Refresh, Renew & Restore

External Wall Insulation for Refurbishment
Over 40 years’ experience in the industry offers a great insight into how refurbishment schemes and projects work, not only to improve the aesthetic appeal and thermal efficiency of the properties but it is often the fundamental catalyst to the social regeneration for the area, and is paramount in promoting community activity, sustainability and health and wellbeing.

System-built non-traditional or traditional construction, low or high rise – Weber has a rich background of providing EWI systems for refurbishment projects with ‘hard-to-treat’ homes being renovated daily. Weber can make the process easy by offering an extensive variety of systems, full technical and sales back-up and an established installer network.

Because many properties require the repair of concrete structures before EWI systems can be installed, this guide also includes a section covering Weber’s concrete repair and protection solutions.

This guide provides information to tackle one of the most important issues facing our ageing housing stock.
Heat Loss in Non-Traditional and Solid Wall Housing

Over 30% of UK and Ireland housing stock have been built with solid walls – classed as ‘hard-to-treat’ because they cannot be thermally improved with the use of cavity wall insulation.

Unlike unfilled cavity wall homes which lose approximately 35% of heat through their walls, solid wall homes will lose as much as 45% heat through untreated walls. Any measures to make heating systems more efficient are made less effective as heat escapes through the external walls.

Solid wall properties generally fall into two main types – traditional construction, built with nine inch solid brickwork or non-traditional housing, constructed of systems using mainly precast concrete panels.

Weber External Wall Insulation is suitable for both traditional and non-traditional housing and can significantly lower heating bills and carbon emissions as well as revitalising the appearance of homes and the local area.

There are approximately two million properties in the UK which were built using non-traditional building methods, most of which were constructed between 1939 and the 1970’s and were built for speed and economy of construction and not for thermal efficiency.

The main building methods employed were either in-situ or precast concrete, metal or timber frame. Although most remain structurally sound, they are extremely poor at retaining warmth, resulting in problems with damp and condensation as well as high heating costs and carbon emissions.

Weber EWI systems have been installed on most non-traditional housing types. Technical advice can be given on the most appropriate systems for each housing type and on-site inspections can be made to ensure that the work is completed to specification. Weber has an extensive case study library including many non-traditional refurbishments schemes and these are available upon request.

All construction materials have a measure of their thermal conductivity (Lambda value), used together, various materials will determine the overall thermal transmittance of a wall, this is known as the U-value. The lower the U-value, the more thermally efficient the wall construction is.

A U-value will take into consideration the wall thickness & material and any render or insulation used – a typical solid wall (9 inch brickwork) used in a Victorian property has a U-value of 2.06 W/m²K.

Through the use of different insulation types and thicknesses in external wall systems, the thermal performance of a property can be dramatically improved and U-values of 0.30 W/m²K and below can be easily achieved. For indicative U-value calculations for typical structures please try our U-value Calculator which can be found on www.uk.weber. A full U-value calculation and condensation risk analysis service is available from Weber’s technical team, please contact +44 (0) 1525 788877 for more information.

### U-values Explained...

<table>
<thead>
<tr>
<th>Construction Type</th>
<th>Wall Construction</th>
<th>U-value</th>
<th>EPS Expanded Polystyrene</th>
<th>MFD Dual Density Mineral Fibre</th>
<th>PHS Phenolic</th>
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<tr>
<td>Cavity Construction</td>
<td>12mm plaster/20mm brick/ 50mm cavity/20mm brick</td>
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<td>12mm plaster/200mm No-Fines concrete</td>
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*200mm of MFD will achieve a U-value of 0.17W/m²K in these situations.

Notes
1. The insulation thickness shown has been calculated with the latest available Lambda (λ) values for the insulation material declared by the manufacturers at the time of going to print. 2. Calculations are based on generic components and need to be verified for any particular structure, components and system. It is essential that you should request specific calculations based on the actual materials to be used. 3. Lightweight steel frame figures do not allow for any insulation medium placed within the studwork.
Loss of heat from a home means that more money is being spent than necessary on heating bills. By reducing energy bills it means carbon emissions are also being reduced helping the environment too.

