weber
SAINT-GOBAIN

We care about you and the places you care about...

Weber is a specialist in the manufacture of industrial mortar products, our core product range consists of external renders, decorative finishes, technical mortars, tile fixing and floor screeds.

This brochure has been produced to showcase some key case studies, offer inspiration and insight for your own projects and introduce you to the broad spectrum of Weber products available to the construction market.

Weber does not only sell products but the complete solution including services such as comprehensive training programmes, technical, specification and application support.

We provide architects, developers and contractors with support before, during and after contract periods.

- Innovative products
- Sustainable solutions
- Simplicity and speed
- Superior quality
- Technical expertise
- Trusted & green

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Pathfinder House, Huntingdon

Client: Huntingdon District Council

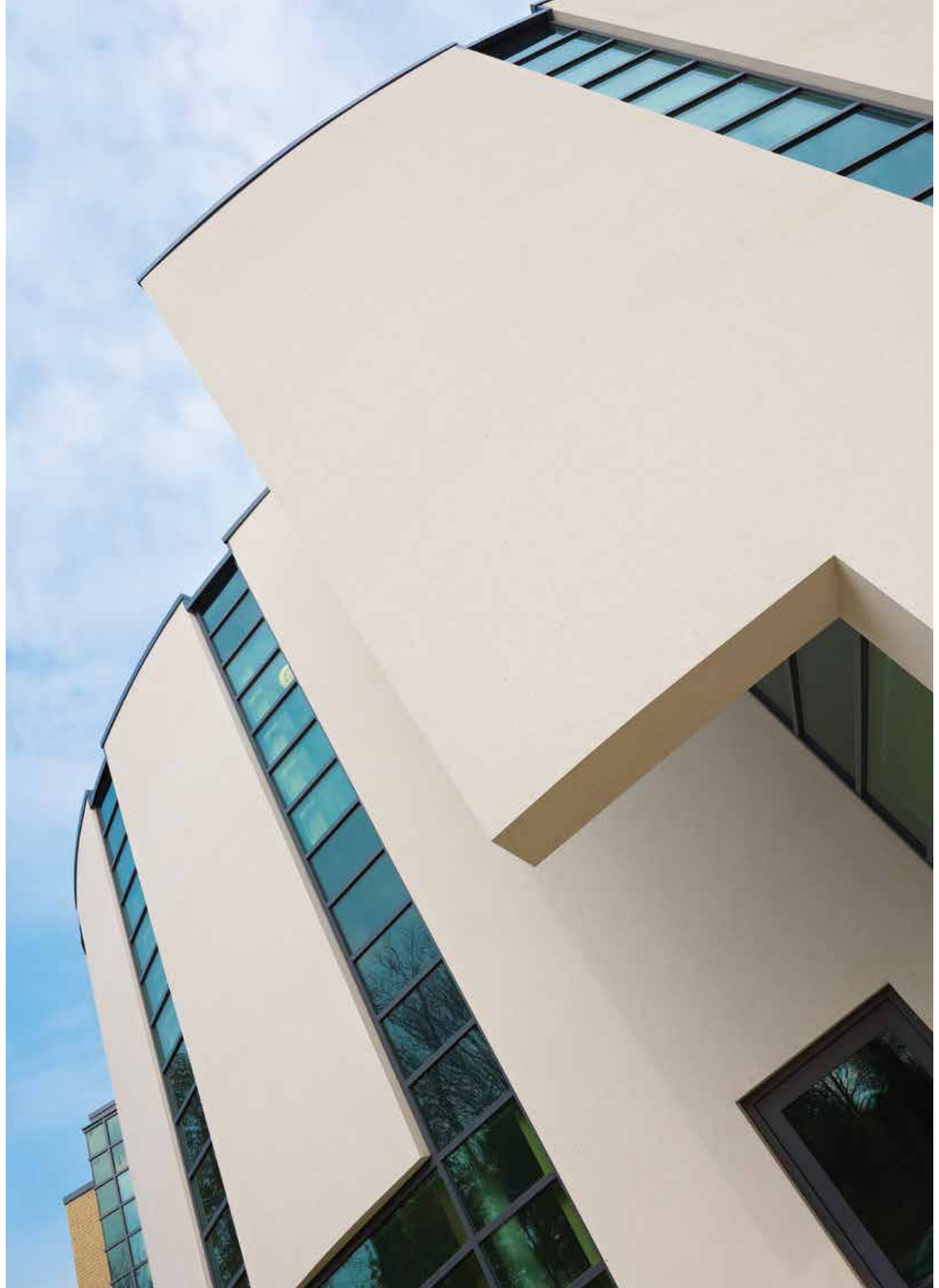
Architect/Contractor: SMC Corstorphine & Wright and Carillion Plc

