

# Beany Block<sup>®</sup>

## GUIDELINES ON THE APPLICATION OF BEANY BLOCK KERB DRAINAGE SYSTEM

*This document is produced to assist the Engineer in the preparation of design details and must not be used as a definitive document.*

### BEANY BLOCK CONSTRUCTION GUIDELINES.

1. Excavations shall be carried out as necessary to permit installation of the blocks. Where base blocks are to be installed beneath new pavements, the pavement shall be completed to top of base coarse level before excavation for the blocks is commenced.

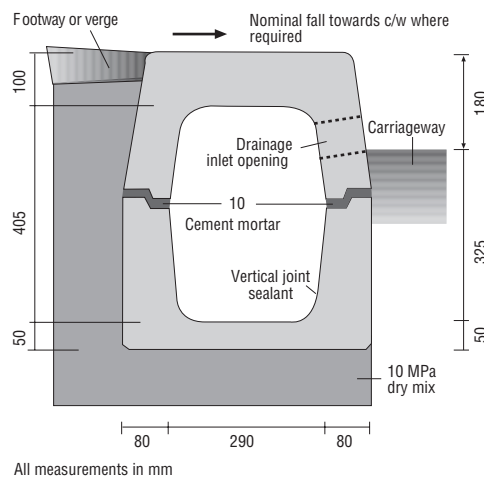
2. Base blocks and outfalls shall, unless otherwise stated in the contract, be laid to correspond to pavement channel levels, be laid to a straight grade. Blocks shall be bedded directly onto a freshly mixed concrete foundation, or alternatively bedded on a layer of concrete foundation. Base blocks shall be laid commencing at the outfall with adjacent invert levels corresponding.

An agreed section of base blocks shall be approved by the Engineer before installation of the top blocks.

3. Jointing between adjacent base blocks and outfalls shall be effected by applying sufficient vertical joint sealant onto one or both faces of the joint, and drawing or tamping the adjacent blocks to make a watertight joint. The maximum thickness of compressed sealant shall be 8 mm, with a minimum spread through the joint of 50 mm. Surplus sealant shall be removed from the inner surface of the blocks as work proceeds.

4. Top blocks shall be laid commencing at the outfall, firmly bedded on the base blocks using 3:1 mortar. The whole of the joints shall be completely filled with compacted mortar and the joints shall be pointed. Surplus mortar shall be removed from inside the units as work proceeds. Any unit deviating more than 3 mm in 3 m from line or level shall be made good by lifting and relaying.

5. When cutting is necessary, one or two units shall be cut so that no single unit is less than 200 mm in length. All cutting and trimming of the units, shall be carried out with a concrete saw or disc cutter. Base blocks and outfalls shall not be cut unless directed by the Engineer. Any cut top block shall be laid with the drainage opening away from the carriageway and shall be



protected to prevent backing concrete entering the Beany Block System. (Unless tops without drainage openings are specifically ordered).

6. Where blocks are laid on or adjacent to existing or proposed concrete slabs, transverse joints shall be formed within the unit sand haunching adjacent to the slab joints and also longitudinal movement joints between the haunching and the slabs as described in the Contract. Where necessary, top block drainage opening shall be protected against the ingress of material during concreting operations by any method approved by the Engineer.

7. Outfalls and access covers shall be constructed in accordance with manufacturers specification using the appropriate type of base block or top block as specified in the Contract. Blocks shall be bedded on sufficient 3:1 mortar over a gully pot or vertical pipe where specified to make a watertight joint. Where necessary insitu smooth concrete benching shall be shaped to the full depth of the base block.

8. Insitu concrete haunching or surround shall not be placed until the installed units have been inspected and approved by the Engineer. The haunching/surrounding shall be carried out as one operation to complete lines of top and base blocks. Any areas of overdig which cannot be filled with acceptable material and adequately compacted by mechanical means shall be backfilled with grade 20/19 MPa concrete. The finished shape to the top of the concrete haunching shall be as described in the Contract.

9. Adjacent carriageway and/or footway construction shall not be commenced within 3 days of any jointing or haunching/surrounding concrete being placed. Base blocks and outfalls not covered by fully bedded top blocks shall be adequately supported against loadings imposed by construction traffic. Methods of protection shall be agreed with the Engineer.

10. On completion of the works the Beany Block systems shall be cleaned and clear of obstructions to Engineers approval.



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