

Iasos and Iasian Marble between the Late Antique and Early Byzantine Eras

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IASOS AND IASIAN MARBLE BETWEEN THE LATE ANTIQUE AND EARLY BYZANTINE ERAS

Diego Peirano

Association Iasos of Caria, Ferrara, Italy (diego.peirano@polito.it)

Abstract

Iasian marble seemed to reach the highest point of its reputation in the 6th century when it appeared in three of the most important edifices built by Justinian: in the Constantinopolitan churches of Hagia Sofia and of the Holy Apostles and in the church of San Vitale in Ravenna. At the time, evidence of this material also became more frequent in Iasos. Firstly, the raw blocks found at Balık Pazarı¹, some ready to be sawn into slabs, then the columns and colonnettes discovered in the neighbouring quarries and in two of the Iasian churches. Here the marble also appears as mosaic tesserae in the acropolis basilica and as tiles in the agora basilica. Similarly, furniture such as tables made with *marmor iassense*, both rectangular and sigma-shaped, were found in secondary places everywhere throughout Iasos. A study of these elements, concerning their shapes, processing techniques and functions, is in progress. The preliminary results will be presented.

Keywords

use of marble, Iasos, furniture

Iasian marble was already known and was used for small objects from the Middle-Late Bronze Age² and for architectural elements between the Classical-Hellenistic³ and the Roman ages. At this time the systematic exploitation of the quarries as a planned intervention and investment by the polis seemed to have begun. In any case, examples of this marble only became more frequent in late

antiquity in Iasos⁴ and in the regions outside the Caria, while in the latter area there is little evidence of marble⁵.

In Iasos many tables found in secondary places pertain to this time; they assume different shapes, mainly circular, but sigmoid or rectangular ones have also been found. Between the last two types the *trait d'union* is the highly pointed edging that encloses the central surface. These kinds of tables were classified by Roux⁶ in the form of *clôturées*. They were extensively employed from late antiquity, in both domestic and ecclesiastical contexts⁷. In home furniture, circular and sigma shaped tables were used at the centre of half-moon dining couches named *stibadia*⁸ while rectangular was the usual shape of a central table for the *triclinia*⁹. In ecclesiastical settings, while circular and sigma shaped tables were used to collect offerings, more generally as secondary furniture, the rectangular form was preferred for altars¹⁰. However, the erratic discoveries of the Iasian series hinder any precise assumptions about their origin. The only indicative character of the potential uses is the smooth or rough under side. The former was designed to remain visible on metallic or wooden bases and was thus removable, the second requiring a masonry base. While the smooth underside is common to both types of tables,

1 About the monument: PARAPETTI 2013, 161–172.

2 At the time the inhabitants obtained from this stone small artefacts such as spindles and vessels. See: BERTI, PEIRANO 2014, 25 note 2 and related bibliography.

3 Different constructions such as watchtowers and terracing are located near the marble outcrops; here are also evident architectural elements including a small Doric capital: BERTI, PEIRANO 2014, 25 note 3.

4 Around the Common Era evidence of the material also became more frequent in Iasos: within the *bouleuterion* and south *stoa* of agora, always in portals or within *opus sectile* flooring. BERTI 1999, 336; PARAPETTI 1985, 105–136.

5 Few remains are conserved in Labraunda, Cnidos, Sinuri (sanctuary of high antiquity also next to outcrops where, as in the *chora* of Iasos, marble was used for construction and as a support for inscriptions), Xanthos, Ephesus. For Labraunda see BLID 2012, 58, fig. 45; for Cnidos YALCIN 1996, 122, fig. 20; for Sinuri ROBERT 1945, 14, tav. VIII; for Xanthos FROIDEVAUX, RAYNAUD 2005, 145; for Ephesus DEICHMANN 1976, 216, MANGARTZ *et al.* 2010, tav. 19.1; BRUNO 2012, 706.