Applicator: FPP Ltd
(Fink Projection Plastering)

System: weber.therm XP EWI

Pathfinder House is the iconic name for the original building in Huntingdon that in World War II housed the famous RAF Mosquito Pathfinder Squadron. Today, the title belongs to the new modern facility built to house Huntingdon District Council.

This project featured complex surface details and substantial areas of curved walling around the auditorium section of the building. **weber.therm XP** through-coloured render EWI system was used to coat the traditional blockwork construction providing a fast and economical installation whilst offering high thermal efficiency and an impressive contemporary finish.



Barking Apartments

Client: Grainger PLC

Contractor: Bouygues UK

Architect/Applicator: Chetwoods Architects and Clarke Facades

System: weber.therm XM EWI with **weber.plast TF** finish

1600m² of high performance **weber.therm XM** EWI system was specified for 100 new build apartments in this mixed use development. The regeneration scheme consisted of a new supermarket store; modern retail business units ideal for small or start-up businesses; a market square; town centre parking and residential units designed specifically for rent.

In new build schemes, insulating the external wall can be combined with simple and reliable modern methods of construction, providing cost effective, fast-track build programmes and attractive façades.

The ever increasing thermal requirement of building regulations can be met and exceeded by using high performance **weber.therm** EWI systems, this development achieved an impressive target U-value of 0.16W/m²K.

Fortescue Fields

Client: Bloor Homes

Architect: Adam Architecture

Contractor: Lochailort Ltd

Applicator: Burnham Plastering & Drylining Ltd

System: weber.pral M monocouche render

Inspirational properties in 'The Collection at Fortescue Fields', a new mixed development in the quaint and historic village of Norton St Philip feature **weber.pral M** monocouche render. The award winning development by Bloor Homes was designed by Professor Robert Adam of Adam Architecture who is a major figure in the development of traditional and classic architecture.

The development features a stunning collection of 38 individually styled homes designed to blend sympathetically with the local vernacular and has adopted a combination of styles and detailing. The attractive Georgian inspired architecture makes use of rendered façades in Ocre Rose, selected from a palette of 24 colours, enhanced with Bathstone, rubble stone or stone quoins. **weber.pral M** offers a variety of ways to achieve distinct, architectural features including ashlar detail which has been incorporated in some of the render finish at Fortescue Fields.