Adding insulation to a solid brick property can reduce annual heating bills by up to £460 according to research by the Energy Savings Trust but in addition to this, EWI systems will make the property warmer and weather-tight whilst a choice of colours and textures will enhance the appearance substantially.

The benefits of using EWI systems include...

- No loss of internal living space.
- Minimal disruption to the household as work is carried out to the outside walls.
- The risk of condensation within the wall structure and thermal bridging is eliminated.
- Lower U-values can be achieved by insulating externally rather than internal systems.
- Weatherproof, attractive, generally maintenance free exterior.
- Systems to meet individual house requirements with an extensive choice of colours.
- Range of finishes available to suit planning requirements i.e. brick finish.
- Work can be carried out alongside other trades such as window replacement and re-roofing.

Weber EWI systems have been awarded certification by the British Board of Agreement (BBA), National Standards Authority of Ireland (NSAI).

Weber provides full technical advice and application support, helping customers and clients to specify the right solution for each project. Weber fully supports the importance of training through in-house programmes and group academies across the UK and Ireland to ensure correct installation and application every time.

Weber manufactures all renders used in its EWI systems in the UK and Ireland from plants in three locations, thereby reducing transportation costs and carbon footprint when compared to systems using imported renders. It also ensures that product quality is maintained. Weber EWI systems carry a full 10 year product guarantee.

Over 40 years of experience in the EWI industry has given Weber a deep insight into the successful delivery of refurbishment projects and area based schemes. Weber understands what it takes to ensure thermal performance meets the technical specification and the finish significantly improves buildings’ aesthetic appeal. Weber also knows how to ensure, through promoting community activity and sustainability, that refurbishment projects provide a fundamental catalyst to an area’s social regeneration.

Homeowners, social and private landlords and housing associations are likely to be eligible for support through funding schemes and Weber can help in this process through established relationships with energy suppliers and managing agents to smooth the administration associated with applying for and securing funding.
**Choice of insulation and finish**

There are various types of insulation and finishes that can be used in conjunction with these different systems, the most popular include...

<table>
<thead>
<tr>
<th>System</th>
<th>webertherm XP</th>
<th>webertherm XM</th>
<th>webertherm FT</th>
<th>webertherm XB</th>
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</thead>
<tbody>
<tr>
<td><strong>Choice of insulant</strong></td>
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<tr>
<td>EPS (Expanded Polystyrene)</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>- Cost-effective</td>
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<td>- Graphite impregnated for greater thermal efficiency</td>
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<td>MFD (Mineral Wool)</td>
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<tr>
<td>- Non-combustible</td>
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<td>- Good acoustic properties</td>
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<tr>
<td>PHS (Phenolic)</td>
<td>✓</td>
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<tr>
<td>- Excellent thermal performance</td>
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<td>- Can be used where space is at a premium</td>
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| **Choice of finish** | | | | |
| Scraped Finish | ✓ | ✓ | ✓ | ✓ |
| Dry Dash | ✓ | ✓ | ✓ | ✓ |
| Brick/Brick Effect | ✓ | ✓ | ✓ | ✓ |
| Synthetic Finish | ✓ | ✓ | ✓ | ✓ |
| Light Ashlar Detailing | ✓ | ✓ | ✓ | ✓ |
| Spray Roughcast | ✓ | ✓ | ✓ | ✓ |

(1) Thick coat (over 12mm) systems only

(2) Render Brick Effect only

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**EWI Systems Explained**

External Wall Insulation is a thermally insulated, render protected, decorative exterior cladding which can be used to thermally improve and aesthetically transform solid wall masonry, system built non-traditional, low or high rise buildings.

**webertherm EWI Systems**

### webertherm XP

Versatility, speed and simplicity are the characteristics of webertherm XP, the one-coat mineral render system using glass fibre mesh reinforcement is suitable for machine or hand application. Unlike traditional multicoat systems, Weber’s expertise in mineral renders has resulted in a breakthrough concept – a one-coat, through-coloured mineral render which can be applied directly to all major insulation types.