6 ROUX 1973, 136.

7 TOCCI 2012, 115–116.

8 These appear at the end of the 3rd century. ELLIS 2000, 67.

9 DUNBABIN 1991, 123.

10 CHALKIA 1991, 54, note 117.

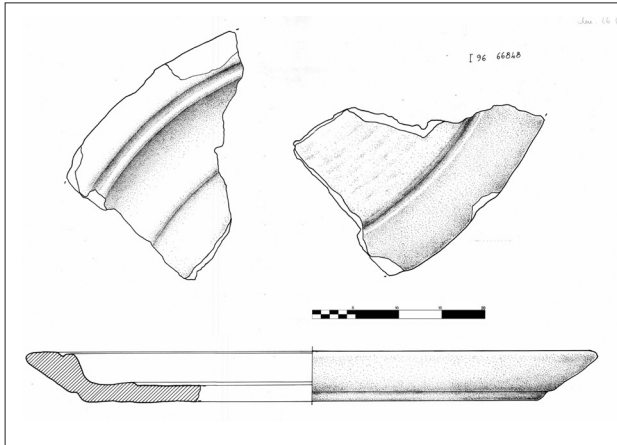


Fig. 1. Fragment of a circular table
(drawing: L. Ruffoni)

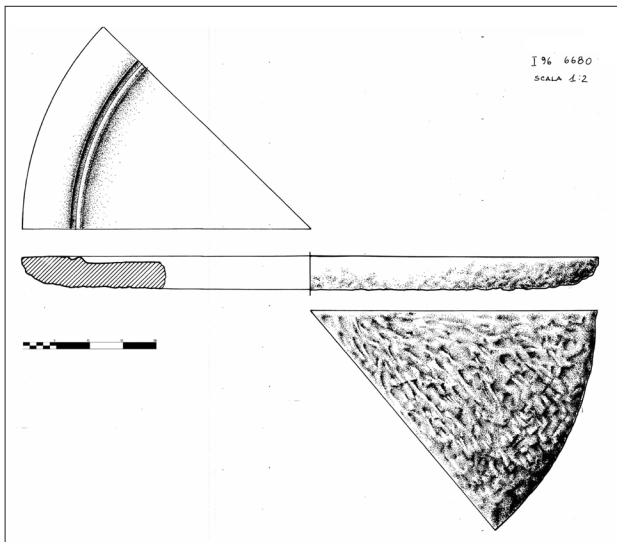


Fig. 2. Fragment of a circular table
(drawing: L. Ruffoni)

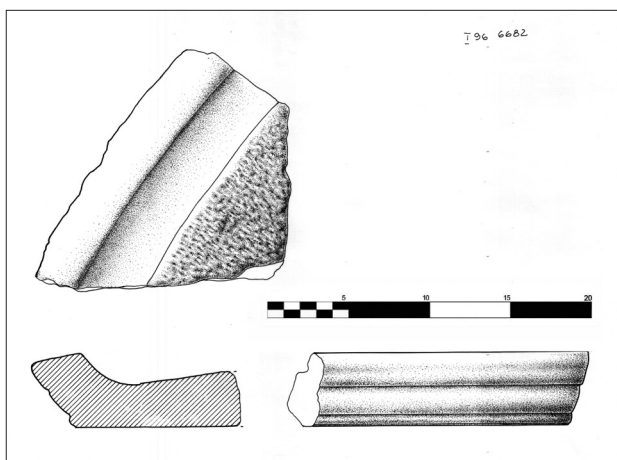


Fig. 3. Fragment of a circular table
(drawing: L. Ruffoni)

domestic or Christian, the masonry bases were habitual in *stibadia* but extremely rare in religious buildings¹¹.

It should also be noted how the high border is rare in sigma shaped tables¹² which, as stated, were mainly used for domestic purposes; due to this, the presence of the channel, originally sloped to rid the table centre of food residue, was rendered useless.

Let us now examine the most significant examples of these tables¹³, describing their processing and seeking to make a number of assumptions about their original settings.

Circular tables

As attested by the Pompeii findings, in addition to a number of fresco representations from the same city¹⁴, in secular buildings circular precede sigmoid tables. In late antiquity these continued to be used in *stibadia* as an alternative to sigma-shaped tables and were largely used in Christian buildings¹⁵.

