

BATH COMPLEX - WALL TYPES

CARSULAE BATHS RESEARCH PROJECT - SAN GEMINI PRESERVATION STUDIES







WALL CONSTRUCTION TYPES



METHODOLOGY:

- Identifying separate walls and devise identification system. - Measuring the width of each wall at various locations to acquire an average wall thickness.

- Measuring the widths of the wall layers (bricks, cement, interior finishes, etc.) and document the size of masonry units and wall constructions with measurements and sketches.

- Measuring and making notes of any openings and structural members such as arches

- Recording further observations including notes on materials, construction types, oddities found on the walls and relationships to other structural members - Taking photographs of each wall in elevation (both outer and inner sides) and in plan.

AVERAGE MASONRY UNIT SIZE:

Tegulae: Measures between 30cm to 10 cm on long side, and between 18 and 14 in perpendicular direction with an average thickness of 4 to 5 cm.

Cubilia: Measures 8cm x 8 cm on the face and average between 18 and 20 cm in depth. All have a truncated pyramidal shape.

Tubuli: There is one intact tubuli found on the site as it is currently excavated. This measures 10.5cm by 14 cm outside to outside. Inside to inside the cavity measures 7.5cm x 11cm. The length is indeterminable as only to top potion is visible.





WALL B OPUS TESTACEUM Wall A of the apse is constructed of opus testaceum varying in thickness from 61 to 65cm. On the interior of the wall is an 18-20cm wide ledge built up of opus testaceum, and roof tiles. This ledge would've supported the







Wall C-D is an opus testaceum wall, around 60cm thick. There are remains of terracotta facing on the inside and a possible foundation ledge on the outside approximately 13-14 cm wide. On the outside there is around 4 cm of plaster. There is the same plaster also at the apse. Within the apse the pilae are completely against this wall.

Wall thickness (cm): 60 (no more measurement due to lack of excavation and on-going works)





Wall C-D - Exterior South Corner

Wall C-D - Interior South Corner



Wall E is constructed of opus testaceum and is 60.3cm thick on average. The wall has a small opening on the west end with large terracotta voussoirs forming a jack arch. On the exterior the wall has a 14cm deep ledge at the bottom, probably used to support some kind of cladding. The walls of the large room (tepidarium) have terracotta facing sitting on a 13cm ledge. The pilae are 10-15cm from the wall.

Wall thickness (cm): 62, 59, 60, 60



Wall E - Jack Arch Detail





Wall E - Interior

Wall E - Exterior

Wall E - South Side Elevation





51cm thick on average. We can see opus reticulatum all the way along the bottom portion of the wall and opus testaceum courses above it. On the interior we can find the same ledge as walls L & F These is an opening in the center of this wall, with little visible definition at the sides, and no clear function. Opening may be related to a possible furnace located on the south side of wall G-N.



Wall thickness (cm): 50, 52

Wall G-N - Inte



Wall G-N - Exterior & Top

Wall G-N - Interior

Wall G-N - Exterior & Top