

weber.therm XM

expomesh



Lightweight external wall insulation system incorporating thin-coat polymer render and meshcloth reinforcement

About this product

weber.therm XM is a high performance external wall insulation system protected by meshcloth reinforced polymer renders.

weber.therm XM systems have BBA approval covering various types of insulation and many render finishes.

Technical data

weber.therm XM external wall insulation systems

Insulation Board	Reinforcement	Fixing	1st Coat	2nd Coat	Finish
polymesh Expanded polystyrene	Meshcloth	weber.rend LAC	weber.rend LAC	weber.rend PTC	Dry dash Scrape textured Primer and Synthetic finish
				weber.rend PTS or N/A (6 – 8mm)	
fibremesh Mineral fibre - slab	Meshcloth	Mechanical	weber.rend LAC	weber.rend PTC	Dry dash Scrape textured Primer and Synthetic finish
				weber.rend PTS or N/A (6 – 8mm)	
lamellamesh Mineral fibre - lamella	Meshcloth	weber.rend LAC	weber.rend LAC	N/A	Primer and Synthetic finish
K mesh Phenolic foam	Meshcloth	Mechanical or weber.rend LAC	weber.rend LAC	weber.rend PTC	Dry dash Scrape textured Primer and Synthetic finish
				weber.rend PTS or N/A (6 – 8mm)	

Uses

- Extends the life of existing buildings by keeping the old structure warm and stable
- Facilitates the decoration and re-modelling of existing, tired facades
- Simplifies wall construction within the new build sector

Constraints

The quality of application of these materials depends on suitable operative skills and product familiarity.

Restrictions on weather conditions during application and curing must be respected.

Sound trade practices and printed instructions must be followed.

Good access and appropriate protection must be provided.

Products required

The following products are used in the **weber.therm XM** system. Details on their application can be found on the relevant page of this Guide, or by requesting the appropriate Data Sheet.

Page	Product	Data Sheet	Page	Product	Data Sheet
222	weber.CL150	G.012	204	weber.rend PTS	7.508
206	weber.rend stipple	7.203	226	weber.PR310	G.014
214	weber.rend TUC	7.501	186	weber.plast TF/DF	7.403
194	weber.rend LAC	7.202	180	weber.sil TF	7.410
208	weber.rend PTC	7.504	182	weber.plast P	7.402

Materials

Beads, trims and flashings

Full system beads are available in polyester powder coated galvanised mild steel, grade 304 austenitic stainless steel or aluminium in 3 m and 2.5 m lengths.

Render only beads are available in coated galvanised, stainless, coated aluminium or rigid plastic in 3 m and 2.5 m lengths.

Trims and flashings such as overcills and copings, are available in PPC aluminium in 2.5 m lengths or made to order.

Insulation

Rigid insulation boards are supplied from the following range:

EPS Expanded polystyrene

Grade	SD/FRA
Density	15 kg/m ³
Size	1220 x 610
Thickness	30 – 200 mm

MF Mineral fibre – slab

Grade	CFC-free
Density	115 kg/m ³
Size	1200 x 600
Thickness	30 – 140 mm

MF Mineral fibre – lamella

Grade	CFC-free
Density	95 kg/m ³
Size	1000 x 200
Thickness	30 – 200 mm

PH Phenolic foam

Grade	CFC-free
Density	40 kg/m ³
Size	1200 x 600
Thickness	0 – 100 mm

Meshcloth

Balanced, open weave, alkaline resistant glass fibre meshcloth is available in the following grades:

Standard duty

Weight	160 g/m ²
Mesh dimension	3.5 x 3.5 mm
Size	1m x 50m roll

Heavy duty

Weight	480g/m ²
Mesh dimension	5.5 x 5.5 mm
Size	1m x 25m roll

Fixings

When required, a wide range of fixings are available to accommodate all insulant thicknesses and substrate types. Fixings are specified on a project by project basis and pull-out values are established to ensure the EWI systems are securely fixed back to the substrate.

Undercoat

weber.rend LAC is a factory batched mortar for bonding/bedding and scrimming within the meshcloth systems.

Top coats

Where specified, coloured polymer top coats are available for use as a background for dry dash, a scraped textured finish, or a smooth float finish for synthetic textured coatings.

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Features and benefits

- ▲ Provides efficient thermal insulation for refurbishment and new build projects
- ▲ Comprehensive range of colours and textures enable the creation of striking visual effects
- ▲ Has a high performance water shedding range of finishes to protect the building fabric
- ▲ Low K-value insulants allow thinner insulation to be used, or higher standards to be achieved
- ▲ Eliminates interstitial condensation by creating a 'warm wall' construction
- ▲ Suitable for, and effective on most buildings - including lightweight steel frame structures and in-fill panels
- ▲ Supported by comprehensive technical and architectural services
- ▲ BBA approved certificate no. 91/2600 with Irish Building Regulations Statement



Preparation

Existing rendered substrates

Hammer test and remove all areas of loose, 'bossed' render.

Treat surfaces with **weber.CL150**, a biocidal wash, to remove any traces of organic growth.

Make good surface using **weber.rend stipple** and **weber.rend TUC** or **weber.rend PUC**.

New build masonry or frame structure

Ensure all surfaces are clean, in-plane and of adequate thickness to provide appropriate support and stiffness without deflection or edge protrusions.

Application

Fix base and other full system beads as specified.

Fix the insulation and render only beads (if specified) as described in the System Specification Sheet or relevant project documentation.

Mix and apply **weber.rend LAC**, lay-in meshcloth and apply a further layer of mortar as directed.

Mix and apply the **weber.rend PTC** as directed to achieve the desired finish.

Where a synthetic finish is required, apply the relevant primer to the top coat or meshcloth coat, prior to the application of the selected textured coating.

Technical support and advice

During the planning stages of a project, advice should be sought from **weber** technical staff.

Advice based on technical expertise together with unrivalled practical experience is freely available and covers:

Design: assistance with the selection of the appropriate system, including working details and U-value calculations.

Pre-Contract Documentation: specifications, typical details, method statements.

Contract Documentation: site packages, available through the specialist contractor. These include approved details, specification and site procedures.