### webertherm XM

webertherm XM is a lightweight, thin-coat, polymer render system using glass fibre mesh reinforcement, suitable for hand application. The first coat of render is 3mm and once cured a further 3mm of render can be applied and finished in a scraped texture or with dry dash aggregate. Alternatively primer and a simple synthetic finish can be applied directly on the cured base coat in an array of colours. The webertherm XM system (using mineral fibre insulation) is suitable for use on buildings over 18m having achieved an A2 Reaction to fire classification in accordance with BS EN13501.

### webertherm FT

Weber has developed a rail system to assist in the refurbishment of non-traditional housing types which do not have a level or flat substrate. The webertherm FT rails have been engineered to span thin precast panels, fixing directly into the concrete column structure. This avoids the risk of damage to the panels and ties from either direct fixing or overloading. The rails have been designed to support the EWI system and to be independent of the panel background.

### webertherm XB

webertherm XB is a system using authentic brick-slips which are attached directly to insulation and fixed using a high performance polymer mortar. The mortar joints are then recreated using weberrend BPM pointing mortar Special ‘pistol’ returns on corners provide the realistic brickwork effect.
Colours & Finishes

Weber has the widest available range of texture and colour finishes. Weber use mineral renders which are highly durable and suitable for the toughest weather conditions. Natural stone pastels, vibrant acrylic colours, dry dash aggregate tones, rendered brick appearance and authentic brick slips are all available with webertherm systems.

Scraped Texture

Mineral renders are extremely hard wearing and a wide range of colours and textures are available. Scraped textures provide a natural stone appearance and require no long term maintenance over the life of the system.

Spray Roughcast Texture

Mineral Renders can also provide a spray roughcast texture popular in South West England and Scotland.

Dry Dash Aggregate

Attractive dash aggregate finishes can be achieved through the use of different colour combinations of render and aggregate and are extremely hard wearing.

Coloured Synthetic Finish

If more vibrant colours are required the use of synthetic finishes with a light aggregate texture are recommended, a wide range of colours are available and can be selected from a colour card available on request.

Have you tried our online colour simulator?
Upload your own photo or use a library image to try different colour combinations. www.uk.weber

Brick Effect Finishes

Finishes to match or replace traditional brick work can either be achieved using specially produced brick slips or by using two coats of render to create a brick effect.

Synthetic Colour Range

Blueberry Crush
Stormy Seas
Crystal Blue
Powder Blue
Mediterranean Sky
Light Blue
Marine Breeze
Baja Blue
Iced Blue
Cornflower Blue
City Blue
Brittany Blue
Snowy Skies
Buenos Aires
Azure Blue
Sky Blue
Tokyo Blue
Aqua Bubble
Iced Water
Hooloovoo Blue
Synthetic Colour Range

Candyfloss
Cupcake
Carnival Red
Pink Earth
Pale Ash
Subtle Pink
Pearl
Flamingo Pink
Earth Red
Berry Smoothie
Palest Pink
Tea Rose
Tawny Owl
Gorgeous Grape
Iced Violet
Rose
Oyster Shell
Subtle Salmon
Roasted Chestnut
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Case Studies

Mixenden, Calderdale, Yorkshire

The 1,000-home thermal makeover programme in Mixenden consisted of wide mix of high and low rise non-traditional housing types including Airey, No Fines and Trusteel constructions. The application of webertherm XM EWI contributed to the energy efficiency of these homes while simultaneously transforming the external aesthetics of the housing stock.

The technical difficulty that this large project offered was the vast array of housing types – high rise and low rise and the assortment of non-traditional construction types which meant that each aspect of the project had varying specifications, installing applicators and their own design features and problems to overcome.

Extensive use of Dry Dash decorative aggregates was used due to the excellent hard wearing characteristics, proven longevity and very low maintenance of the finish. The Trusteel properties received the attractive weberrend RB system which achieves a convincing, multi-layer, brick-effect finish at a fraction of the cost of traditional brick, adding colour and texture to these rejuvenated buildings improving the poorest U-value of 2.15 W/m²K to a very comfortable 0.29 W/m²K.

