proizvod kojeg traži tržište od prve polovice 1. st. na dalje na prosotru Italije, Galije (Gervasini 2005: 297–307), Dalmacije<sup>7</sup> te Panonije. Zabilježen je nalaz u ranocarskoj nekropoli u Kunovec Bregu

be barbotine and deposits of tiny grains of sand. The barbotine appears in a great number of motifs (scales, droplets, leaves of various design, flowers, garlands<sup>5</sup>, bell-shaped flowers, spirals). Out of the 100 analyzed pieces, 44 have the interior surface walls covered in tiny grains of sand.

#### 2.3.a. Thin-walled pottery decorated by incising (cat. no. 29) (T. 7: 4)

At the site Sv. Kvirin in Sisak, a cup sherd was found, made by oxidation firing, of red-brown color with a slight gloss, decorated with thin, finely incised parallel lines across the entire surface, which are crossed by subsequently incised vertical lines, forming a net<sup>6</sup>. The vertical lines are evenly distributed, while the perpendicular ones are uneven. A similar bowl finely made by reduction firing was found in Emona (Curk 1971: 61, fig. 1: 16; Plesničar-Gec 1977: 21, T. 2: 12) and in Poetovio (Istenić 1999: 104). The same type can be found in the repertoire of the Pannonian pottery of the Early Empire (Bonis 1942: 45, T. XIX: 14). A cup with the same type of decoration of gray-black color was found in Magdalensberg and dated between AD 20 to 30 (Schindler-Kaudelka 1975: T. 18: 95c).

#### 2.3.b. Thin-walled pottery decorated with impressed notch or triangle motifs (cat. no. 10–28, 61, 88, 90–94, 96–97, 98–100) (T.7: 2, 3)

The impressed notch and/or triangle motif appears on the bowls. It appears as a standalone ornament (cat. no. 10–16, 20, 26, 97) or in combination with other ornaments when it is placed usually in the lower part of the vessel. Thin-walled pottery decorated with impressed notches or triangles is very widespread and a typical product in demand on the market from the first half of the 1st century onward, on the territory of Italy, Gaul (Gervasini 2005: 297–307), Dalmatia<sup>7</sup> and Pannonia. Finds from the Early Empire have been reported in the necropolis of Kunovec Breg (Demo 1982: T. 11: 14–16), in the western necropolis of Poetovio (Istenić 1999: 103–113), in the Emona necropolises (Plesničar-Gec 1977: 18–19), in the habitation layers of Sirmium, Mursa (Brukner 1981: Brukner 1981: T. 57: 56, 58, 60), Sisak

<sup>5</sup> Girlanda – ukrasni vijenac od lišća, cvijeća, plodova, često isprepletan vrpčama, ovješten poput lanca (Hrvatski enciklopedijski rječnik, str. 333, Novi Liber 2002, 2004, Zagreb)

<sup>6</sup> Motiv urezata koji tvore mrežu prema podjeli A. Ricci, "Ceramica a pareti sottili", u: *Atlante*, vol. 2., naziva se tal. *fitta seria* i ima oznaku ukras 43 (Ricci 1985: 313; T. CI: 1).

<sup>7</sup> Proizvodnja keramike tankih stijenki na području sjevernog priobalja provincije Dalmacije, između ostalih i onih ukrašenih s motivom utisnutih zarezata, do sada je potvrđena u Crikvenici. (Ožanić Roguljić 2011: 32–33).

<sup>5</sup> Garland - a decorative wreath of leaves, flowers, fruits, often intertwined with ribbons, hanging like a chain (Croatian Encyclopedic Dictionary, pg. 333, Novi Liber 2002, 2004, Zagreb)

<sup>6</sup> Notches forming a net as a decoration motif is classified by A. Ricci, "Ceramica a pareti sottili", in: *Atlante*, vol 2, as *fitta seria* in Italian, and it is labeled as decoration 43 (Ricci 1985: 313; T. CI: 1).

<sup>7</sup> The manufacture of thin-walled pottery in the northern coastal region of the province of Dalmatia, among others the impressed notch motif as well, has so far been confirmed in Crikvenica (Ožanić Roguljić 2011: 32–33).

(Demo 1982: T. 11: 14–16), u poetovionskoj zapadnoj nekropoli (Istenić 1999: 103-113), u emonskim nekropolama (Plesničar-Gec 1977: 18–19) zatim u nasebinskim slojevima Sirmija, Murse (Brukner 1981: Brukner 1981: T. 57: 56, 58, 60), Siska (Vidošević 2003: 24, T. 21: 14–15) te drugim nasebinskim nalazištima. Import zasigurno predstavljaju ulomci rubova kat. br. 12, 13, 15 te ulomci stijenka kat. br. 23, 24 vrlo fine izrade i izrazito tankih stijenki. Ulomak kat. br. 23 ističe se grafitnim sjajem na svojoj površini, ulomak je izrazito fine fakture te tankih stijenki. U Magdalensbergu keramika tankih stijenki s grafitnim sjajem spada u fabrikat D – terra nigra i datira se u 1. pol. 1. stoljeća (Schindler-Kaudelka 1975: 32). Kako se radi o izrazito malom ulomku nije moguće odrediti oblik. Oblici ravnih stijenki ruba, s lomom u donjem dijelu zdjelice kat. br. 13, 17, 24 sive mat površine vrlo tankih stijenki imaju paralele s ukrasom i oblikovanjem zdjelice iz Magdalensberga datiranim od 20. do 30. godine (Schindler-Kaudelka 1975: T. 17: 84 c, 96). Oblikovanjem se izdvaja ulomak vertikalnih stijenka ruba s rebrom na prijelazu u središnji dio zdjelice ukrašene zarezima i trokutićima izvedenim kotačićem kat. br. 11. Sličnog je oblikovanja zdjelica iz Emone datirana na kraj 1. st. (Plesničar-Gec 1972: T. XXX: 10, Plesničar-Gec 1977: 19, T. 1: 57). Blago uvučeni i užljebljeni rub stijenke zdjelice ukrašen kanelurama koje tvore širu traku ispunjenu kosim, utisnutim trakama u središnjem dijelu zdjelice, i tanjom trakom ispunjenu gustim uskim utisnutim motivom zareza izvedenim kotačićem kat. br. 97 ima analogije u primjerima keramike tankih stijenki iz Sirmija gdje su datirane u 1. stoljeće (Brukner 1981: T. 57: 52). Taj tip zdjelice najčešći je inventar emonskih nekropola od Tiberija i dijela 2. stoljeća (Plesničar-Gec 1972: T. XXV: 10; Plesničar-Gec 1977: 19). Rekonstruirana cijela zdjelica vrlo sličnog oblikovanja stijenke ruba nađena je i u Vinkovcima nešto drugačije fakture (Ožanić-Roguljić 2007: 176), zatim u Mursi, Sirmiju i Gomolavi (Brukner 1981: T. 57, 52–56).

Zdjelice polukružnog oblika, ukrašene trokutićima izvedenih kotačićem, blijedo narančaste boje s narančasto crvenim premazom koji se ljušti kat. br. 98-100 veće su od ostalih zdjelica tankih stijenki. Takav tip zdjelica nađen je u Sisku, u Starčevićевой ulici 37 (Vidošević 2003: 25). Vrlo slični primjeri nađeni su i na prostoru termi u Ščitarjevu (Rendić-Miočević 1995: 122), u Emoni gdje su datirane grobnim inventarom u klaudivjevsko vrijeme (Plesničar-Gec 1977: 19, T. 1: 61; Plesničar-Gec 1972: T. L: 3), te u Mursi, sa širokom datacijom u 1. stoljeće (Brukner 1981: T. 57: 56, 58, 60).

(Vidošević 2003: 24, T. 21: 14–15) and on other settlement sites. Import is certainly represented by the rim fragments cat. no. 12, 13, 15 and wall fragments cat. no. 23, 24 of very fine craftsmanship and exceptionally thin walls. The fragment cat. no. 23 stands out with its graphite sheen on the gray surface, fine clay texture and thin walls. The thin-walled pottery of Magdalensberg with a graphite gloss is classified as Fabrikat D - terra nigra ware, and dates to the first half of the 1st century (Schindler-Kaudelka 1975: 32). Since the fragment is extremely small, the form cannot be determined. Flat-walled rims, broken in the lower area of the bowl, cat. no. 13, 17, 24, of matte surface and very thin walls have decorations which correspond to the decoration and form of the Magdalensberg bowl dated between AD 20 and 30 (Schindler-Kaudelka 1975: T. 17: 84 c, 96). A form that stands out is the flat-walled rim fragment with a rib placed at the turn towards the central area of the bowl, decorated with notches and triangles made by a roller; cat. no. 11. The Emona bowl from the end of the 1st century has a similar design (Plesničar-Gec 1972: T. XXX: 10, Plesničar-Gec 1977: 19, T. 1: 57). The slightly retracted and grooved bowl rim decorated with canelures forming a wider stripe filled with slant, impressed lines in the mid-section of the bowl, and a thinner stripe filled with dense narrow impressed notches made by a roller, cat. no. 97, has analogies with the Sirmium thin-walled pottery from the 1st century (Brukner 1981: T. 57: 52). This bowl type is the most common type of the Emona necropolises inventory from Tiberius and part of the 2nd century (Plesničar-Gec 1972: T. XXV: 10; Plesničar-Gec 1977: 19). A reconstructed whole bowl of similar rim wall design comes from Vinkovci, but of different clay texture (Ožanić-Roguljić 2007: 176), another from Mursa, Sirmium and Gomolava (Brukner 1981: T. 57, 52–56). T

Bowls of semicircular shape, decorated with roller-made triangles, of pale-orange color with an orange-red coating that peels off, cat. no. 98-100, is larger than the other thin-walled bowls of its type. This type has been found in Sisak, in Starčevićeva street 37 (Vidošević 2003: 25). Similar examples come from the bath complex in Ščitarjevo (Rendić-Miočević 1995: 122), Emona, where they were dated with the cemetery inventory of Claudian era (Plesničar-Gec 1977: 19, T. 1: 61; Plesničar-Gec 1972: T. L: 3), and Mursa, with a wider date of the 1st century (Brukner 1981: T. 57: 56, 58, 60).

2.3.c. Thin-walled pottery with the surface coated in layers of fine sand (cat. no. 1–3, 5–9) (T.7: 1)

8 fragments of bowls decorated with coatings of fine sand have been found on the site. Fragments cat. no.

2.3.c. Keramika tankih stijenki ukrašena nanosom sitnog pijeska na površinu posude (kat. br. 1–3, 5–9) (T.7: 1)

Na lokalitetu je 8 ulomaka zdjelica ukrašenih nanosom sitnog pijeska na površini posude. Ulomci kat. br. 1, 2, 5–7 su redukcijski pečeni sive boje, dok je ulomak ruba stijenke kat. br. 3 svijetlo žuto-smeđe boje, zatim zdjelica kat. br. 8 smeđe boje i ulomak stijenke kat. br. 9 koji je tamno crveno-sive boje pre-maza. Osim nanosa sitnog pijeska na površinu, ulomak kat. br. 5 ukrašen je i kanelurom na gornjem dijelu stijenke zdjelice, dok je zdjelica kat. br. 8 ukrašena rebrom ispod ruba. Na ulomku dna stijenke kat. br. 6 pjeskovite površine javlja se metličasti ukras. U Sisku je keramika tankih stijenki ukrašena nanosom pijeska nađena na lokalitetu u Starčevićovoj ulici 37, u sloju s drvenom arhitekturom (Vidošević 2003: 24; T. 21: 1, 2). U Emoni se javljaju u grobovima prve polovice 1. stoljeća (Kaligula – Klaudije), vrlo su fine fature i krhke su (Plesničar-Gec 1977: T. 1: 16). U naseobinskom su prostoru Emone također brojne, u fazi koja se datira u tiberijsko-klaudijevsko doba. Također se osim sivih pojavljuju i crveno-narančaste (Vičić 1994: 34, 35, T. 19: 6-9, 14). Također se osim sivih pojavljuju i crveno-narančaste. Plesničar-Gec smatra kako su one redukcijski i oksidacijski pečene istodobno, te pretpostavlja dvije radionice. (Plesničar 1971: 116, T. 1: 4, 5; Plesničar-Gec 1977: 15, T. 1: 14–16, 21). U Novom Mestu nađene su u grobu ranotiberijskog doba (Zabehlicky-Scheffenecker 1992: 75, T. 22: 5, T. 101). U Sirmiju se primjerci datiraju u prvu polovicu 1. stoljeća (Brukner 1981: T. 56: 28; 1987: T. 23: 15).

Pregledom fature uočene su razlike u onima oksidacijski i redukcijski pečeni pa bi se, na temelju toga, mogle pretpostaviti različite radionice.

2.3.d. Keramika tankih stijenki ukrašena apliciranjem barbotin ukrasa<sup>8</sup> (kat. br. 30–57, 58-76, 77–81) Ukrašavanje barbotinskom tehnikom najzastupljenije je ukrašavanje na obrađenom materijalu keramike tankih stijenki s lokaliteta sv. Kvirin 2003. iz stratigrafske jedinice SJ. 11, ali i do sada obrađenom materijalu keramike tankih stijenki iz Siska. Ukrašavanje barbotin tehnikom javlja se često u kombinaciji s trakama ispunjenih nizovima zareza izvedenih kotačićem u donjem dijelu posudica. Javljaju se sljedeći motivi reljefnog ukrasa: ljuskasti motiv, motiv spiralnih vitica, kapljičasti motiv te razni vegetabil-

1, 2, 5–7 are reduction fired and of gray color, while the rim wall fragment cat. no. 3 is of light yellow-brown color, next the cat. no. 8 is a bowl fragment of brown color and cat. no. 9 is a wall fragment of dark red-gray coating. Apart from the layers of fine sand on the surface, the cat. no. 5 is decorated with canellures in the upper part of the bowl wall, while cat. no. 8 is decorated with a rib beneath the rim. The base fragment cat. no. 6 has a combed decoration on its sandy surface. The thin-walled pottery from Sisak is decorated with coatings of fine sand, found at the site Starčevićeva street 37, in a layer which also contained wooden architecture (Vidošević 2003: 24; T. 21: 1, 2). In Emona it appears in the graves from the first half of the first century (Caligula - Claudius), the clay texture is very fine and fragile (Plesničar-Gec 1977: T. 1: 16). In the area of the Emona settlement, thin-walled pottery is numerous in the Tiberian- Claudian layer. Apart from the gray fragments, red-orange ones also appear (Vičić 1994: 34, 35, T. 19: 6-9, 14). Plesničar-Gec believes they were fired in both reduction and oxidation atmospheres, and presumes the existence of two workshops (Plesničar 1971: 116, T. 1: 4, 5; Plesničar-Gec 1977: 15, T. 1: 14–16, 21). Fragments from Novo Mesto come from a grave of early Tiberian era (Zabehlicky-Scheffenecker 1992: 75, T. 22: 5, T. 101). The Sirmium examples date from the first half of the first century (Brukner 1981: T. 56: 28; 1987: T. 23: 15).

By noticing from the clay texture that both reduction and oxidation atmospheres were used in the firing process, we can presume that different workshops were involved.

2.3.d. Thin-walled pottery decorated with applied barbotine<sup>8</sup> (cat. no. 30–57, 58-76, 77–81)

The barbotine technique is the most common decoration method present in the analyzed thin-walled pottery finds from Sv. Kvirin (2003), stratigraphic unit 11, and in the analyzed thin-walled pottery finds from Sisak in general. Decoration in barbotine technique often appears in combination with stripes of roller-made notches in the lower area of the bowl. Other relief-motifs which appear: scales, spiral coils, droplets, various plant - berries, stalks, stylized leaves, leaves of various design.

- scale motif (cat. no. 30–38) (T. 7: 5, 6)

Bowls with applied scales as decoration appear at every site in Pannonia, Dalmatia and Noricum

<sup>8</sup> Barbotinska tehnika je postupak izrade reljefnih ukrasa (linija, girlanda, figurica) na keramici; glinena pasta lijepi se na hrapave površine posuda prije pečenja, dopunjuje se bojanjem, glaziranjem ili emajliranjem (Hrvatski enciklopedijski rječnik, A-BEZ, 2002, 2004: 246)

<sup>8</sup> The barbotine technique is the method of creating ornaments in relief (lines, garlands, figures) on pottery; the clay paste is stuck to the rough surface of the vessel before firing, then complemented with color, coating or enameling (Croatian Encyclopedic Dictionary, A-BEZ, 2002, 2004: 246)

ni motivi - bobice, peteljke, stilizirani listovi, listovi različitog oblikovanja.

- ljuskasti motiv (kat. br. 30–38) (T. 7: 5, 6)

Zdjelice s apliciranim ljuskastim ukrasom pojavljuju se na svim nalazištima Panonije, Dalmacije i Norika od poč. 1. st. po. Kr. Najstariji primjeri zdjelice s motivom ljuskica iz Augustovog vremena, dosta rijetki, nađeni su u Sisku.<sup>9</sup> Smatra ih se najranijim uvozom (Plesničar-Gec 1977: 16, 23–26, n. 28). Na lokalitetu sv. Kvirin, od obrađenog materijala keramike tankih stijenki, pojavljuje se nekoliko varijanti ljuskastog motiva. Plastične ljuske jasnih linija pojavljuje se samo na jednom ulomku. Ulomak ruba zdjelice kat. br. 30 ukrašen je motivom tanjih polukružnih ljuski s oštrim krajevima, postavljenih u četiri reda od samog ruba. Sačuvano je i dno koje je ukrašeno sitnim zrnima pijeska. U Emoni se, također, javlja zdjelice s kombinacijom ljuskastog i pjeskastog ukrasa. Datirane su sredinom 1. stoljeća s predmetima koji su značajni za flavijejsko doba i nađene sa sigilatama tipa Drag. 17 B (Plesničar-Gec 1977: 16, T. 1: 22). Motiv ljuskica sličnog oblikovanja pojavljuje se na stjenci ruba vrlo slične boje premaza i presjeka nađene u Tiluriju, u Dalmaciji (Šimić-Kanaet 2010: 31; T. 82: 911). Od pol. 1. stoljeća pojavljuje se u rajnskom i lyonskom području (Schindler-Kaudelka 1975: 121, T. 24: 116a, 116c). Najveći broj ulomaka ukrašen je debljim, nepravilno raspoređenim narebrenim ljuskicama kat. br. 31–38. Na ulomku kat. br. 35 javlja se ukras narebrenih ljuskica u kombinaciji s ukrasom paralelnih traka ispunjenih redovima zareza izvedenih kotačićem u donjem dijelu zdjelice. Analogije s tim tipom narebrenih ljuskica ima na zdjelicama nađenim na Gomolavi (Dautova-Ruševljan & Brukner 1992: 35; T. I: 2). Brukner navodi kako takve zdjelice imaju sa žljebom naglašen rub, dno je prstenasto ili ravno. Također ih datira od sredine 1. do početka 2. stoljeća i smatra ih italiskim importom. (Brukner 1981: 78, T. 55: 1–3, 6). Isti tip nalazi se u repertoaru keramike ranog carstva iz Ljubljane (Bonis 1942: T. XIX: 61), Drnova (Petru & Petru 1978: T. XXXVI: 22, T. LXV: 12), Srijemske Mitrovice, Hrtkovaca - Gomolave (Brukner 1987: 143, T. 7: 9, T. 23: 11). S obzirom na količinu nađenih primjeraka, i veliku koncentraciju nalaza upravo na prostoru Panonije, vjerojatnije se radi o proizvodu panonskih radionica. Na ulomku kat. br. 34 javlja se već potpuno stiliziran - degeneriran motiv narebrenih ljuskica. Ljuskice su razvučene, izdužene, ukrašene rebrima te nepravilno raspoređene.

from the beginning of the 1st century. The oldest examples of bowls with the scale motif, from the time of Augustus, quite rare, have been found in Sisak.<sup>9</sup> These are considered the earliest imports (Plesničar-Gec 1977: 16, 23–26, n. 28). At the site Sv. Kvirin, a few variants of the scale motif appear in the analyzed thin-walled pottery finds. Sculpted scales of clearly visible lines appear on just one fragment.

Wall fragment of the bowl cat. no. 30 is decorated with a motif of thin semicircular scales with sharp ends arranged in four rows from the rim. A base has also been preserved, decorated in tiny grains of sand. Bowls with the combination of scales and sand grains have also been found in Emona. They were dated to the mid-1st century based on other finds significant for the Flavian era, and were found along with the sigillata type Drag. 17 B (Plesničar-Gec 1977: 16, T. 1: 22). The motif of scales of similar design appears on the rim wall fragment of similar coating color and clay texture found in Tilurium, Dalmatia (Šimić-Kanaet 2010: 31; T. 82: 911). It appears from the mid-1st century in the Rhine and Lyon area (Schindler-Kaudelka 1975: 121, T. 24: 116a, 116c). The largest number of finds is decorated with thick, irregularly spaced ribbed scales, cat. no. 31-38. Cat. no. 35 has the ribbed scale ornament in combination with parallel stripes filled with lines of roller-made notches, in the lower bowl area. Analogies with this type of ribbed scales can be found at Gomolava (Dautova-Ruševljan & Brukner 1992: 35; T. I: 2). Brukner states that these bowls have the rim accentuated by a groove, and the base annular or flat. He dates them from the mid-1st century to the beginning of the 2nd century, and considers them to be Italic imports (Brukner 1981: 78, T. 55: 1–3, 6). The same type can be found in the Ljubljana pottery repertoire from the Early Empire (Bonis 1942: T. XIX: 61), in Drnova (Petru & Petru 1978: T. XXXVI: 22, T. LXV: 12), in Srijemska Mitrovica, and in Hrtkovci - Gomolava (Brukner 1987: 143, T. 7: 9, T. 23: 11). Considering the number of examples found, and a large concentration of them being on the territory of Pannonia, it is likely that they are a product of Pannonian workshops. Fragment cat. no. 34 is already entirely stylized - a deteriorated motif or ribbed scales. The scales are stretched, elongated, ribbed and irregularly distributed. Bowls with such decoration appear from the mid-1st century to the beginning of the 2nd century (Brukner 1981: T. 55:

<sup>9</sup> Čuvaju se u Arheološkom muzeju u Zagrebu. Radi se o ulomcima narančaste boje i nekoliko sivih ulomaka s motivom ljuskica koje su plastično oblikovane (AMZ inv. br. 7971, 7960, 7969) (Plesničar-Gec 1977: 16, 23–26, n. 28).

<sup>9</sup> They are kept at the Archaeological Museum in Zagreb. These are fragments of orange color, with a few gray sherds with sculpted scales for decoration (AMZ inv. no. 7971, 7960, 7969) (Plesničar-Gec 1977: 16, 23–26, n. 28).

