

Thick coat external wall insulation system incorporating expanded metal lath

weber.therm XL



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
- ▲ NSAI approved certificate no. 07/0295



weber.therm XL

Product/system options

The following product options can be used in the **weber.therm XL** system. Details on their application can be found on the relevant page of the **Weber Render Solutions** handbook, or by requesting the appropriate Data Sheet.

Page	Product	Data Sheet	Page	Product	Data Sheet
216	weber CL150	G.012	182	weber.rend TTS	7.507
202	weber.rend stipple	7.203	220	weber PR310	G.014
210	weber.rend TUC	7.501	180	weber.plast TF/DF	7.403
206	weber.rend PUC	7.503	174	weber.sil TF	7.410
190	weber.rend MFU	7.509	176	weber.plast P	7.402
208	weber.rend TTC	7.502	178	weber.sil P	7.420

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 mm
Thickness	30 – 140 mm

Coated XPS Extruded polystyrene – slab

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

MFD Mineral fibre – slab

Grade	CFC/HCFC-free
Density	160/100 kg/m ³
Size	1200 x 600 mm
Thickness	30 – 140 mm

PHS Phenolic foam – slab

Grade	CFC/HCFC-free
Density	40 kg/m ³
Size	1200 x 600 mm
Thickness	30 – 140 mm

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 mm
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 EWl 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.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, 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.

Good practice

Do not apply mineral renders:

- If frost is forecast within 24 hours of use
- In damp/wet conditions
- In temperatures below 5°C or above 30°C
- On elevations in direct sunlight or where the substrate is hot

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.

To the best of our knowledge and belief, this information is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that he has consulted our latest literature.

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

Tel: 01525 722137
Fax: 01525 718988

Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. Please contact the relevant Customer Services Team below for all product orders and enquiries.

England and Wales

Tel: 08703 330070
Fax: 01525 718988

Scotland, Northern Ireland, Isle of Man, Republic of Ireland

Tel: 028 9335 2999
Fax: 028 9332 3232

Saint-Gobain Weber Ltd

Dickens House, Enterprise Way, Maulden Road, Flitwick, Bedford MK45 5BY, UK
Tel: 08703 330070 Fax: (01525) 718988 e-mail: mail@netweber.co.uk