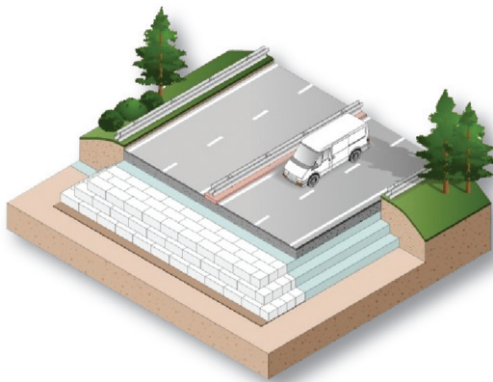




EPS

STRUCTURAL FILL BLOCKS

Product Briefing & Installation Guide



Road construction example

Sundolitt EPS structural fill blocks have a high strength to weight ratio without imposing pressures on existing ground and sub soil services.

Sundolitt EPS has been awarded the highest possible rating A+ by BRE Green guide to specification.

- Structural blocks are manufactured in compliance with BS EN 14933
- All products are accredited to BS EN ISO 9001 and ISO 14001 certification.

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Serving the Construction Industry



EPS

STRUCTURAL FILL BLOCKS



Product Data

Reference	Density* kg/m ³	Compressive Stress @ 10% strain kPa	Compressive stress @ 1% Strain kPa	Standard Block Dimensions** Length x Width x Thickness
S70	15	70	20	2400 x 1200 x 500mm
S100	18	100	40	2400 x 1200 x 500mm
S150	23.5	150	70	2400 x 1200 x 500mm
S200	30	200	90	2400 x 1200 x 500mm
S250	35	250	100	2400 x 1200 x 500mm
S300	38	300	120	2400 x 1200 x 500mm
S350	43	350	140	2400 x 1200 x 500mm

1. INSTALLATION GUIDELINES

Construction of the embankment should proceed as follows:

2. LEVELLING COURSE

Sundolitt Structural Fill blocks are placed on a levelling course consisting of a layer of compacted sand to a maximum thickness of 100mm. This course should be laid to a level tolerance not exceeding ± 10 mm over any 3m length. On sites which have very soft foundations, a geotextile layer may be placed on top of the soft soil before the sand fill. This prevents the sand from being 'punched' into the soil.

3. LAYING THE BLOCKS

Blocks in each layer should be laid with broken joints. There should be no vertical or horizontal joints running through the construction. There is no need to compact the blocks during construction.

The coefficient of friction (μ) between adjacent blocks can be taken as 0.5; this is normally sufficient to prevent any slippage or movement.

When required, for example at the edges of the embankment, a positive fixing can be obtained by driving 12mm diameter reinforcing bars down through the layers. The final profile of the side slope will depend on the properties of the soil used. Where soil conditions restrict the available space for an embankment, a range of techniques is now available for constructing steep sides or vertical faces.

4. CUTTING

Blocks which require trimming can be easily cut using a hot-wire cutter or handsaw.

5. PROTECTION

The Sundolitt Structural Fill Blocks should be protected from contact with petroleum or solvents by using a suitable polymer barrier, where necessary.

6. FILL OR CAPPING LAYER

The final fill should be placed over the Sundolitt structural fill blocks. Care should be taken not to puncture any membrane. No construction plant, other than compaction equipment, should be driven across, or placed on the structural fill blocks until there is a minimum cover of 200mm of acceptable fill material, or until the capping layer has been placed.

Vibratory compaction plant should not be used within 500mm vertically, or 2m laterally, of the fill blocks.

7. COVER

The sides of the fill blocks should be covered with general fill and compacted in layers. The sides should be graded and covered with top soil. The minimum cover should be 300mm.

* all values are nominal

** other thicknesses are available

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