Zdjelice s ovakvim ukrasima datirane su od sredine 1. stoljeća do početka 2. stoljeća. (Brukner 1981: T. 55: 1). Pojavljuju se i u Neviodunumu (Petru & Petru 1978: T. XXXVI: 21). Ulomak kat. br. 39 razlikuje se od ostalih tipova ljuskastog motiva. Ljuske su izdužene, stilizirane, položene u redove u kombinaciji s redom zareza izvedenih kotačićem. Ovaj motiv karakterističan je za područje Iberskog poluotoka (južnu Galiju) i datira se u sredinu 1. stoljeća (Klaudije – Neron) (Ricci 1985: 330, T. CVIII: 8).

- motiv spiralnih vitica (kat. br. 62–65, 67–76) (T. 7: 10)

Motiv stiliziranih spiralnih vitica kat. br. 62–65, 67–76 najzastupljeniji je motiv. Javlja se na polukružnim, bikoničnim zdjelicama, peharima, u kombinaciji često s trakama ispunjenim zarezima izvedenim kotačićem u donjem dijelu posude. Ovaj ukras vrlo je čest na zdjelicama i javlja se u brojnim varijantama. U Emoni su brojne, u grobovima datiranim od vladavine Klaudija do Nerona, a javljaju se do kr. 1. stoljeća.<sup>10</sup> U Sisku, na lokalitetu sv. Kvirin, izdvaja se nekoliko različitih grupa keramike tankih stijenki ukrašenih spiralnim viticama i vegetabilnim motivima povezanih u girlande. Izdvaja se grupa ukrašena spiralnim viticama kat. br. 64, 71, 72 koju karakteriziraju stijenke svijetlo smeđe – bež boje sa žarko crvenim firnis premazom, načinom izvedbe ukrasa kao i mekšim stjenkama (Sisc.kts.10). U bojenju se nastojalo imitirati obojenje karakteristično za teru sigilatu. Emonski primjeri ukrasa girlande više upućuju na stilizirane listove, cvjetove; nema toliko spiralno zavijenih vitica. Analogne primjere nalazimo na svim nalazištima Panonije. Zdjelice s ovim ukrasom nađene su u Drnovu, Andautoniji i Sisku (Petru & Petru 1978: T. XXXVI: 19; Nemeth–Ehrlich & Kušan 2007: 39; Vikić–Belančić 1967: 32, sl. 132, 133; Vidošević 2003: 24, T. 21: 4–7), na lokalitetima Srijema i Slavonije (Brukner 1981: T. 55: 22, 26), na širem panonskom području (Bonis 1942: T. XX: 27). Na prostoru Donje Mezije, u vojnom logoru Novae nađena je zdjelica identična primjeru iz Siska kat. br. 62, 69 (Dimitrova–Milčeva 1992: 483–485, sl. 11, 14b).<sup>11</sup> Same spiralne vitice javljaju se u različitim varijantama. Ulomak kat. br. 68 s motivom spiralnih vitica valovitih linija pojavljuje se i u Sirmijumu (Bru-

1). They also appear in Neviodunum (Petru & Petru 1978: T. XXXVI: 21). Fragment cat. no. 39 differs from other scale motif types. The scales are elongated, stylized, placed in lines in combination with a line of roller-made notches. This motif is typical of the Iberian peninsula (southern Gaul) and dates to the middle of the first century (Claudius - Nero) (Ricci 1985: 330, T. CVIII: 8).

- spiral coils motif (cat. no. 62–65, 67–76) (T. 7: 10)

The motif of stylized spiral coils, cat. no. 62–65, 67–76, is the most prevalent motif. It appears on semi-circular, biconical bowls, cups, in combination with stripes filled with roller-made notches in the lower area. This ornament is common on bowls and appears in a number of variations. Many come from Emona, from graves dated to the period between Claudius and Nero, and they appear until the end of the 1st century.<sup>10</sup> At the site of Sv. Kvirin in Sisak, several groups of thin-walled pottery appear, decorated in spiral coils and plant motifs forming garlands. The group that stands out is cat. no. 64, 71, 72, decorated in spiral coils and characterized by walls of light brown-beige color with a bright red varnish coating, specific decoration methods and softer walls (Sisc.kts.10). The color tries to imitate the characteristic color of terra sigillata. The Emona examples of garlands point more to stylized leaves and flowers, spiral coils are not as present. Analogous examples can be found at every site in Pannonia. Bowls with this type of decoration have been found in Drnova, Andautonia and Sisak (Petru & Petru 1978: T. XXXVI: 19; Nemeth–Ehrlich & Kušan 2007: 39; Vikić–Belančić 1967: 32, sl. 132, 133; Vidošević 2003: 24, T. 21: 4–7), on sites in Srijem and Slavonia (Brukner 1981: T. 55: 22, 26), in the wider Pannonian area (Bonis 1942: T. XX: 27). In the territory of Moesia Inferior, in the castrum Novae, a bowl identical to the Sisak cat. no. 62, 69 has been found (Dimitrova–Milčeva 1992: 483–485, sl. 11, 14b).<sup>11</sup> The spiral coils appear in many variations. Fragment cat. no. 68, carrying the spiral coil motif in wavy lines, appears in Sirmium as well (Brukner 1987: T. 6: 6, T. 7: 8). The fragment cat. no. 76 with elongated coils, set to mirror each other, and a curved and separated thin rib at the end.

<sup>10</sup> Plesničar–Gec smatra kako se izvor te vrste mora tražiti u sjevernoj Italiji od kuda se izvozila uglavnom na istočna tržišta – Panoniju. Smatra kako su svi primjeri iz Emone uvoz te kako nisu nađeni primjeri imitacije tih oblika. (Plesničar–Gec 1977: 18, T. 1: 45–51). Kako su analogni primjerci, publicirani u literaturi, ukazivali na veliku brojnost upravo ovih motiva na tlu Panonije danas se smatra kako su oni proizvod južnopanonskih radionica.

<sup>11</sup> A. Ricci u “Ceramica a pareti sottili”, *Atlante delle forme ceramiche 2.*, ovaj ukras naziva ukrasom vodenih listova. (Ricci 1985: 343, T. CXIII: 17).

<sup>10</sup> Plesničar–Gec believes the source of this type needs to be sought in northern Italy from where it was exported to eastern markets - Pannonia. He believes that all Emona examples are imports and that no imitation forms have been found (Plesničar–Gec 1977: 18, T. 1: 45–51). As analogue examples, published in literature, point to large numbers of such motifs in the Pannonian area, it is believed today they were made in southern Pannonian workshops.

<sup>11</sup> A. Ricci, in “Ceramica a pareti sottili”, *Atlante delle forme ceramiche 2.*, calls this ornament the aquatic leaf motif (Ricci 1985: 343, T. CXIII: 17).

kner 1987: T. 6: 6, T. 7: 8). Zabilježen je i ulomak kat. br. 76 s izduženim viticama, zrcalno postavljenim, na kraju zavnutim i odijeljenim tankim rebrom. Analogije ovom motivu u dostupnoj literaturi nisu nađene. Motiv spiralne vitice, i vodoravnih traka ispunjenih zarezima, javlja se na čaši kat. br. 75. Neujednačenost boje može upućivati na izloženost visokoj temperaturi uslijed čega je došlo do promjene boje u gornjem dijelu čaše.

- motiv kapljica (kat. br. 57, 59–60) (T. 7: 9)

Tri ulomka s lokaliteta sv. Kvirin iz SJ 11 ukrašena su motivom kapljica. Ulomak bikonične zdjelice kat. br. 59 ukrašen je kombinacijom okomitih redova naizmjenično manjih i većih kapljica. Kombiniran je s ukrasom traka ispunjenih zarezima izvedenim kotačićem u donjem dijelu zdjelice. Na potpuno sačuvanoj bikoničnoj zdjelici kat. br. 60 motiv kapljica postavljen je u redove uokolo zdjelice i javlja se u kombinaciji s dva reda traka ispunjenih zarezima izvedenim kotačićem u donjem dijelu zdjelice. Rubovi obje zdjelice isto su profilirani pa je moguće pretpostaviti kako se radi o istoj radionici. Slične zdjelice nađene su i u Sirmiju i datirane u prvu polovicu 1. stoljeća. (Brukner 1981: T. 55: 23). Ulomak kat. br. 57 ukrašen je nizom manjih plastičnih, nepravilnih kapljica. Istovjetan motiv javlja se na zdjelicama u kombinaciji s ukrasom duguljastih vodoravnih i okomitih listova. Primjerak iz Emone datiran je za vladavine Klaudija. (Plesničar-Gec 1977: T. 1: 42, 44). Primjerci ukrašeni narebrenim ljuskicama te spiralnim viticama - oblikovanjem, ukrasom i fakturom imaju sličnosti s materijalom iz Carnuntuma. Datirane su u kladijevsko-neronsko razdoblje i smatraju se južnopanonskim proizvodom. (Gassner 1992: 449–450)

- vegetabilni motivi (kat. br. 40–56, 58, 66, 77–80)

Vegetabilni motivi u gornjem dijelu posudice javljaju se u različitim varijantama: bobice, peteljke, stilizirani listovi, listovi različitog oblikovanja, pupoljci, zvonasti cvjetovi. Nekoliko je ulomaka ukrašeno barbotin ukrasom, motivom stiliziranih listova. Zdjelicu kat. br. 41 moguće je rekonstruirati cijelu. Ukrašena je stiliziranim listovima u gornjem dijelu, dok su u donjem dijelu dvije trake ispunjene zarezima izvedenim kotačićem. Zdjelica je polukružna s kosinom prema ravnom dnu i blago izvijenim kratkim rubom. Takav ukras ispod ravnog ruba pojavljuje se i na ulomcima kat. br. 40, 42. Nalazi ukrašeni stiliziranim listovima imaju paralele s nalazom keramike tankih stijenki narančasto-smeđe boje iz Sirmija, datirane od vladavine Klaudija do kraja 1. stoljeća (Brukner 1981: T. 55: 9, 21).

Ulomak ruba zdjelice kat. br. 48 ukrašen je motivom izduženih listova, horizontalno položenih uz

Analogies with it have so far not been found in literature. The cup cat. no. 75 has a spiral coil and horizontal stripes filled with notches. The imbalance in color can point to high temperature exposure which would have altered the color in the upper section of the cup.

- the droplet motif (cat. no. 57, 59–60) (T. 7: 9)

Three fragments from the site Sv. Kvirin, stratigraphic unit 11, are decorated in the droplet motif. The fragment of the biconical bowl cat. no. 59 is decorated in a combination of vertical rows of alternating small and large droplets. The decoration is combined with a stripe filled with roller-made notches in the lower section of the bowl. On the wholly preserved biconical bowl cat. no. 60 the droplet motif is placed in rows around the bowl and is combined with two rows of stripes filled with roller-made notches in the lower section of the bowl. The rims of both bowls have the same molding so it stands to assume that they could come from the same workshop. Similar bowls have been found in Sirmium and date to the first half of the 1st century (Brukner 1981: T. 55: 23). Cat. no. 57 is decorated in a line of smaller, sculpted, irregular droplets. The same motif appears on bowls combined with elongated horizontal and vertical leaves. The Emona example dates to the Claudius period (Plesničar-Gec 1977: T. 1: 42, 44). Examples of ribbed scales and spiral coils resemble the Carnuntum finds in design, decoration and clay texture. They date to the Claudian-Nero period and are considered to be a product of southern Pannonian workshops (Gassner 1992: 449–450)

- plant motifs (cat. no. 40–56, 58, 66, 77–80)

Plant motifs appear in the upper section of the bowl in different variations:

berries, stalks, stylized leaves, leaves of different design, buds, bell-shaped flowers. Several fragments have the barbotine decoration, in the stylized leaf motif. The bowl cat. no. 41 can be reconstructed in its entirety. It is decorated in stylized leaves in the upper section, while the lower section holds two stripes filled with roller-made notches. The bowl is semicircular with a slope toward the flat base and a slightly curved, short rim. This decoration, beneath the flat rim, appears on cat. no. 40 and 42. Finds decorated in stylized leaves have parallels with the finds of thin-walled pottery of orange-brown color in Sirmium, dated from the time of Claudius to the end of the 1st century (Brukner 1981: T. 55: 9, 21).

Fragment of bowl cat. no. 48 is decorated in the elongated leaves motif, placed horizontally beside a series of vertically sculpted thickened parts



okomiti niz manjih plastičnih zadebljanja nepravilnog oblika<sup>12</sup>. Ukrašen tog tipa nađen je i na zdjelici nađenoj na lokalitetu MT-10 u Sisku (Burkowsky *et al.* 2000: 22). Pojavljuje se i na nalazima iz Andautonije (Nemeth–Ehrlich & Kušan 2007: 58), Emone (Plesničar 1971: 118, T. I: 11; Plesničar–Gec 1972: T. XXX: 8, T. CLVIII: 18; Plesničar–Gec 1977: T. 1: 48), zatim Neviodunuma (Petru & Petru 1978: T. XXXVI: 25), na primjerima iz Vinkovaca (Ožanić–Roguljić 2007: T. 1: 8, 175<sup>13</sup>). Datirane su u drugu polovicu 1. stoljeća. U skupini ulomaka keramike tankih stijenci, s barbotin ukrasom vegetabilnog motiva, ističe se ulomak ukrašen skupinom uspravno postavljenih manjih listića kat. br. 43. U Burgenae zdjelice s takvim ukrasom datiraju se od vladavine Klaudije do kr. 1. stoljeća (Brukner 1981: T. 55: 18). U skupini vegetabilnih motiva zastupljena su tri primjera s motivom bobica i peteljki kat. br. 55, 56, 58. Tim motivom ukrašen je čaša jajastog oblika kat. br. 58. Sličan primjerak nađen je na jugoistočnoj nekropoli Siscije, no na zdjelici pečenoj redukcijski, tamnosive boje (Wiewegh 2003: T. XV: 5), kao i na zdjelici nađenoj u Sisku na lokalitetu MT-10 (Burkowsky *et al.* 2000: 22). Sličan motiv zabilježen je u Neviodunumu (Petru & Petru 1978: T. XLVI: 10). Od vegetabilnih motiva javlja se i ukras velikih stiliziranih listova kat. br. 45, 46. Na ulomku kat. br. 45 ukras velikog stiliziranog lista javlja se u kombinaciji s motivom nepravilnih kapljica postavljenih u okomitom nizu, u donjem dijelu su zarezi izvedeni kotačićem. Sličan tip nalazi se u repertoaru keramike ranog carstva iz Panonije (Bonis 1942: T. XX: 37). Od vegetabilnih ukrasa javlja se i motiv velikih pupova cvjetova kat. br. 66, u kombinaciji s vrlo malim i gustim zarezima izvedenim kotačićem u donjem dijelu zdjelice. Zdjelica ima narančasto-smeđi premaz. U Sirmiju je sličan primjerak obojen smeđom bojom. Brukner ga datira od vladavine Klaudija do kraja 1. stoljeća (Brukner 1981: T. 55: 8; Brukner 1987: T. 23: 1). Nađene su i na sjevernoj emonskoj nekropoli (Plesničar–Gec 1972: T. XXIII: 15; Plesničar–Gec 1977: T. 1: 47), Drnovu (Petru & Petru 1978: T. XXXVI: 24) i u Vinkovcima (Ožanić–Roguljić 2007: T. 1: 6, 11). Osobito se ističe ulomak ukrašen motivom zvonastog cvijeta kat. br. 77 bež-smeđe boje sa smeđim premazom blagog sjaja. Paralele za taj tip motiva nisu nađene u dostupnoj literaturi. Izdvaja se i ulomak kat. br. 80 sive boje

of irregular shape<sup>12</sup>. Decorations of this type have been found on a bowl from the site MT-10 in Sisak (Burkowsky *et al.* 2000: 22). It appears also on finds from Andautonia (Nemeth–Ehrlich & Kušan 2007: 58), Emona (Plesničar 1971: 118, T. I: 11; Plesničar–Gec 1972: T. XXX: 8, T. CLVIII: 18; Plesničar–Gec 1977: T. 1: 48), Neviodunum (Petru & Petru 1978: T. XXXVI: 25), and on examples from Vinkovci (Ožanić–Roguljić 2007: T. 1: 8, 175<sup>13</sup>). They are dated to the second half of the 1st century. In the thin-walled pottery group with the barbotine decoration of plant motifs, a fragment stands out with a cluster of upright leaflets (cat. no. 43). The Burgenae bowls with this decoration are dated from the time of Claudius to the end of the 1st century (Brukner 1981: T. 55: 18). In the plant motif group, three examples with berries and stalks are represented (cat. no. 55, 56, 58). An egg-shaped cup is decorated with such ornaments (cat. no. 58). A similar example was found in the southeastern necropolis of Siscia, on a reduction fired bowl of dark gray color (Wiewegh 2003: T. XV: 5), as well as in Sisak on a bowl from the site MT-10 (Burkowsky *et al.* 2000: 22). A similar find comes from Neviodunum (Petru & Petru 1978: T. XLVI: 10). Other plant motifs are large stylized leaves, cat. no. 45, 46. The fragment cat. no. 45 has the large stylized leaf motif in combination with irregular droplets set in a vertical row, with roller-made notches in the lower section. A similar type can be found in the repertoire of the Pannonian pottery of the Early Empire (Bonis 1942: T. XX: 37). Another plant motif that appears are large floral buds, cat. no. 66, in combination with small, densely packed notches made by rollers, in the lower section of the bowl. The bowl has an orange-brown coating. A similar example has been found in Sirmium with brown coloring. Brukner dates it from the time of Claudius to the end of the 1st century (Brukner 1981: T. 55: 8; Brukner 1987: T. 23: 1). Other examples come from the northern Emona necropolis (Plesničar–Gec 1972: T. XXIII: 15; Plesničar–Gec 1977: T. 1: 47), Drnova (Petru & Petru 1978: T. XXXVI: 24) and Vinkovci (Ožanić–Roguljić 2007: T. 1: 6, 11). The fragment cat. no. 77 particularly stands out with its bell-shaped flower motif of beige-brown color with a brown coating of light gloss. Analogous finds for this type of decoration have not been found in available literature. The fragment cat. no. 80 is also particular for its heart-shaped leaf with a peti-

<sup>12</sup> A. Ricci u “Ceramica a pareti sottili”, *Atlante delle forme ceramiche 2.*, ovaj ukras naziva ukrasom velikih izduženih listova (Ricci 1985: 339, T. CXI: 11).

<sup>13</sup> Autorica naziva motiv vrstom vodenih listova. (Ožanić–Roguljić 2007: 175)

<sup>12</sup> A. Ricci, in “Ceramica a pareti sottili”, *Atlante delle forme ceramiche 2.*, calls this ornament the large elongated leaf motif (Ricci 1985: 339, T. CXI: 11).

<sup>13</sup> The author calls this motif a type of aquatic leaf (Ožanić–Roguljić 2007: 175)

ukrašen motivom srcolikog lista s peteljkom<sup>14</sup> u kombinaciji s nizom trokutića izvedenih štapićem ili kotačićem. Takav se motiv javlja i u Emoni (Plesničar-Gec 1977: 17, T. 1: 35, 36), Magdalensbergu (Schindler-Kaudelka 1975: 109–110, T. 20: 102 l, n), Carnuntumu (Gassner 1990: T. 2: 16). U Carnuntumu kao i Sisku ukras srcolikog lista i peteljki pojavljuje se na šalici sive boje s crnim premazom. Redukcijski pečene zdjelice fine fakture te ukrašene kombinacijom utisnutih motiva u donjem dijelu te vegetabilnih, elegantno izvedenih, ukrasa u gornjem dijelu tih zdjelica proizvedile su se u italском području. (Schindler-Kaudelka 1975: 33; Plesničar-Gec 1977: 17). Ovoj skupini pripada i ulomak trbuha bikonične zdjelice, redukcijski pečen, sive boje ukrašen kombinacijom motiva zarezane izvedenih kotačićem u donjem dijelu i plastičnim ukrasom u gornjem dijelu (kat. br. 81). Plastični ukras u obliku ovalne trake sačuvan je u vrlo malom dijelu, stoga nije moguće definirati kojem bi motivu ukrasa pripadao. Ulomak ima vrlo tanke i fine stijenke te se može pripisati uvoznim italским primjercima. Ulomak je bio izložen visokoj temperaturi pa su na njemu vidljive promjene u obliku naslaga; na dijelu je vidljivo da su stijenke vitrificirane (Miletić 2007a: 359). Od ulomaka ukrašenih barbotin tehnikom vegetabilnog motiva ističe se ulomak kat. br. 79 ukrašen aplikom koji podsjeća na dio debla uz koji se vide padajući plodovi. Analogije ovoj sceni nisu poznate. Slični prikazi drveća i životinja pojavljuju se na nekim tipovima Aco pehara. Tehnika izrade ukrasa, obojenje te unutarnja stijenka prekrivena pijeskom upućuje kako se radi o keramici tankih stijenki.

### 3. ANALIZA UKRASA KERAMIKE TANKIH STIJENKI S PROSTORA RIMSKE SISCIE

Keramika tankih stijenki stolno je posuđe koje je zastupljeno na svim lokalitetima na prostoru antičke Siscije od početka izgradnje do razvoja urbanog flavijevskog grada. Analizom do sada objavljene literature, vezane uz istraživanja prostora Siscije te pronalazak pokretnog arheološkog materijala, analizirano je i/ili predstavljeno u slici ili crtežu, s nalazima obradenim u ovom radu, ukupno 198 nalaza keramike tankih stijenki s ukupno 21 lokaliteta s područja Siscije (17 unutar naseobinskog dijela; 1 lokalitet nekropole, nalaz s obale rijeke Kupe, nalazi iz rijeke Kupe te ma-

ole<sup>14</sup> in combination with a row of triangles made by a stick or roller. This motif also appears in Emona (Plesničar-Gec 1977: 17, T. 1: 35, 36), Magdalensberg (Schindler-Kaudelka 1975: 109–110, T. 20: 102 l, n), Carnuntum (Gassner 1990: T. 2: 16). In Carnuntum and Sisak the heart-shaped leaf and petiole appear on a gray cup with black coating. Reduction fired bowls of fine clay texture decorated in a combination of impressed motifs in the lower section, and elegantly rendered plant motifs in the upper section of the bowl, were manufactured in the Italic area (Schindler-Kaudelka 1975: 33; Plesničar-Gec 1977: 17). The fragment of the body of a biconical bowl reduction fired, of gray color, decorated in a combination of roller-made notches in the lower section and a sculpted ornament in the upper section (cat. no. 81) also belongs to this category. The sculpted decoration consists of an oval stripe, only partially preserved and thus impossible to define as a motif type. The fragment also has thin fine walls and can be attributed to Italic imports. The sherd was exposed to high temperature and there are changes visible in the form of layers; in some parts the walls are vitrified (Miletić 2007a: 359). Of the fragments decorated in barbotine plant motifs, fragment cat. no. 79 has an appliqué that resembles a tree trunk with falling fruit visible next to it. There are no known parallels with this scene. Similar depictions of trees and animals appear on some types of Aco cups. The decoration technique, the color and the inner surface covered in sand, all point to thin-walled pottery.