L&Q, Lewisham

In the London Borough of Lewisham webertherm XM External Wall Insulation System was specified for the extensive refurbishment and thermal upgrade of apartment blocks on selected estates across the Forest Hill and Sydenham areas.

The application of webertherm XM has significantly rejuvenated the appearance of the properties and dramatically improved the thermal performance of these homes with a reduction in U-value to 0.30 W/m²K from the original 2.13 W/m²K.

Colour has played an important part in the project with balconies and fascia’s painted in a range of colours of webersil TF, a silicone based even-textured decorative finish, providing a durable and weather resistant, vapour permeable surface.

Essendon Lodge

The innovative one-coat, through-coloured webertherm XP External Wall Insulation (EWI) system has been used in the dramatic thermal and aesthetic upgrade of a mid 19th Century traditional estate lodge house.

The webertherm XP EWI system uses 60mm, high-density wall insulation panels mechanically fixed to the sound brick substrate. The architect and client called for the built-out base detail, and mid-floor feature band running around the façade, to be maintained when the new render coat was applied.

The webertherm M1 one-coat, through-coloured render was applied by machine and includes meshcloth reinforcement. The resulting finish enhances the attractive original design of the property whilst delivering a dramatic improvement to the thermal performance of the building.

DCC Headquarters - Leopardstown, Dublin

The corporate headquarters of DCC has received an attractive new appearance with the application of webertherm XP EWI system. Benefits include a significant reduction in energy consumption and greater efficiency in the building’s overhead. An impressive target U-value of 0.16 W/m²K was calculated from an earlier measurement of 0.27 W/m²K.

This striking building carries a number of attractive, raised architectural features around window and door openings and a specific requirement of the refurbishment brief was to highlight and accentuate these features while improving thermal efficiency in the building.

webertherm XP EWI was applied with a combination of Pearl Grey and Stone Grey finish which has enhanced the appearance of the building. The thermal performance was improved using 100mm thick EPS insulation and to retain the architectural features raised panels were created with 120mm thick EPS.

webertherm XM with Dry Dash finish and weberrend RB finish

Client: Pennine Housing, part of Together Housing Group
Contractor: Wates Living Space (East)
Applicator: Airey Facades LTD, Retrofit UK LTD
Architect: PRP Architects

webertherm XM with webersil TF finish

Client: L&Q
Specifier: Fairhorn Farrell Timms
Contractor: Mulalley & RR Richardson Ltd
Applicator: ECL Contracts

System: webertherm XM with Dry Dash finish and weberrend RB finish

Contractor: TRS (Trak Special Projects)
Applicator: McElhone & Sons Contracts Limited

System: webertherm XM with webersil TF finish

Architect: NPS Group
Contractor: Townlink Construction
Applicator: James Doran & Son

Before

After

Before

After

Before

After
**B/E Aerospace**

A 1970’s industrial office building in Northern Ireland has been dramatically transformed into a stylish and efficient 21st century office environment by the skilful application of webertherm XM EWI System.

The original building followed construction methods of the period with a brickwork plinth up to window cill height and a blockwork structure with wall cladding up to the flat roof fascia. Limited insulation had been integrated and the building was difficult and expensive to heat in winter. Nearly 400m² of webertherm XM EWI was applied to the B/E Aerospace building in a six week operation, improving the thermal efficiency substantially with the new visual appearance of the building much more in keeping with the modern, high technology company that operates from these premises.

**Holly Park – Islington, London**

Islington Council have worked to deliver a unique thermal upgrade programme to almost 300 hard-to-treat apartments that is estimated to save each tenant around £245 a year in energy costs.

The ten four-storey apartment blocks were built in the 1950’s using traditional London Red brick which local planners considered to be of heritage status. The combination of Weber systems and finishes installed at Holly Park has helped to retain the visual integrity of the building to the satisfaction of local planners whilst dramatically improving the thermal performance and overall aesthetics.