A fragment made of red breccia (inv. no. 6684b) originated from a circular table with a deducible diameter of 66 cm. Its central area is smooth, both above and below, and is enclosed by means of a simple molded profile consisting of a fascia, a groove and a *cyma reversa*. Smoothing on both sides suggests that it may have rested on a base, perhaps wooden, allowing visibility while the reduced diameter hints that it may have been movable.

Instead, the fragment of table inv. no. 6680 has sides with only the base that is roughened, perhaps because they were intended for a masonry base; on top, a wide fascia was separated by a *scotia* from an astragal that leads to the central area, without the interposition of a frame (deducible diameter of 83 cm).

Fragment inv. no. 6682 (deducible diameter of 88 cm) has a similar profile with a smooth base and edges moulded by two fillets that frame a smoothed ovolo section. A feature of this piece is the channel following the borders and enclosing the central area, worked by a toothed chisel and with increasing thickness toward the centre. It seems unlikely that this is an unfinished conventional table; before sanding of the edges the artisan would have had to have lowered the central area; as such, the idea of a table intended for particular uses must be considered.

11 See the examples of Kos, Alikí and Kourion. On these, respectively: ORLANDOS 1966, 32–34, figs. 32–34; SODINI KOLOKOTSAS 1984, 462 and 466, fig. 15; LOVERANCE 2007, 322.

12 CHALKIA 1991, 45.

13 For the full records see: BERTI, PEIRANO 2014, 31–34.

14 VROOM 2007, 320.

15 CHALKIA 1991, 46 ff., 73 ff.

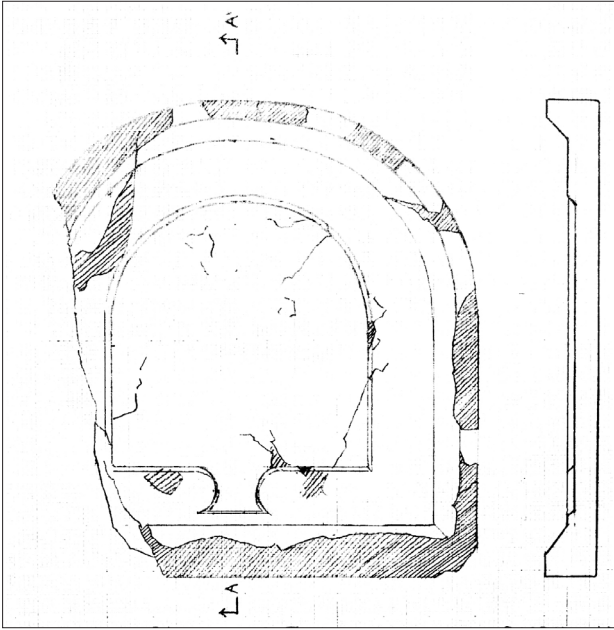


Fig. 4. A sigma shaped *clôturée* table
(drawing: D. Peirano)



Fig. 5. Fragmentary rectangular *clôturée* table
(photo: D. Baldoni)



Fig. 6. Fragment of a red breccia table
(photo: M. Molinari)

Sigma shaped table

Sigma shaped tables appear in the banquet halls at the end of the fourth century¹⁶ and within Christian buildings from the following century¹⁷.

A sigma shaped *clôturée* table (inv. no. 2050) was found in front of an apsed room containing mosaics, within the so-called east basilica complex¹⁸. As usual the table has square proportions, 1.03 x 1.02 meters. It is 11 cm high at the border, 6 cm at the internal cornice and 5 cm at the centre. The table was made of veined marble and shows the typical central surface enclosed by a large cornice interrupted by a channel with rounded edges. The rough underside and edges, created using a point chisel, show how this table should rest on a masonry base; however, the absence of *stibadia* in the parts of this building that have been explored means that the true origin of the table remains unclear¹⁹.

Rectangular tables

The fragmentary *clôturée* table inv. no. 6663, made of brecciated marble, is 89 cm wide, 10.8 cm high at the edge, 4 cm at the inner frame and 2.8 cm in the central part; the length, however, cannot be determined. The rectangular shape associated with the *clôturée* border and the apparent absence of the channel on the short side, usual in this kind of table, are characteristic of this piece²⁰. The smooth base indicates that this was visible.