### 3. ANALYSIS OF THE DECORATION ON THIN-WALLED POTTERY FROM ROMAN SISCIA

Thin-walled pottery is tableware that is present on every site in the area of ancient Siscia, from the beginning of its construction until the development of the Flavian city. An examination of the literature published so far, related to the research of Siscia and movable archaeological finds, along with the finds published in this paper, represents an analysis of 198 thin-walled pottery finds, presented in photographs or illustrations, with 21 sites from the Siscia area (17 settlement sites, one necropolis site, the bank of the river Kupa, finds from the river Kupa, and finds from undetermined locations).

So far, the typologically and chronologically analyzed and cataloged material comes from the sites

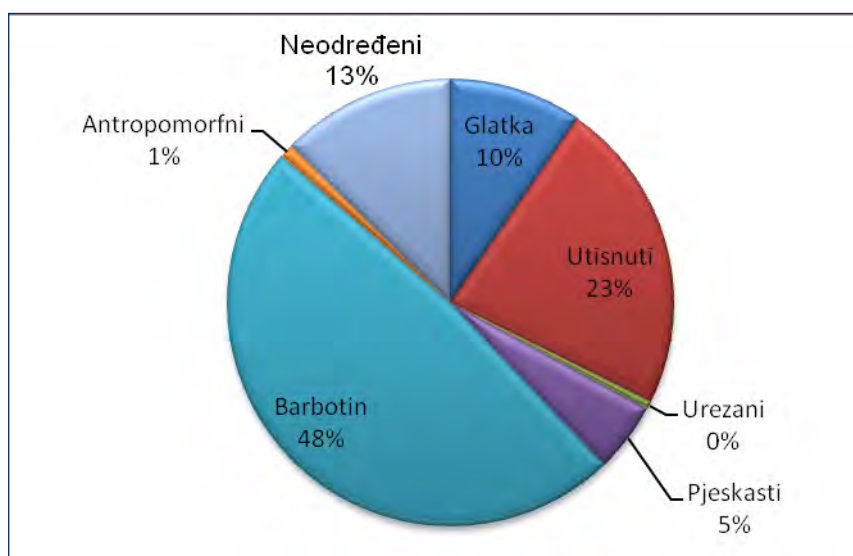
<sup>14</sup> A. Ricci u "Ceramica a pareti sottili", *Atlante delle forme ceramiche 2.*, ovaj ukras naziva ukrasom vodenih listova. (Ricci 1985: 337, T. CX: 17). Navodi kako se takvi ukrasi pojavljuju u nizini Reno i proizveli su se od 40. do 70 g. poslije Krista.

<sup>14</sup> A. Ricci, in "Ceramica a pareti sottili", *Atlante delle forme ceramiche 2.*, calls this ornament the aquatic leaf motif (Ricci 1985: 337, T. CX: 17). She also points out that such decoration appears in the Reno lowlands where it was manufactured from AD 40 to 70.

LOKALITET		UKRASI							UKUPNO
		GLATKA	RELJEFNA					NEODREĐENI	
			Negativ		Pozitiv				
			Utisnuti	Urezani	Pjeskasti	Barbotin	Antropomorfni		
1.	Lokalitet "Sv. Kvirin" 2003 (blok A i B, SJ 11)	1	19	1	7	50	0	18	96
2.	Lokalitet "Kovnica", obala Kupe	1	0	0	0	2	0	2	5
3.	Lokalitet "MT- 10"	0	0	0	0	15	0	0	15
4.	Lokalitet C-12 ABC	0	0	0	0	1	0	0	1
5.	Nepoznat lokalitet	0	0	0	0	1	0	0	1
6.	Ul. I. Kukuljevića Sakcinskog 10-12	0	0	0	0	1	0	0	1
7.	Rijeka Kupa	0	0	0	0	2	0	0	2
8.	Lokalitet "Arhiv"	0	2	0	0	0	1	0	3
9.	Lokalitet "Dunavski Loyd"	1	0	0	0	1	0	0	2
10.	I. K. Sakcinskog bb	0	2	0	1	2	0	0	5
11.	S. i A. Radića 2	0	2	0	0	2	0	0	4
12.	Lokalitet "Igralište OŠ 22. lipnja"	0	0	0	0	2	0	0	2
13.	Starčevićeva ul. 37	3	7	0	2	6	0	2	20
14.	Starčevićeva ul. 20	0	0	0	0	1	0	0	1
15.	Starčevićeva ul. 40	1	1	0	0	2	0	0	4
16.	Lokalitet "Lučka kapetanija"	0	1	0	0	2	0	0	3
17.	Lokalitet "Žitni magazin (RB-8)"	2	2	0	0	0	0	0	4
18.	Lokalitet <i>Siscia in situ</i>	1	6	0	0	1	0	3	11
19.	Rimska 25	0	1	0	0	1	0	0	2
20.	Lokalitet "Euroagram"	0	1	0	0	0	0	0	1
21.	Jugoistočna nekropola Siscije	9	1	0	0	4	1	0	15
<b>UKUPNO</b>		<b>19</b>	<b>45</b>	<b>1</b>	<b>10</b>	<b>96</b>	<b>2</b>	<b>25</b>	<b>198</b>

Tablica 1. Analiza ukrasa keramike tankih stijenki s područja rimske Siscije (izradio: autor, 2012)

Table 1. Analysis of the decoration on thin-walled pottery from Roman Siscia (made by the author, 2012)



Tablica 2. Statistička obrada ukrasa keramike tankih stijenki s područja rimske Siscije (izradio: autor, 2012)

Table 2. The statistical analysis of the thin-walled pottery decoration from Roman Siscia (made by the author, 2012)

terijal za koji nije moguće utvrditi položaj nalaza).

Do sada je tipološki i kronološki analiziran te kataloški obrađen, materijal s lokaliteta Kovnica (Wiewegh 2001: 101, 103, 126, T. XVIII: 1–4), materijal iz Starčevićeve ulice 37 (Vidošević 2003: 24–25, 28–30; T. 21; T. 22: 1–3) te nalazi keramike tankih stijenki nađeni na lokalitetu *Siscia in situ* ispred današnje katedrale sv. Križa, u sloju vezanom uz arhitekturu rimske građevine 1. – 2. stoljeća (Bugar 2000: 46–48; T. XXIV: 1–6; Burkowsky *et al.* 2000: 36–41). Tipološki i kronološki je analiziran te kataloški obrađen materijal s jugoistočne nekropole Siscije (Wiewegh 2003: 46–49, T. XIII–XV).

Odabrani primjerci keramike tankih stijenki iz Siska prikazani su u sklopu pojedinih izložaba, te u pripadajućim katalogima Gradskog muzeja Sisak. Osobito se ističe katalog Pregled zaštitnih arheoloških istraživanja 1990. – 2000. (Burkowsky *et al.* 2000: 22, Lolić 2003: 146, sl. 19) te katalog izložbe Zaštitna arheološka istraživanja Gradskog muzeja Siska 2000. – 2010. (Bačani *et al.* 2010: 110–114, 125–129). Primjerci su predstavljeni u katalogu izložbe Kuhanje i blagovanje u rimskoj Sisciji (Tomaš 2007: kat. br. 53 – kat. br. 60) te katalogu „Od latenskih nastambi do suvremene arhivske zgrade“ (Burkowsky 2007: 21, kat. br. 5–6).

Zbog različite razine objave i analize keramike tankih stijenki pristupilo se statističoj analizi ukrasa dok druge podatke kao što je analiza faktura za sada nije moguća za sve objavljene primjere.

Analizom objavljene keramike tankih stijenki s područja današnjeg Siska utvrđeno je kako je najviše nalaza obrađeno s lokaliteta sv. Kvirin 2003 (blok A i B, SJ 11), ukupno 96 različitih primjeraka posudica (100 ulomaka). Zastupljeni su primjeri glatke i reljefne keramike tankih stijenki. Reljefna je ukrašena utiskivanjem, urezivanjem te apliciranjem. Od apliciranog ukrasa zastupljen je pjeskasti ukras, barbotin te antropomorfni ukras. Zbog fragmentiranosti ili načina objave 13% primjera je opredjeljeno kao neodređeni ukras. Analiza je pokazala kako 48% analizirane keramike tankih stijenki ima barbotin ukras. Također, to je najzastupljeniji ukras i unutar pojedinačnih lokaliteta. Utisnuti ukras zastupljen je na 23% nalaza keramike tankih stijenki. Najmanje je zastupljen urezani ukras te antropomorfni ukras.

Na temelju dostupnih informacija moguće je zaključiti kako je preferiran barbotinski motiv te onaj izveden utiskivanjem. Analiza zastupljenosti ukrasa koja bi se nadopunila analizom faktura svakako bi mogla dati podatke o radionicama keramike tankih stijenki čiji su se proizvodi koristili na prostoru rim-

Kovnica (Wiewegh 2001: 101, 103, 126, T. XVIII: 1–4), Starčevićeva street 37 (Vidošević 2003: 24–25, 28–30; T. 21; T. 22: 1–3) and the Siscia thin-walled pottery found *in situ* in front of the cathedral of the Holy Cross, in the layer related to the architecture of a 1st-2nd century Roman building (Bugar 2000: 46–48; T. XXIV: 1–6; Burkowsky *et al.* 2000: 36–41). The material from the southeastern necropolis in Siscia has been typologically and chronologically analyzed and cataloged (Wiewegh 2003: 46–49, T. XIII–XV).

Selected examples of thin-walled pottery from Sisak have been presented as parts of individual exhibitions, and in accompanying catalogs of the Sisak Municipal Museum. Of special notice is the catalog “Overview of the Rescue Excavations 1990-2000” (Burkowsky *et al.* 2000: 22, Lolić 2003: 146, fig. 19) and the exhibition catalog “Rescue Excavations of the Sisak Municipal Museum 2000-2010” (Bačani *et al.* 2010: 110–114, 125–129). Examples have been presented in the exhibition catalog “Cooking and Dining in Roman Siscia” (Tomaš 2007: cat. no. 53 – cat. no. 60) and the catalog “From Latene dwellings to Modern Archive Buildings” (Burkowsky 2007: 21, cat. no. 5–6). Because of the difference in the analysis and publication levels of thin-walled pottery, it was impossible to analyze the clay texture of all the published material, so the focus has been primarily on the statistical analysis of the decorations.

An examination of the so-far published thin-walled pottery from Sisak has established that most analyzed finds come from the 2003 excavation of the site Sv. Kvirin (grid squares A and B, stratigraphic unit 11), with overall 96 various bowl examples (100 sherds). Examples of thin-walled pottery of smooth and relief surface are represented. The relief pottery is decorated in impressed, notched and appliqué ornaments. Of the appliqué, barbotine, sand and anthropomorphic ornaments are used. Due to fragmentation or publication methods, 13% of the material has been categorized as having undetermined decoration. Analysis has shown 48% of the examined thin-walled pottery has barbotine decorations. Barbotine is also the most represented decoration within individual sites. Impressed decorations are represented in 23% of thin-walled pottery finds. Anthropomorphic decorations are the least represented.

Based on the information available, it is possible to conclude that the preferred barbotine technique was notched decoration. An analysis of decoration prevalence complemented with clay texture analysis could give information on the thin-walled pottery workshops whose products were used in the area of Roman Siscia, and it could confirm the existence of a thin-walled pottery workshop in Sisak.

ske Siscije te potvrditi postojanje sisačke radionice keramike tankih stijenki.

#### 4. ZAKLJUČAK

Provedenim analizama keramike tankih stijenki s lokaliteta sv. Kvirin istraživanja 2003. iz stratigrafske jedinice SJ 11 bloka A i B utvrđeno je kako se radi o vrlo bogatom nalazištu keramike tankih stijenki. Analiziranih 100 ulomaka (96 različita primjera keramike tankih stijenki) čini 49% do sada objavljenih primjera keramike tankih stijenki. Analizirani ulomci razlikuju se prema tehnici izrade, fakturi, po obliku te načinu ukrašavanja keramike. Od ukupno 100 obrađenih, 15 je ulomaka keramike tankih stijenki redukcijski pečeno, dok je 85 oksidacijski pečeno. Tipološki su zastupljene zdjelice i čaše. Visina zdjelica koje je moguće rekonstruirati je od 5 -5,5 cm, a čaša 8 cm, dok se debljina stijenki kreće od 1-5 mm, što je standard u repertoaru keramike tankih stijenki. Podjela po fakturi napravljena je na temelju taktilne i vizualne makroskopske metode. Razvrstani su ulomci prema fakturi ovisno o boji i strukturi presjeka, te boji i vrsti premaza. Analizom je utvrđeno 11 različitih faktura (Sisc.kts. 1-11) što ukazuje na raznolikost koja upućuje na mogući broj radionica, ali i raznovrsnost u načinu ukrašavanja i pečenju keramike tankih stijenki u istoj radionici.

Brojnošću i načinom izrade izdvaja se skupina s fakturom oznake Sisc.kts.6. i 10. Potrebno je naglasiti kako se radi o keramici tankih stijenki koja se može pripisati južnopanonskim radionicama koju karakterizira oksidacijski pečena keramika, bež, svijetlo smeđe, narančaste, narančasto-roza boje s narančastim, narančasto-crveno-smeđim i smeđim premazom ili svijetlo smeđe, narančasto-smeđe, roza-smeđe, roze boje s crvenim premazom. Od motiva zastupljenih na panonskoj keramici tankih stijenki barbotinski je ukras motiva narebrenih ljuskica, kapljica, spiralne vitice, cvjetni motivi, mali listići, listovi, narebreni stilizirani listovi, pjeskasti ukras te ukras urezivanjem s motivom mreže; zatim ukras izveden kotačićem. Južnopanonskoj radionici može se pripisati i faktura Sisc.kts.11. s ukrasima zarezima i/ili trokutača izvedenih kotačićem. S obzirom na brojnost ulomaka koji se mogu pripisati južnopanonskim radionicama može se pretpostaviti kako se ova vrsta keramike proizvodila i na prostoru antičke Siscije. U prilog ovoj tezi ulomci su koji, oblikom i ukrasom, pripadaju skupini južnopanonske keramike, ali su redukcijski pečeni (kat. br. 35, 75). Može se pretpostaviti kako se radi o grešci ili slučajnom

#### 4. CONCLUSION

The conducted analyses on thin-walled pottery from the site Sv. Kvirin, 2003 excavations, from stratigraphic unit 11, grid squares A and B, have shown it is a very rich source of thin-walled pottery finds. The 100 examined fragments (96 different examples of thin-walled pottery make up 49% of the published thin-walled pottery material so far. The analyzed sherds differ in manufacture techniques, clay texture, form and decoration methods. Of the 100 examined, 15 thin-walled pottery fragments were reduction fired and 85 oxidation fired. Typologically, bowls and cups are represented. The bowl height, where possible to reconstruct, varies from 5 to 5.5cm, the cup height is 8cm, and wall thickness varies from 1 to 5 mm, which are standard figures for the thin-walled pottery repertoire. Classification by clay texture was done based on tactile and visual macroscopic methods. The fragment clay texture was sorted according to the color and structure of the cross-section, and the color and type of coating. The analysis has established 11 different clay textures (Sisc.kts. 1-11) which points to a diversity, leading to the possibility of multiple workshops, in the decoration techniques and firing methods used on thin-walled pottery in the same workshop.

The group Sisc.kts.6. and 10. stands out by its number and manufacture techniques. It must be noted that this is thin-walled pottery which is likely to have been made in southern Pannonian workshops which are characterized by oxidation firing and pottery of beige, light brown, orange, orange-pink color with orange, orange-red-brown and brown coatings, or light brown, orange-brown, pink-brown, pink colors with a red coating.

The motifs represented on Pannonian thin-walled pottery are the barbotine decorations of ribbed scales, droplets, spiral coils, floral motifs, leaflets, leaves, ribbed stylized leaves, sand decoration, and notches forming net patterns; and roller-made decorations. The clay texture of Sisc.kts.11 can also be ascribed to southern Pannonian workshops, with decorations of roller-made notches and/or triangles. Considering the number of fragments that can be attributed to southern Pannonian workshops, it can be presumed that this type of pottery was manufactured in the area of ancient Siscia. Further proof of this are the fragments which in form and decoration belong to the southern Pannonian group, but are reduction fired (cat. no. 35, 37). It can be assumed that they were a mistake or accidental products which were put to use regardless. Such products were most likely not used in export. Further multidisciplinary analyses will show if these

proizvodu koji se unatoč tome stavio u upotrebu. Za takve proizvode može se pretpostaviti kako nisu bili predmetom izvoza. Daljnje multidisciplinarne analize pokazati će radi li se o produktima sisačke radionice keramike tankih stijenki.

Italiskim radionicama može se pripisati faktura Sisc.kts. 2. te Sisc.kts. 3. Izuzetak predstavljaju faktura Sisc.kts.1. te Sisc.kts.4.. Faktura Sisc.kts.1. bojom odgovara fakturi keramike tankih stijenki iz Španjolske što bi bio prvi nalaz španjolske keramike tankih stijenki na prosotru hrvatskog dijela Panonije. Faktura Sisc.kts. 4. odgovara bojom fakturi lyonske keramike tankih stijenki, no ukrasi upućuju na vezu s motivima koji prevladavaju u proizvodima panonskih radionica. Ukrašeni su pjeskastim i barbotinskim ukrasom i to motivom narebrenih ljuskica, manjim listićima, spiralnim viticama i stiliziranim listovima. Daljnje interdisciplinarne analize pokazat će radi li se o lyonskoj keramici ili imitaciji lyonske keramike, proizvodu do sada neutvrđene radionice.

Provedenom analizom ukrasa na do sada objavljenom materijalu s područja antičke Siscije utvrđeno je kako su zastupljeni primjeri glatke i reljefne keramike tankih stijenki. Reljefna je ukrašena utiskivanjem (motiv zarezaka ili trokutića), urezivanjem te apliciranjem. Od apliciranog ukrasa zastupljen je pjeskasti ukras, barbotin te antropomorfni ukras. Na temelju dostupnih informacija moguće je zaključiti kako je preferiran barbotinski motiv (48%) te onaj izveden utiskivanjem (23 %). Najmanje je zastupljen urezani te antropomorfni ukras (1%). Analiza zastupljenosti ukrasa koja bi se nadopunila analizom faktura svakako bi mogla dati podatke o radionicama keramike tankih stijenki čiji su se proizvodi koristili na prostoru rimske Siscije.

Analizirana keramika tankih stijenki ima paralele s nalazima iz Emone, Poetovia, Sirmiuma, Carnuntumu kao i nalazištima Gornje Mezije što je značajan podatak. Prema analogijama s drugim lokalitetima u ukrasu i strukturi keramike tankih stijenki može se zaključiti kako su na ovom lokalitetu zastupljeni proizvodi većinom panonskih radionica. Brojnost nekih tipova ukrasa na fakturi mogu ukazivati na postojanje i sisačke radionice koja je proizvodila keramiku tankih stijenki. Brojnost i blizina gliništa svakako bi išli u prilog ovoj tezi. Razlog dosadašnjem isključivanju Siscije kao moguće radionice treba tražiti u vrlo malom postotku obrađenog pokretnog keramičkog materijala, osobito keramike tankih stijenki.

Može se zaključiti kako keramika tankih stijenki iz Siska pripada standardiziranom i tipiziranom materijalu koji se pojavljuje na drugim nalazištima Panonije, te drugih rimskih provincija. Predstavljala je

are products of a thin-walled pottery workshop in Sisak.

The clay textures of Sisc.kts. 2. and Sisc.kts. 3 can be assigned to Italic workshops. The exceptions are Sisc.kts.1. and Sisc.kts.4. The clay texture of Sisc.kts.1. matches Spanish thin-walled pottery in color, which would make it the first find of Spanish thin-walled pottery in the Croatian part of Pannonia. The clay texture of Sisc.kts.4. matches the Lyon thin-walled pottery in color, but the decorations point to a link between Pannonian workshops and their decoration motifs. These are sand and barbotine ornaments in ribbed scales, leaflets, spiral coils or stylized leaves. Further interdisciplinary analyses will show if this product, of an as of yet unspecified workshop, belongs to Lyon pottery or if it is an imitation of Lyon pottery.

The examination of decorations on the published finds from ancient Siscia shows the presence of smooth-surface and relief thin-walled pottery. Relief ware was decorated by impressing (notches or triangles), engraving and appliqué. The appliqué are either of sand, barbotine or anthropomorphic. Based on the information available, it is possible to conclude that the preferred barbotine motif (48%) is the impressed one (23%). The engraved and anthropomorphic motifs are scarce. An analysis of the decorations present supplemented with clay texture analysis could provide information on the thin-walled pottery workshops whose products were in use in the Siscia area.

The analyzed thin-walled pottery draws parallels with finds from Emona, Poetovio, Sirmium, Carnuntum, and the sites of Moesia Superior, which is an important piece of information. According to the analogies with other sites, based on the decorations and clay texture of thin-walled ware, the conclusion drawn is that the products from Pannonian workshops predominate on this site. The large number of some decoration types can point to the existence of a Sisak workshop that manufactured thin-walled ware. The large number of nearby claybeds supports such a thesis. The reason for the hitherto exclusion of a possible Sisak workshop stems from the small number of analyzed movable ceramic finds, particularly thin-walled pottery.

It can be concluded that the thin-walled pottery from Sisak belongs to a standard typical group which appears on other Pannonian sites, and in other Roman provinces. It represented luxury ware which had to have come to these parts by trade, perhaps prior to, and certainly after the conquest. The import of thin-walled pottery is related to the work of merchants who, apart from the army, aimed to please the needs of the local population which more

luksuznu robu koja je morala dolaziti u ovo područje kao posljedica trgovine možda prije, a zasigurno poslije, osvajanja. Uvoz keramike tankih stijenki vezan je uz aktivnosti trgovaca koji su, osim vojske, namjeravali zadovoljiti potrebe domaćeg stanovništva koje se više ili manje nastojalo uklopiti u novi način života unutar granica i običaja rimskog carstva.

Nalaz broja keramike tankih stijenki na lokalitetu sv. Kvirin u Sisku upućuje kako se radi o dijelu grada u kojem se koristila luksuzna roba. Nažalost, kako se radi o materijalu iz naplavljenog, zasutog sloja, nije moguće odrediti bliži kontekst nalaza.

Iako se na nekim lokalitetima kao što su Magdalensberg, keramika tankih stijenki može vrlo precizno datirati, na lokalitetu sv. Kvirin u Sisku to nije slučaj. Naime, radi se o sloju bez naznaka ikakve strukture, dakle o nasipu kojim se nakon određene nepogode u određenom trenutku niveliralo zemljište za novu izgradnju. Sagledavanjem stratigrafije moguće je zaključiti kako je sloj 11 svakako mlađi od razdoblja izgradnje uređenih glavnih prometnica, carda i dekumanusa Siscije koji se vežu uz vladavinu Flavijevaca jer je u njega ukopan glavni kolektor ispod carda. Usporedbom s ostalim materijalom nađenim u ovom sloju, kao i prema iznesenoj stratigrafiji, može se zaključiti kako je materijal vezan uz kasnotiberijsko-klaudijevsko razdoblje.

