

# Recent Work on the Stone at the Villa Arianna and the Villa San Marco (Castellammare di Stabia) and Their Context within the Vesuvian Area

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# RECENT WORK ON THE STONE AT THE VILLA ARIANNA AND THE VILLA SAN MARCO (CASTELLAMMARE DI STABIA) AND THEIR CONTEXT WITHIN THE VESUVIAN AREA

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## Abstract

The paper presents the preliminary results of the *Marmo al Mare* Project (co-directed by the authors), an on-going campaign to undertake the first comprehensive study of the lithic decoration for the most prominent elite villas and houses within the Vesuvian area. Presented here are the initial results of three seasons of fieldwork at the Villa Arianna (and the so-called *Secondo Complesso*) and the Villa San Marco at Ancient Stabiae (modern Castellammare di Stabia, Italy). We present a comparison of the levels of marble décor at the villas, the range of stones represented at each site, their qualities and quantities, and how the villas compare to other houses within the wider Vesuvian area in the use of marble in domestic décor.

## Keywords

marble, Bay of Naples, Stabiae, villas

## Introduction

Three campaigns (2013 – 2015) at the Villa Arianna (Fig. 1) and the Villa San Marco (Fig. 2) at ancient Stabiae (modern Castellammare di Stabia) have allowed the complete documentation of the overall marble-use at each villa, most prominently marble thresholds, pavements and wall *crustae*.<sup>1</sup> We present here the initial results of fieldwork at the villas, their use of marble in domestic décor and the implications for the importance of marble in Vesuvian villa decoration.

The site of ancient Roman Stabiae, located south of the Sarno River, contains at least six enormous villas and represents the largest concentration of well-preserved *villae maritimae* in the Mediterranean world. Although first explored in the eighteenth century, the sites were immediately reburied and not rediscovered until their partial re-excavation during the 1950s.<sup>2</sup> Out of the six villas discovered, two remain partially uncovered from the excavations of the 1950s: the Villa Arianna with the so-called *secondo complesso* and the Villa San Marco. These two villas are comparable in siting, size and décor to the other two well preserved villas excavated on the Bay of Naples that remain accessible today: Villa A at Oplontis and the Villa of the Papyri in Herculaneum. The villas of ancient Stabiae therefore present two of the four largest villas in the area destroyed by the eruption of Mt. Vesuvius in AD 79 that still retain substantial architectural remains.

Unfortunately, the quantity and scale of marble-use is hard to calculate in absolute terms for any Vesuvian site, given histories of extensive stone-robbing, especially during the eighteenth and nineteenth centuries.<sup>3</sup> Indeed, what survives at Stabiae is now much reduced due to later looting<sup>4</sup> and there is no way of knowing if all the varieties of marble originally employed in the four villas mentioned above are still preserved today. Furthermore, none of the four villas are entirely uncovered; however, even with these constraints we can draw a number of significant conclusions about the use of marble decoration at the villas of ancient Stabiae and their standing relative to other villas and elite houses around Vesuvius.

Both the Villa San Marco and the Villa Arianna feature *sectilia pavimenta*, walls of marble revetment, marble thresholds and windowsills, and at San Marco

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2 D'ORSI 1996.

3 i.e. the removal of marble revetment and statuary via exploration tunnels at Herculaneum; PIROZZI 2003, 27-32.