Woolley GMC Engineering

Client: Woolley GMC Engineering, Coventry

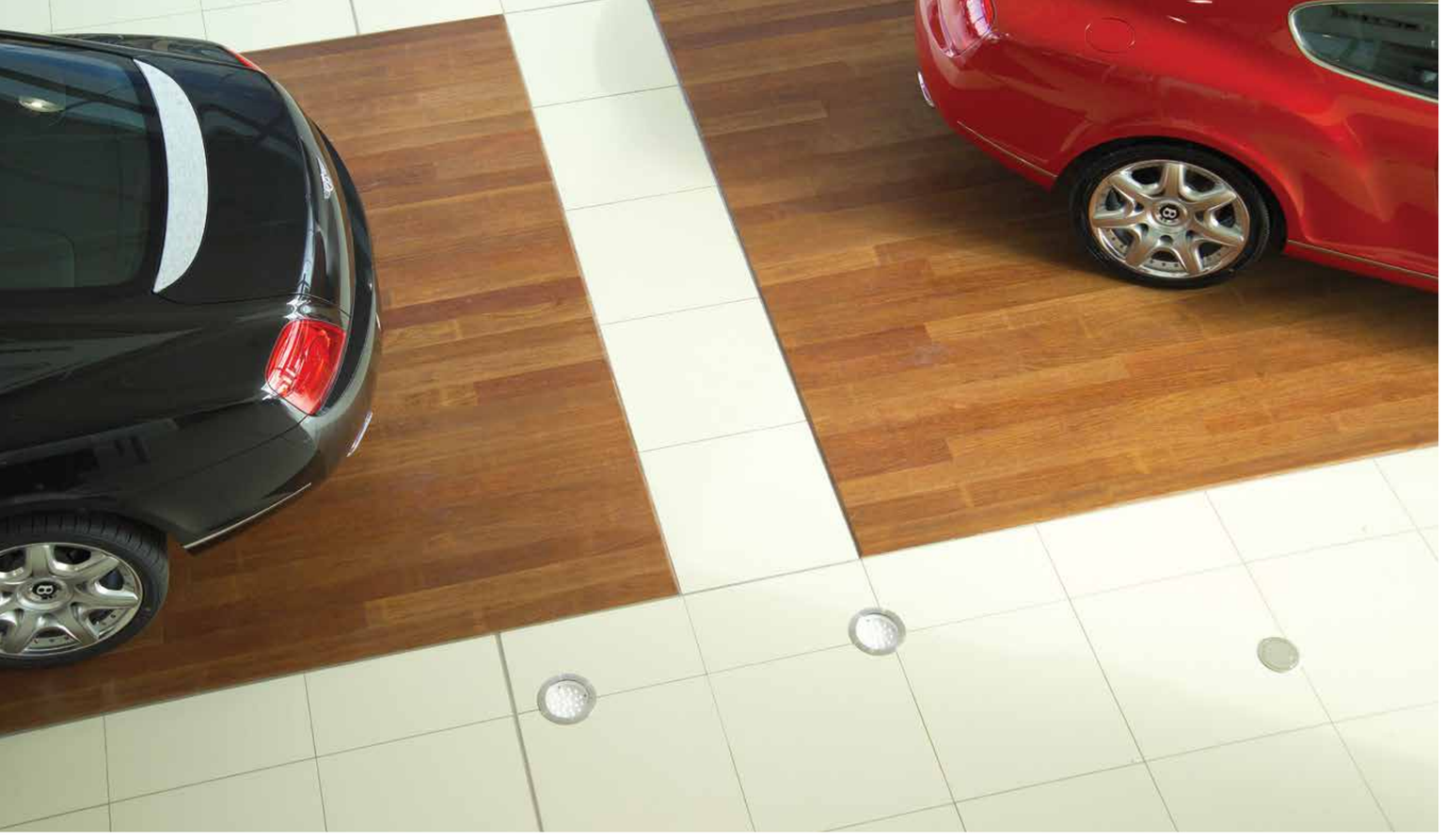
Contractor/Applicator: Zenith Polar Flooring Services

System: **weber.floor 4655 industry flow rapid** floor screed

Weber's industrial and commercial flooring products, designed for speed of application and premium performance, were used in a major renovation project at Woolley GMC Engineering.

This British engineering company's trading success required a fast, efficient factory renovation. **weber.floor 4655 industry flow rapid** industrial screed was specified and was responsible for the ultra-fast recovery of the flooring and the creation of 100m² of hardwearing safety roadway for fork lift truck operations.

The facility was quickly operational to allow new multi-station machining lines to be installed.



Bentley Motors Car Showroom, Leicester

Client: Michael Powles Ltd

Applicator: Leicester Ceramics

System: weber.set rapid plus tile adhesive and **weber.joint wide flex** tile grout

It was imperative that the 750m² of tiles were fixed with a top quality adhesive and grout as each Bentley weighs nearly three tons and cars are constantly being moved within this impressive showroom. The specification of **weber.set rapid plus**, a rapid setting tile adhesive for low porosity tiles and substrates, was the ideal solution for the practical requirements of the floor as demanded by the showroom which will bear such heavy cars.