## 5. KATALOG

- pri opisu obojenja korišteni pojmovi prema M. Horvat, *Tehnologija keramike, tipologija lončenine, keramični arhiv*, Ljubljana, 1999.

- za određivanje boja korišten je Munsell Soil Color Chart, New York, 1998.

- pri opisu ulomaka korištena makroskopska metoda

- autor crteža: autor

Mjesto nalaza i SJ:

Sisak - sv. Kvirin 2003, SJ. 11, blok A i B

**Datacija:** kasnotiberijsko-klaudijevsko razdoblje

**Kratice:**

- **O:** (opis predmeta) - Bp: boja presjeka, tvrdoća (jako mekana, mekana, tvrda, jako tvrda), količina, oblik i vrsta primjesa

- **P:** (površina predmeta) - opis ili površine ili pre-maza, obrada, ukrasi, boja: Bv – boja vanjske stijenke / Bu – boja unutarnje stijenke

- **Dr** – promjer ruba, **Dd** – promjer dna, **Dt** – promjer trbuha, **ds** – debljina stijenki, **V** – visina

Kat. jed. br. 1. (T.1: 1)

or less tried to fit into the new way of life present within the boundaries and customs of the Roman Empire.

The number of thin-walled pottery finds from the site Sv. Kvirin in Sisak points to it being a part of town where only luxurious ware was used. Unfortunately, since the finds come from a flooded, bestrewn layer, the precise archaeological context was impossible to determine. Unlike at Magdalensberg, where thin-walled pottery can be very precisely dated, at Sv. Kvirin in Sisak that is not the case. The layer where it comes from has no signs of any structure, thus it was a levee used to level the terrain after some disaster had occurred to make way for new construction. By observing the stratigraphy, it can be concluded that layer 11 is definitely younger than the period of major road construction, of the Siscia cardo and decumanus which are dated to the Flavian era, because the main cardo sewer line is dug right into it. In comparison with the other finds from this layer, and the aforementioned stratigraphy, it can be concluded that the material comes from the late Tiberian - Claudian period.

## 5. CATALOG

- for color descriptions, terms from M. Horvat's "Ceramic technology, pottery typology, ceramics archive" (*Tehnologija keramike, tipologija lončenine, keramični arhiv*), Ljubljana, 1999, were used

- "Munsell Soil Color Chart", New York, 1998, was used for determining colors

- the macroscopic method was used for sherd description

- illustrations made by the author

**Find location and stratigraphic unit:**

Sisak - Sv. Kvirin, 2003, SJ 11, grid squares A and B

**Dating:** late Tiberian - Claudian era

**Abbreviations:**

- **D:** (item description) - Cc: cross-section color, firmness (very soft, soft, hard, very hard), quantity, form and admixture type

- **S:** (item surface area) - description of either the surface or coating, treatment, decorations, color: Co – outer wall color / Ci – inner wall color

- **Dr** – rim diameter, **Dba** – base diameter, **Dbe** – belly diameter, **wt** – wall thickness, **H** – height

Cat. unit no. 1. (T.1: 1)

D: rim and belly fragment of a biconical bowl Cc: GLEY1 6 gray, hard, with admixtures, resonant

O: ulomak ruba i trbuha bikonične zdjelice, Bp: GLEY1 6 gray, tvrda, s primjesama u smjesi, zvonka  
P: vanjska i unutarnja stijenka prekrivena sitnim zrcima pijeska, mat premaz, Bv: GLEY1 5 gray, Bu: GLEY1 6 gray

Dr: 10.1 cm, ds: 1.6 mm

Analogije: Plesničar-Gec 1977: T. 1: 16; Vidošević 2003: 24; T. 21: 1, 2

Kat. jed. br. 2. (T.1: 2)

O: ulomak ruba zdjelice, Bp: 7.5yR 6/1 gray, tvrda, s primjesama u smjesi, zvonka

P: vanjska i unutarnja stijenka prekrivena sitnim zrcima pijeska, mat premaz, Bv: 7.5yR 5/1 gray, Bu: 7.5yR 6/1 gray

Dr: 10 cm, ds: 2 mm

Analogije: isto kao kod kat. jed. br. 1

Kat. jed. br. 3. (T.1: 3)

O: ulomak ruba zdjelice, Bp: 2.5y 8/2 – 8/3 pale yellow, tvrda

P: vanjska i unutarnja stijenka prekrivena sitnim zrcima pijeska, mat premaz, Bv: 2.5y 5/1 gray – 5/2 grayish brown, Bu: 5/2 grayish brown

Dr: 9 cm, ds: 2 mm

Analogije: isto kao kod kat. jed. br. 1

Kat. jed. br. 4 a,b,c; (T.1: 4 a, b, c)

O: a- rub, b- ulomak, c- ulomak, Bp: 10yR 8/3 very pale brown, tvrda

P: Bv,Bu: 10yR 8/3 very pale brown

Dr: 9 cm, ds: 2 mm

Analogije: López Mullor: 1989: T. 88: 6,7; T. 132: 3; Šimić-Kanaet 2010: 33

Kat. jed. br. 5 + 6 (T.1: 5 +6)

O: ulomak ruba i dna polukružne zdjelice, Bp: GLEY1 6 gray, tvrda

P: vanjska i unutarnja stijenka prekrivena sitnim zrcima pijeska, u gornjem dijelu ima urezanu traku, donji dio uz dno ukrašen metličastim potezima, mat premaz, Bv: GLEY1 5 gray, Bu: GLEY1 6 gray

Dd: 5 cm, ds: 1.5 - 2 mm

Analogija: isto kao kod kat. jed. br. 1

Kat. jed. br. 7 (T.1: 7)

O: ulomak, Bp: GLEY1 7 light gray, tvrda

P: vanjska i unutarnja stijenka prekrivena sitnim

S: outer and inner wall covered in tiny sand grains, matte coating, Co: GLEY1 5 gray, Ci: GLEY1 6 gray

Dr: 10.1 cm, wt: 1.6 mm

Analogies: Plesničar-Gec 1977: T. 1: 16; Vidošević 2003: 24; T. 21: 1, 2

Cat. unit no. 2. (T.1: 2)

D: rim fragment of a bowl, Cc: 7.5yR 6/1 gray, hard, with admixtures, resonant

S: outer and inner wall covered in tiny sand grains, matte coating, Co: 7.5yR 5/1 gray, Ci: 7.5yR 6/1 gray

Dr: 10 cm, wt: 2 mm

Analogies: same as in cat. unit no. 1

Cat. unit no. 3. (T.1: 3)

D: rim fragment of a bowl, Cc: 2.5y 8/2 – 8/3 pale yellow, hard

S: outer and inner wall covered in tiny sand grains, matte coating, Co: 2.5y 5/1 gray – 5/2 grayish brown, Ci: 5/2 grayish brown

Dr: 9 cm, wt: 2 mm

Analogies: same as in cat. unit no. 1

Cat. unit no. 4 a,b,c; (T.1: 4 a, b, c)

D: a- rim, b- fragment, c- fragment, Bp: 10yR 8/3 very pale brown, hard

S: Co,Ci: 10yR 8/3 very pale brown

Dr: 9 cm, wt: 2 mm

Analogies: López Mullor: 1989: T. 88: 6,7; T. 132: 3; Šimić-Kanaet 2010: 33

Cat. unit no. 5 + 6 (T.1: 5 +6)

D: rim and base fragment of a semicircular bowl, Cc: GLEY1 6 gray, hard

S: outer and inner wall covered in tiny sand grains, incised stripe in the upper section, lower section covered in combed strokes, matte coating, Co: GLEY1 5 gray, Ci: GLEY1 6 gray

Dba: 5 cm, wt: 1.5 - 2 mm

Analogies: same as in cat. unit no. 1

Cat. unit no. 7 (T.1: 7)

D: fragment, Cc: GLEY1 7 light gray, hard

S: outer and inner wall covered in tiny sand grains, incised stripe, matte coating, Co: GLEY1 5 gray, Ci: GLEY1 7 light gray

wt: 2- 2.5 mm

Analogies: same as in cat. unit no. 1



zrcima pijeska, urezana traka, mat premaz, Bv: GLEY1 5 gray, Bu: GLEY1 7 light gray

ds: 2- 2.5 mm

Analogije: isto kao kod kat. jed. br. 1

Kat. jed. br. 8 (T.1: 8)

O: polukružna zdjelica, Bp: 10yR 7/4 very pale brown

P: vanjska i unutarnja stijenka prekrivena gusto sitnim zrcima pijeska, mat premaz, Bv: 10yR 4/3 brown – 6/6 brownish yellow, Bu: 10yR 3/2 very dark grayish brown, tvrda

Dr: 10 cm, Dt: 10.3 cm, Dd: 5 cm, ds: 2.5 mm, V: 5.5 cm

Analogije: Plesničar-Gec 1977: T. 1: 16

Kat. jed. br. 9 (T.1: 9)

O: ulomak, Bp: 7.5yR 7/4 pink, tvrda, pročišćena, rađena na kolu

P: sjajna vanjska stijenka prekrivena sitnim zrcima pijeska, na unutarnjoj stijenci premaz srebrnkastog sjaja, Bv: 2.5yR 4/8 red – 4/1 dark reddish gray, Bu: 2.5yR 4/6 red

ds: 3 mm

Kat. jed. br. 10 (T.1: 10)

O: ulomak ruba zdjelice, Bp: 10yR 7/3 very pale brown, tvrda, crne sitne primjese, zvonka

P: urezane trake i redovi zareza, na unutarnjoj stijenci premaz srebrnkastog sjaja s ponegdje sitnim zrcima pijeska, vanjska stijenka nejednake boje, mat premaz, Bv: 2.5yR 6/8 light red – 3/2 dusky red, Bu: 2.5yR 4/3 reddish brown

ds: 2 mm

Analogije: Plesničar-Gec 1977: 18–19, T. 1: 54–69

Kat. jed. br. 11 (T.1: 11)

O: ulomak ruba zdjelice, vrlo tanke stijenke, Bp: 2.5y 8/3 pale yellow, tvrda

P: rebro i trokutići izvedeni kotačićem ili štapićem, mat premaz, Bv: 5yR 6/6 reddish yellow, Bu: 5yR 6/8 reddish yellow

Dr: 13 cm, ds: 2 mm

Analogije: Plesničar-Gec 1972: T. XXX: 10, Plesničar-Gec 1977: 19, T. 1: 57

Kat. jed. br. 12 (T.1: 12)

O: ulomak ruba, izrazito tanka, Bp: 7.5yR 8/3 pink, tvrda

P: rebra, vodoravni urezi i tanki kratki zarezi izvedeni kotačićem, lagano utisnuti, mat premaz, Bv: 7.5yR 6/6 reddish yellow – 4/1 dark gray, Bu: 7.5yR

Cat. unit no. 8 (T.1: 8)

D: semicircular bowl, Cc: 10yR 7/4 very pale brown

S: outer and inner wall covered in dense tiny sand grains, matte coating, Co: 10yR 4/3 brown – 6/6 brownish yellow, Bu: 10yR 3/2 very dark grayish brown, hard

Dr: 10 cm, Dbe: 10.3 cm, Dba: 5 cm, wt: 2.5 mm, H: 5.5 cm

Analogies: Plesničar-Gec 1977: T. 1: 16

Cat. unit no. 9 (T.1: 9)

D: fragment, Bp: 7.5yR 7/4 pink, hard, purified clay, made on the potter's wheel

S: glossy outer wall covered in tiny sand grains, coating of silver sheen on the inner wall Co: 2.5yR 4/8 red – 4/1 dark reddish gray, Ci: 2.5yR 4/6 red

wt: 3 mm

Cat. unit no. 10 (T.1: 10)

D: rim fragment of a bowl, Cc: 10yR 7/3 very pale brown, hard, small black admixtures, resonant

S: incised stripes and lines of notches, inner wall has a glossy silver coating with occasional tiny sand grains, outer wall of uneven color, matte coating, Co: 2.5yR 6/8 light red – 3/2 dusky red, Ci: 2.5yR 4/3 reddish brown

wt: 2 mm

Analogies: Plesničar-Gec 1977: 18–19, T. 1: 54–69

Cat. unit no. 11 (T.1: 11)

D: rim fragment of a bowl, very thin walls, Cc: 2.5y 8/3 pale yellow, hard

S: rib and triangles roller-made or with a stick, matte coating, Co: 5yR 6/6 reddish yellow, Ci: 5yR 6/8 reddish yellow

Dr: 13 cm, wt: 2 mm

Analogies: Plesničar-Gec 1972: T. XXX: 10, Plesničar-Gec 1977: 19, T. 1: 57

Cat. unit no. 12 (T.1: 12)

D: rim fragment, extremely thin, Cc: 7.5yR 8/3 pink, hard

S: ribs, horizontal incisions and thin short notches roller-made, lightly impressed, matte coating Co: 7.5yR 6/6 reddish yellow – 4/1 dark gray, Ci: 7.5yR 6/6 reddish yellow – 4/1 dark gray

wt: 1.5 mm

Cat. unit no. 13 (T.1: 13 (+ T. 1: 17))

D: rim fragment, preserved base of a biconical bowl

6/6 reddish yellow – 4/1 dark gray  
ds: 1,5 mm

Kat. jed. br. 13 (T.1: 13 (+ T. 1: 17))

O: ulomak ruba, sačuvano dno bikonične zdjelice (T.1: 17), Bp: 10yR 7/1 light gray u središtu, rubovi 8/4 very pale brown, tvrda

P: rebra i tanki oštri zarezi, mat premaz, Bv: 10yR 6/4 light yellowish brown – 6/2 dark grayish brown, Bu: 5yR 5/6 yellowish red

Dd: 4 cm, ds: 1-1.5 mm

Analogije: Schindler-Kaudelka 1975: T. 17: 84 c, 96

Kat. jed. br. 14 (T.1: 14)

O: ulomak ruba, Bp: 7.5yR 8/4 pink, mekana

P: tanka rebra, urezi i zarezi izvedeni kotačićem, na unutarnjoj stijenci premaz nejednake boje blagog sjaja, mat premaz na vanjskoj strani Bv: 5yR 6/8 reddish yellow – 4/3 reddish brown, Bu: 5yR 6/6 -6/8 reddish yellow – 3/2 reddish brown

ds: 2 mm

Kat. jed. br. 15 (T.1: 15)

O: ulomak ruba, izrazito tanka, Bp: 10yR 6/1 gray, tvrda, pročišćena, zvonka

P: rebra i zarezi izvedeni kotačićem, mat premaz, Bv: 7.5yR 6/4 light brown – 5/3 brown, Bu: 7.5yR 5/6 red  
ds: 1,5 mm

Kat. jed. br. 16 (T.1: 16)

O: ulomak ruba, Bp: 7.5yR 7/3 pink, mekana

P: rebra i zarezi izvedeni kotačićem, na unutarnjoj stijenci premaz srebrnkastog sjaja s malo pijeska, vanjska stijenska mat premaz, Bv: 7.5yR 6/6 reddish yellow – 4/1 dark gray, Bu: 7.5yR 4/2 brown

ds: 1.8 - 2 mm

Kat. jed. br. 17 (T.1: 17 (+T.1: 13))

O: dno bikonične zdjelice sa sačuvanim rubom, Bp: 2.5y 7/1 light gray, tvrda

P: urezi i zarezi izvedeni kotačićem, kose nijanse prevlake smeđe boje po vanjskoj površini, unutarnja stijenska prekrivena sitnim zrcima pijeska, mat premaz, Bv: 7.5yR 6/6 reddish yellow – 4/2 brown, Bu: 7.5yR 4/3 brown

Dd: 4 cm, ds: 1.5 mm

Analogije: Schindler-Kaudelka 1975: T. 17: 84 c, 96

Kat. jed. br. 18 (T.1: 18)

(T.1: 17), Cc: 10yR 7/1 light gray in the middle, rims 8/4 very pale brown, hard

S: ribs and thin sharp notches, matte coating, Co: 10yR 6/4 light yellowish brown – 6/2 dark grayish brown, Ci: 5yR 5/6 yellowish red

Dba: 4 cm, wt: 1-1.5 mm

Analogies: Schindler-Kaudelka 1975: T. 17: 84 c, 96

Cat. unit no. (T.1: 14)

D: rim fragment, Cc: 7.5yR 8/4 pink, soft

S: thin ribs, incisions and notches roller-made, inner wall has a coating of uneven color and light gloss, matte coating on the outer side Co: 5yR 6/8 reddish yellow – 4/3 reddish brown, Ci: 5yR 6/6 -6/8 reddish yellow – 3/2 reddish brown

wt: 2 mm

Cat. unit no. 15 (T.1: 15)

D: rim fragment, extremely thin, Cc: 10yR 6/1 gray, hard, purified, resonant

S: ribs and notches roller-made, matter coating, Co: 7.5yR 6/4 light brown – 5/3 brown, Ci: 7.5yR 5/6 red  
wt: 1,5 mm

Cat. unit no. 16 (T.1: 16)

D: rim fragment, Cc: 7.5yR 7/3 pink, soft

S: ribs and notches roller-made, inner wall has a glossy silver coating with some sand, outer wall matte coating, Co: 7.5yR 6/6 reddish yellow – 4/1 dark gray, Ci: 7.5yR 4/2 brown

wt: 1.8 - 2 mm

Cat. unit no. 17 (T.1: 17 (+T.1: 13))

D: base of a biconical bowl with the rim preserved, Cc: 2.5y 7/1 light gray, hard

S: incisions and notches roller-made, slant shades of brown coating on the outer surface, inner wall covered in tiny sand grains, matte coating, Co: 7.5yR 6/6 reddish yellow – 4/2 brown, Ci: 7.5yR 4/3 brown

Dba: 4 cm, wt: 1.5 mm

Analogies: Schindler-Kaudelka 1975: T. 17: 84 c, 96

Cat. unit no. 18 (T.1: 18)

D: fragment with a lump of slag, extremely thin, Cc: 7.5yR 5/1 gray, hard

S: triangles made by a roller or stick, visible remains of darker matte coating, Co: 7.5yR 5/1 gray, Ci: 7.5yR 6/1 gray

wt: 1 mm

O: ulomak s grumenom šljake, izrazito tanka, Bp: 7.5yR 5/1 gray, tvrda

P: trokutići izvedeni kotačićem ili štapićem, vidljivi ostaci tamnijeg mat premaza, Bv: 7.5yR 5/1 gray, Bu: 7.5yR 6/1 gray

ds: 1 mm

Kat. jed. br. 19 (T.1: 19)

O: ulomak, Bp: 10yR 8/3 very pale brown, tvrda

P: urez vodoravan ispod kojeg je mreža izvedena zaobljenim kotačićem, mat premaz, Bv: 10yR 5/3 brown – 4/1 dark gray, Bu: 10yR 4/1 dark gray

ds: 2 mm

Kat. jed. br. 20 (T.1: 20)

O: ulomak ruba zdjelice, neravni rub moguća greška u izvedbi, Bp: 7.5yR 6/2 pinkish gray, tvrda

P: kotačićem izvedeni ukras zarez, na unutarnjoj stijenci premaz nanošen kistom, na vanjskoj stijenci mat boja nejednaka, nijansirana, Bv: 7.5yR 6/2 pinkish gray, Bu: GLEY1 3 very dark gray

ds: 2 mm

Kat. jed. br. 21 (T.1: 21)

O: ulomak dna zdjelice, Bp: 2.5yR 7/1 light gray, tvrda

P: traka ispunjena urezima izvedenim kotačićem, na vanjskoj stijenci mat premaz izveden kistom kosim potezima, naizmjenice tamne pa svijetle nijanse, unutarnja stijenska bakrenastog sjaja prekrivena sitnim zrnima pijeska, Bv: 7.5yR 6/6 reddish yellow – 4/2 brown, Bu: 7.5yR 4/3 brown

Dd: 4 cm, ds: 2 - 3mm

Kat. jed. br. 22 (T.1: 22)

O: ulomak, Bp: 10yR 8/4 very pale brown, tvrda

P: urezi između kojih su tanki oštri zarez, sjajni premaz, Bv: 5yR 5/6 yellowish red, Bu: 2.5yR 5/6 red

ds: 2 mm

Kat. jed. br. 23 (T.1: 23)

O: ulomak, Bp: GLEY1 6 gray, tvrda

P: ukras zarez izveden kotačićem, grafitni sjaj na vanjskoj stijenci, na unutarnjoj stijenci premaz sa sitnim primjesama, Bv: GLEY1 5 – 4 gray – dark gray, Bu: GLEY1 3 very dark gray

ds: 1.5 mm

Kat. jed. br. 24 (T.1: 24)

O: ulomak donjeg dijela bikonične zdjelice, izrazito

Cat. unit no. 19 (T.1: 19)

D: fragment, Cc: 10yR 8/3 very pale brown, hard

S: horizontal incision above a net made by a rounded roller, matte coating, Co: 10yR 5/3 brown – 4/1 dark gray, Ci: 10yR 4/1 dark gray

wt: 2 mm

Cat. unit no. 20 (T.1: 20)

D: bowl rim fragment, uneven rim possible manufacture error, Cc: 7.5yR 6/2 pinkish gray, hard

S: roller-made notches, coating on the inner wall applied by a brush, uneven nuanced matte color on the outer wall, Co: 7.5yR 6/2 pinkish gray, Ci: GLEY1 3 very dark gray

wt: 2 mm

Cat. unit no. 21 (T.1: 21)

D: base fragment of a bowl, Cc: 2.5yR 7/1 light gray, hard

S: stripe filled with roller-made incisions, outer wall has matte coating done by a brush in slant strokes, alternating between dark and light shades, inner wall of copper sheen covered in tiny sand grains, Co: 7.5yR 6/6 reddish yellow – 4/2 brown, Ci: 7.5yR 4/3 brown

Dba: 4 cm, wt: 2 - 3mm

Cat. unit no. 22 (T.1: 22)

D: fragment, Cc: 10yR 8/4 very pale brown, hard

S: incisions with thin sharp notches in between, glossy coating, Cc: 5yR 5/6 yellowish red, Ci: 2.5yR 5/6 red

wt: 2 mm

Cat. unit no. 23 (T.1: 23)

D: fragment, Bp: GLEY1 6 gray, hard

S: roller-made notches as decoration, graphite sheen on the outer wall, inner wall has a coating with tiny sand grains, Co: GLEY1 5 – 4 gray – dark gray, Ci: GLEY1 3 very dark gray

wt: 1.5 mm

Cat. unit no. 24 (T.1: 24)

D: fragment of the lower section of a biconical bowl, extremely thin, Cc: GLEY1 5 gray, hard, resonant

S: roller-made notches, very tiny, matte, no coating, Co: GLEY1 4 dark gray, Ci: GLEY1 5 gray

wt: 1- 2 mm

Analogies: Schindler-Kaudelka 1975: T. 17: 84 c, 96

tanka, Bp: GLEY1 5 gray, tvrda, zvonka

P: zarezi izvedeni kotačićem, vrlo sitni, mat, bez premaza, Bv: GLEY1 4 dark gray, Bu: GLEY1 5 gray ds: 1- 2 mm