Another fragment of red breccia table, *clôturée* and belonging to a corner of a table, was found in the recent excavations of the castle of the Acropolis²¹: it is likely that the table was part of the furnishings of the nearby

16 DUNBABIN 2003, 191.

17 The first to suppose a derivation of the Christian sigma shaped tables from those of banquet halls was LASSUS 1940, 348–349; LASSUS 1947, 199–201, following the discovery of two of these pieces of furniture in private buildings of Antioch.

18 *Contra* SERIN 2004, 137 that relates this table to the acropolis basilica.

19 This unless one would interpret the masonry wall that closes the apse devoid of a floor mosaic as the front part of one *stibadium*. However, this hypothesis collides with the thickness of the apse's wall (74 cm) which seems to suggest a high wall, incompatible with the access to the rear structure, already limited by the reduced chord of the apse. On *stibadia* see MORVILLEZ 1996; DUNBABIN 1991; DUVAL 1997.

20 CHALKIA 1991, 42.

21 PEIRANO 2012, 28. On this excavation: BERTI, MENGOLI, MOLINARI 2011, 386–396.



Fig. 7. San Vitale in Ravenna, wall cladding made of Iasian cipollino (photo: D. Peirano)

Christian basilica where, in fact, a rectangular altar base (133 x 88 cm) was found²².

Among the production of Iasian tables, all forms and profiles known exist with the exception of polylobed ones. Common traits are linear forms, devoid of figurative representations, symbols or inscriptions. These choices were made by workshops that only attended to local needs. In fact, with the exception of a round table stored at the Museum of Milas²³, there are no current findings of this type evident outside the city. It seems, then, that the frequent occurrence of high borders can be attributed to local custom.

Iasian marble was also used for pavement *sectilia* as in the east church or cathedral of Xanthos (late 5th century – beginning 6th century), in church D of Knidos (late 5th century – beginning 6th century)²⁴ or in the basilica of Mitropolis in Gortyna, where it appears in the floor of the lane crossing the solea from north to south (second half of the 6th century)²⁵.

The stone seemed to reach the highest point of its reputation in the 6th century when it appeared alternating with other precious polychrome marble in some of

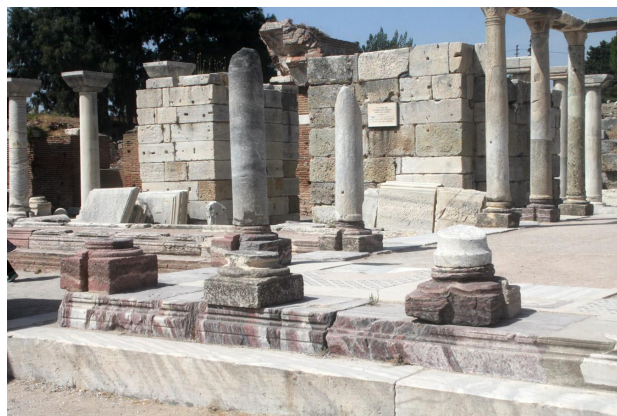


Fig. 8. Basilica of St. John in Ephesus, the column bases that enclosed the presbyterium (photo: M. Molinari)

the most important edifices of the time. Firstly in Bosra, in the wall revetments of the Church of SS. Sergius, Bacchus and Leontius, dated to the years 512–513²⁶. The octagonal church in Gadara, Jordan, from the early 6th century, also conserves traces of Iasian marble²⁷ but in an unknown position.

The first occurrence in Constantinople is related to the church of Saint Polyeuktos, built under the patronage of Anicia Giuliana in the years 524–527; here the marble appeared in slab lining and *sectilia*²⁸.

