

Filcor EPS Data Sheet



Filcor EPS (Expanded Polystyrene) is increasingly being specified for an ever-growing range of applications. The most common applications include use as a lightweight structural fill alternative to more traditional fill materials or as a lightweight void former in structural concrete.

The versatility of Filcor EPS means that any shape, size or profile can be manufactured with relatively short lead times. In addition, a range of materials of increasing compressive strengths are available to meet the loading requirements of the application, whilst also providing the most cost effective solution.

Key Features

- A range of compressive strengths available
- Lightweight and easy to handle
- Available as standard sheets or blocks
- Can be profiled to customer requirements
- Provides a high degree of insulation
- Fire retardant version available

Installation

The procedure for installing Filcor EPS sheets/blocks is straightforward but the following points should be adhered to:

- Filcor EPS should be positioned on a firm level surface, with joints between individual sheets/blocks, staggered where possible.

- If the depth of Filcor EPS required exceeds the maximum individual sheet/block depth of 1200mm, then further layers can be added to achieve the total depth required. It is suggested that each layer is installed perpendicular to the previous one in order to distribute load as equally as possible.
- Where there is a requirement to cut the Filcor EPS sheets/blocks, this can be carried out using a fine toothed saw, or alternatively a hot wire cutter for which Cordek offer a hire service.

Storage & Handling

All products are clearly labelled prior to delivery, with thin sheets (less than 200mm thick) wrapped in a protective polythene cover. Individual sheets/blocks can be manually handled and offloaded upon delivery, depending on their weight – please consult the table on the following page for the unit weight of each Filcor EPS grade.

Due to the relatively light nature of the product, all Filcor EPS sheets/blocks should be weighted down or secured (should they be stored outside prior to installation). No further storage requirements are needed as the product is unaffected by both UV light and water.

For further information, please contact the Cordek technical team on 01403 799600, techsupport@cordek.com or consult our website at www.cordek.com.



Product Size

Standard sheet/block 2400mm long x 1200mm wide x required depth*

*Each Filcor EPS sheet/block can be manufactured to the required depth, with a minimum depth of 25mm and a maximum depth 1200mm.

Physical Properties:

	GRADE								
	Filcor 20	Filcor 45	Filcor 70	Filcor 90	Filcor 100	Filcor 120	Filcor 140	Filcor 160	Filcor 190
Manufactured BS EN 13163:2001									
Physical Properties									
Compressive Strength at 1% Strain (kPa)	20	45	70	90	100	120	140	160	190
Nominal Density (kg/m ³)	15	20	25	30	35	40	45	50	55
Thermal Conductivity Value +W/m K	0.038	0.036	0.035	0.034	0.033	0.033	0.032	0.032	0.032
Other Data									
Max Depth of Concrete (assumed 25kN/m ²) to not exceed Compressive Strength at 1% strain (mm)	800	1800	2800	3600	4000	4800	5600	6400	7600

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