Analogije: Schindler-Kaudelka 1975: T. 17: 84 c, 96

Kat. jed. br. 25 (T.1: 25)

O: dno i trbuh zdjelice, Bp: 10yR 8/3 very pale brown, mekana

P: urezi i vodoravni redovi zareza izvedeni kotačićem u donjem dijelu zdjelice, zarezi različitih veličina, premaz blagog sjaja, Bv: 5yR 6/8 reddish yellow, Bu: 2.5yR 5/8 red

Dd: 4.8 cm, ds: 2.5 mm

Kat. jed. br. 26 (T.1: 26)

O: ulomak ruba i trbuha zdjelice, Bp: 5yR 7/3 pink, mekana

P: vodoravni urezi ispod kojih su vodoravni nizovi trokutaća izvedenih kotačićem ili štapićem, premaz ujednačene boje, Bv: 2.5yR 6/8 light red, Bu: 2.5yR 6/8 light red

Dr: 9 cm , ds: 2 mm

Kat. jed. br. 27 (T.1: 27)

O: ulomak dna, Bp: 10yR 7/1 light gray jezgra, rubovi 10yR 8/3 very pale brown, tvrda

P: traka ispunjena redovima sitnih i gustih ureza, na vanjskoj stijenci premaz bakrenastog sjaja, vidljivi kosi potezi izvedeni kistom, naizmjenice tamne pa svijetle nijanse, unutarnja stijenka ima premaz blagog sjaja s primjesama sitnih zrnaca pijeska, Bv: 5yR 6/6 reddish yellow -4/1 dark gray, Bu: 5yR 5/6 yellowish red - 4/3 reddish brown

ds: 2 mm

Kat. jed. br. 28 (T.1: 28)

O: ulomak dna i donjeg dijela bikonične zdjelice, Bp: 10yR 7/4 very pale brown, tvrda

P: u donjem dijelu zdjelice zarezi izvedeni kotačićem, na vanjskoj stijenci mat premaz nejednake boje, na unutarnjoj stijenci blagi sjaj, Bv: 7.5yR 7/4 pink, 7/2 - 6/2 pinkish gray, 7/6 reddish yellow, Bu: 5yR 6/8 reddish yellow

Dd: 4.1 cm, ds: 2.5 - 3mm

Kat. jed. br. 29 (T.2: 29)

O: ulomak ruba čaše Bp: 7.5yR 7/4 pink, tvrda, zvonka

Cat. unit no.25 (T.1: 25)

D: base and belly of a bowl, Cc: 10yR 8/3 very pale brown, soft

S: incisions and horizontal lines of roller-made notches in the lower section of the bowl, notches of different sizes, coating of light gloss, Cc: 5yR 6/8 reddish yellow, Ci: 2.5yR 5/8 red

Dba: 4.8 cm, wt: 2.5 mm

Cat. unit no. 26 (T.1: 26)

D: rim and belly fragment of a bowl, Cc: 5yR 7/3 pink, soft

S: horizontal notches with horizontal lines of triangles beneath, made by rollers or sticks, coating of even color, Cc: 2.5yR 6/8 light red, Ci: 2.5yR 6/8 light red

Dr: 9 cm , wt: 2 mm

Cat. unit no. 27 (T.1: 27)

D: base fragment, Cc: 10yR 7/1 light gray core, rims 10yR 8/3 very pale brown, hard

S: stripe filled with lines of tiny dense incisions, on the outer surface coating of copper sheen, slant brush strokes visible, alternating dark and light tones, inner wall has a light coating tempered with tiny sand grains, Co: 5yR 6/6 reddish yellow -4/1 dark gray, Ci: 5yR 5/6 yellowish red - 4/3 reddish brown

wt: 2 mm

Cat. unit no. 28 (T.1: 28)

D: base fragment of the lower section of a biconical bowl, Cc:10yR 7/4 very pale brown, hard

S: in the lower section of the bowl roller-made notches, matte coating on the outer wall of uneven color, light gloss on the inner wall, Co: 7.5yR 7/4 pink, 7/2 - 6/2 pinkish gray, 7/6 reddish yellow, Ci: 5yR 6/8 reddish yellow

Dba: 4.1 cm, wt: 2.5 - 3mm

Cat. unit no. 29 (T.2: 29)

D: rim fragment of a cup, Cc: 7.5yR 7/4 pink, hard, resonant

S: incised parallel vertical lines across the entire surface which cross the subsequently incised vertical lines forming a net, fine clay texture of extremely thin walls, matte coating on the outer and inner walls, admixtures of sand on the inside Co: 5yR 6/6 reddish yellow - 4/2 dark reddish gray, Ci: 5yR 4/4 reddish brown - 4/1 dark gray

P: urezane paralelne vertikalne linije preko cijele površine koje sijeku naknadno urezane okomite linije te formiraju mrežu, fina faktura izuzetno tanke stijenke, mat premaz na vanjskoj i unutarnjoj stijenci, na unutarnjoj s primjesama pijeska, Bv: 5yR 6/6 reddish yellow – 4/2 dark reddish gray, Bu: 5yR 4/4 reddish brown – 4/1 dark gray

ds: 1.5 - 3 mm

Analogije: Curk 1971: 61, sl. 1: 16; Plesničar-Gec 1977: 21, T. 2: 12; Schindler-Kaudelka 1975: T. 18: 95c

Kat. jed. br. 30 a,b (T.2: 30 a+b)

O: ulomak ruba i dna zdjelice Bp: 5yR 7/6 reddish yellow mekana

P: barbotin ukras, ljuskasti motiv, polukružne ljuškice s oštrom oblikovanim krajevima, vidljiva su četiri reda, donji dio vanjske stijenke ukrašen sitnim zrnima pijeska, mat premaz blago nanesen kistom s primjesom pijeska, potezi kista vidljivi Bv: 2.5yR 6/8 light red, Bu: 2.5yR 6/8 light red - 5/6 red

Dd: 3 cm, ds: rub 1.5 – 2 mm, dno 2-3 mm

Analogije: Plesničar-Gec 1977: 16, T. 1: 22, Šimić-Kanaet 2010: 31; T. 82: 911

Kat. jed. br. 31 (T.2: 31)

O: ulomak ruba, Bp: 10yR 8/3 very pale brown, tvrda

P: barbotin ukras, ljuskasti motiv, polukružna ljuškica s rebrima po gornjem zadebljanom dijelu, mat premaz na stijenkama, Bv: 2.5yR 6/6 light red – 4/1 dark reddish gray, Bu: 2.5yR 5/6 red

ds: 2 mm

Analogije: Dautova-Ruševljan & Brukner 1992: 35; T. I: 2

Kat. jed. br. 32 (T.2: 32)

O: ulomak ruba, Bp: 10yR 8/4 very pale brown, tvrda

P: barbotin ukras, ljuskasti motiv, polukružne ljuškice u gornjem dijelu zdjelice, unutarnja stijenka prekrivena sitnim zrnima pijeska, mat premaz po stijenkama, Bv: 5yR 6/8 reddish yellow - 5/4 reddish brown sjene, Bu: 5yR 6/8 reddish yellow

ds: 2 mm

Analogije: isto kao kod kat. jed. br. 31

Kat. jed. br. 33 (T.2: 33)

O: ulomak ruba zdjelice, Bp: 10yR 8/4 very pale brown, tvrda

P: barbotin ukras, ljuskasti motiv, polukružne lju-

wt: 1.5 - 3 mm

Analogies: Curk 1971: 61, sl. 1: 16; Plesničar-Gec 1977: 21, T. 2: 12; Schindler-Kaudelka 1975: T. 18: 95c

Cat. unit no. 30 a,b (T.2: 30 a+b)

D: rim and base fragment of a bowl, Cc: 5yR 7/6 reddish yellow soft

S: barbotine ornament, rib motif, semicircular scales with sharply defined edges, four lines visible, lower section of the outer wall decorated in tiny sand grains, matte coating lightly applied with a brush, tempered with sand, brush strokes visible, Co: 2.5yR 6/8 light red, Ci: 2.5yR 6/8 light red - 5/6 red

Dba: 3 cm, wt: rim 1.5 – 2 mm, base 2-3 mm

Analogies: Plesničar-Gec 1977: 16, T. 1: 22, Šimić-Kanaet 2010: 31; T. 82: 911

Cat. unit no. 31 (T.2: 31)

D: rim fragment; Cc: 10yR 8/3 very pale brown, hard

S: barbotine decoration, rib motif, semicircular scale with ribs in the thickened upper section, matte coating on the walls, Co: Bv: 2.5yR 6/6 light red – 4/1 dark reddish gray, Ci: 2.5yR 5/6 red

wt: 2 mm

Analogies: Dautova-Ruševljan & Brukner 1992: 35; T. I: 2

Cat. unit no. 32 (T.2: 32)

D: rim fragment, Cc: Bp: 10yR 8/4 very pale brown, hard

S: barbotine decoration, rib motif, semicircular scales in the upper section of the bowl, inner wall covered in tiny sand grains, matte coating on the walls, Co: 5yR 6/8 reddish yellow - 5/4 reddish brown shades, Ciu: 5yR 6/8 reddish yellow

ds: 2 mm

Analogies: same as cat. unit no. 31

Cat. unit no.33 (T.2: 33)

D: rim fragment of a bowl. Cc: 10yR 8/4 very pale brown, hard

S: barbotine decoration, scales motif, semicircular scales mostly in the upper section of the vessel with ribs in the thickened upper part, inner wall covered in tiny sand grains, matte coating on the walls, Co: 2.5yR 5/8 red – 5/3 reddish brown shades, Ci: 2.5yR 4/2 weak red

wt: 2 mm

Analogies: same as cat. unit no. 31

skice većinom u gornjem dijelu posude s rebrima po gornjem zadebljanom dijelu, unutarnja stijenka prekrivena sitnim zrnima pijeska, mat premaz po stijenama, Bv: 2.5yR 5/8 red – 5/3 reddish brown sjene, Bu: 2.5yR 4/2 weak red

ds: 2 mm

Analogije: isto kao kod kat. jed. br. 31

Kat. jed. br. 34 (T.2: 34)

O: ulomak, Bp: 10yR 8/4 very pale brown tvrda, pročišćena, zvonka

P: barbotin ukras, motiv potpuno stilizirane ljuskice, nepravilne su i međusobno povezane, mat premaz na stijenama, Bv: 5yR 6/6 reddish yellow – 5/4 reddish brown, Bu: 5yR 6/6 reddish yellow

ds :1,5 mm

Analogije: Brukner 1981: T. 55: 1

Kat. jed. br. 35 (T.2: 35)

O: ulomak središnjeg dijela bikonične zdjelice, Bp: GLEY1 7 light gray tvrda, pročišćena, zvonka

P: barbotin ukras, ljuskasti motiv, ljuskice oštih krajeva s rebrima po gornjem zadebljanom dijelu, nalaze se na gornjem dijelu zdjelice dok je donji dio ukrašen sitnim trokutićima i zarezima izvedenim kotačićem u linijama odvojenim urezima, mat premaz, gornji dio svjetliji, a donji tamniji vanjske stijenke, na unutarnjoj stijenci premaz sa sitnim zrnima pijeska, Bv: GLEY1 5/N gray – 7.5yR 6/4 light brown, Bu: 7.5yR 5/3 brown

ds: 2-3 mm

Analogije: isto kao kod kat. jed. br. 31

Kat. jed. br. 36 (T.2: 36)

O: ulomak, Bp: 2.5y 8/3 pale yellow mekana

P: barbotin ukras, motiv ljuskice s rebrima po gornjem zadebljanom dijelu, mat premaz na stijenama, na unutarnjoj stijenci premaz s pijeskom, Bv: 2.5y 4/1 dark gray, Bu: 2.5y 4/1 dark gray

ds: 2 mm

Analogije: isto kao kod kat. jed. br. 31

Kat. jed. br. 37 (T.2: 37)

O: ulomak, Bp: 7.5yR 8/4 pink jako mekana

P: barbotin ukras, motiv zadebljane stilizirane ljuskice s rebrima i sitnim buklom, mat premaz slabo očuvan Bv: 2.5yR 5/8 red, Bu: 2.5yR 6/8 light red

ds: 2 mm

Kat. jed. br. 38 (T.2: 38)

Cat. unit no. 34 (T.2: 34)

D: fragment, Cc: 10yR 8/4 very pale brown, hard, refined, resonant

S: barbotine motif, entirely stylized scales, irregular and interconnected, matte coating on the walls, Co: 5yR 6/6 reddish yellow – 5/4 reddish brown, Ci: 5yR 6/6 reddish yellow

wt :1,5 mm

Analogies: Brukner 1981: T. 55: 1

Cat. unit no. 35 (T.2: 35)

D: fragment of the central section of a biconical bowl, Cc: GLEY1 7 light gray hard, refined, resonant

S: barbotine decoration, scales motif, sharp-edged scales with ribs in the thickened upper section, the lower section is decorated in tiny triangles and roller-made notches in lines separated by incisions, matte coating, upper section lighter, lower section darker on the outside, inner walls covered in tiny sand grains; Co: GLEY1 5/N gray – 7.5yR 6/4 light brown, Ci: 7.5yR 5/3 brown

wt: 2-3 mm

Analogies: same as cat. unit no. 31

Cat. unit no. 36 (T.2: 36)

D: fragment, Cc: 2.5y 8/3 pale yellow soft

S: barbotine decoration, scales motif with ribs in the thickened upper part, matte coating, inner walls covered in sand, Co: 2.5y 4/1 dark gray, Bu: 2.5y 4/1 dark gray

wt: 2 mm

Analogies: same as cat. unit no. 31

Cat. unit no. 37 (T.2: 37)

D: fragment, Cc: 7.5yR 8/4 pink very soft

S: barbotine decoration, thickened stylized scales motif, with ribs and tiny boucle, matte coating poorly preserved, Co: 2.5yR 5/8 red, Ci: 2.5yR 6/8 light red

wt: 2 mm

Cat. unit no. 38 (T.2: 38)

D: fragment, Bp: 5yR 7/6 reddish yellow hard

S: barbotine decoration, scales motif, light gloss, coating imitating terra sigillata, inner walls covered in matte coating tempered with tiny sand grains, Co: 2.5yR 5/8 red, Ci: 2.5yR 5/8 red

wt: 2 mm

O: ulomak, Bp: 5yR 7/6 reddish yellow tvrda

P: barbotin ukras, motiv ljuskica, blagog sjaja, imitira prevlakom teru sigilatu, na unutarnjoj stijenci mat premaz s primjesama sitnih zrnaca pijeska, Bv: 2.5yR 5/8 red, Bu: 2.5yR 5/8 red

ds: 2 mm

Kat. jed. br. 39 (T.2: 39)

O: ulomak, Bp: 10yR 8/4 very pale brown tvrda

P: barbotin ukras, motiv zadebljanih izduženih ljuskica, u donjem dijelu posude su zarezi izvedeni kotačićem, srebrnkasti premaz na unutarnjoj stijenci s primjesama sitnih zrnaca pijeska, žarko crvena, Bv: 2.5yR 6/8 light red - 5/8 red, Bu: 2.5yR 5/8 red - 4/3 reddish brown

ds: 2 mm

Analogije: Ricci 1985: 330, T. CVIII: 8

Kat. jed. br. 40 (T.2: 40)

O: rub zdjelice, Bp: 7.5yR 8/4 pink, jako mekana

P: barbotin ukras, biljni motiv stiliziranih listova, peteljki, unutarnja stijenska prekrivena sitnim zrnacima pijeska, mat premaz, Bv: 5yR 7/6 reddish yellow - 6/4 light reddish brown sjene, Bu: 5yR 4/3 reddish brown

ds: 2 mm

Analogije: Brukner 1981: T. 55: 9, 21

Kat. jed. br. 41 (T.2: 41)

O: zdjelica, Bp: 5y 8/3 pale yellow, mekana

P: barbotin ukras, motiv stiliziranih listova, donji dio posude ukrašen je zarezima izvedenim kotačićem u dvije trake odvojene urezima, mat premaz, na unutarnjoj stijenci nešto sitnih zrnaca pijeska u premazu, Bv: 7.5yR 6/4 light brown - 4/1 dark gray, Bu: 10yR 4/1 dark gray

Dr: 10.4 cm, Dt: 10.5 cm, Dd: 4 cm, ds: 2-3 mm, V: 5.4 cm

Analogije: isto kao kod kat. jed. br. 40

Kat. jed. br. 42 (T.2: 42)

O: ulomak ruba zdjelice, Bp: 10yR 8/4 very pale brown, jako mekana

P: barbotin ukras, motiv stiliziranih listova, premaz na stijenama, na unutarnjoj stijenci srebrnkastog sjaja, Bv: 7.5yR 7/6 reddish yellow - 4/2 brown, Bu: 7.5yR 7/6 reddish yellow - 4/3 brown

Dr: 10 cm, ds: 2 mm

Analogije: isto kao kod kat. jed. br. 40

Kat. jed. br. 43 (T.2: 43)

Cat. unit no. 39 (T.2: 39)

D: fragment, Cc: 10yR 8/4 very pale brown hard

S: barbotine decoration, thickened elongated scales motif, lower section covered in roller-made notches, silver coating on the inner walls tempered in tiny sand grains, bright red, Co: 2.5yR 6/8 light red - 5/8 red, Ci: 2.5yR 5/8 red - 4/3 reddish brown

wt: 2 mm

Analogies: Ricci 1985: 330, T. CVIII: 8

Cat. unit no. 40 (T.2: 40)

D: rim of a bowl, Cc: 7.5yR 8/4 pink, very soft

S: barbotine decoration, plant motif of stylized leaves and petioles, inner walls covered in tiny sand grains, matte coating, Co: 5yR 7/6 reddish yellow - 6/4 light reddish brown shades, Ci: 5yR 4/3 reddish brown

wt: 2 mm

Analogies: Brukner 1981: T. 55: 9, 21

Cat. unit no. 41 (T.2: 41)

D: bowl, Cc: 5y 8/3 pale yellow, soft

S: barbotine decoration, stylized leaves motif, lower section of the vessel decorated in roller-made notches in two stripes separated by incisions, matte coating, inner walls coated in some sand grains, Co: 7.5yR 6/4 light brown - 4/1 dark gray, Ci: 10yR 4/1 dark gray

Dr: 10.4 cm, Dbe: 10.5 cm, Dba: 4 cm, ds: 2-3 mm, H: 5.4 cm

Analogies: same as cat. unit no. 40

Cat. unit no. 42 (T.2: 42)

D: rim fragment of a bowl, Cc: 10yR 8/4 very pale brown, very soft

S: barbotine decoration, stylized leaves motif, coated walls, inner wall has a silver sheen, Co: 7.5yR 7/6 reddish yellow - 4/2 brown, Ci: 7.5yR 7/6 reddish yellow - 4/3 brown

Dr: 10 cm, wt: 2 mm

Analogies: same as cat. unit no. 40

Cat. unit no. 43 (T.2: 43)

D: fragment, Bp: 2.5y 8/3 pale yellow very soft

S: barbotine decoration, smaller upright and linked leaves, inner wall covered in tiny sand grains, matte coating, Co: 2.5y 4/1 dark gray, Bu: 2.5y 4/1 dark gray

wt: 2 mm

Analogies: Brukner 1981: T. 55: 18

O: ulomak, Bp: 2.5y 8/3 pale yellow jako mekana  
P: barbotin ukras, motiv manjih uspravnih i pove-  
zanih listova, unutarnja stijenka prekrivena sitnim  
zrncima pijeska, mat premaz, Bv: 2.5y 4/1 dark  
gray, Bu: 2.5y 4/1 dark gray  
ds: 2 mm

Analogije: Brukner 1981: T. 55: 18

Kat. jed. br. 44 (T.2: 44)

O: ulomak, Bp: 7.5yR 7/4 pink tvrda  
P: barbotin ukras, motiv malih vodoravno postav-  
ljenih listova, sjajni premaz, imitacija boje tere si-  
gilate, na unutarnjoj stijenci u premazu ima malo  
sitnog pijeska, Bv: 10R 4/8 red, Bu: 2.5yR 4/8 red  
ds: 2 mm

Kat. jed. br. 45 (T.2: 45)

O: ulomak, Bp: 7.5yR 7/4 pink mekana  
P: barbotin ukras, motiv stiliziranog većeg lista po-  
stavljenog vrškom prema donjem dijelu zdjelice i  
omeđen s obje strane okomitim redom nepravilnih  
kapljica, u donjem dijelu zarezi izvedeni kotačićem,  
mat premaz na stijenkama, unutarnja stijenka pre-  
krivena sitnim zrncima pijeska, Bv: 2.5yR 6/8 light  
red, sjene 4/2 weak red, Bu: 2.5yR 5/4 reddish brown  
ds: 2-2,5 mm

Analogije: Bonis 1942: T. XX: 37

Kat. jed. br. 46 (T.2: 46)

O: ulomak, Bp: 7.5yR 8/4 pink mekana  
P: barbotin ukras, motiv stiliziranog većeg lista ili  
pupoljka postavljenog vodoravno, premaz na sti-  
jenkama, vanjska mat, premaz unutarnje stijenke  
srebrnkastog sjaja, Bv: 5yR 7/8 reddish yellow – 4/3  
reddish brown sjene, Bu: 5yR 5/4 reddish brown –  
5/6 yellowish red  
ds: 1.5 mm

Kat. jed. br. 47 (T.2: 47)

O: ulomak, Bp: 5yR 8/4 pink mekana  
P: barbotin ukras, motiv stiliziranog duguljastog  
lista s gustim rebrima, mat premaz na stijenkama,  
Bv: 2.5yR 5/8 red, Bu: 10R 5/6 red  
ds: 2 mm

Kat. jed. br. 48 (T.2: 48)

O: ulomak ruba zdjelice, Bp: 5yR 7/6 reddish yellow  
tvrda  
P: barbotin ukras, motiv izduženih narebrenih listo-  
va, uspravni list iz kojeg su zrakasto položena još  
dva lista, uz taj motiv nalazi se okomiti niz nepravil-

Cat. unit no. 44 (T.2: 44)

D: fragment, Bp: 7.5yR 7/4 pink hard  
S: barbotine decoration, smaller horizontal leaves  
motif, glossy coating, color imitates terra sigillata,  
inner wall coating contains traces of fine sand, Co:  
10R 4/8 red, Ci: 2.5yR 4/8 red  
wt: 2 mm

Cat. unit no. 45 (T.2: 45)

D: fragment, Bp: 7.5yR 7/4 pink soft  
S: barbotine decoration, stylized large leaf set with  
the tip pointing toward the lower section of the  
bowl and bordered on both sides by perpendicular  
rows of irregular droplets, the lower section cover-  
ed in roller-made notches, matte coating on the  
walls, inner wall covered in tiny sand grains, Co:  
2.5yR 6/8 light red, shades 4/2 weak red, Ci: 2.5yR  
5/4 reddish brown  
wt: 2-2,5 mm