4 RUGGIERO 1881, 148-150.

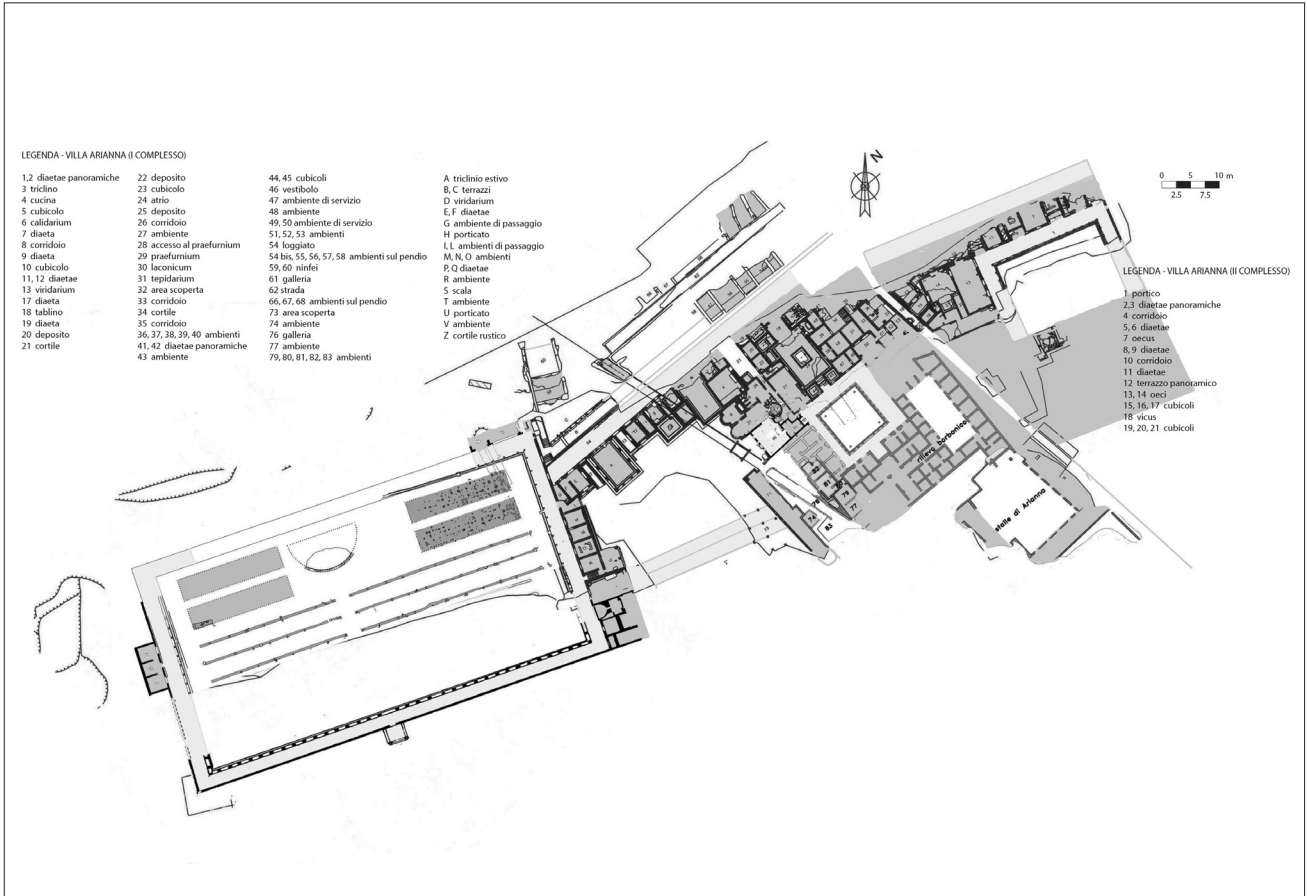


Fig. 1. Plan of the Villa Arianna (courtesy of Thomas Howe)

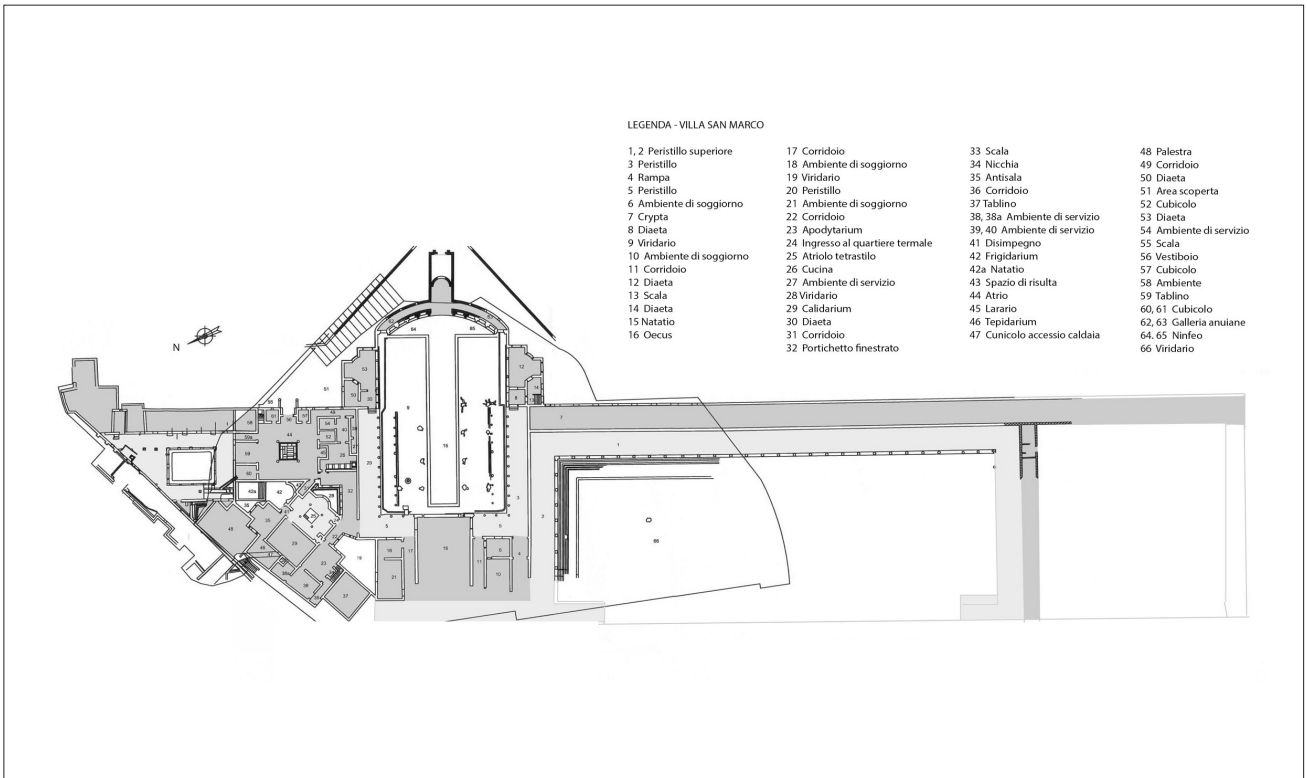


Fig. 2. Plan of the Villa San Marco (courtesy of Thomas Howe)





Fig. 3. Stabiae, Villa Arianna, Room 34, surviving portion of mosaic pavement with marble inserts (photo: S. Barker)

there is a marble pool surround. The Villa Arianna also features a number of mosaic pavements with marble inserts. The villas date from between the Republican period and 79 AD.<sup>5</sup> Much of the marble decoration at the villas belongs to construction phases in the Augustan and Claudian-Neronian periods, contemporaneous with the installation of Third- and Fourth- Style frescoes.

### Villa Arianna

At the Villa Arianna our investigation included the complete documentation of all the pavements characterized by marble pieces of more or less irregular sizes and shapes inserted into cement pavements or mosaic backgrounds of either black or white.<sup>6</sup> (No such pavements are attested at the Villa San Marco.) In total, three pavements with marble inserts are known at the villa and are located in Rooms 3, 34-35-41 (Fig. 3) and M (Fig. 4). Unfortunately, Room 34-35-41 was not sufficiently preserved to allow detailed investigation, but the pavement in Room M contains a relatively limited number of varieties (Fig. 5).<sup>7</sup> The pavement in Room 3 (Fig. 6), the largest and grandest pavement with marble inserts at the Villa Arianna, contained a total of 854 marble inserts with 14 different varieties (Fig. 5), but only *breccia di Aleppo* and *breccia corallina* could be considered particularly unusual for the Vesuvian area in the first century AD.

The pavements and wall revetment in Rooms 6 and 31 of the thermal complex (Fig. 7) were almost entirely robbed,<sup>8</sup> but the motifs can still be discerned from



Fig. 4. Stabiae, Villa Arianna, Room M, detail of cement pavement with marble inserts (photo: S. Barker)

the imprints in the mortar bedding. These pavements most likely belong to the second phase of construction in the first half of the first century AD<sup>9</sup> and have similar designs, each consisting of two parts: a main floor of rectangular slabs with a *listelli* border (composed of slate as can be inferred from a single *in situ* fragment in Room 6),<sup>10</sup> and a semi-circular niche at the south-west end of the room with rows of hexagons and triangles. The main floor in both rooms is bordered by slabs on the north, east and south: two of these slabs (*giallo antico* and grey) remain *in situ* in Room 31. While no fragments from either motif remain *in situ*, the presence of polychrome marble is suggested by d'Orsi's report of finding 'pezzi di marmo pregiato',<sup>11</sup> although these could be from the pavement or wall revetment.

