

To be read in conjunction with Tech Sheet CAD1/TS, appropriate column Tech Sheet and Pointing Recommendations.

The column is supplied in component form: ie capital, shaft, base, plinth and pedestal. Depending on column type, each column shaft is supplied in either one piece or multiple drum sections as detailed on the relevant Tech Sheets. Unless otherwise stated, all materials other than the stonework are to be supplied by others. Consult a qualified builder or installer to ensure all relevant Building Regulations/Codes are adhered to prior to installation of columns.



The column should be erected on a suitable foundation. Foundation, concrete and steel reinforcement to be designed by others to suit loadings and ground conditions. Shown is a suitable steel starter bar set into a concrete foundation.



The pedestal is then bedded on 1:1:6 cement/lime/sand mortar. All joints would normally be 6mm (1/4") with the mortar slightly recessed from the surface of the stonework to allow for pointing after the column is erected.



The column base is bedded on the pedestal as previously described.



It is important that polystyrene/Styrofoam (or similar) is used to act as an isolating medium between the stone and infill concrete. This is inserted into the core of the pedestal and base. Care should be taken to ensure sufficient overlap at both vertical and horizontal joints with continuous contact between the isolating material and the inner stonework core.



The pedestal and base are then infilled with concrete. The coarse aggregate of the concrete being rounded gravel of maximum 10mm (3/8"). All subsequent concrete pours should only take place after the concrete in the preceding section has reached its initial set.



The steel main bar reinforcement is tied to the starter bar insuring sufficient overlap. The concrete is then carefully compacted by hand.



7 The bottom shaft section is then bedded and the isolating medium inserted as previously described. The concrete is again infilled.



8 The concrete is then hand compacted. The second and third shaft sections being installed in the same way (unless a single shaft unit).



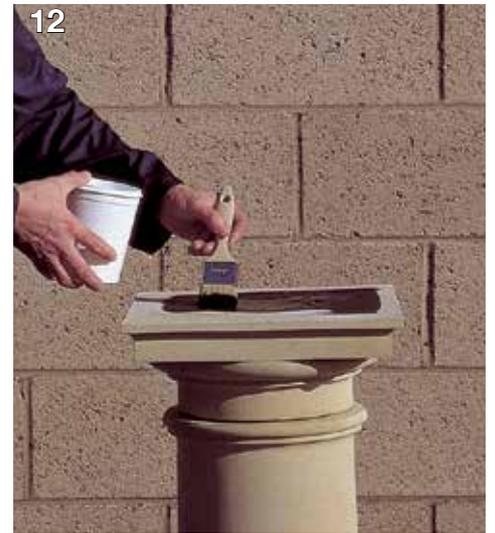
9 The capital is then bedded. The isolating medium is inserted into the core. The core is then partly infilled with concrete as previously described



10 The isolating medium is then trimmed flush. Continue concrete infill until level with top of capital. The capital is now ready for the next stage, either (11) or (12).



11 Column ~ Entablature or Structure above: the joint around the structural core between the capital and the entablature or structure above should be formed using a compressible filler, or a weak mortar mix, to form a 6mm (1/4") soft joint. This ensures that any loading is carried by the central structural core and not by the stonework.



12 Column ~ Freestanding or timber pergola: the top of the capital will need to be waterproofed, as a minimum, with bituminous paint (applied in accordance with manufacturers instructions) to approximately 25mm (1") from the edge of the stone.

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