Analogies: Bonis 1942: T. XX: 37

Cat. unit no. 46 (T.2: 46)

D: fragment, Cc: 7.5yR 8/4 pink soft  
S: barbotine decoration, stylized large leaf or bud  
set horizontally, outer coating matte, inner coating  
on the walls of silver sheen, Co: 5yR 7/8 reddish yel-  
low – 4/3 reddish brown shades, Bu: 5yR 5/4 red-  
dish brown – 5/6 yellowish red  
wt: 1.5 mm

Cat. unit no. 47 (T.2: 47)

D: fragment, Cc: 5yR 8/4 pink soft  
S: barbotine decoration, stylized elongated leaf with  
dense ribs, matte coating on the walls, Co: 2.5yR 5/8  
red, Ci: 10R 5/6 red  
wt: 2 mm

Cat. unit no. 48 (T.2: 48)

D: rim fragment of a bowl, Cc: 5yR 7/6 reddish yel-  
low hard  
S: barbotine decoration, elongated ribbed leaves  
motif, upright leaf from which two other leaves are  
radially placed, next to it a vertical row of irregu-  
lar droplets, matte coating, inner wall contains tiny  
sand grains on the coating, Co: 2.5yR 6/6 light red,  
Ci: 2.5yR 6/8 light red  
Dr: 9 cm, wt: 2 mm  
Analogies: Burkowsky *et al.* 2000: 22, Nemeth–Ehr-  
lich & Kušan 2007: 58, Plesničar–Gec 1977: 17, T.  
1: 48, Petru & Petru 1978: T. XXXVI: 25, Ožanić-  
Roguljić 2007: T. 1: 8, 175



nih kapljica, mat premaz na stijenkama, na unutarnjoj stijenci u premazu sitne primjese, Bv: 2.5yR 6/6 light red, Bu: 2.5yR 6/8 light red

Dr: 9 cm, ds: 2 mm

Analogije: Burkowsky *et al.* 2000: 22, Nemeth–Ehrlich & Kušan 2007: 58, Plesničar-Gec 1977: 17, T. 1: 48, Petru & Petru 1978: T. XXXVI: 25, Ožanić-Roguljić 2007: T. 1: 8, 175

Kat. jed. br. 49 (T.2: 49)

O: ulomak, Bp: 7.5yR 8/4 pink, jako mekana

P: barbotin ukras, motiv izduženih listova vodoravno položenih, na stijenkama sjajna prevlaka, na unutarnjoj stijenci sa sitnim zrnima pijeska, Bv: 2.5yR 6/8 light red – 4/3 reddish brown sjene, Bu: 2.5yR 6/2 weak red

ds: 1.5 mm

Kat. jed. br. 50 (T.2: 50)

O: ulomak ruba, Bp: 7.5yR 8/4 pink, jako mekana

P: barbotin ukras, motiv šireg lista, premaz na stijenkama, blagog sjaja, Bv: 2.5yR 6/8 light red, Bu: 2.5yR 6/8 light red

ds: 2.5 mm

Kat. br. 51 (T.2: 51)

O: ulomak, Bp: 5yR 7/2 pinkish gray, jako mekana

P: barbotin ukras, motiv stiliziranog lista, mat premaz, Bv: 5yR 6/8 reddish yellow, Bu: 5yR 7/8 – 6/8 reddish yellow

ds: 2 mm

Kat. br. 52 (T.2: 52)

O: ulomak, Bp: 7.5yR 8/4, mekana

P: barbotin ukras, motiv stiliziranog lista polukružno postavljenog na prijelazu prema donjem dijelu zdjelice ukrašenog rebrima, u donjem dijelu zdjelice ukras je sitnih zareza izvedenih kotačićem, mat premaz na stijenkama, u premazu na unutarnjoj stijenci ima primjesa, Bv: 2.5yR 6/8 light red – 5/3 reddish brown, Bu: 2.5yR 5/8 red

ds: 3 mm

Kat. br. 53 (T.2: 53)

O: ulomak ruba zdjelice, Bp: 10yR 8/4 very pale brown, mekana

P: barbotin ukras, motiv lista, mat premaz na stijenkama, na unutarnjoj stijenci u premazu sitne primjese, Bv: 2.5yR 6/6 – 6/8 light red, Bu: 2.5yR 6/6 – 6/8 light red

Dr: 8 cm, ds: 2 mm

Cat. unit no. 49 (T.2: 49)

D: fragment, Cc: 7.5yR 8/4 pink, very soft

S: barbotine decoration, elongated leaves horizontally placed, glossy coating on the walls, inner wall has tiny sand grains, Co: 2.5yR 6/8 light red – 4/3 reddish brown shades, Ci: 2.5yR 6/2 weak red

wt: 1.5 mm

Cat. unit no. 50 (T.2: 50)

D: rim fragment, Cc: 7.5yR 8/4 pink, very soft

S: barbotine decoration, expanded leaf motif, glossy coating on the walls, Co: 2.5yR 6/8 light red, Ci: 2.5yR 6/8 light red

wt: 2.5 mm

Cat. no. 51 (T.2: 51)

D: fragment, Cc: 5yR 7/2 pinkish gray, very soft

S: barbotine decoration, stylized leaf motif, matte coating, Co: 5yR 6/8 reddish yellow, Ci: 5yR 7/8 – 6/8 reddish yellow

wt: 2 mm

Cat. no. 52 (T.2: 52)

D: fragment, Cc: 7.5yR 8/4, soft

S: barbotine decoration, stylized leaf motif, placed semicircular on the transition to the lower section of the bowl decorated in ribs, the lower section is covered with tiny roller-made notches, matte coating on the wall, the coating on the inner side as admixtures; Co: 2.5yR 6/8 light red – 5/3 reddish brown, Ci: 2.5yR 5/8 red

wt: 3 mm

Cat. no. 53 (T.2: 53)

D: rim fragment of a bowl, Bp: 10yR 8/4 very pale brown, soft

S: barbotine decoration, leaf motif, matte coating, inner wall has tiny admixtures in the coating, Co: 2.5yR 6/6 – 6/8 light red, Ci: 2.5yR 6/6 – 6/8 light red

Dr: 8 cm, wt: 2 mm

Cat. no. 54 (T.2: 54)

D: fragment, Cc: 2.5yR 5/8, soft

S: barbotine decoration, stylized leaf motif, matte coating on the walls, Co: 2.5yR 6/8 light red – 5/8 red, Ci: 7.5yR pink

wt: 1,5-2 mm

Kat. br. 54 (T.2: 54)

O: ulomak, Bp: 2.5yR 5/8, mekana

P: barbotin ukras, motiv stiliziranog lista, mat premaz na stijenrama, Bv: 2.5yR 6/8 light red – 5/8 red, Bu: 7.5yR pink

ds: 1,5-2 mm

Kat. br. 55 (T.2: 55)

O: ulomak ruba, Bp: 5yR 7/6 reddish yellow, tvrda

P: barbotin ukras, motiv peteljki, mat premaz na stijenrama, unutarinja stijenka prekrivena manjim nakupinama sitnih zrnaca pijeska, Bv: 2.5yR 6/8 light red – 4/2 weak red, Bu: 2.5yR 5/8 red

ds: 1,7-2 mm

Analogije: Wiewegh 2003: T. XV: 5, Burkowsky *et al.* 2000: 22, Petru & Petru 1978: T. XLVI: 10

Kat. br. 56 (T.2: 56)

O: ulomak ruba, Bp: 7.5yR 8/4 pink, tvrda

P: barbotin ukras, motiv peteljka listova, mat premaz na stijenrama, na unutarinjoj stijenci u premaru sitne primjese, Bv: 5yR 6/8 reddish brown, Bu: 5yR 6/8 reddish brown

ds: 2 mm

Analogije: isto kao kod kat. jed. br. 55

Kat. br. 57 (T.2: 57)

O: ulomak ruba, Bp: 7.5yR 8/4 pink, mekana

P: barbotin ukras, motiv okomitog niza kapljica, obojena premazom, unutarinja stijenka prekrivena sitnim zrnima pijeska, Bv: 5yR 6/8 reddish yellow – 4/4 reddish brown, Bu: 5yR 3/2 dark reddish brown

ds: 2 mm

Analogije: Brukner 1981: T. 55: 23, Plesničar-Gec 1977: T. 1: 42, 44, Gassner 1992: 449–450

Kat. br. 58 (T.3: 58)

O: čaša, Bp: 7.5yR 8/3 pink, mekana

P: barbotin ukras, motiv listova, peteljki i kružnih bobica, u donjem dijelu trake odvojene urezima, a ispunjene zarezima izvedenim kotačićem, mat premaz na stijenrama, Bv: 7.5yR 4/1 dark gray – 5/6 strong brown, Bu: 7.5yR 4/1 dark gray – 5/6 strong brown

Dr: 8.2 cm, Dt: 9 cm, Dd: 4.1 cm, ds: 2.5 mm, V: 8 cm

Analogije: isto kao kod kat. jed. br. 55

Kat. br. 59 (T.3: 59)

O: ulomak ruba i trbuha bikonične zdjelice, Bp: 7.5yR 8/4 pink, tvrda

P: barbotin ukras, motiv gusto poredanih redova ka-

Cat. no. 55 (T.2: 55)

D: rim fragment, Cc: 5yR 7/6 reddish yellow, hard

S: barbotine decoration, petiole motif, matte coating on the walls, inner wall covered in small clusters of sand grains, Co: 2.5yR 6/8 light red – 4/2 weak red, Ci: 2.5yR 5/8 red

wt: 1,7-2 mm

Analogies: Wiewegh 2003: T. XV: 5, Burkowsky *et al.* 2000: 22, Petru & Petru 1978: T. XLVI: 10

Cat. no. 56 (T.2: 56)

D: rim fragment, Cc: 7.5yR 8/4 pink, hard

S: barbotine decoration, petiole motif, matte coating, inner wall has fine admixtures in the coating, Co: 5yR 6/8 reddish brown, Ci: 5yR 6/8 reddish brown

wt: 2 mm

Analogies: same as cat. no. 55

Cat. no. 57 (T.2: 57)

D: rim fragment, Cc: 7.5yR 8/4 pink, soft

S: barbotine decoration, vertical row of droplets motifs, coated, inner wall covered in tiny sand grains, Co: 5yR 6/8 reddish yellow – 4/4 reddish brown, Ci: 5yR 3/2 dark reddish brown

wt: 2 mm

Analogies: Brukner 1981: T. 55: 23, Plesničar-Gec 1977: T. 1: 42, 44, Gassner 1992: 449–450

Cat. no. 58 (T.3: 58)

D: cup, Cc: 7.5yR 8/3 pink, soft

S: barbotine decoration, leaf motif, petioles and circular berries, lower section has stripes separated by incisions and filled with roller-made notches, matte coating on the walls, Co: 7.5yR 4/1 dark gray – 5/6 strong brown, Ci: 7.5yR 4/1 dark gray – 5/6 strong brown

Dr: 8.2 cm, Dbe: 9 cm, Dba: 4.1 cm, wt: 2.5 mm, H: 8 cm

Analogies: same as cat. unit no. 55

Cat. no. 59 (T.3: 59)

D: rim and belly fragment of a biconical bowl, Cc: 7.5yR 8/4 pink, hard

S: barbotine decoration, densely lined rows of droplets alternating between elongated and circular shapes, roller-made decorations in the lower section of the bowl, matte coating on the walls, Co: 5yR 5/6 yellowish red – 4/1 dark gray, Ci: 2.5yR 5/8 red

Dr: 10 cm, wt: 2-3 mm

Analogies: same as cat. unit no. 57

pljica naizmjenice izduženog i kružnog oblikovanja, u donjem dijelu zdjelice ukras izveden kotačićem, mat premaz na stijenama, Bv: 5yR 5/6 yellowish red – 4/1 dark gray, Bu: 2.5yR 5/8 red

Dr: 10 cm, ds: 2–3 mm

Analogije: isto kao kod kat. jed. br. 57

Kat. br. 60 (T.3: 60)

O: zdjelica, Bp: 10yR 8/4 very pale brown, tvrda

P: barbotin ukras, motiv sitnih kapljica poredanih u 4 neravna reda, u donjem redu dvije trake odvojene urezima i ispunjene sitnim, gusto poredanim trokutićima izvedenim kotačićem ili štapićem, mat premaz na vanjskoj stijenci nejednake boje, unutar-nja stijenka prekrivena sitnim zrnima pijeska ujednačene boje mat premaza, Bv: 2.5yR 5/8 red – 4/3 reddish brown, Bu: 2.5yR 4/6 red

Dr: 9.1 cm, Dt: 9.6 cm, Dd: 4 cm, V: 5.5 cm, ds: 2.5 mm

Analogije: isto kao kod kat. jed. br. 57

Kat. br. 61 (T.3: 61)

O: ulomak dna bikonične zdjelice, Bp: 7.5yR 8/4 pink, mekana

P: valovita traka ispod koje je motiv otisnutih narebrenih okomitih traka, pravilan i ujednačen izgled traka, mat premaz na stijenama, imitira boju tere sigilate, na unutarnjoj stijenci sitna zrnca pijeska u premazu, Bv: 10R 5/8 red, Bu: 10R 5/8 red  
ds: 2,5 mm

Kat. br. 62 (T.3: 62)

O: ulomak ruba i trbuha bikonične zdjelice, Bp: 7.5yR 7/4 pink, tvrda

P: barbotin ukras, motiv stiliziranih narebrenih listova i cvjetova povezanih u girlandu, u donjem dijelu urezima odvojena traka ispunjena zarezima izvedenim kotačićem, nijansirani mat premaz, Bv: 2.5yR 6/6 – 6/8 light red, Bu: 2.5yR 6/6 – 6/8 light red

Dr: 9 cm, ds: 2 mm

Analogije: Dimitrova-Milčeva 1992: 483–485, sl. 11, 14b

Kat. br. 63 (T.3: 63)

O: ulomak, Bp: 2.5y 8/3 pale yellow, mekana

P: barbotin ukras, motiv spiralne vitice, unutarnja stijenka prekrivena sitnim zrnima pijeska, mat premaz na stijenama, Bv: 2.5y 4/1 dark gray, Bu: 2.5y 4/1 dark gray

ds: 2 mm

Kat. br. 64 (T.3: 64)

Cat. no. 60 (T.3: 60)

D: bowl, Cc: 10yR 8/4 very pale brown, hard

S: barbotine decoration, tiny droplets arranged in four uneven rows, in the lower section two stripes separated by incisions and filled with tiny, densely-packed triangles made by rollers or sticks, matte coating on the outer wall of uneven color, inner wall covered in tiny sand grains of even matte coating, Co: 2.5yR 5/8 red – 4/3 reddish brown, Ci: 2.5yR 4/6 red

Dr: 9.1 cm, Dbe: 9.6 cm, Dba: 4 cm, H: 5.5 cm, wt: 2.5 mm

Analogies: same as cat. unit no. 57

Cat. no. 61 (T.3: 61)

D: base fragment of a biconical bowl, Cc: 7.5yR 8/4 pink, soft

S: wavy stripe above printed ribbed perpendicular stripes, regular and uniform appearance of the stripes, matte coating on the walls imitates the color of terra sigillata, inner wall has tiny sand grains in the coating, Co: 10R 5/8 red, Ci: 10R 5/8 red  
wt: 2,5 mm

Cat. no. 62 (T.3: 62)

D: rim and belly fragment of a biconical bowl, Cc: 7.5yR 7/4 pink, hard

S: barbotine decoration, stylized ribbed leaves and flowers arranged into a garland, lower section has a stripe separated by incisions and filled with roller-made notches, nuanced matte coating, Co: 2.5yR 6/6 – 6/8 light red, Ci: 2.5yR 6/6 – 6/8 light red

Dr: 9 cm, wt: 2 mm

Analogies: Dimitrova-Milčeva 1992: 483–485, sl. 11, 14b

Cat. no. 63 (T.3: 63)

D: fragment, Cc: 2.5y 8/3 pale yellow, soft

S: barbotine decoration, spiral coil motif, inner wall covered in tiny sand grains, matte coating on the walls, Co: 2.5y 4/1 dark gray, Ci: 2.5y 4/1 dark gray  
wt: 2 mm

Cat. no. 64 (T.3: 64)

D: fragment, Cc: 7.5yR 7/4 pink, soft

S: barbotine decoration, spiral coil motif, matte coating on the walls, inner wall covered in tiny sand grains, Co: 2.5yR 6/8 light red – 5/6 red, Ci: 2.5yR 5/6 red

wt: 2 mm

O: ulomak, Bp: 7.5yR 7/4 pink, mekana

P: barbotin ukras, motiv spiralne vitice, mat premaz na stijenama, unutarinja stijenka prekrivena sitnim zrcima pijeska, Bv: 2.5yR 6/8 light red – 5/6 red, Bu: 2.5yR 5/6 red

ds: 2 mm

Analogije: Petru & Petru 1978: T. XXXVI: 19; Nemeth–Ehrlich & Kušan 2007: 39; Vikić-Belančić 1967: 32, sl. 132, 133; Vidošević 2003: 24, T. 21: 4–7, Brukner 1981: T. 55: 22, 26

Kat. br. 65 (T.3: 65)

O: ulomak, Bp: 2.5yR 7/4 light reddish brown, tvrda

P: barbotin ukras, motiv spiralne vitice i okomito položenih izduženih listova, unutarinja stijenka prekrivena sitnim zrcima pijeska, mat nijansiran premaz, Bv: 5yR 6/8 reddish yellow- 3/2 dark reddish brown, Bu: 2.5yR 4/4 reddish brown – 4/8 red

ds: 2.5 mm

Kat. br. 66 (T.3: 66)

O: ulomak bikonične zdjelice, Bp: 2.5yR 7/4 light reddish brown, tvrda

P: barbotin ukras, motiv velikih cvjetova odvojenih urezom od donjeg dijela zdjelice ukrašenog zarezi- ma izvedenim kotačićem, mat premaz na stjenka- ma, unutarinja stijenka prekrivena sitnim zrcima pijeska, Bv: 2.5yR 6/8 light red – 5/3 reddish brown, sjene, Bu: 2.5yR 6/8 light red – 4/3 reddish brown

ds: 2 mm

Analogije: Brukner 1981: T. 55: 8; Brukner 1987: T. 23: 1, Plesničar-Gec 1977: T. 1: 47, Petru & Petru 1978: T. XXXVI: 24, Ožanić-Roguljić 2007: T. 1: 6, 11

Kat. br. 67 (T.3: 67)

O: ulomak, Bp: 7.5yR 7/4 pink, tvrda

P: barbotin ukras, motiv izdužene spiralne vitice i nepravilnih plastičnih izbočenja, mat vanjske stijenke bez premaza, unutarinja stijenka ima premaz blagog sjaja. Vanjska površina gruba, Bv: 7.5yR 7/3 pink – 6/3 light brown, Bu: 5yR 5/3 reddish brown – 6/4 light reddish brown

ds: 1.5 mm

Kat. br. 68 (T.3: 68)

O: ulomak ruba, Bp: 5yR 7/6 reddish yellow, tvrda

P: barbotin ukras, motiv spiralne vitice valovitih linija, unutarinja stijenka ima prevlaku srebrnog sjaj-

Analogies: Petru & Petru 1978: T. XXXVI: 19; Nemeth–Ehrlich & Kušan 2007: 39; Vikić-Belančić 1967: 32, sl. 132, 133; Vidošević 2003: 24, T. 21: 4–7, Brukner 1981: T. 55: 22, 26

Cat. no. 65 (T.3: 65)

D: fragment, Cc: 2.5yR 7/4 light reddish brown, hard

S: barbotine decoration, spiral coil motif with perpendicular elongated leaves, inner wall covered in tiny sand grains, nuanced matte coating, Co: 5yR 6/8 reddish yellow- 3/2 dark reddish brown, Ci: 2.5yR 4/4 reddish brown – 4/8 red

wt: 2.5 mm

Cat. no. 66 (T.3: 66)

D: fragment of a biconical bowl, Cc: 2.5yR 7/4 light reddish brown, hard

S: barbotine decoration, large flowers motif separated by incision from the lower section of the bowl decorated in roller-made notches, matte coating on the walls, inner wall covered in tiny sand grains, Co: 2.5yR 6/8 light red – 5/3 reddish brown, shades, Ci: 2.5yR 6/8 light red – 4/3 reddish brown

wt: 2 mm

Analogies: Brukner 1981: T. 55: 8; Brukner 1987: T. 23: 1, Plesničar-Gec 1977: T. 1: 47, Petru & Petru 1978: T. XXXVI: 24, Ožanić-Roguljić 2007: T. 1: 6, 11

Cat. no. 67 (T.3: 67)

D: fragment, Cc: 7.5yR 7/4 pink, hard

S: barbotine decoration, elongated spiral coil motif and irregular sculpted protrusions, matte outer wall without coating, inner wall has a coating of light gloss. Rough surface of the outside walls. Co: 7.5yR 7/3 pink – 6/3 light brown, Ci: 5yR 5/3 reddish brown – 6/4 light reddish brown

wt: 1.5 mm

Cat. no. 68 (T.3: 68)

D: rim fragment, Cc: 5yR 7/6 reddish yellow, hard

S: barbotine decoration, spiral coil motif of wavy lines, inner wall has a silver coating, outer wall has a nuanced glossy coating, Co: 2.5yR 6/8 light red – 4/2 weak red, Ci: 5yR 5/3 reddish brown – 5/8 red

wt: 2 mm

Analogies: Brukner 1987: T. 6: 6, T. 7: 8

ja, vanjska stijenka ima sjajni nijansirani premaz, Bv: 2.5yR 6/8 light red – 4/2 weak red, Bu: 5yR 5/3 reddish brown – 5/8 red

ds: 2 mm

Analogije: Brukner 1987: T. 6: 6, T. 7: 8

Kat. br. 69 (T.3: 69)

O: ulomak ruba i trbuha bikonične zdjelice, Bp: 2.5yR 6/1 reddish gray, tvrda

P: barbotin ukras, motiv girlande u gornjem dijelu a trakom odvojen donji dio ima ukras sitnih zareza izvedenih kotačićem, nijansiran mat premaz, Bv: 2.5yR 6/8 light red – 5/4 reddish brown – 6/2 pale red, Bu: 2.5yR 6/2 pale red – 6/8 light red

ds: 2 mm, Dr: 4,2 cm

Analogije: Dimitrova-Milčeva 1992: 483–485, sl. 11, 14b

Kat. br. 70 (T.3: 70)

O: ulomak ruba, Bp: 7.5yR 7/4 pink, tvrda, sitne primjese crne

P: barbotin ukras, motiv spiralne vitice, premaz nejednake boje, mat, unutarnja stijenka prekrivena sitnim zrnima pijeska, Bv: 5yR 5/2 reddish gray, Bu: 7.5yR 7/4 pink – 5/3 brown

ds: 1,8 - 2 mm

Kat. br. 71 (T.3: 71)