Room R was also systematically stripped but its motif is preserved in the mortar preparation layer.<sup>12</sup> The imprints preserve two phases of flooring. Only the second phase, which is preserved on most of the floor, concerns us here: Guidobaldi's QrQ with the addition

was spoliated during the eighteenth century Bourbon excavations; CAMARDO 2001a, 74-83; 2001b, 78; RUGGIERO 1881, 90ff.

9 GARDELLI *et al.* forthcoming.

10 GUIDOBALDI's *Quadrati listellato* (ML); GUIDOBALDI 1985, 205, fig. 25a.

11 D'ORSI 1996, 46 (7-10 July 1950).

12 The floor was completely stripped during the Bourbon excavations and re-used in the Royal Bourbon Museum; RUGGIERO 1881, 149-150.

5 HOWE 2015.

6 GRANDI, GUIDOBALDI 2006, 34-38, Tables 1 and 2.

7 BARKER *et al.* 2013, 4.

8 The marble wall revetment from the thermal complex

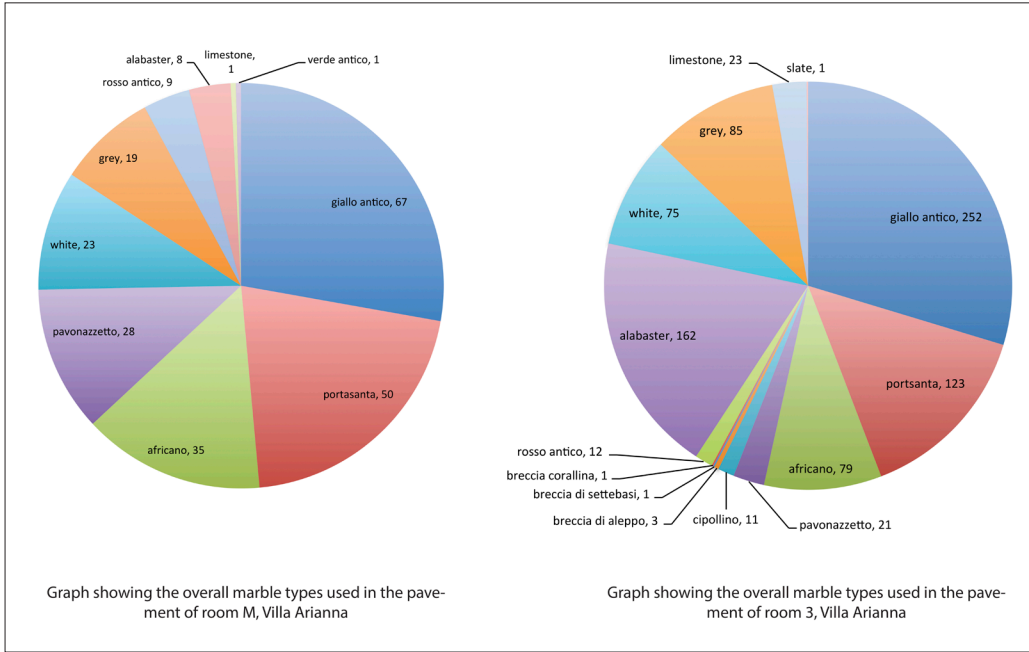


Fig. 5. Graphs showing the overall marble types used in the pavements of Rooms M and 3, Villa Arianna (drawings: S. Barker)



Fig. 6. Stabiae, Villa Arianna, Room 3, detail of mosaic pavement with marble inserts (photo: S. Barker)

of *listelli* (Fig. 8).<sup>13</sup> A small fragment of the *listelli* (slate) survives *in situ*. Thanks to the reports from Ruggiero, we know that the materials from Room R were most likely *giallo antico* and *africano*.<sup>14</sup>

Two further rooms at the Villa Arianna that employed marble decoration were also documented. Room 13 featured a wall-to-wall *sectilia* pavement datable to the first half of the first century AD. The floor area is 72 m<sup>2</sup>, making it amongst the largest within private residences in Campania (see below). Almost all of the marble has been stripped from the floor. Two fragments of triangles in *portasanta* remain *in situ* on the west wall next to the original

grey marble (probably Luna *bardiglio*) border, along with a fragment of a *pavonazzetto* triangle in the same vertical row of squares, but towards the north wall. The grey marble border survives for almost the entire length of the west wall and in the northwest corner of the north wall. The pavement's motif is Guidobaldi's Q2, which consists of oblique squares surrounded on all four corners by triangles.<sup>15</sup> The room's pavement was partially stripped in 1762 to pave a room in the *Museo Reale di Portici* (now the *Museo Ercolanese* in the Reggia di Portici) and the remaining floor was almost entirely stripped in 1775 to pave one of the rooms in the *Real Museo Borbonico* (now the Museo Nazionale di Napoli). The reconstructed floor in the *Museo Ercolanese* indicates that the pattern was a central square in *portasanta* and triangles in *pavonazzetto* and a central square of *pavonazzetto* and triangles in *portasanta*.

Atrium (24) features Third-Style frescoes and marble wall revetment, possibly installed simultaneously since the surviving Third-Style scheme shows no signs of having been cut into for the addition of the marble decoration. The wall revetment consists of a socle (22 cm high by 11 cm thick) of warm white marble with large crystals (which rules out an Italian provenance, see below) that is preserved in two places in the northwest *ala* and in a stretch of the long east wall, as well as in mortar impressions around the room generally.<sup>16</sup> The socle is surmounted by a frame of *cipollino* (9.5 cm high and

13 *cf.* GUIDOBALDI 1985, 183, fig. 4, 206-208, fig. 25k.