The solution was achieved with the application of webertherm XM EWI system with weberrend RB brick effect finish and weberplast TF textured synthetic finish.

**Dinnington - Rotherham**

The 88 properties in this project were built in the 1930s and were identified as hard to treat, some with solid walls and some with narrow cavities of varied dimensions. To achieve a target U-value of 0.28 W/m²K from 1.48 W/m²K, 80mm of EPS insulation has been fixed to the outer walls.

The original U-value was 1.13 W/m²K which has been improved to 0.29 W/m²K after application of EWI improving the thermal efficiency to the residents and greatly enhancing the aesthetics of the area.

**The Tower, Cwmbran**

The Tower, at 23-stories and the tallest building in Cwmbran, has undergone a dramatic upgrade in both thermal performance and aesthetics with the use of webertherm XM External Wall Insulation System. U-values have been substantially improved and, occupying a very focal position in the town, the 1960’s tower block now creates a colourful skyline.

The highly weather proof webersil TF, a silicone based, decorative finish has been used in a variety of colours and patterns to create a scheme led by the residents.

**System:** webertherm XM with webersil TF finish

**Client:** B/E Aerospace Inc

**Contractor:** Dunmore Construction

**Applicator:** M Clarke & Sons Contracts Limited

**The Tower, Cwmbran**

The original U-value was 1.13 W/m²K which has been improved to 0.29 W/m²K after application of EWI improving the thermal efficiency to the residents and greatly enhancing the aesthetics of the area.

**System:** webertherm XM with webersil TF finish

**Client:** Briant Athorn Community Housing

**Architect:** Pentan Partnership

**Main Contractor:** Seddon Construction Ltd

**Applicator:** FOZCS
Concrete Repair & Protection

Reinforced concrete used in some non-traditional properties can be a highly durable structural material requiring little or no maintenance. However, it is now recognised that without correct design, mixing, placement and curing, the durability of reinforced concrete may be impaired.

As the causes of concrete decay are better understood the repair of concrete structures has become a growth area in the construction industry.

The webercem range of proven specialist mortars and protective coatings for repairs to concrete in building structures and civil engineering meet BS EN1504 standard and Weber can offer a comprehensive advisory service to assist surveyors, structural engineers and architects to work within the stringent regulations.

Fron Fawr Housing, Blaenau Ffestiniog

These homes required essential remedial work to be carried out prior to the application of the external wall insulation system. Concrete repair was required due to corrosion leading to reinforcement corrosion and spalled concrete.

Weber’s concrete repair materials were used to repair the steel reinforced concrete lintels after new windows had been fitted and before external wall insulation was installed. Weber provided a full concrete repair specification and the damage was cut-out, steels treated and reparation was made with a hand applied repair mortar.

webertherm XP was installed to thermally improve the houses which were built with a narrow hard-to-treat cavity. The new exterior was finished with an attractive dry dash aggregate blend offering an aesthetically pleasing, hard wearing, low maintenance finish.

<table>
<thead>
<tr>
<th>No.</th>
<th>Problem</th>
<th>Possible Solution</th>
<th>Weber Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Many small areas of cracked and spalled concrete due to corrosion of reinforcement</td>
<td>Cut back to sound concrete, clean and prime steel, apply repair mortar, a levelling coat and a protective anti-carbonation coating</td>
<td>webercem concrete repair system</td>
</tr>
<tr>
<td>2</td>
<td>Spalled patches on concrete mullions showing exposed reinforcing bars</td>
<td>Cut out, prime steel and repair with cosmetic high-build mortar</td>
<td>webercem bondcoat &amp; webercem HB30</td>
</tr>
<tr>
<td>3</td>
<td>Spalled concrete soffits showing exposed reinforcing bars</td>
<td>Cut out, prime steel and repair with structural high-build mortar</td>
<td>webercem bondcoat &amp; webercem HB40</td>
</tr>
<tr>
<td>4</td>
<td>Cracks in floor slab, refer to Structural Engineer</td>
<td>On advice, if not structural, apply low viscosity penetrating sealer</td>
<td>webertec multisbond</td>
</tr>
<tr>
<td>5</td>
<td>Worn out nosings in staircases</td>
<td>Cut out and repair with Fast setting mortar</td>
<td>webertec mortar</td>
</tr>
<tr>
<td>6</td>
<td>Surface crazing on smooth concrete surfaces</td>
<td>Clean and coat with protective anti-carbonation elastomeric coating</td>
<td>webercote EC</td>
</tr>
<tr>
<td>7</td>
<td>Large areas of spalled concrete due to corrosion of reinforcement</td>
<td>Cut out, erect shuttering and pour flowing concrete</td>
<td>Five Star Repair Concrete</td>
</tr>
<tr>
<td>8</td>
<td>Blowholes and minor surface defect on precast concrete panels</td>
<td>Clean and apply a pore filler and levelling mortar</td>
<td>webercem fairing coat</td>
</tr>
</tbody>
</table>

