

Thick coat external wall insulation system incorporating expanded metal lath

weber.therm XL

expolath



About this product

weber.therm XL is a high performance external wall insulation system incorporating expanded metal lath and traditional or polymer modified render.

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

Technical data

weber.therm XL external wall insulation systems

Insulation Board	Reinforcement	Fixing	1st Coat	2nd Coat	Finish
EPS Expanded polystyrene	Metal lath – Ferritic stainless	Mechanical	weber.rend TUC or weber.rend PUC 10 – 12 mm	weber.rend TTC 6 – 8 mm	Dry dash Scraped texture Primer and Synthetic finish
XPS Extruded polystyrene	Metal lath – Ferritic stainless	Mechanical	weber.rend TUC or weber.rend PUC 10 – 12 mm	weber.rend TTC 6 – 8 mm	Dry dash Primer weber.plast P
MFS Mineral fibre	Metal lath – Ferritic stainless	Mechanical	weber.rend MFU 10 – 12 mm	weber.rend TTC 6 – 8 mm	Dry dash Scraped texture Primer and Synthetic finish
PHS Phenolic foam	Metal lath – Ferritic stainless	Mechanical	Undercoat – weber.rend POC 15 mm min.	N/A	Primer weber.plast TF or weber.plast DF

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.

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
- ▲ Particularly suited to high rise applications and for areas where high impact resistance is required
- ▲ Eliminates interstitial condensation by creating a 'warm wall' construction
- ▲ High strength mechanical fixings allow application to existing 'suspect' or friable surfaces
- ▲ Supported by comprehensive technical and architectural services
- ▲ BBA approved certificate no. 91/2600 with Irish Building Regulations Statement

weber.therm XL

Products required

The following products are used in the **weber.therm XL** 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
325	weber CL150	G.012	191	weber.render TTS	7.507
155	weber.render stipple	7.203	327	weber PR310	G.014
181	weber.render TUC	7.501	173	weber.plast TF/DF	7.403
185	weber.render PUC	7.503	175	weber.sil TF	7.410
197	weber.render POC	7.511	171	weber.plast P	7.402
183	weber.render TTC	7.502	221	weber PR320	7.903

Materials

Beads, trims and flashings

Full system and render only beads are available in polyester powder coated galvanised mild steel or grade 304 austenitic stainless steel 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:

Coated EPS Expanded polystyrene – slab

Grade	SD/FRA. CFC/HCFC-free
Density	15 kg/m ³
Size	1220 x 610
Thickness	30 – 140 mm

Coated XPS Extruded polystyrene – slab

Grade	UHD Type A. HCFC-free
Density	30 kg/m ³
Size	1220 x 600
Thickness	30 – 100 mm

MFS Mineral fibre – slab

Grade	CFC/HCFC-free
Density	115 kg/m ³
Size	1000 x 500
Thickness	30 – 140 mm

PHS Phenolic foam – slab

Grade	CFC/HCFC-free
Density	40 kg/m ³
Size	1200 x 600
Thickness	30 – 70mm

Metal lath

Expanded metal lath is available in the following:

Ferritic stainless steel

Grade	430S
Weight	0.8 kg/m ²
Size	2440 x 1220
Mesh opening	50 x 20 mm

Fixings

A wide range is 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 system is securely fixed back to the substrate.

Undercoat

Traditional and polymer-modified undercoats are factory batched cement based mortars.

Top coats

Coloured 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.

Preparation

Existing rendered substrates

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

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

Make good surface using **weber.render stipple** and **weber.render TUC** or **weber.render 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, render only beads (if specified) and lath as described in the System Specification Sheet or relevant project documentation.

Mix and apply the appropriate undercoat to the specified thickness.

Mix and apply the top coat as directed to achieve the desired finish.

Where an additional synthetic finish is required, apply the relevant primer 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.

Technical services

weber's Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

Technical helpline

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