14 RUGGIERO 1881, 147-150.

15 GUIDOBALDI 1985, 183. See also PISAPIA 1989, 54, cat. no. 104.

16 The marble revetment may have been removed in Antiquity; RUGGIERO 1881, 162.

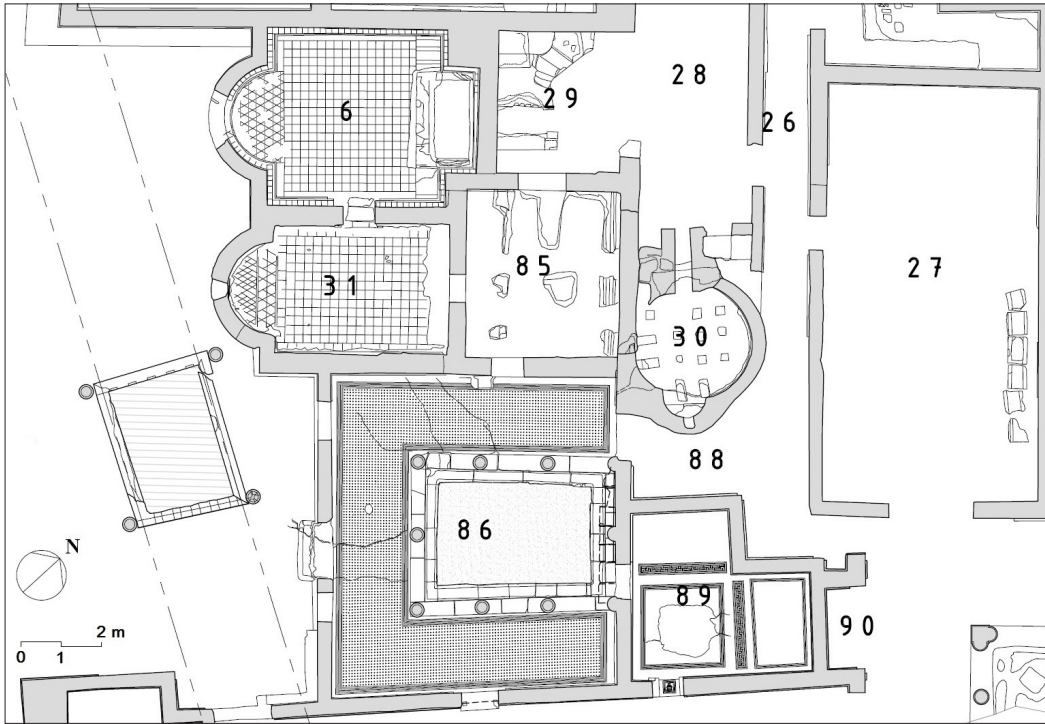


Fig. 7. Stabiae, Villa Arianna, plan of the Thermal Complex (courtesy of RAS Foundation)



Fig. 8. Stabiae, Villa Arianna, Room R, detail of pavement (motif OrO) (photo: S. Barker)



Fig. 9. Stabiae, Villa Arianna, Atrium 24, surviving portion of marble revetment (photo: S. Barker)

3 cm thick, Fig. 9), which is preserved at a single point on the northwest wall. Above this, mortar impressions indicate a large panel.<sup>17</sup> The total circumference of the revetment is 44.7 m, making the atrium one of the largest marble-revetted rooms in Campania (see below).

#### White marble in the Villa Arianna

Visual analysis indicates the prevailing presence of *marmor Lunense* (modern Carrara) throughout the villa; however, we identified several *in situ* pieces of white marble revetment that visually did not fit the characteristics of Luna: in the doorway between Rooms 31 and 6 of the thermal complex, the socle of Atrium (24) and the windowsill of Room P (Fig. 10). Visual inspection of the crystal characteristics with the 10x lens indicated that the marble employed has medium-coarse grained crystals, with maximum grain sizes (MGS) over 3.5 mm, which excludes Luna marble with its MGS of 1mm as a possible source. This is an important discovery that sets the Stabian villas apart from other Campanian examples, even those of first rank like Villa A at Oplontis.

While non-Italian white marble is not unprecedented in the Vesuvian area, examples are usually restricted to small-scale uses, motivated as much by the desire to

17 The use of large framed panels makes the room comparable to *diaeta* 78 at Villa A, Oplontis (see BARKER, FANT, *forthcoming*) and the House of the Telephus Relief (Ins. Or. I, 2) at Herculaneum; GUIDOBALDI *et al.* 2014.



Fig. 10. Stabiae, Villa Arianna, Room P, garden window sill with non-Italian white marble (photo: J. Clayton Fant)

display a spectrum of white marble types as by the specific virtues of non-Italian marble. This can be seen in the “marble museum” of the water garden in the House of the Vettii at Pompeii (VI, 15, 1) where a large rectangular basin in Thasian was sited on the N-S axis along the south side of the portico.<sup>18</sup> The outdoor *triclinium* (31) of the House of the Golden Bracelet at Pompeii (VI, 17, 42) was also composed of no less than 5 varieties of white marble,<sup>19</sup> and more haphazard combinations are evident in *triclinia* at the *hospitium* at Murecine (600m south of Pompeii’s Stabia Gate), the Praedia of Julia Felix (II, 4) and the *aedicula* behind the *biclinium* of the House of Octavius Quartio (II, 2, 2) at Pompeii.<sup>20</sup> The use of non-Italian marble in the thermal complex, and most likely elsewhere in the Villa Arianna, including c. 10 m<sup>2</sup> of revetment socle in Atrium (24) and the extensive windowsills of Room P, is a different case. The presence of such a quantity of non-Italian white marble singles out the Villa Arianna for its use of white marble from other elite villas in the Vesuvian area.

