DONSTONE TECHNICAL SPECIFICATION SHEET

DOME

Haddonstone Ltd +44 (0) 1604 770711 info@haddonstone.co.uk • Haddonstone (USA) Ltd 866 733 8225 stone@haddonstone.com

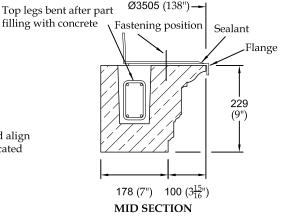
BALUSTRADED TEMPLE L9000 DETAIL

DOME INSTALLATION

Drill holes through the dome and flange into the stonework, in the position shown, at 300mm (12") centres around the circumference. Secure dome to stonework using suitable self-tapping masonry screws, or alternatively using plug and wood screws, with stainless steel flat washers to prevent glass fibre tear. A sealant (not supplied) should then be used to seal the joint between the dome and flange. When drilling stonework, use a suitable masonry drill on a rotary setting only (not hammer action).

Trowel flat for use with dome Without dome leave proud L620 'U' BEAM Use 1:2:9 cement/lime/sand mortar to form soft joint M800M TUSCAN CAPITAL _Ø178 (7") Outside face of architrave should align with top of column shaft as indicated M8 TUSCAN COLUMN Core Ø110 $(4\frac{5}{16}")$

A sealant (not supplied) should be used to seal the joint between the dome and the flange Ø3505 (138") -Top legs bent after part

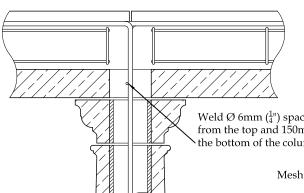


ARCHITRAVE BEAM REINFORCEMENT RECOMMENDATIONS

- Mesh reference no B385 (BS4483) to be curtailed at column bars
- Bottom legs to be bent at 90° and tied before being positioned centrally in recess

Lap bar

- 3) Bend top legs [50mm (2") long] down after part filling with concrete
- 4) Lap bar 1No to be $12mm(\frac{1}{2})$ high yield and $900mm(35\frac{7}{16})$ long in top surface only
- 5) Top cover to be 40mm $(1\frac{9}{16}")$ to mesh



SECTION AT COLUMN

Weld \varnothing 6mm ($\frac{1}{4}$ ") spacer 150mm (6") from the top and 150mm (6") from the bottom of the column bars

Mesh to be bent on plan to required radius

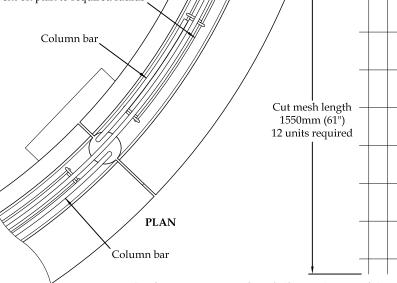
LONGITUDINAL SECTION

COLUMN REINFORCEMENT RECOMMENDATIONS

- 1) Minimum reinforcement 2 No Ø 12mm $(\frac{1}{2})$ high yield bars
- Top leg to be a bond length 600 mm $(23\frac{5}{8})$
- Bars to be positioned outside top cage
- Top cover to be 50mm (2") to horizontal bars
- Column core reinforced and filled with hand compacted concrete. The shaft sections should be lined with polystyrene, styrofoam, or similar (not supplied), to act as an isolating medium when column cores are infilled with concrete.

CONCRETE RECOMMENDATIONS

- 1) Use Ø 10mm ($\frac{3}{8}$ ") rounded gravel aggregate to BS 882
- Concrete to have a minimum strength of 25 MPa [N/mm²] (3500 psi) at 28 days
- Concrete to be hand compacted
- Top surface to be protected against frost damage and the ingress of water at the in situ concrete interface



Read in conjunction with Tech Sheet T10, T14 and CAD1 All dimensions exclude joints - allow 6mm $(\frac{1}{4})$ for vertical and bedding joints Unless otherwise stated, all materials other than stonework to be supplied by others