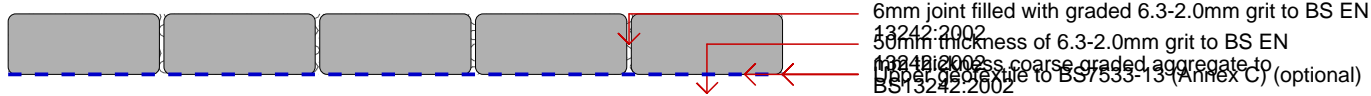


Preliminary Permeable Paving Design

Loading Category

Notes:

- 1) All dimensions in mm's unless otherwise specified.
- 2) All paving should be installed in accordance with BS 7533:Part 3 2005 by a competent paving contractor.
- 3) All aggregates should be installed in accordance with the material specifications table.
- 4) This section considers the structural requirements of the pavement only. No rainwater storage requirements are considered.



6mm joint filled with graded 6.3-2.0mm grit to BS EN 13242:2002
 50mm thickness of 6.3-2.0mm grit to BS EN 13242:2002
 100mm thickness coarse graded aggregate to BS 7533-13 (Annex C) (optional)
 BS 13242:2002

- 1. Subgrade CBR assumed to be >5%
- 2. Loading Category -

MATERIAL SPECIFICATION

Material	Specification
80mm permeable paver	BS1338:2003
50mm laying course of graded 6.3-2.0mm grit	BS13242:2002
Upper geotextile (optional)	BS 7533 Part 13 2009
Coarse graded aggregate	BS13242:2002

- (1) A permeable paving design relies heavily on using the correct aggregates. Prior to installation we would ask you to test both the 4/20mm coarse graded aggregate and also the graded 6.3-2.0mm bedding and jointing grit as per the relevant British Standards specification (BS EN 13242: 2002). In particular, the material should be categorised as LA20 according to Table 9, SZ18 according to Table 10 and MDE15 according to Table 11 within this standard. The grit should be insoluble in dilute hydrochloric acid and should be naturally occurring material. In our experience, incorrect use of the aggregate is one of the most common reasons for failure of a permeable paving design.
- (2) All joints must be filled to the top with 6.3-2.0mm grit. There must be a minimum joint width of 7mm between adjacent blocks to ensure that the joint may be fully filled. Joints which are not fully filled can lead to possible movement of the blocks after use. We recommend that after a few weeks use that any joints, which have settled and are not full, are topped up with grit. Joints should be kept filled at all times. You will need approximately 1 ton of grit for every 100m² of 80mm paving.
- (3) The area of voids in the paved surface should exceed 6% of the total paved area to ensure sufficient ingress of water. Care should be taken that the permeable joints do not become contaminated as work on the scheme is completed. Special care needs to be taken when soft landscaping is carried out so that soil does not enter the joints.



Designed:		Date:		Project Title:	Drawing Title: Pavement Section	
Drawn: WEB		Date: 29/02/24		Client:	Scale: NTS	Project No: TBC
Approved:		Date:			Drawing No: N.A.	Revision: 0

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