### Villa San Marco

Two panels of *sectilia* (now in the Stabiae Antiquarium) from Room 10 of the Villa San Marco, the *oecus* flanking the great *exedra* 16 and the grandest small reception

18 FANT *et al.* 2002.

19 FANT 2009.

20 FANT, ATTANASIO 2015.

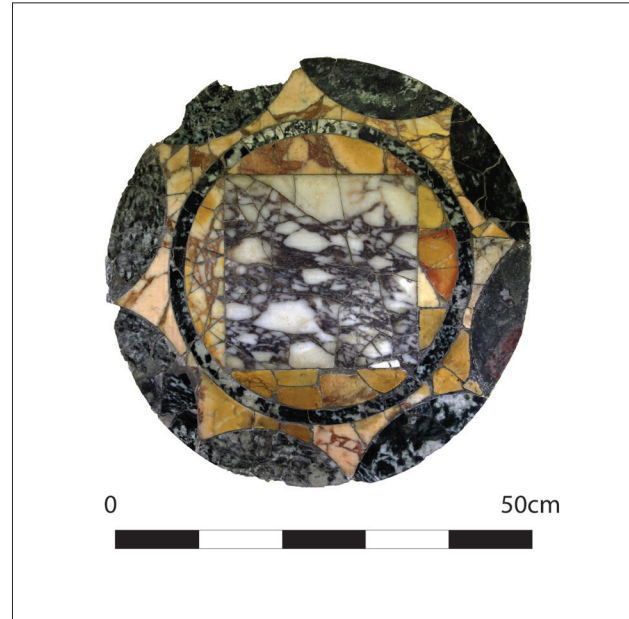


Fig. 11. Stabiae, Villa San Marco, Room 10, detail of *sectilia* panel (now in the Stabiae Antiquarium) (photo: S. Barker)

room of the villa, include several rare Egyptian granites, including *Granito della Colonna* (Wadi Umm Shegilat) and *Sedia di S. Lorenzo* (Wadi Semna) (Fig. 11). These granites are used in striking and complex figures (eight segments or circles - one of which is in fact *africano* - form the border of the entire circular composition, and a narrow circular band), to frame a square of *pavonazetto*. The floor may also have used red porphyry as a survey of the shims preserved in the floor bedding mortar found multiple fragments of this stone. All of these materials are at the top of the scale of prestige and scarcity.

In 2014 the floor was uncovered to trace the mortar-bedding layer into the center of the *sectilia pavimenta* of Room 16 (Fig. 12). The investigation indicated that the room’s entire surface, 138.6 m<sup>2</sup>, was paved with marble and is therefore the largest marble floor of any residence in the Vesuvian area.<sup>21</sup> The pavement’s motif is Guidobaldi’s QOrQ, with a module of c. 60 cm (two Roman feet). The geometric scheme features an oblique central square

21 Wall-to-wall *sectilia pavimenta*, not all of which are marble, are rare in houses at Herculaneum and Pompeii with examples only at the House of the Skeleton (III, 2), the House of the Stags (IV, 21), the House of the Telephus Relief, the House of the Alcove (IV, 3-4), and the House of the Atrium Mosaic (IV, 1-2) in Herculaneum, and the House of M. Fabius Rufus, the House of Sallust (VI, 2, 4), the House of Apollo (VI, 7, 23), the House of the Golden Bracelet (VI, 17, 42), the House of the Centenary (IX, 8, 3), the House of Cornelius Rufus (VIII, 4, 15) and the Villa of the Mysteries at Pompeii.



Fig. 12. Stabiae, Villa San Marco, Room 16, uncovered floor section (photo: S. Barker)



Fig. 13. Pompeii, Villa of the Mysteries, Room 1, detail of mosaic pavement (photo: S. Barker)

surrounded by four rectangles. Only a small portion of the pavement survives *in situ* and so the types of marble used in the overall scheme cannot be reconstructed with certainty; however, the panels certainly employed *portasanta*, *giallo antico*, *africano* and *pavonazzetto*.

### The villas of ancient Stabiae in their Vesuvian context

The following survey is not intended to be exhaustive but rather to provide some context for the marble-use in the villas of ancient Stabiae, highlighting some differences and similarities between neighboring villas and the nearby cities of Herculaneum and Pompeii.

Stone decoration was used in each of the three phases of Villa A at Oplontis, in the initial construction (c. 50 BC), the renovations and additions during the Augustan period (c. AD 1-15) and finally in the east wing constructed during the Julio-Claudian period, after AD 45.<sup>22</sup> At its construction in c. 50 BC, most of the decorative stones used at Villa A were unremarkable. However, the villa's 14 threshold blocks of alabaster, requiring at least 1.5 m<sup>3</sup> of alabaster, singled the villa out from other villas and houses in the region in this period (and even those in Rome), and highlight the luxury status of the villa within the wider context of private residences in Campania. The actual quarry source still remains uncertain (see Barker *et al.* this volume) but it must have represented a significant investment on the part of the villa's owner.

Although we find a lack of investment in marble decoration during the Augustan period at Villa A, which may well reflect the owner's preference or focus towards painted decoration, the mid-Julio-Claudian East Wing (c. AD 45) shows a substantial investment in marble. In this period at Villa A we find *sectilia* floors (Rooms 69 and 78), mosaic pavements with marble inserts (i.e. Portico 60 and Peristyle 32) and wall revetment in four rooms (64-65, 69, 74-75 and 78), which made use of wider varieties of imported marbles, including *pavonazzetto*, *africano*, *giallo antico*, *portasanta* and some rarer varieties, such as *breccia di Settebasi*, *cipollino rosso* and *breccia di Aleppo*. This shows that the villa was well aligned with metropolitan (and imperial) tastes, but large quantities and prominence in display of *breccia corallina*, the chief material for the villa's wall revetment (to judge by the extant evidence), may well attest to local innovation and ingenuity.

The Villa of the Mysteries at Pompeii is located 400 m from the Herculaneum gate on the northwest side of the city. While the villa compares to Villa A and the villas of Stabiae in its use of impressive painted wall decoration, mainly datable to the Second-Style period, marble decoration is notably lacking. The villa features a number of Second-Style mosaic pavements with inserts of coloured limestone and Egyptian alabaster, similar to that of Room 15 at Villa A.<sup>23</sup> Room 5 (*sala "dei misteri"*) is notable for its

22 See BARKER, FANT, *forthcoming*.

23 Corridors F<sup>1</sup>, F<sup>2</sup> and F<sup>3</sup> and P<sup>1</sup>, P<sup>2</sup>, P<sup>3</sup>, P<sup>4</sup>, room 62 and corridor 43; CICIRELLI, GUIDOBALDI 2000.