O: ulomak, Bp: 7.5yR 8/4 pink, mekana

P: barbotin ukras, motiv spiralne vitice, premaz koji imitira boju tere sigilate, Bv: 2.5yR 6/8 light red, Bu: 2.5yR 5/8 red

ds: 2-3 mm

Analogije: Petru & Petru 1978: T. XXXVI: 19; Nemeth–Ehrlich & Kušan 2007: 39; Vikić–Belančić 1967: 32, sl. 132, 133; Vidošević 2003: 24, T. 21: 4–7, Brukner 1981: T. 55: 22, 26

Kat. br. 72 (T.3: 72)

O: ulomak, Bp: 7.5yR 8/4 pink, tvrda

P: barbotin ukras, motiv spiralne vitice, sjajni premaz koja imitira teru sigilatu, na unutarnjoj stijenci u premazu vrlo sitna zrnca pijeska, Bv: 2.5yR 6/8 light red – 5/8 red, Bu: 10R 5/8 red – 4/3 weak red

ds: 2 mm

Analogije: isto kao kod kat. jed. br. 71

Kat. br. 73 (T.3: 73)

O: ulomak, Bp: 5yR 7/4 pink, tvrda

Cat. no. 69 (T.3: 69)

D: rim and belly fragment of a biconical bowl, Cc: 2.5yR 6/1 reddish gray, hard

S: barbotine decoration, garland motif in the upper section, lower section separated by a stripe and decorated in small roller-made notches, nuanced matte coating, Co: 2.5yR 6/8 light red – 5/4 reddish brown – 6/2 pale red, Ci: 2.5yR 6/2 pale red – 6/8 light red  
wt: 2 mm, Dr: 4,2 cm

Analogies: Dimitrova-Milčeva 1992: 483–485, sl. 11, 14b

Cat. no. 70 (T.3: 70)

D: rim fragment, Cc: 7.5yR 7/4 pink, hard, tiny black admixtures

S: barbotine decoration, spiral coil motif, coating of uneven color, matte, inner wall covered in tiny sand grains, Co: 5yR 5/2 reddish gray, Ci: 7.5yR 7/4 pink – 5/3 brown

wt: 1,8 - 2 mm

Cat. no. 71 (T.3: 71)

D: fragment, Cc: 7.5yR 8/4 pink, soft

S: barbotine decoration, spiral coil motif, coating imitates the color of terra sigillata, Co: 2.5yR 6/8 light red, Ci: 2.5yR 5/8 red

wt: 2-3 mm

Analogies: Petru & Petru 1978: T. XXXVI: 19; Nemeth–Ehrlich & Kušan 2007: 39; Vikić–Belančić 1967: 32, sl. 132, 133; Vidošević 2003: 24, T. 21: 4–7, Brukner 1981: T. 55: 22, 26

Cat. no. 72 (T.3: 72)

D: fragment, Cc: 7.5yR 8/4 pink, hard

S: barbotine decoration, spiral coil motif, glossy coating imitating terra sigillata, inner wall coating has tiny sand grains, Co: 2.5yR 6/8 light red – 5/8 red, Ci: 10R 5/8 red – 4/3 weak red

wt: 2 mm

Analogies: same as cat. unit no. 71

Cat. no. 73 (T.3: 73)

D: fragment, Cc: 5yR 7/4 pink, hard

S: barbotine decoration, spiral coil motif separated by a incision from the lower section decorated in roller-made notches, matte coating on the walls, inner wall covered in tiny sand grains, Co: 5yR 6/6 reddish yellow – 4/2 dark reddish gray, Ci: 2.5yR 5/8 red

wt: 1.5 mm

P: barbotin ukras, motiv spiralne vitice odijeljen urezom od donjeg dijela ukrašenog zarezima izvedenim kotačićem, mat premaz na stijenama, unutarnja stijenka prekrivena sitnim zrnima pijeska, Bv: 5yR 6/6 reddish yellow – 4/2 dark reddish gray, Bu: 2.5yR 5/8 red

ds: 1.5 mm

Kat. br. 74 (T.3: 74)

O: ulomak trbuha bikonične zdjelice, Bp: 10yR 8/4 very pale brown, tvrda

P: barbotin ukras, motiv spiralne vitice urezom odvojene trake ispunjene redovima sitnih zareza izvedenih kotačićem, mat premaz na stijenama, unutarnja stijenka prekrivena sitnim zrnima pijeska, Bv: 5yR 6/6 reddish yellow – 4/2 dark reddish gray, Bu: 5yR 4/4 reddish brown

ds: 2 mm

Kat. br. 75 (T.3: 75)

O: ulomak trbuha i dna čaše, Bp: 7yR7/2 pinkish gray, vrlo tvrda pečena na visokoj temperaturi ili gorena pri čemu su dijelovi promijenili boju zvonka, pročišćena glina

P: barbotin ukras, motiv spiralne vitice u gornjem dijelu i dvije trake odvojene urezom i ispunjene zarezima izvedenim kotačićem, premaz bakrenastog sjaja na stijenama izrazit na unutarnjoj stijenci, Bv: 7.5yR 4 dark gray – 10R 5/3 weak red, Bu: 7.5yR 4 dark gray

Dd: 3.8 cm, ds: 2.5 – 3 mm

Kat. br. 76 (T.3: 76) + T. 3: 85

O: ulomak trbuha i rub zdjelice, Bp: 7.5yR 8/3 pink, mekana

P: barbotin ukras, motiv izduženih, na vrhu savijenih kratkih narebrenih traka, odvojenih tankim rebrom i zrcalno postavljenih u odnosu na njega, mat premaz na vanjskoj stijenci, a na unutarnjoj stijenci sjajni premaz s manjom količinom sitnih zrnaca pijeska, Bv: 5yR 6/6 reddish yellow, Bu: 2.5yR 6/8 light red

ds: 2 mm

Kat. br. 77 (T.4: 77)

O: ulomak ruba zdjelice, Bp: 10yR 7/4 very pale brown, tvrda

P: barbotin ukras, motiv zvonastog cvijeta, mat premaz, Bv: 7.5yR 7/6 reddish yellow – 3/1 very dark gray, Bu: 7.5yR 3/1 very dark gray

ds: 2 mm

Kat. br. 78 (T.4: 78) + T.3: 58

Cat. no. 74 (T.3: 74)

D: belly fragment of a biconical bowl, Cc: 10yR 8/4 very pale brown, hard

S: barbotine decoration, spiral coil motif, stripes separated by incisions filled with rows of tiny roller-made notches, matte coating on the walls, inner wall covered in tiny sand grains, Co: 5yR 6/6 reddish yellow – 4/2 dark reddish gray, Ci: 5yR 4/4 reddish brown

wt: 2 mm

Cat. no. 75 (T.3: 75)

O: ulomak trbuha i dna čaše, Bp: 7yR7/2 pinkish gray, vrlo tvrda pečena na visokoj temperaturi ili gorena pri čemu su dijelovi promijenili boju zvonka, pročišćena glina

P: barbotin ukras, motiv spiralne vitice u gornjem dijelu i dvije trake odvojene urezom i ispunjene zarezima izvedenim kotačićem, premaz bakrenastog sjaja na stijenama izrazit na unutarnjoj stijenci, Bv: 7.5yR 4 dark gray – 10R 5/3 weak red, Bu: 7.5yR 4 dark gray

Dd: 3.8 cm, ds: 2.5 – 3 mm

Cat. no. 76 (T.3: 76) + T. 3: 85

D: rim and belly fragments of a bowl, Cc: 7.5yR 8/3 pink, soft

S: barbotine decoration, elongated short ribbed stripes bent at the top, separated by a thin rib and positioned mirroring it, matte coating on the outer wall, inner wall has a glossy coating with small sand grains, Co: 5yR 6/6 reddish yellow, Ci: 2.5yR 6/8 light red

wt: 2 mm

Cat. no. 77 (T.4: 77)

D: rim fragment of a bowl, Cc: 10yR 7/4 very pale brown, hard

S: barbotine decoration, bell-shaped flower motif, matte coating, Co: 7.5yR 7/6 reddish yellow – 3/1 very dark gray, Ci: 7.5yR 3/1 very dark gray

wt: 2 mm

Cat. no. 78 (T.4: 78) + T.3: 58

D: fragment, Cc: 10yR 8/3 very pale brown, soft

S: barbotine decoration, ribbed stripe motif (part of a column), next to it boucle with ribs - rosettes, in the lower section triangles made with sticks visible, matte coating on the walls, Co: 10yR 4/2 dark grayish brown, Ci: 10yR 4/2 dark grayish brown

wt: 1.5 -2 mm

O: ulomak, Bp: 10yR 8/3 very pale brown, mekana  
P: barbotin ukras, motiv dio narebrene trake (dio stupa) uz koju su bukli s rebrima - rozete, u donjem dijelu vidljivi sitni trokutići izvedeni štapićem, mat premaz na stijenkama, Bv: 10yR 4/2 dark grayish brown, Bu: 10yR 4/2 dark grayish brown

ds: 1.5 -2 mm

Kat. br. 79 (T.4: 79)

O: ulomak, Bp: 7.5 yR 8/4 pink, tvrda

P: barbotin ukras, motiv debla drveta i sitnih kružnih aplika, možda plodovi, mat premaz na stijenkama, unutarnja stijenka prekrivena sitnim zrcima pijeska, Bv: 5yR 7/8 reddish yellow – 5/3 reddish brown sjene, Bu: 2.5yR 6/8 light red – 5/2 weak red  
ds: 2 mm

Kat. br. 80 (T.4: 80)

O: ulomak, Bp: GLEY1 5-6 gray, tvrda

P: plastični ukras srololikih listova i peteljki, u donjem dijelu trokutići u redovima izvedeni štapićem, mat premaz na stijenkama, Bv: GLEY1 4dark gray, Bu: GLEY1 4 dark gray

ds: 1.5 mm

Analogije: Plesničar-Gec 1977: 17, T. 1: 35, 36, Schindler-Kaudelka 1975: 109–110, T. 20: 102 l, n; Gassner 1990: T. 2: 16

Kat. br. 81 (T.4: 81)

O: ulomak trbuha bikonične zdjelice, Bp: GLEY1 5 gray, tvrda, zvonka, na unutarnjoj stijenci vidljiv početak procesa vitrifikacije

P: plastični ukras tankog rebra i u donjem dijelu urezima odvojene trake ispunjene zarezima izvedenim kotačićem, Bv: GLEY1 4 dark gray, Bu: GLEY1 4 dark gray

ds: 2 mm

Kat. br. 82 (T.4: 82)

O: ulomak dna, Bp: 5yR 8/4 pink, mekana

P: sjajni premaz na stijenkama, unutarnja stijenka prekrivena sitnim zrcima pijeska, Bv: 2.5yR 5/8 red, Bu: 2.5yR 5/8 red

Dd: 4 cm, ds: 3 mm

Kat. br. 83 (T.4: 83)

O: ulomak bikonične zdjelice, Bp: GLEY1 5 gray, tvrda

P: na gornjem dijelu vidljiv dio plastičnog ukrasa, premaz sjajan, Bv: GLEY1 2.5 black, Bu: GLEY1 2.5 black

ds: 2 mm

Cat. no. 79 (T.4: 79)

D: fragment, Cc: 7.5 yR 8/4 pink, hard

S: barbotine decoration, tree trunk motif, small circular appliqué, maybe fruit, matte coating, inner wall covered in tiny sand grains, Co: 5yR 7/8 reddish yellow – 5/3 reddish brown shades, Ci: 2.5yR 6/8 light red – 5/2 weak red

wt: 2 mm

Cat. no. 80 (T.4: 80)

D: fragment, Cc: GLEY1 5-6 gray, hard

S: sculpted heart-shaped leaves and petioles, lower section has triangles in rows made by sticks, matte coating on the walls, Co: GLEY1 4dark gray, Ci: GLEY1 4 dark gray

wt: 1.5 mm

Analogies: Plesničar-Gec 1977: 17, T. 1: 35, 36, Schindler-Kaudelka 1975: 109–110, T. 20: 102 l, n; Gassner 1990: T. 2: 16

Cat. no. 81 (T.4: 81)

D: belly fragment of a biconical bowl, Cc: GLEY1 5 gray, hard, resonant, visible vitrification on the inner wall

S: sculpted thin rib and in the lower section thin stripes separated by incisions and filled with roller-made notches, Co: GLEY1 4 dark gray, Ci: GLEY1 4 dark gray

wt: 2 mm

Cat. no. 82 (T.4: 82)

D: base fragment, Cc: 5yR 8/4 pink, soft

S: glossy coating on the walls, inner wall covered in tiny sand grains, Co: 2.5yR 5/8 red, Ci: 2.5yR 5/8 red  
Dba: 4 cm, wt: 3 mm

Cat. no. 83 (T.4: 83)

D: fragment of a biconical bowl, Cc: GLEY1 5 gray, hard

S: sculpted decoration visible in the upper section, glossy coating, Co: GLEY1 2.5 black, Ci: GLEY1 2.5 black

wt: 2 mm

Cat. no. 84 (T.4: 84)

D: fragment, Cc: 7.5yR 5/1 gray, hard

S: black coating poorly preserved, Co: GLEY 1 3 very dark gray, Ci: GLEY 1 3 very dark gray

wt: 1.5 mm

Kat. br. 84 (T.4: 84)

O: ulomak, Bp: 7.5yR 5/1 gray, tvrda

P: premaz crni koji nije sačuvan, Bv: GLEY 1 3 very dark gray, Bu: GLEY 1 3 very dark gray

ds: 1.5 mm

Kat. br. 85 (T.4: 85) + T. 3: 76

O: ulomak ruba, Bp: 10yR 8/4 very pale brown, tvrda

P: plastični ukras, mat premaz na stijenama, na unutarnjoj stijenci u premazu primjese, Bv: 2.5yR 6/8 light red – 5/8 red, Bu: 2.5yR 5/8 red

Dr: 9 cm, ds: 2-2,5 mm

Kat. br. 86 (T.4: 86)

O: dno, Bp: GLEY1 6 gray, tvrda, zvonko, rađeno na kolu

P: premaz blagog sjaja, Bv: GLEY1 4/N dark gray, Bu: GLEY1 4/N dark gray

ds: 3 mm

Kat. br. 87 (T.4: 87)

O: ulomak stijenke uz dno, Bp: GLEY1 6 gray, tvrda, rađena na kolu

P: premaz blagog sjaja na glatkoj površini, Bv: GLEY1 4-3 dark gray - very dark gray, Bu: GLEY1 4-3 dark gray - very dark gray

ds: 2,5 - 3 mm

Kat. br. 88 (T.4: 88)

O: ulomak dna, Bp: 5yR 7/6 reddish yellow, tvrda

P: donji dio ukrašen zarezima izvedenim kotačićem, dno profilirano s dva rebra, mat premaz na stijenama, Bv: 10R 4/8 red, Bu: 10R 4/8 red

ds :3 mm

Kat. br. 89 (T.4: 89)

O: ulomak ruba, Bp: 7.5yR 6/1 gray, mekana

P: paralelni urezi, premaz na stijenama, Bv: 7.5yR 5/71 gray, Bu: GLEY1 4 dark gray

ds: 2 mm

Kat. br. 90 (T.4: 90)

O: ulomak dna, Bp: 10yR 7/4 very pale brown, tvrda

P: sitni zarezi izvedeni kotačićem postavljeni u traku uz samo dno, mat premaz na stijenama, na unutarnjoj stijenci sitna zrnca pijeska, Bv: 7.5yR 6/6 reddish yellow, Bu: 7.5yR 5/6 strong brown

Dd: 4 cm, ds: 2 mm

Cat. no. 85 (T.4: 85) + T. 3: 76

D: rim fragment, Cc: 10yR 8/4 very pale brown, hard

S: sculpted decoration, matte coating on the walls, inner wall has admixtures in the coating, Co: 2.5yR 6/8 light red – 5/8 red, Ci: 2.5yR 5/8 red

Dr: 9 cm, wt: 2-2,5 mm

Cat. no. 86 (T.4: 86)

D: base, Cc: GLEY1 6 gray, hard, resonant, made on the potter's wheel

S: slightly glossy coating, Co: GLEY1 4/N dark gray, Ci: GLEY1 4/N dark gray

wt: 3 mm

Cat. no. 87 (T.4: 87)

D: wall fragment near the base, Cc: GLEY1 6 gray, hard, made on the potter's wheel

S: slightly glossy coating on a smooth surface, Co: GLEY1 4-3 dark gray - very dark gray, Ci: GLEY1 4-3 dark gray - very dark gray

wt: 2,5 - 3 mm

Cat. no. 88 (T.4: 88)

D: base fragment, Cc: 5yR 7/6 reddish yellow, hard

S: lower section decorated in roller-made notches, molded base with two ribs, matte coating on the walls, Co: 10R 4/8 red, Ci: 10R 4/8 red

wt :3 mm

Cat. no. 89 (T.4: 89)

D: rim fragment, Cc: 7.5yR 6/1 gray, soft

S: parallel incisions, coating on the walls, Co: 7.5yR 5/71 gray, Ci: GLEY1 4 dark gray

wt: 2 mm

Cat. no. 90 (T.4: 90)

D: base fragment, Cc: 10yR 7/4 very pale brown, hard

S: small roller-made notches placed next the stripe along the base, matte coating on the walls, inner wall has tiny sand grains, Co: 7.5yR 6/6 reddish yellow, Ci: 7.5yR 5/6 strong brown

Dba: 4 cm, wt: 2 mm

Cat. no. 91 (T.4: 91)

D: belly and base fragment, Cc: 5yR 7/6 reddish yellow, hard

S: roller-made notches in the stripe along the base, glossy nuanced coating on the walls, inner wall has



Kat. br. 91 (T.4: 91)

O: ulomak trbuha i dna, Bp: 5yR 7/6 reddish yellow, tvrda

P: zarezi izvedeni kotačićem u traci uz dno, sjajno nijansiran premaz na stijenkama, na unutarnjoj stijenci u premazu sitna zrnca pijeska, Bv: 5yR 6/6 yellowish red – 3/1 very dark gray, Bu: 5yR 3/1 very dark gray

Dd: 3,6 cm, ds: 2 mm

Kat. br. 92 (T.4: 92)

O: ulomak dna, Bp: 7.5yR 7/6 reddish yellow, tvrda, pročišćena

P: zarezi izvedeni kotačićem u traci uz profilirano dno, mat premaz na stijenkama, nije zaglađena površina, Bv: 10yR 5/6 red, Bu: 10yR 5/6 red

Dd: 4 cm, ds: 1.6 mm

Kat. br. 93 (T.4: 93)

O: ulomak trbuha bikonične zdjelice, Bp: 10yR 7/4 very pale brown, tvrda

P: ukras većih zareza izveden kotačićem, premaz blagog sjaja, na unutarnjoj stijenci sitna zrnca pijeska, Bv: 10yR 6/4 light yellowish brown – 3/2 very dark grayish brown, Bu: 7.5yR 4/4 brown

ds: 3 mm

Kat. br. 94 (T.4: 94)

O: ulomak trbuha, Bp: 7.5yR 7/4 pink, tvrda

P: veći zarezi izvedeni kotačićem, premaz blagog sjaja, Bv: 10yR 4/2 dark grayish brown, Bu: 10yR 4/2 dark grayish brown

ds: 1.8 mm

Kat. br. 95 (T.5: 95)

O: ulomak profiliranog ruba, Bp: 5yR 7/4 pink, mekana

P: urez ispod stijenke ruba, mat premaz na stijenka, unutarnja stijenka prekrivena sitnim zrnima pijeska, Bv: 2.5yR 6/8 light red, Bu: 2.5yR 6/8 light red

Dr: 16 cm, ds: 3 mm

Kat. br. 96 (T.4: 96)

O: ulomak dna, Bp: 5yR 7/4 pink, tvrda

P: gusto utisnuti zarezi izvedeni kotačićem, mat premaz na stijenka, Bv: 2.5yR 5/8 red, Bu: 2.5yR 5/6 red

ds: 4 mm

tiny sand grains in coating, Co: 5yR 6/6 yellowish red – 3/1 very dark gray, Ci: 5yR 3/1 very dark gray  
Dba: 3,6 cm, wt: 2 mm

Cat. no. 92 (T.4: 92)

D: base fragment, Cc: 7.5yR 7/6 reddish yellow, hard, purified

S: roller-made notches in the stripe alongside the molded base, matte coating on the walls, surface not smooth, Co: 10yR 5/6 red, Ci: 10yR 5/6 red

Dba: 4 cm, wt: 1.6 mm

Cat. no. 93 (T.4: 93)

D: belly fragment of a biconical bowl, Cc: 10yR 7/4 very pale brown, hard

S: roller-made notches or bigger size, lightly glossed coating, inner wall has tiny sand grains, Co: 10yR 6/4 light yellowish brown – 3/2 very dark grayish brown, Ci: 7.5yR 4/4 brown

wt: 3 mm

Cat. no. 94 (T.4: 94)

D: belly fragment, Cc: 7.5yR 7/4 pink, hard

S: larger roller-made notches, coating of light gloss, Co: 10yR 4/2 dark grayish brown, Ci: 10yR 4/2 dark grayish brown

wt: 1.8 mm

Cat. no. 95 (T.5: 95)

D: fragment of a molded rim, Cc: 5yR 7/4 pink, soft

S: incision beneath the rim wall, matte coating, inner wall covered in tiny sand grains, Co: 2.5yR 6/8 light red, Ci: 2.5yR 6/8 light red

Dr: 16 cm, wt: 3 mm

Cat. no. 96 (T.4: 96)

D: base fragment, Cc: 5yR 7/4 pink, hard

S: densely impressed roller-made notches, matte coating on the walls, Co: 2.5yR 5/8 red, Ci: 2.5yR 5/6 red

wt: 4 mm

Cat. no. 97 (T.5: 97)

D: bowl of molded, vertical rim, Cc: 5yR 7/6 reddish yellow, soft, purified

S: incisions and stripes filled with roller-made notches, inner wall has visible traces of sandy coating, now lost, matte coating, Co: 2.5yR 6/8 light red, Ci: 2.5yR 5/6 red

Kat. br. 97 (T.5: 97)

O: zdjelica okomitog, profiliranog ruba, Bp: 5yR 7/6 reddish yellow, mekana, pročišćena

P: urezi i trake ispunjene zarezima izvedenim kotačićem, na unutarnjoj stijenci vidljiv premaz s pijeskom koji je ispao, mat premaz, Bv: 2.5yR 6/8 light red, Bu: 2.5yR 5/6 red

Dr: 12 cm, ds: 2,5-3 mm

Analogije: Brukner 1981: T. 57: 52, Plesničar-Gec 1977: 19, Ožanić-Roguljić 2007: 176

Kat. br. 98 (T.5: 98)

O: zdjelica polukružna, ulomak profiliranog ruba i trbuha polukružne niže i šire zdjelice, Bp: 10yR 8/3 very pale brown, tvrda

P: ukras trokutići izvedeni kotačićem ili štapićem, zaglađena površina, mat premaz na stijenkama, Bv: 2.5yR 5/8 red – 4/4 reddish brown, pročišćena, Bu: 2.5yR 5/8 red – 4/4 reddish brown