At the time the marble seemed to become one of the most appreciated revetments in the buildings built by Justinian and his entourage: the Constantinopolitan churches of Hagia Sofia (562²⁹) and of the Holy Apostles (after 565³⁰) and in the San Vitale church in Ravenna (548³¹). From the description of St. Sofia written by Paul the Silentiary, we know that the atrium *phiale* was made of red cipollino, similar to the wall claddings³², where the stone took the form of open book slabs. In Holy Apostles and in San Vitale also, the same marble appeared on wall claddings³³. Another church in Ravenna, the Sant'Andrea Maggiore (546–556), had columns made from Iasian marble³⁴. Two of these are now conserved in

22 SERIN 2004, 136.

23 BERTI, PEIRANO 2014, 52.

24 YALCIN 1996, 110.

25 FARIOLI CAMPANATI, BORBOUDAKIS 2005, 167.

26 MASTURZO 1995, 378.

27 AL-BASHAIREH 2011, 317 and 320.

28 HARRISON 1993, 42.

29 RUSSO 2011.

30 THEOPHANES, Chronographia, A.M. 6058/A.D. 565.

31 RUSSO 1996, 710.

32 SILENZIARIUS, Description S. Sophiae, 595, 630.

33 SODINI 2002, 131.

34 The insertion of these columns, whose original position is unknown, may be related to the works promoted by



Fig. 9. Above the monumental tomb where marble slabs were sawn; below the nearby aqueduct (photo: M. Molinari)

the local cathedral. Choricus of Gaza tells us that Iasian marble was also present in the church of St. Sergius in Gaza (before 536³⁵) although in an unknown location³⁶. In the basilica of St. John in Ephesus (c. 560) the column bases that enclosed the presbyterium and certain portal elements³⁷ are made of red cipollino.

The description of Hagia Sophia written by Paul the Silentiary cites Iasian marble together with others produced by well-known imperial quarries; it thus seems probable that at this time the extraction of our marble was also an imperial privilege.

At the same time the stone also became part of local churches, initially as mosaic *tesserae* in the acropolis

the bishop Maximianus. The prelate, according to Agnellus of Ravenna, replaced the original wooden supports of the aisles with others made from Proconnesian marble. *Liber pontificalis ecclesiae ravennatis*, ed. Holder Hegger 329; DEICHMANN 1972, 61–64.

35 MANGO 1986, 60 note 25.

36 CORICIUS, *Laudatio Marciani*, I, 17 ss.

37 SODINI, BARSANTI, GUIGLIA GUIDOBALDI 1998, 315; SODINI 2002, 133.



Fig. 10. A block conserving traces of cutting (photo: Levi's excavations, Archive SAIA)

basilica (late fifth-early sixth century³⁸); these reappear in the agora basilica (Justinianic age³⁹) where Iasian marble was also found in square, rectangular and triangular tiles of the *sectilia*. In the basilicas small columns of unknown origin were also found⁴⁰.

This limited use in local construction, together with the presence of imported marble, also fine, suggests that the value assigned to this marble made it more profitable to export, with a tendency to purchase other types of marble rather than using this particular one.

As is known⁴¹, slabs of cipollino marble⁴² were cut into the quadriporticus of a 2nd century tomb located near the east port and the aqueduct which supplied water power⁴³. That particular transformation of the tomb resembles one represented on a sarcophagus in Hierapolis⁴⁴ and those discovered in Ephesus and Gerasa⁴⁵. These examples date from the late 3rd to the 6th–7th century. These data, together with the systematic evidence of slabs in buildings of the 6th century, suggest the Late Antique – Early Byzantine eras for the insertion of the workshop. The excavations of two galleries of the quadriporticus unearthed, on an emery thick layer, 114 discarded blocks

38 SERIN 2004, 188.

39 PEIRANO 2011, 15 note 1.

40 SERIN 2004, 82.

41 BRUNO 2012, 706–714.

42 In fact, no traces of breccia were found in the workshop. BRUNO 2012, 708.

43 The quadriporticus pavements were located at least 4 m. below the water level. BRUNO 2012, 711 note 21. Compare these data with KESSENER 2010, 286–287.

44 RITTI, GREWE, KESSENER 2007, 138–163.

45 See respectively: MANGARTZ 2010; SEIGNE 2006, 371–378.

with traces of multiple saw blades. Excavations also extracted a flat chisel, one of which was used to regularise the corners⁴⁶. Instead, columns roughened with point chisels left at quarries testify to the processing of these pieces in these areas.