The application was finished with the **weber.joint wide flex** a water-repellent, mould-resistant, flexible tile grout for interior and exterior use. The dealer principle commented: "We've been very impressed with the installation of our showroom floor. With such a high visibility showroom, allied to the brand that we're selling, it was vital that the floor looked fantastic. Equally important was the potential long-term durability of both the tiles and the installation".

weber.floor 4610 industry top can take foot traffic within 2-4 hours of application and is fully cured after 7 days

Heathrow Airport Terminal 5 Tunnels

Client: BAA Ltd

Architects: Pascall + Watson

Contractor: Carillion

Applicator: The Progressive Group

System: weber.floor 4610 industry top floor screed

The high-specification and robust industrial flooring screed **weber.floor 4610 industry top** was specified in the construction of below-ground access and service tunnels at Heathrow Airport Terminal 5 to create a durable, attractive and very hard-wearing surface.

Two air-side access tunnels, which are both over 400m long and 8m wide, connect the new satellite buildings and go onward to the main T5A terminal. Their primary use is for the vehicular transport of disabled passengers and the movement of baggage between buildings. **weber.floor 4610 industry top** is a standard drying screed and can be applied in thicknesses of 4-15mm and has high compressive and flexural strength.

Hanham Hall, South Gloucestershire

Client: Barratt Homes, Bristol

Architect: HTA Architects

Contractor: Barratt Homes

Applicator: Harbour Render Systems

System: weber.rend MT render system

Set in acres of open countryside, the 185 spacious dwellings were constructed around the Grade II listed Hanham Hall centrepiece.

The innovative design offers large double glazed windows that provide maximum natural light for wellbeing, energy efficient construction that will lower energy consumption and CO_2 emissions, and rainwater harvesting to minimise fresh water consumption.

weber.rend MT multi-coat render system was specified for the construction of this Zero Carbon, Code 6 development.

North Lodge, Hale Village, London

Client: UNITE Group

Contractor: R G Group

Applicator: Aphex Interiors

System: weber.therm XM EWI with **weber.plast TF** finish

The Hale Village regeneration project, one of the largest schemes in London, provides almost 1200 student accommodation rooms, 542 affordable accommodation units, 486 private residential units, a 132 bedroom hotel and nearly 50,000sq.ft of commercial space.

North Lodge, Hale Village has been built using modular construction techniques linked on-site into shared flats. The modules were insulated on-site with the application of **weber.therm XM** EWI system which was specified along with **weber.plast TF**, a decorative, protective, low maintenance render finish.

At Hale Village the exceptionally low u-values have been achieved with the use of 100 to 200mm thick mineral fibre dual density insulation slabs which will contribute to reduced energy consumption and CO_2 emissions.

The Swarm, Thorpe Park

Client: Merlin Entertainments

Specifier: HBL Associates and Bolliger & Mabillard

Contractor: T G Cruse Construction Ltd

System: weber.tec EP pourable grout & Five Star Repair Concrete

Thorpe Park's new adrenaline-inducing theme park ride, The Swarm, is the UK's first winged rollercoaster and sets a benchmark in ride experience.

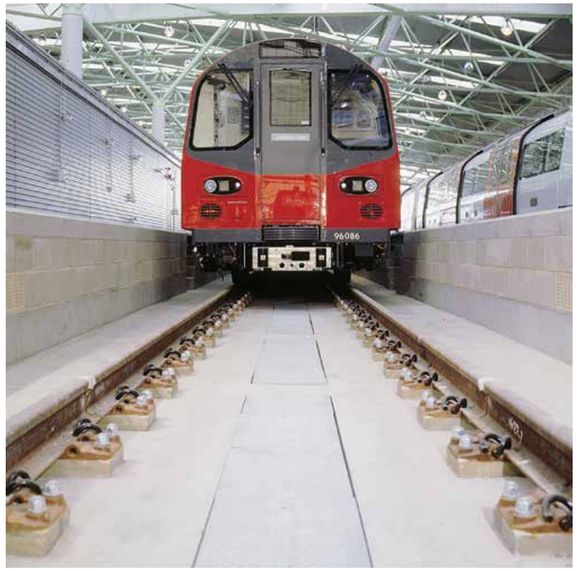
The dynamic load of 28-rider trains travelling at up to 100km per hour, on 1000 tonnes of track over a distance of 775m (2,543 ft), is supported by Weber's high performance precision grouts.