Dr: 16.2 cm, ds: 3 mm

Analogije: Vidošević 2003: 25, Rendić-Miočević 1995: 122, Plesničar-Gec 1977: 19, T. 1: 61; Plesničar-Gec 1972: T. L: 3, Brukner 1981: T. 57: 56, 58, 60

Kat. br. 99 (T.5: 99)

O: ulomak profiliranog ruba i trbuha bikonične zdjelice, okomiti, užlijebljeni rub Bp: 10yR 8/4 very pale brown, tvrda, pročišćena

P: ukras trokutića izvedenih kotačićem, mat premaz na stijenkama, na unutarnjim stijenkama sitna zrnca pijeska, Bv: 7.5yR 7/6 reddish yellow – 4/3 brown, Bu: 7.5yR 4/3 brown

Dr: 16 cm, ds: 3 mm

Analogije: isto kao kod kat. jed. br. 98

Kat. br. 100 (T.5: 100)

O: ulomak zdjelice, Bp: 7.5yR 8/4 pink, tvrda

P: zarezi izvedeni kotačićem, sjajni premaz na stijenkama, Bv: 5yR 6/8 reddish yellow, Bu: 5yR 6/8 reddish yellow

ds: 3 - 5 mm

Analogije: isto kao kod kat. jed. br. 98

Dr: 12 cm, wt: 2,5-3 mm

Analogies: Brukner 1981: T. 57: 52, Plesničar-Gec 1977: 19, Ožanić-Roguljić 2007: 176

Cat. no. 98 (T.5: 98)

D: semicircular bowl, fragment of a molded rim and belly of a semicircular low and wider bowl, Cc: 10yR 8/3 very pale brown, hard

S: triangle decorations made by rollers or sticks, smooth surface, matte coating on the walls, Co: 2.5yR 5/8 red – 4/4 reddish brown, pročišćena, Ci: 2.5yR 5/8 red – 4/4 reddish brown

Dr: 16.2 cm, wt: 3 mm

Analogies: Vidošević 2003: 25, Rendić-Miočević 1995: 122, Plesničar-Gec 1977: 19, T. 1: 61; Plesničar-Gec 1972: T. L: 3, Brukner 1981: T. 57: 56, 58, 60

Cat. no. 99 (T.5: 99)

D: fragment of a molded rim and belly of a biconical bowl, perpendicular grooved rim, Cc: 10yR 8/4 very pale brown, hard, purified

S: roller-made triangles, matte coating on the walls, inner wall has small sand grains, Co: 7.5yR 7/6 reddish yellow – 4/3 brown, Ci: 7.5yR 4/3 brown

Dr: 16 cm, wt: 3 mm

Analogies: same as cat. unit no. 98

Cat. no. 100 (T.5: 100)

D: bowl fragment, Cc: 7.5yR 8/4 pink, hard

S: roller-made notches, glossy coating on the walls, Co: 5yR 6/8 reddish yellow, Ci: 5yR 6/8 reddish yellow

wt: 3 - 5 mm

Analogies: same as cat. unit no. 98

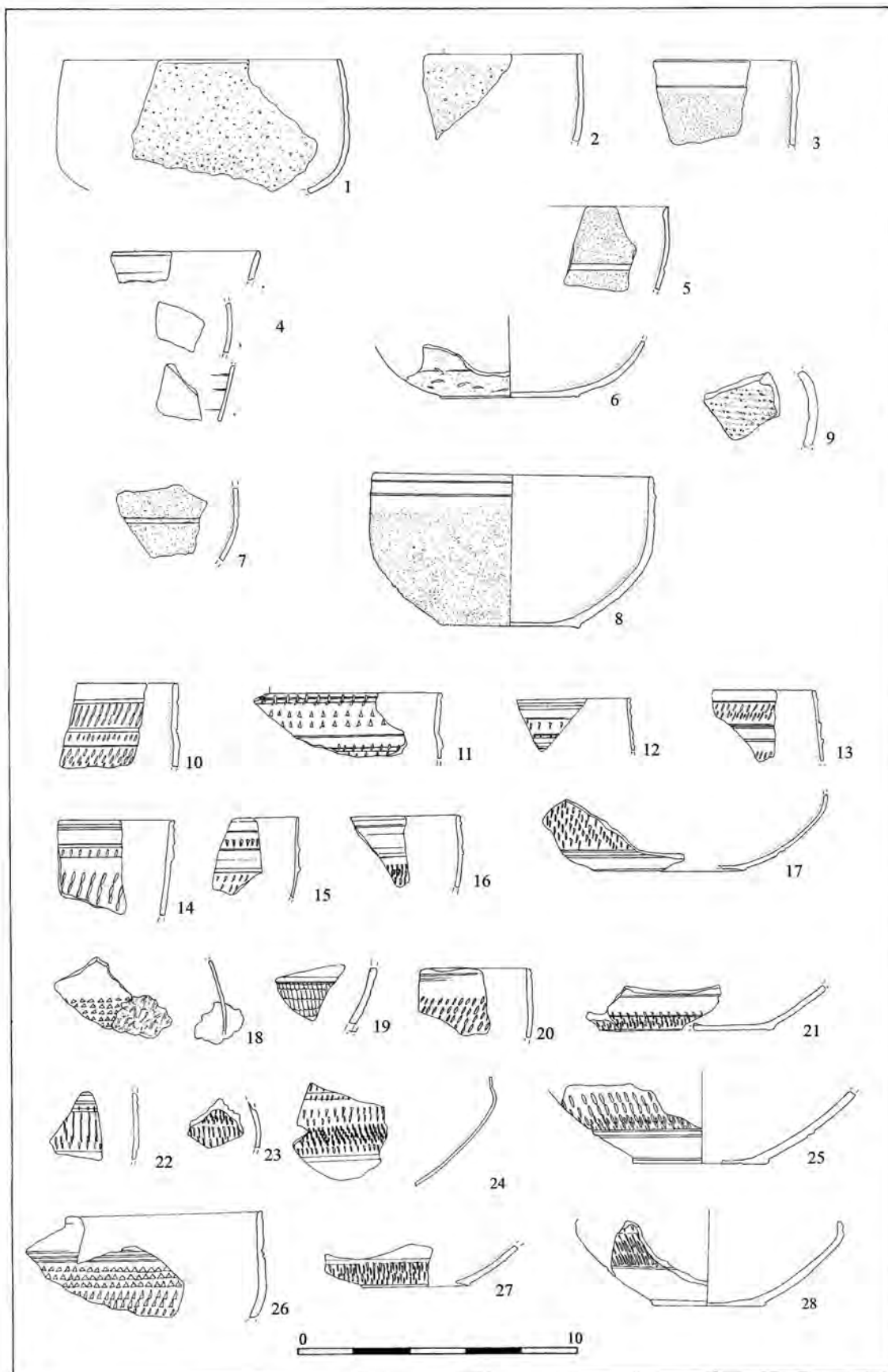


Tabla 1.  
Table 1.

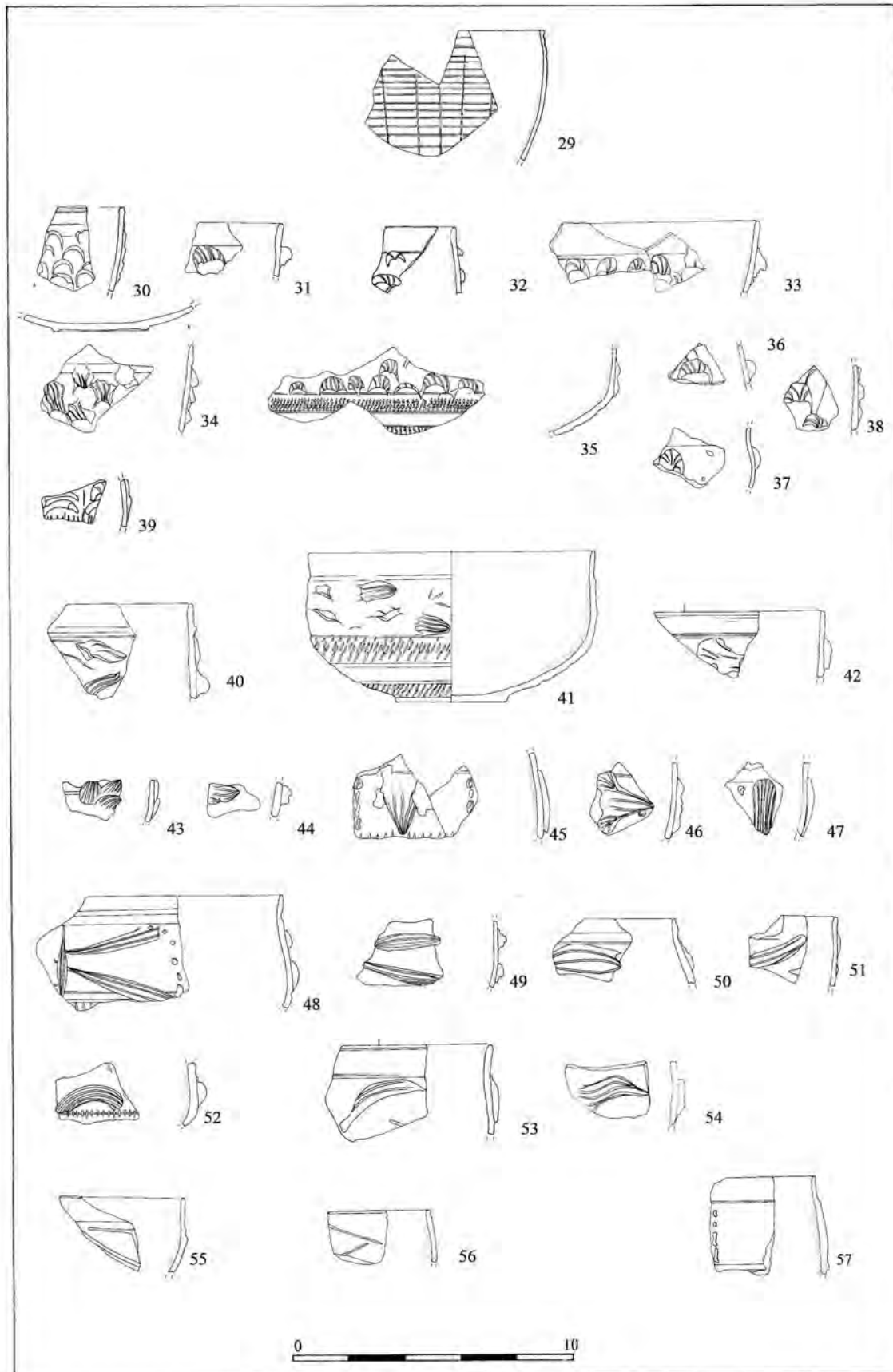


Tabla 2.  
Table 2.

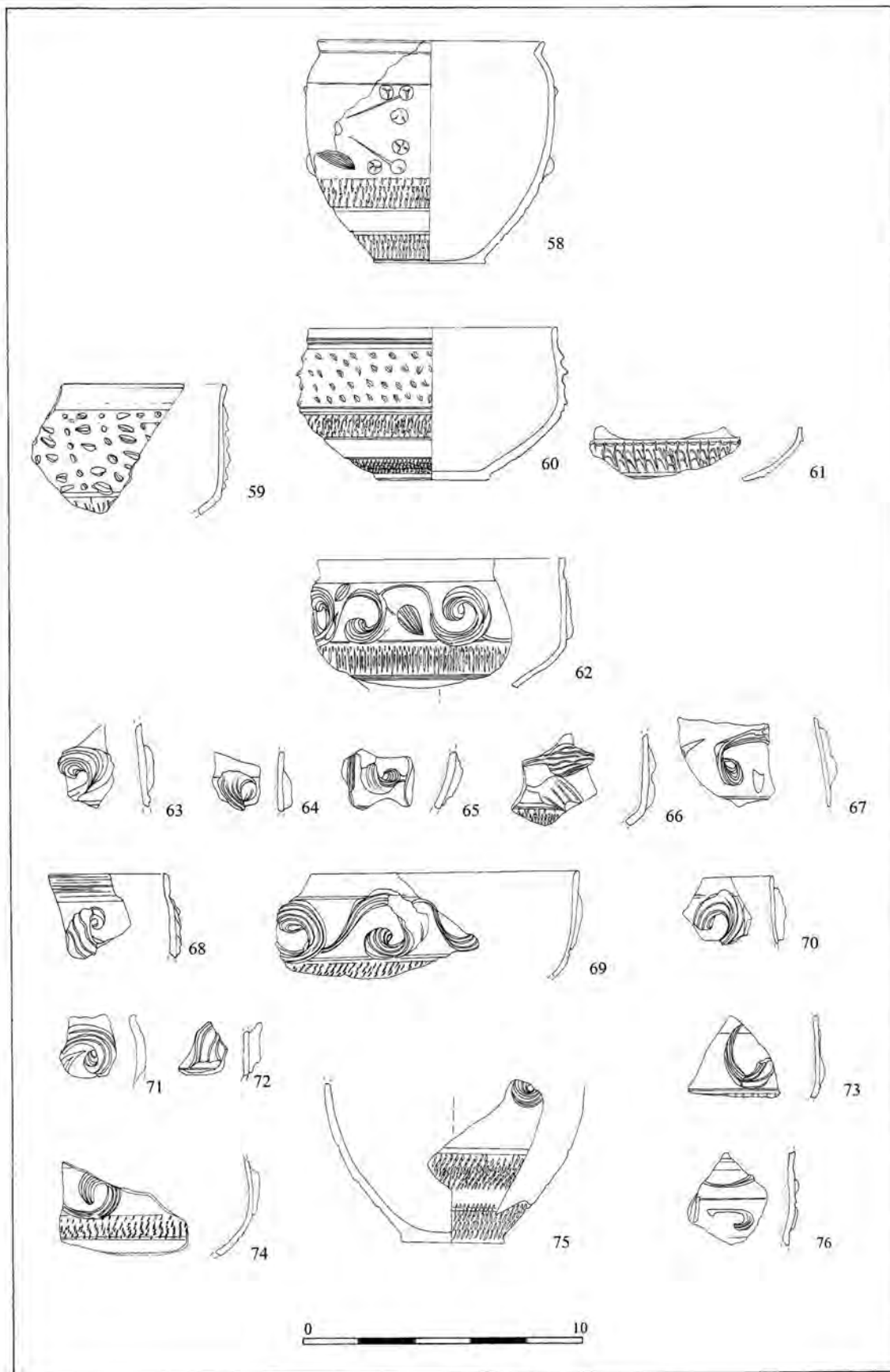


Tabla 3.  
Table 3.

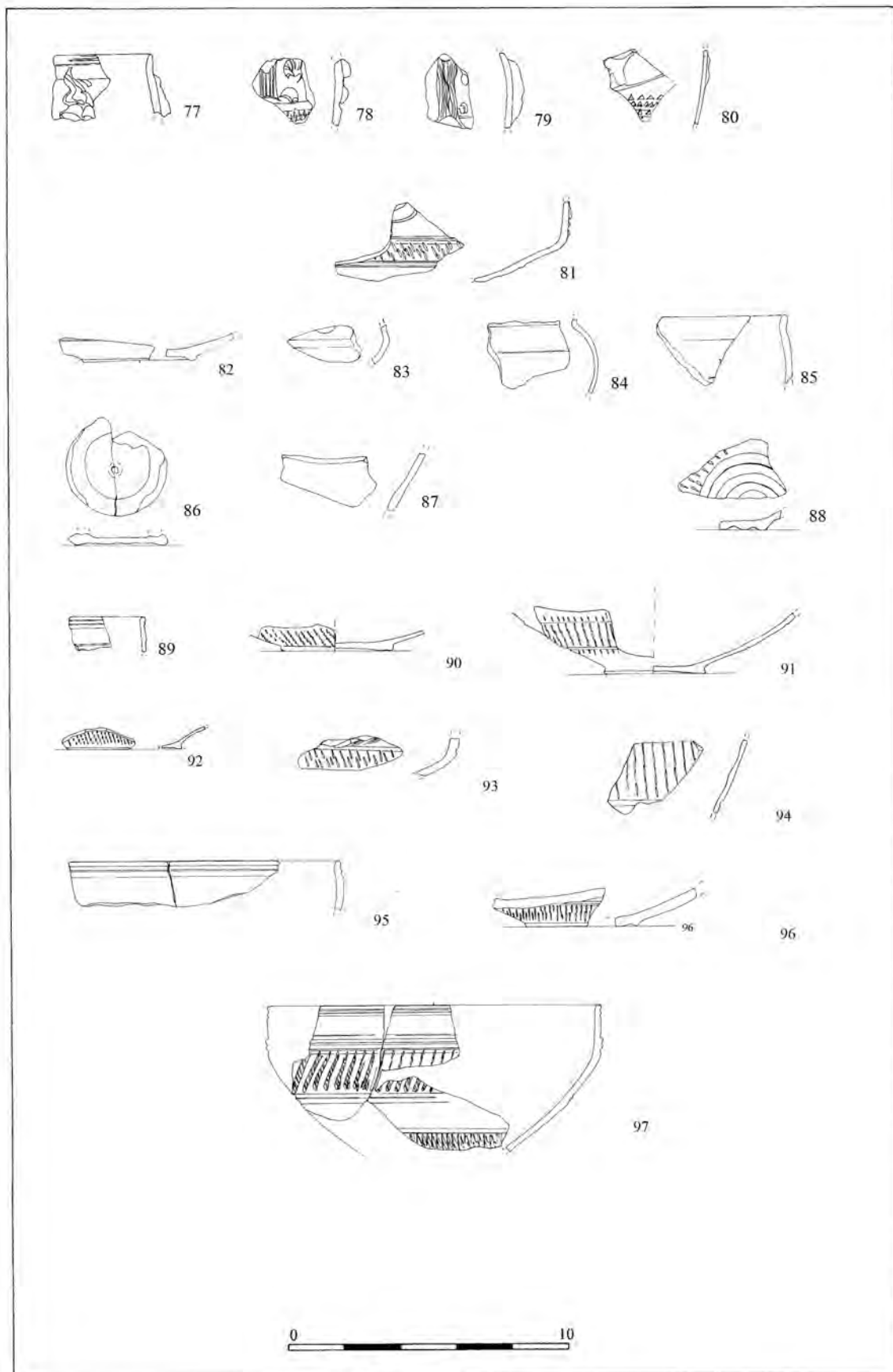


Tabla 4.  
Table 4.

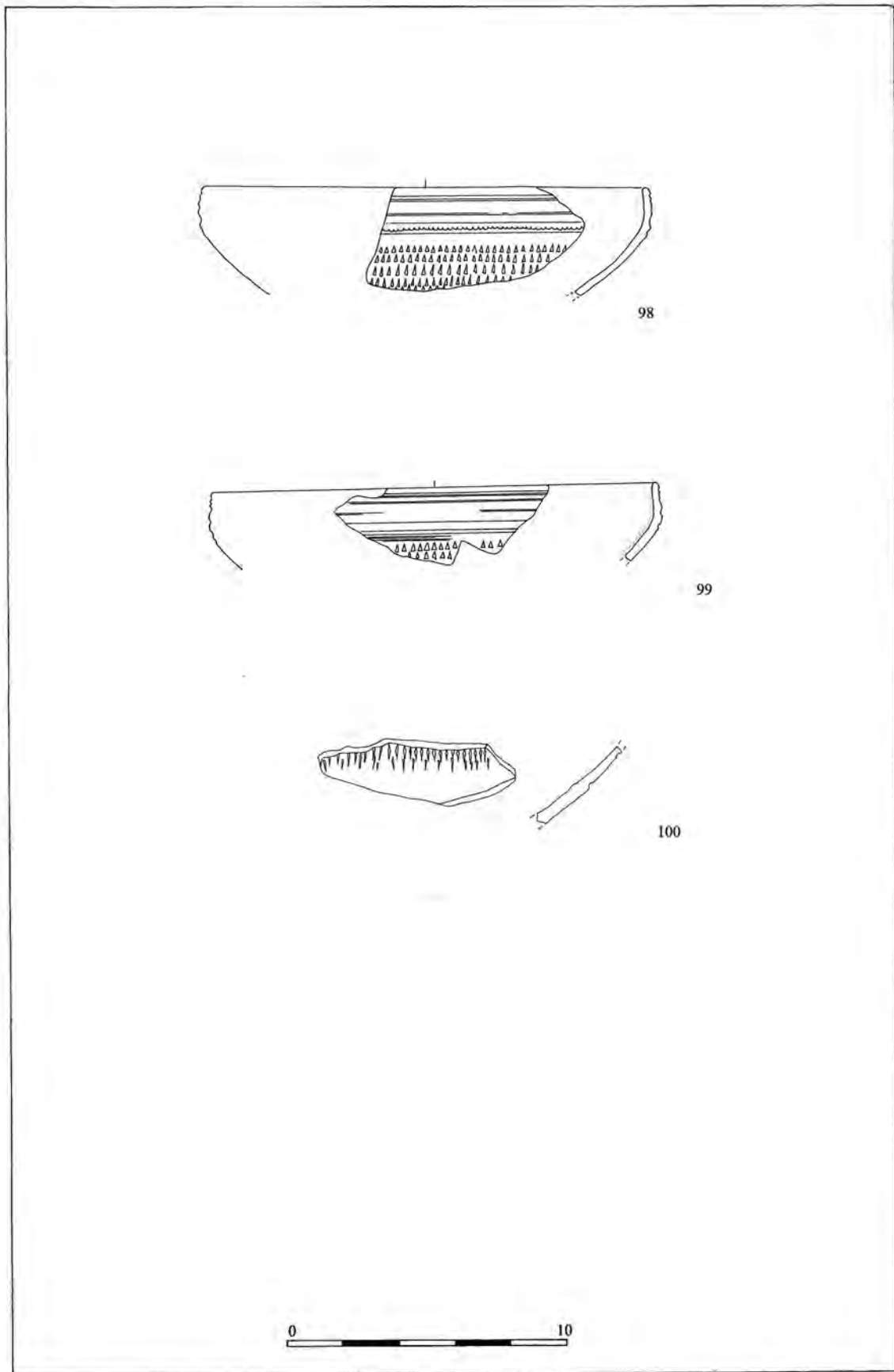


Tabla 5.

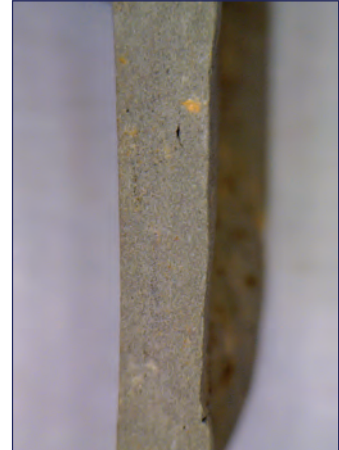
Table 5.



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Tabla 6.  
Table 6.





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Tabla 7.  
Table 7.

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