



THERMOMAX® FPM

PVC Decorative Groove Profile with Mesh

Product Description

THERMOMAX® FPM is a PVC decorative groove profile with alkali-resistant glass-fibre mesh. It is used in external thermal insulation composite systems (ETICS) in decorative grooves cut into the insulation boards.

Fields of Application

- For horizontal and vertical decorative groove lines in external thermal insulation composite systems (ETICS)
- At floor levels, window levels and façade divisions
- On EPS and XPS boards

Advantages

- Creates a straight, sharp groove line of uniform width
- The factory-attached mesh keeps the render reinforcement continuous along the groove
- Prevents cracking at the groove edges
- PVC does not rust and leaves no rust stains on the façade
- Easy to cut and install; no need to true the groove edges by hand

Technical Properties

General Information	
Profile material	PVC
Groove cross-section (width × depth)	30 × 20 mm 50 × 20 mm
Mesh	Alkali-resistant glass-fibre mesh
Profile length	2.5 m
Performance Data	
Service temperature	−40°C / +80°C
Corrosion resistance	PVC; does not rust
Application Data	
Installation sequence	After anchoring and cutting the groove, before the main reinforcing mesh
Overlap with main mesh	Profile mesh fully covered
Consumption	Equal to groove length (m/m)

The technical values stated were obtained at an ambient temperature of +23°C and 50% relative humidity.

Product Types

Product name	Groove width	Groove depth	Profile length
THERMOMAX® FPM 30	30 mm	20 mm	2.5 m

Product name	Groove width	Groove depth	Profile length
THERMOMAX® FPM 50	50 mm	20 mm	2.5 m

Application Instructions

Cutting the Groove

Decorative grooves are cut after the insulation boards have been bonded and anchored. The groove lines are marked on the façade with a chalk line or laser. The groove is cut with a hot-wire cutter or groove router to the width and depth of the profile; the groove edges must be straight and sharp. Board joints must not coincide with the groove. The board thickness must be chosen so that, after deducting the groove depth, the thickness required by the thermal insulation design is still achieved. The groove must be cleaned of dust before application. Cutting grooves in mineral wool boards is not recommended.

Installing the Profile

THERMOMAX® PLAST 65 is applied inside the groove and along its edges over the width of the profile's mesh wings. The profile is placed in the groove and pressed in until it sits fully on the bottom. The mesh wings are embedded in the render with a trowel, and excess render is drawn over the mesh. Profiles are butted end to end without gaps, and the mesh wings are overlapped where profiles meet. Where horizontal and vertical grooves intersect, the profiles are mitred and joined.

Base Coat and Mesh Application

The base coat and THERMOMAX® RM 160 reinforcing mesh are brought up to the edge of the groove, without being pressed into it, so that the mesh wings of the groove profile are fully covered. The inner face of the groove profile is covered with a thin layer of render. In the decorative finish, the inside of the groove may be coated with a suitable façade finish in the same colour as the façade or a contrasting colour.

Storage Conditions and Shelf Life

Store in the original packaging in a dry, cool place, protected from direct sunlight. Store the profiles flat on a level surface so that they do not bend and the mesh is not damaged, and do not place heavy loads on them. PVC profiles left in the sun for long periods may become brittle. When stored correctly, the shelf life is unlimited; products from opened packaging that have been exposed to sunlight must be checked before use.

Safety Precautions

Take care with sharp edges produced when cutting the profiles and wear protective gloves. The glass-fibre mesh may cause itching and irritation on contact with bare skin; wear long-sleeved work clothing during application. Do not use broken or deformed profiles or profiles with damaged mesh. Store out of reach of children.

Liability

Our company is responsible only for the quality of the product. Any use of the product outside the scope of the written technical recommendations, including incorrect application or use under unsuitable conditions, is entirely the responsibility of the user. For further technical information, please refer to the product catalogue or contact our representatives.

Packaging

Profiles 2.5 m long, supplied in packs

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