This enormous structure and the ground bearings are subjected to very high dynamic loadings generated by the fast and furious winged ride-cars.

HBL Structural Engineers specified **weber.tec EP pourable grout** to fix the steel mountings to the concrete ground bearings that absorb these high loads.

Selecting a material for fixing the plinth anchorages and the shear key anchorages had two main criteria; it had to have the ability to sustain high dynamic loadings and to transfer the stress from the structural steel components back into the concrete bases.

weber.tec EP pourable grout was specified to fix the steel mountings to the concrete ground bearings that absorb these high loads.



Jubilee Line Underground Train Maintenance Depot

Client: London Underground

Contractor: McAlpine

Applicator: Tarmac Construction

System: weber.tec EP pourable grout

The excellent dynamic load carrying capacity was key to **weber.tec EP pourable grout** being specified for this heavy maintenance depot where the rolling stock for the Jubilee Line is serviced and repaired.

This high flow grout is specially formulated from epoxy resin and graded aggregates producing material with exceptional toughness, very good chemical resistance and durability. The high compressive and tensile strength and negligible shrinkage also ensure that loads are transferred effectively and the grout remains in constant contact with the underside of the bearing plate making it perfect for use in rail track installations.

DCC PLC, Leopardstown, Dublin

Client: DCC PLC

Architect: DMOD Architects

Contractor: Townlink Construction

Applicator: James Doran & Son

System: weber.therm XP EWI

This impressive building was constructed around 30 years ago with cavity blockwork and a simple sand and cement render.

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

weber.therm XP External Wall Insulation system was specified as the solution that would rejuvenate the building while improving its U-value to an impressive target of 0.16/m²K.

Bacton Tower, Camden

Client: Camden Council

Architect: AK Design Partnership LLP

Contractor: Keep Moat

Applicator: Primars Coating Services Ltd

System: weber.therm XM EWI with **weber.sil TF** finish

weber.therm XM External Wall Insulation was specified for the extensive renovation of Bacton Tower a 22-storey hi-rise tower block, located in Camden. The renovation project was designed by AK Design Partnership LLP, a practice that excels in estate regeneration schemes.

Prior to the renovation a U-value of 1.77W/m²K was calculated with a target U-value of 0.30W/m²K. Duel density mineral fibre (MFD) insulation was specified for this project to meet fire protection regulations, and 110mm thick panels were mechanically fixed to the concrete substrate walls of the building.

Councillor Julian Fulbrook, Cabinet Member for Housing, Camden Council, said: "I'm delighted with the improvements we have made for the benefit of our tenants and leaseholders. These homes will now be more energy efficient which will help to reduce heating costs and residents are already commenting on improved comfort and a more attractive and brighter looking property.

From the hand-built stone and glass staircase and custom carpentry - every aspect has received a craftsman's full attention, including the clean, modern lines of the façade with the application of **weber.pral M** render.

Chart Ridge, Trevereaux Hill, Oxted, Sussex

Client: Millgate Homes

Architect: Millgate Homes

Contractor: Millgate Homes

Applicator: Markham Drylining Ltd

System: weber.pral M monocouche render

This contemporary property is a one of a kind residence that has been built with many outstanding features, but it's the attention to detail that creates a truly magnificent home.

From the hand-built stone and glass staircase and custom carpentry - every aspect has received a craftsman's full attention, including the clean, modern lines of the façade with the application of **weber.pral M** render.

The sleek modern exterior of this striking property is created using the innovative one-coat render in Pearl Grey. The through-coloured render has a scraped finish providing the texture of weathered stone that is both durable and water repellent while allowing the structure to breathe.

This project won the Andrew Doolan award for The Best Building in Scotland 2011.