NOTE: In all cases, please refer to the relevant data sheets before using the products.
Flooring Screeds and Tile Fixing

Complete building refurbishments will often require the preparation of floors ready for surface covering, whilst bathrooms and kitchens can quickly be refreshed with new tiling, offering both aesthetic and hygienic improvements. Weber supply solutions to help in these areas, offering technical and specification support where required.

Flooring Screeds

Ideal for renovation projects, Weber flooring screeds can dramatically reduce the complexity and labour involved in laying a new floor.

In the fast moving and dynamic construction environment, time is money. Floors need to be laid quickly and be available to other trades in the shortest time possible.

Product Range includes:
- High performance, fast-setting, rapid-drying, pumpable, self-smoothing floor screeds for solid and floating floors in commercial and residential building applications
- Hand applied screed for levelling and smoothing concrete substrates, repairs and renovation

Rapid Drying Products
- Saves valuable time and money
- Speed of application allows faster access for following trades
- Ready for foot traffic after only a few hours
- Some products can be covered with a soft floor covering in 24 hours

Tile Fixing

Easy-to-use, high performance tile adhesives, grouts and tanking systems for the professional tile fixer.

Products designed to meet the current trends in the market including tanking systems for wet rooms, flexible smoothing compounds for underfloor heating and high strength adhesives for large format tiles.

Ideal for renovation and refurbishment projects including high strength and high build adhesives for uneven walls and floors ensuring a strong bond on difficult substrates. Hand poured, self-smoothing flooring compounds suitable for levelling concrete and cement substrates up to 50mm thick. High levels of flexibility built in to absorb movement for when underfloor heating is being installed or when wooden flooring is present.

Prepit
Preparation products such as levelling compounds, primers and under-tile tanking system

Fixit
Ready-mixed ceramic wall tile adhesives for all situations

Setit
Cement-based tile adhesives offering a choice of setting times and levels of flexibility

Jointit
Product range includes mould-resistant tile grouts and silicone sealants in a wide choice of colours

Superior Product Performance
- Easy-to-use and technologically advanced levelling compounds and screeds
- Combines consistent and reliable drying characteristics with optimum strength and durability

UK Manufactured Products
- Ensures availability with quick and efficient lead times

Guarantees and Accreditation

Weber pride themselves on offering a comprehensive technical and applications support to clients, specifiers and contractors, including:
- Full specification service, to NBS standards, providing advice on the appropriate system to use, including all necessary components and render finishes
- U-value and condensation risk calculations to assess the thickness and type of insulation required and to give the assurance that the risk of interstitial condensation is eliminated
- Site Application Guide, full documentation outlining all stages in the installation of the relevant webertherm EWI system for use by installer, main contractors and clerk of works
- On-site inspections – regular visits by qualified Weber staff at key stages in the installation process to ensure work is carried out to specification
- CPDs – one hour seminars can be provided on the various EWI systems available and the problems associated with solid wall housing CPD’s also available for flooring, tiling and technical mortar systems
- Samples and site references – samples of webertherm systems are available on request and site references of completed schemes can be provided
- BIM Objects + technical drawings are available to download from our website www.uk.weber

Weber Service and Technical Support

Weber manage a list of contractors recommended for the installation of webertherm EWI systems.