Extraction could take place in the quarry closest to the city but located in a gorge (which increased the cost and time due to transportation by animals) or in the wider quarry front on Karaoğlu Deresi. In the latter case, the stone-boating road identified during the surveys in Chora⁴⁷ allowed the material to be taken down as far as the "small sea", until boarding and transportation; from the port of the peninsula it would then be shipped, worked or not.

If the extraction of marble was related to initial transportation by sea⁴⁸, the sea was the main route for shipping of *marmor iassense*, which, as mentioned, is rarely evident in Caria and in the surrounding areas. The map of the findings, drawing two roughly concentric circles (the first corresponding to the Aegean Sea, the second to the central and eastern Mediterranean) shows that they are almost exclusively found along the coasts⁴⁹.

A small port such as Iasos probably depended on the most important *emporion* of Ephesus; from here the marble, sorted and then combined with others from different areas, ultimately reached the final destination.

The many wrecks with worked and semi-worked marble shed light on the means of transportation (the "lapidary vessels"). Particularly strong evidence in this regard is provided by the wrecks of La Mirande, Torre Sgarlata, of Porto Nuovo and of Punta Scifo D⁵⁰.

To this primary production must be added mortars of different capacity and with a different degree of precision, some with grips decorated with geometrical patterns and/or representations such as diagonal patterns, segments, oblique crosses or other simple geometries, but also the figure of the dove. The extensive

documentation, collected along the entire Mediterranean⁵¹, helps to date these finds, made in Iasos mainly from brecciated marble, to the seventh century.

The excavations also evidence the production of basins and trays, generally small and difficult to distinguish due to the fragmentary condition, with the remains mainly from the edges. Some of these maintain, on the underside, traces of an umbo that testify as to how they should stand on a base. The pieces made of cipollino, regardless of their size, are shallow, depending on the need to use the veins during manufacturing.

Other examples originating from the Mediterranean basin suggest how this lower level of output might be related to the inactive periods of quarries⁵². Numerous constructions are evident close to the quarries where many fragments and artefacts, some related to Byzantine times, offer clues as to the local marble processing method.

Some provisional conclusions

In Iasos, before the 6th century, the production and export of architectural artefacts seems limited to columns while items such as tiles might be derived from sawing of the former. Tables were instead confined to the city and surrounding areas, as well as to certain by-products such as mosaic tiles.

At the beginning of the 6th century and even more during the Justinian era, marble quarrying became more intensive, almost reaching "industrial" levels. It should be remembered that 114 blocks with saw traces were found in the Balık Pazarı and were the waste products of a much wider manufacturing process. The sources, in addition to the excavation data, suggest the use of marble as a lavish material in construction promoted by the most eminent patrons of the time, juxtaposed with other exotic coloured marble extracted from imperial quarries. Even in the absence of any direct evidence of imperial ownership of the Iasian quarries, the contemporary appearance of a workshop capable of slab sawing, an operation that used a public resource such as the aqueduct, seems to suggest a fiscal property for the entire production chain.

The city of Iasos undoubtedly drew important economic benefit, as testified by the excavations. The circulation of coins increased for another century, evidence of which is confirmed by the ceramics and amphorae, some of Constantinopolitan origin. These data depict a wealthy city where marble would also get into everyday life in the form of basins, trays and mortars.

46 MENICHINI 2011, 335.

47 PIEROBON BENOIT 2011, 411 ff.

48 MARANO 2014, 415.

49 LAZZARINI, CANCELLIERE, PIEROBON BENOIT 2005, 322, fig. 2.

50 RUSSELL 2011, 139–155; in the sixth century onwards the marble intended to be sawn could travel in the form of blocks (requiring, once it arrived, equipment and labor to be worked), but wrecks with marble slabs are also known. Wrecks with marble slabs, from the sixth century onwards, are recorded in CASTAGNINO BERLINGHIERI, PARIBENI 2011, 64–75. On *naves lapidariae* MEDAGLIA, BELTRAME, LAZZARINI 2013, 137–165 and the related bibliography.

51 BERTI, PEIRANO 2014, 46 and related bibliography.

52 MARANO 2014, 421.

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