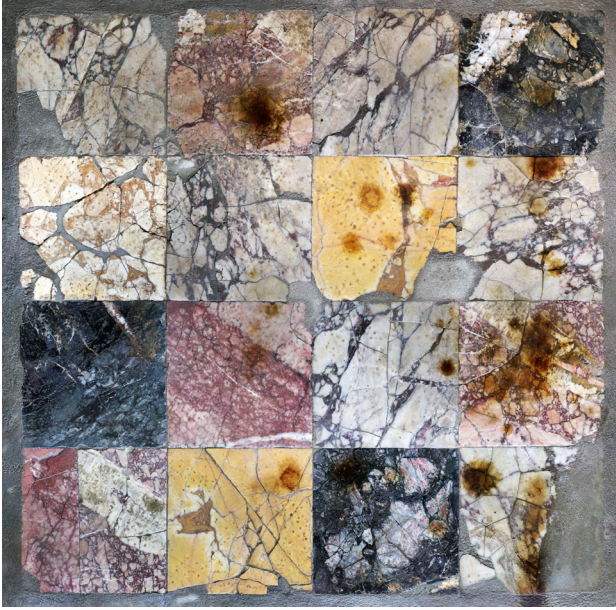


Fig. 14. Pompeii, House of the Fruit Orchard (I.9.5), Room 13, detail of *emblemata* (photo: S. Barker)



Fig. 15. Pompeii, House of M. Lucretius, *tablinum* (15), detail of a panel of *gabbro eufotide* from Egypt's Wadi Maghrabiya (photo: S. Barker)

inclusion of a wall-to-wall *sectilia* pavement with squares of *palombino bianco*, *ardesia* and *pietra paesina* during the Second-Style period, and during the Third-Style period, we find a mosaic pavement with inserts of coloured marble (*alabastro fiortio*, *giallo antico*, *pavonazzetto* and *portasanta*) in Room 1 (Fig. 13).<sup>24</sup>

The Villa of the Papyri, located just outside the city wall of Herculaneum, was originally constructed between 60 and 40 BC,<sup>25</sup> and contained a circular belvedere with an intricate circular *sectilia* pavement with marble and colored limestones.<sup>26</sup> The most notable pavement from the atrium quarter of the villa is a Second-Style floor, located in corridor (h) in the western sector.<sup>27</sup> It features a white ground tessellated mosaic with inserts of colored limestone and marble.<sup>28</sup> Most of the late Augustan or early Julio-Claudian *sectilia* pavement in the center of the lower terrace (VPSO

a)<sup>29</sup> was removed, but the decorative scheme of *giallo antico* squares and lozenges framed by *rosso antico* listels can still be reconstructed.<sup>30</sup> The lower sections of the room also featured marble wall revetment, which shows signs of renovation during the Neronian and Flavian periods.<sup>31</sup> This revetment had a height of 1.10 m and included a lower plinth of *africano* crowned with a white marble molding cornice, above which were rectangular slabs of *africano* and *giallo antico*. This was crowned by another white marble molding cornice, on top of which was another row of rectangular panels of *africano*, *cipollino*, and *luna bardiglio*.

The range of lithotypes available to private individuals at Pompeii has already been well studied.<sup>32</sup> This range is typical for central Italy in the first century AD; *cipollino*, *giallo antico*, *africano* and *portasanta*, for example, are well attested. A range of other imported materials can also be found, albeit in much smaller quantities, including *breccia di Settebasi*, *pavonazzetto*, various alabasters, *rosso antico*, *breccia corallina*, *breccia di Aleppo* and *semesanto*. However, one clear factor distinguishes the villas of ancient Stabiae (and Villa A), namely the quantity of marble being used.

24 CICIRELLI, GUIDOBALDI 2000, 18.

25 DE SIMONE 2010; M. P. GUIDOBALDI, ESPOSITO 2010.

26 The pavement from the belvedere is now in the Museo Nazionale di Napoli; RUGGIERO 1881, tav. XII, 4, WORCIK 1986, 26, tav. XI. For another pavement possibly associated with the villa: RUGGIERO 1881, tav. XII, 3, WOJCIK 1986, 27, tav. XII.

27 See M. P. GUIDOBALDI *et al.* 2012, 128-131, fig. 86, 87, 89 and 90; DE SIMONE, RUFFO 2005, 168.

28 DE SIMONE, RUFFO, 2005, 168, n. 27.

29 The entire lower terrace was labeled VPSO (Villa dei Papyri area Sud-Ovest): GUIDOBALDI, ESPOSITO 2010, 23, 45-50, n. 69.

30 GUIDOBALDI, ESPOSITO 2010, 46-47.

31 GUIDOBALDI, ESPOSITO 2010, 47-48, 59.

32 FANT 2007.

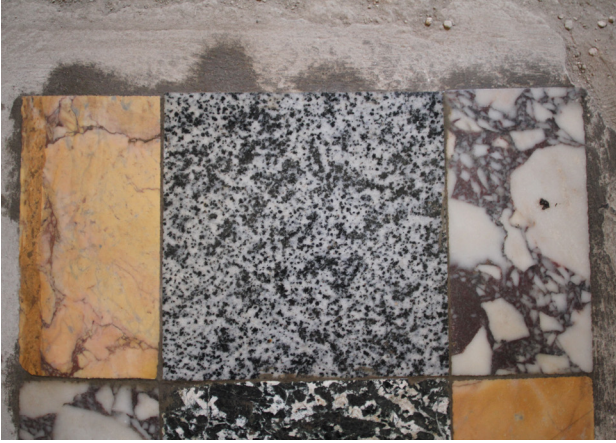


Fig. 16a. Pompeii, House of the Small Fountain, Room 9, detail of panel of *granito del foro* (photo: S. Barker)



Fig. 16b. Pompeii, House of the Small Fountain, Room 9, detail of panel of *granito bianco e nero* (photo: S. Barker)

Both wall-to-wall *sectilia pavimenta* and wall revetment are rare at Pompeii; the latter features in only seven houses at Pompeii.<sup>33</sup> Similarly, marble *emblemata* (i.e. the House of the Fruit Orchard (I, 9, 5), Fig. 14), if somewhat more numerous, remain rare, even into the Fourth-Style period. Most marble-use was restricted to irregular or geometric inserts in mosaic or cement pavements. This suggests that marble supplies remained limited into the mid-first century AD. The most significant display of marble can be found in the House of the Golden Bracelet<sup>34</sup>, the House of the Ephebe (I, 7, 10), the House of Caecilius Jucundus (V, 1, 26) and the House of the Centenary (IX, 8, 3), although with the exception of the pavement in *triclinum* 17 of the House of the Ephebe, these examples are not on the scale of the best houses at Herculaneum.