Weber appreciates the importance of training and aims to bridge the skills divide by working closely with applicators.

To ensure that work is carried out to the highest standard, Weber manage a list of contractors recommended for the installation of webertherm EWI systems.

In line with PAS 2030 requirements, operatives are required to be assessed by each system manufacturer for all systems being used. Weber offers assessed courses for experienced operatives in order to achieve ‘Assessed Operative’ status and provide a route to NVQ Level 2 On-site Assessment.

Weber’s team of Application Managers are qualified to assess operatives on-site in the application of Weber systems and supply the relevant competency card.

Weber offers assessed courses for experienced operatives in order to achieve ‘Assessed Operative’ status and provide a route to NVQ Level 2 On-site Assessment.

Guarantees and Accreditation

Weber provides 10 year materials guarantee on all products, a joint materials and workmanship guarantee can also be arranged in conjunction with the installer. In line with industry requirements Weber work with SWIGA (The Solid Wall Insulation Guarantee Agency) and Kinnell ECO to offer a 25 year extended warranty and quality assurance framework.

webertherm EWI systems hold BBA and NSAI certification, giving assurance that the systems will perform over the life of the project. Guarantee details and third party accreditation certificates are available on www.uk.weber

Training and Operative Competence

In line with PAS 2030 requirements, operatives are required to be assessed by each system manufacturer for all systems being used. Weber offers assessed courses for experienced operatives in order to achieve ‘Assessed Operative’ status and provide a route to NVQ Level 2 On-site Assessment.

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Weber is a specialist in the manufacture of industrial mortar products and its core product range consists of external renders, technical mortars, tile fixing and floor screeds. Weber is an international business operating in over 54 countries worldwide.

Weber manufactures all of the renders used in its external wall insulation systems in the UK. Plants in three locations across the UK ensure that products are produced close to the markets they supply and that product quality is maintained throughout – essential to the overall performance of our systems.

Weber does not only sell products but the complete solution which includes the services that go with the products, technical support and training. Based on our strong knowledge and experience of the market, Weber training programmes meet the needs of our customers, providing specifiers, developers and contractors with substantial support before, during and after contract periods.

Another key competence of Weber is product innovation and this is clearly demonstrated in the development of systems such as webertherm XP which is a unique one-coat render system, offering versatility, speed and simplicity to the specifier and installer.

Weber provides complete documentation and technical data on its full range of products in the Weber handbooks and pocket guides. Contact us for more information or view or request copies online at www.uk.weber.

Weber is part of Saint-Gobain, the world leader in the habitat and construction market, creating and delivering innovative and high-performance solutions to enhance our habitat and our daily life.

As one of the world’s top 100 innovators, Saint-Gobain spends €400m a year on R&D globally, tackling some of the biggest challenges of our time. One in four products manufactured by Saint-Gobain did not exist 5 years ago.

Saint-Gobain’s global strategy is focused around meeting some of the fundamental challenges faced by the world today: reducing energy consumption, limiting our impact on the environment, and creating a new generation of buildings which are safe, comfortable and energy efficient.

Saint-Gobain in the UK and Ireland is committed to investing in training for the next generation of contractors and professionals, as well as supporting existing professionals looking to upskill. Our Technical Academy network has delivered more than 70,000 hours of training since 2011.

With an annual turnover of €41.8 billion, Saint-Gobain is present in 86 countries and employs over 180,000 people worldwide, including over 17,000 in the UK and Ireland. It was founded in 1665 to deliver a world first – the production of glass on an industrial scale – and has continued to grow its business via the ongoing development of new services, products and ways of working with customers.

In the UK and Ireland, some of the best known and respected companies in the construction sector are part of the Group, including British Gypsum, Isover, Glassolutions, Saint-Gobain Glass, Saint-Gobain PAM, Pasquill, Celotex and Ecophon. Together they offer a range of high performance, energy-saving products and solutions to help create a more sustainable built environment.