

# Baumit StarTherm F Plus Grey

## EPS Insulation Board

### General Information



- Dimensionally stable
- High thermal insulation
- Easy to install

#### Product Overview

Thermal insulating boards made from blocks of expanded polystyrene beads. System component of the Baumit External Wall Insulation System EPS. Tested according to EN 13163 and ETAG 004.

#### Use

- For new and old buildings up to high-rise limit.
- For the splash zone, we recommend using Baumit XPS TOP perimeter insulation board.

#### Properties

- Highly thermally insulating, dimensionally exact, form retentive and resistant to ageing, non-shrinking, hardly flammable.
- Free of CFCs, HCFCs and HFCs.

#### Composition

Expanded polystyrene beads.

### Technical Data

<b>Product type:</b>	EPS-F according to Austrian standard ÖNORM B 6000
<b>Colour:</b>	Silver grey
<b>Designation code:</b>	EPS-EN 13163-L1-W2-T2-S2-P4- DS(N)2-DS(70,-)1-TR150-BS100
<b>Apparent density:</b>	approx. 15 - 18 kg/m <sup>3</sup>
<b>Transverse tensile strength</b>	≥ 150 kPa
<b>Coefficient of thermal conductivity λD:</b>	0.031 W/mK
<b>Coefficient of vapour diffusion resistance μ:</b>	60 approx.
<b>Board size:</b>	1000 x 500 mm
<b>Reaction to fire:</b>	E (Euro class) in accordance with DIN EN 13501 – 1:2010

#### Health & Safety

Not subject to labelling requirements.

#### Substrate

The background must be clean, dry and free from frost and dust, not water repellent, free from efflorescence, able to support the insulation system and be free of loose particles. The background condition and flatness must be inspected according to the guidance set out in the Baumit EWI Installation Guidelines.


#### Quality Assurance

In house monitoring through our own laboratories. Third party inspection is carried out through a certified body.

#### Storage

Store in dry conditions and protect from UV radiation (direct sunlight), moisture and mechanical damage.

Packaging									
Thickness* [mm]	50	60	80	100	120	140	160	180	200
Boards per pack	10	8	6	5	4	3	3	3	2
M2 per pack	5.0	4.0	3.0	2.5	2.0	1.5	1.5	1.5	1.0



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## ■ Application

### **Splash zone:**

The bottom edge of the insulation system must be sealed tight to the substrate. Baumit perimeter insulation board XPS TOP must be used for areas within and below the splash zone (min. 300 mm above finished ground level).

Use the base profile Baumit SockelProfil Therm where the insulation system starts at or above the DPC line to protect and seal the bottom edge of the system. The base profile may not be installed below the DPC line or at ground level. Refer to the Product Data Sheet for fixing instructions.

### **Fitting the insulation boards:**

Generally only full insulation boards should be used rising up from the bottom row, fitted tightly together with a staggered bond between rows. Board off-cuts (min. 150 mm lengths) may be used in the main wall areas but not at building corners or openings. Care must be taken to ensure that the board surfaces sit flush. The board joints must be free of gaps and adhesive. The corner of an insulation board must not meet the corner of an opening (cross joint). Each row of boards must form an overlap (toothed joint) to the board depth at building corners. Only full and half boards may be used here.

Gaps < 4 mm which may occur in the board joints may be filled with Baumit FüllSchaum B1 expanding foam.

### **Adhesive application:**

A 50mm wide strip of Baumit StarContact is applied around the perimeter face of the insulation board and 3 equally spaced hand-sized adhesive dabs through the centre line. The adhesive layer must be 10 - 20 mm thick and provide a bonding contact of at least 40%. Deviations in the background flatness of up to +/- 10 mm can be accommodated in the adhesive layer.

### **Fixing anchors:**

The Baumit StarTherm F Plus Grey facade insulation boards may require fixing anchors. The number and type of fixing anchors is determined by loading calculations.

Please refer to Baumit for details of suitable fixing anchors.

### **Basecoat and reinforcement:**

After sufficient hardening of the adhesive layer the insulation boards can be sanded down and the dust removed. Baumit StarContact is applied to the boards with a stainless steel notched trowel (10 mm notches).

Continuous sheets of Baumit StarTex reinforcing mesh are placed onto the Baumit StarContact, free of creases and with 100 mm overlapping edges. A further 1-2mm of Baumit StarContact is applied wet on wet over the embedded Baumit StarTex reinforcing mesh. The Baumit StarTex reinforcing mesh must be covered with at least 1 mm (0.5 – 3 mm max. at the overlapping edges) of Baumit StarContact. Excessive trowelling is to be avoided. Trowel lines are to be removed after hardening. The overall basecoat thickness must be from 3 – 6 mm.

### **Topcoat renders:**

Refer to the relevant Baumit Product Data Sheet for information regarding Baumit topcoats.

In addition to the quoted standards, the current guidelines for installing External Wall Insulation Systems must be observed!

## ■ General Information

The air, material and background temperature must be above +5° C during application and curing. Protect the facade from direct sunlight, rain and strong winds (i.e. with scaffold nets). High air humidity and low temperatures can prolong drying times considerably.

Facade insulation boards which have been exposed to UV radiation (sunlight) for more than 2 weeks (yellowing of the board surfaces) must be sanded down and the dust removed before application of the basecoat render.

Our recommendations for applications which we give to support the purchasers/handlers from our experience, corresponds to current science and practice. The advice is non-binding, and forms no contractual, legal relationship and no additional obligations in the purchase contract. The advice does not release the purchaser from examining our products for their suitability for their foreseen uses. The general rules of construction equipment must be adhered to. We reserve the right to make changes which serve to provide technical progress and improve the product or its use. When such technical information appears, earlier information is no longer valid. You can find the most current information on our Internet pages. Only our current sales and supply conditions as well as provisions for the placement and use of our silos and mixing facilities apply for all business cases.