While private houses in AD 79 had more marble on display than ever, Pompeii seems to have been poorer in its use of rare stones than Herculaneum. The late Fourth-Style *sectilia pavimenta* of the House of M. Lucretius (IX, 3.5) is one of only a few pavements to employ stone from Egypt's Eastern Desert. At the House of M. Lucretius we find three 15 x 15 cm panels of *gabbro eufotide* from Egypt's Wadi Maghrabiya (Fig. 15).<sup>35</sup> In the House of the Small Fountain (VI, 8, 23), we find two 30 x 30 cm panels, one of *granito del Foro* (*marmor Claudianum*) from Mons Claudianus, and the other, *granito bianco e nero* from Wadi Barud, near Mons Claudianus

(Fig. 16a and b).<sup>36</sup> We can add these examples to other known uses of Egyptian granite on the façades of bar counters at Pompeii – a large rectangular panel of green-grey *granito della sedia di San Lorenzo* from Wadi Umm Wikala, was used in the face of the bar at VI, 10, 1/19, and a disc of the black variety of Aswan granite (*lapis syenites* or *Thebaicus*) was used in the same way at VII, 15, 5. The pavement in *triclinum* 17 of the House of the Ephebe, dated to the late Third-Style or Fourth-Style period,<sup>37</sup> also features a number of granites, including *porfido rosso antico* (*lapis porphyrites*) from Gebel Dokhan (Mons Porphyrites), *granito della sedia di San Lorenzo* and *granito bianco e nero* (Fig. 17a-c).

We also find very small amounts of other less common stones: *semesanto* was used for small hexagons in the cement pavement of the House of M. Lucretius Fronto (V.4.a); *breccia di Aleppo* is found in only in a small number of houses, such as the House of P. Casca Longus (I, 6, 11) and the House of the Golden Cupids (VI, 16, 7).

At Pompeii we should also note the important houses belonging to the *Insula Occidentalis*, such as the House of Marcus Fabius Rufus and the so-called Villa Imperiale (VII, 1, a),<sup>38</sup> which demonstrate, as at Herculaneum, the investment of elites during the Julio-Claudian period in constructing substantial multi-storied villas. The early Fourth-Style (45-62 AD) structural remodeling of the House of Marcus Fabius Rufus was accompanied by the installation of *sectilia pavimenta*, and in Room 21 on the piano terra, the most impressive example of marble wall revetment at Pompeii (and probably anywhere on the Bay of Naples)

33 The House of the Citharist (I, 4, 5), the House of Sallust, the House of M. Fabius Rufus (VII, 16, 22), the House of Castor and Pollux (VI, 9, 6), the House of the Vestals (VI, 1, 6-8), House at VIII 2, 14-16, and the House of Queen Caroline (VIII, 3, 14).

34 CIARDIELLO 2006.

35 BROWN, HARRELL 1995; HARRELL *et al.* 1999.

36 HARRELL 2010.

37 GUIDOBALDI 1985, 192, tav. 5,6; GUIDOBALDI, OLEVANO 1998, 235-236, tav. 12,6.

38 GRIMALDI 2006; PAPPALARDO *et al.* 2008.



Fig. 17a. Pompeii, House of the Ephebe, *Triclinium* 17, detail of pavement, *granito della sedia di San Lorenzo* from Wadi Umm Wikala (photo: S. Barker)



Fig. 17c. Pompeii, House of the Ephebe, *Triclinium* 17, detail of pavement, square of *porfido rosso antico (lapis porphyrites)* from Gebel Dokhan (Mons Porphyrites) (photo: S. Barker)



Fig. 17b. Pompeii, House of the Ephebe, *Triclinium* 17, detail of pavement, *granito bianco e nero* from Wadi Barud, near Mons Claudianus (photo: Simon Barker)

with floor-to-ceiling revetment c. 3.8 m high (Fig. 18). However, quantification of the total marble decoration remains difficult because several rooms (i.e. Rooms 21 and 62) were in the process of being stripped of marble after the earthquakes of AD 62.

*Sectilia pavimenta* is present at Herculaneum in 44 different rooms (30 in private houses and 15 in public buildings) within 17 private and public buildings,

covering c. 352 m<sup>2</sup>.<sup>39</sup> Many of the pavements at Herculaneum are extremely rich in terms of range of materials, including a number of rare stones, such as *breccia di Settebasi* and *breccia rossa Appenninica*, with *gabbro eufotide*, *semesanto*, *breccia di Aleppo*, *fior di pesco*, and *porfido rosso antico* represented by only a few small panels (i.e. House of the Stags (IV, 21)). The ever-increasing importance of marble display in elite décor during the late Fourth-Style period can be seen in Room 18 of the House of the Telephus Relief, which employs 23 different types of stone, including small amounts of these rare varieties. In fact, the House of the Telephus Relief and the House of the Stags outdo both the villas of ancient Stabiae and Villa A at Oplontis in terms of the range of marble varieties employed.

Large pieces of marble, such as the *cipollino* thresholds and green porphyry blocks awaiting installation in the House of N. Popidius Priscus (VII, 2, 20), suggest that substantial pieces of imported polychrome stones were only just beginning to be obtained at Pompeii in AD 79. It seems that such blocks or panels were already available at Herculaneum, as the windowsills of large *cipollino* blocks at the House of the Gem (Ins. Or. I.1) demonstrate (Fig. 19). In fact, larger panels found at Herculaneum like the *africano* threshold slab of the House of the Bicentenary (V, 15) seem to be missing entirely in the houses of Pompeii.

39 SAVALLI *et al.* 2015.





Fig. 18. Pompeii, House of Marcus Fabius Rufus, Room 21, N-W corner, imprint of wall revetment (photo: S. Barker)

### Toward a comparative perspective

Certain difficulties arise when trying to take a comparative approach to the study of ancient marble decoration. In addition to the large quantities of marble now missing from houses and villas, there is the problem of what criteria to use when judging ancient displays of marble. For example, what was more important (or prestigious) to an ancient house owner and/or guest: was it better to have more rooms with smaller quantities of marble, or one or two rooms with a large volume of marble? Was quantity more important or number of varieties on display? Were more heterogeneous compositions of the marbles favored in imperial architecture (i.e. *pavonazzetto*, *giallo antico*, *portasanta* and *africano*) seen as superior to those with a plethora of less well-known varieties?

Dates are also problematic when marble-use is compared. We must be mindful of the date of the marble-use (particularly with reference to the first examples of particular marble varieties within Italy) and the removal of



Fig. 19. Herculaneum, House of the Gem, detail of *cipollino* window sill (photo: S. Barker)

earlier marble pieces through renovation and/or recycling. If we look at the use of marble during the Second-Style period, for example, Villa A seems to be ahead of the competition with its use of alabaster thresholds, but the same is not true in the Fourth-Style period. Therefore we should be aware that elite owners and/or houses may have been more prestigious in earlier periods but were surpassed at a later date.

In examining the marble-use of villas and houses at Pompeii and Herculaneum we can certainly see general trends over time. Firstly, we can see an increasing use of marble, which reached its peak during the period after the AD 62 earthquake. Secondly, we can see new trends developing in the way marble was displayed, moving from inserts in mosaic pavements to *sectilia pavimenta* and finally to wall revetment. Thirdly, we can see an ever-increasing range of marble being displayed, especially in the late Fourth-Style period, including genuinely rare materials, such as Egyptian granites. This reveals a clear trend of local elites working hard to keep up with fashions at Rome, obtaining small pieces of granite from quarries in the Eastern Desert, which had been prospected and developed to supply imperial architecture. The house and villa owners of the Bay of Naples clearly understood the value of these materials and took care to display them conspicuously. Fourthly, we have a clear impression that those owners, pondering the choice of materials when commissioning renovations or new construction, had to work within an atmosphere of scarcity. While some houses and villas were clearly privileged in their supplies of marble (Villa A or the House of the Stags, for example), no property was exempt from local difficulties and supply shortages on the Bay of Naples in the mid-first century AD. It seems likely that not all marble was coming directly from the quarries but much was being re-used, recycled, gifted or perhaps sold on as

surplus from public projects.<sup>40</sup> Therefore, the stone used for a project might depend (at least to some extent) on what was available on the secondhand market. Even the impressive marble displays at the House of the Stags were in part supplied by recycled material, as evidenced by the majority of slabs, which show evidence of having been reworked.<sup>41</sup>

The following preliminary observations about the relative richness of marble-use in the houses and villas on the Bay of Naples may provide support for a broader discussion. The Villa San Marco is the richest of the villas in the Bay of Naples in terms of its range of marble, including Egyptian granites, and is comparable to the House of the Telephus Relief and the House of the Stags at Herculaneum, and the House of the Ephebe at Pompeii. In terms of the overall quantity of marble used for floors and walls, the Villa Arianna (c. 122 m<sup>2</sup> of marble required for rooms 13, R and 24 alone) and the Villa San Marco (well over 150 m<sup>2</sup> for Rooms 16 and 10) exceed Villa A (c. 90 m<sup>2</sup>) and even the most marble-rich houses at Pompeii and Herculaneum, such as the House of the Telephus Relief (c. 154 m<sup>2</sup> of marble in total). Moreover, while the House of the Stags contained the most rooms with marble *sectilia pavimenta* (over 10 rooms – double that of the Villa Arianna (5) and substantially more than the Villa San Marco (2) and Villa A (3)), the largest single *sectilia pavimenta* floor in the Vesuvian area is at the Villa San Marco. This floor (Room 10) may have been one of the richest floors, with a complex geometric pattern and a probable heterogeneous composition of two Egyptian granites (most likely including porphyry). As for wall revetment, which was relatively rare on the Bay of Naples, the Villa Arianna does have a large quantity in its atrium (24) and, importantly, may be one of the earliest examples of wall revetment in the area; however the House of M. Fabius Rufus contained the single largest example of wall revetment (Room 21, which required over 100 m<sup>2</sup> of marble).

To sum up, the elite houses of Pompeii are very much poorer in their use of marble than those of Herculaneum and the other villas considered in this article. Yet, we should be mindful that by AD 79 several pavements (from the House of the Golden Bracelet, the House of Caecilius Jucundus, the House of the Centenary, and the House of the Ephebe) had impressive displays of marble. This broad contrast cannot simply be seen as a result of preservation, because it is closely paralleled in the cladding of street-side bars, reflecting the span of marbles in original use.<sup>42</sup>

Comparisons between the major villas are not as straightforward, and not solely because of accidents of preservation. Even objective measures like area of *sectilia*

*pavimenta* and revetment as wall décor do not produce clear rankings: e.g., Villa A has the largest area of revetment but it has neither the largest number of rooms with *sectilia pavimenta* (Villa Arianna) nor the largest single room (Room 16 at San Marco). On the somewhat more subjective scale of “prestige and rarity,” San Marco seems (caution is needed because preservation is key here) to stand out in quantity of prestigious polychrome varieties, but if we frame the comparison with monolithic columns as the key element,<sup>43</sup> Villa A has no competition at all. Again, if variety of white marble is a key criterion, Villa A is at the bottom and the Villa Arianna with its (likely) Thasian atrium, bath revetment and cliffside windowsills stands alone.

What we can be sure about is that all of the major villas (Villa Arianna, Villa San Marco, Villa of the Papyri, Villa A) seem to be ahead of the houses at Pompeii in terms of installation of significant examples of marble floors and wall revetment; however, the latest houses at Herculaneum (Telephus, Stags, Alcove) incorporated many more “new” varieties of marble in the period after AD 62. The question is whether the villas in the area would have progressed further in terms of marble-use if not for AD 79. Room 10 at San Marco, the latest floor in any of the major villas, seems to suggest this, as it uses Egyptian granites and new *sectilia pavimenta* motifs popular in Rome.

40 FANT *et al.* 2013.

41 DE CAROLIS, ESPOSITO 1998, 354-256.

42 FANT *et al.* 2013.

43 22 sets of marble columns (probably Lesbos grey), Luna capitals and bases.

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