National Museum of Scotland, Edinburgh

Client: National Museum of Scotland

Architects: Gareth Hoskins Architects

Applicator: P. Plunkett Tiling Contractors Ltd

System: weber.set rapid SPF tile adhesive and **weber.joint pro** tile grout

Weber's innovative Low Dust™ and Mould Stop Technologies have been employed in the tile adhesive and grout in this restoration programme of the National Museum of Scotland.

This project won the Andrew Doolan award for The Best Building in Scotland 2011. The £47 million, three year project by Gareth Hoskins Architects, has seen a complete reconfiguration of the internal space. Over 2,500m² of 20mm thick natural Jura Beige limestone tiles were installed in the entrance hall, Grand Gallery, and the show-piece staircases leading off the Gallery.

40 tonnes of **weber.set rapid SPF** with Low Dust Technology™ which dramatically reduces airbourne dust created during the pouring and preparation was used. This was combined with **weber.joint pro**, a water-repellent flexible tile grout for interior and exterior use enhanced with Mould Stop Technology for lasting protection from mould growth. This combination is ideal in situations where some movement or vibration is expected.

Photo: Courtesy of www.paul-riddle.com

Lowther Children's Centre

Client: London Borough of Richmond upon Thames

Architect/Contractor: Patel Taylor Architects and Lakehouse Contracts Ltd

Applicator: MACS Plasterboard Systems Ltd

System: weber.therm XM EWI with **weber.sil TF** finish

Designed with a simple palette of materials, this scheme is an example of how good design can overcome restricted budgets. **weber.therm XM** EWI, a lightweight system was specified for this award winning project. The modern curved architecture was complemented with the use of **weber.sil TF** in white, a silicone-based, through-coloured, weather resistant decorative textured finish.

This high-performance layered system offers excellent thermal efficiency resulting in reduced energy consumption and CO_2 emissions. The Lowther Children's Centre has received several awards, including the coveted RIBA Sorrell Award Winner 2010 for Best Education project; the Civic Trust Award Winner 2010; and was shortlisted for the Prime Minister's Better Public Building Award in 2009.

Cambridge University Sports Centre

Client: University of Cambridge

Architect: Arup Associates

Main Contractor: SDC Builders Ltd

Applicator: M Clarke & Sons

System: weber.therm XM EWI with **weber.plast TF** finish

The £16m phase-one project, designed by Arup Associates for the University of Cambridge, provides a world-class facility, under one roof, for hundreds of athletes from the University and local community. **weber.therm XM** EWI system was specified for this iconic sports building which has been designed with an integrated approach to sustainability, engineering and architecture.

More than 4,500 m² of EWI has been installed with a specification calculated to attain a low U-value of 0.25W/m²K. This has been achieved using 120mm thick expanded polystyrene insulation (EPS) mechanically fixed to the frame and panel substrate. The insulation is protected with render into which meshcloth reinforcement is embedded with a final finish of **weber.plast TF**, an acrylic based, textured coating that provides a weather proof, durable and low maintenance architectural façade.

Strood Academy, Medway, Kent

Client: Strood Academy

Contractor: BAM Construction

Applicator: The Progressive Group

System: weber.floor 4150 fine flow
floor screed

weber.floor 4150 fine flow floor screed has been installed at the £29 million Strood Academy, a new secondary school providing outstanding facilities in Medway, Kent.

Together with the design and build contractor and specialist applicator, Weber devised the flooring system for this new build facility with over 150 tonnes of **weber.floor 4150 fine flow** commercial screed being installed achieving an economical solution for the large application area of over 13,000m².

weber.floor 4150 fine flow is a standard drying, cement based screed for levelling and smoothing concrete substrates. It can be applied at thicknesses from 4 – 30mm and is ready for foot traffic in two to four hours allowing fast and convenient access for other trades.

Newhaven Sea Wall

Client: Newhaven Port Authority

Contractor/Applicator: AJC Contractors

System: weber.cem spray RS

The high performance **weber.cem spray RS** has been used in the vital reparation of the sea wall at Newhaven. With a twice-daily battering by the tides, this impressive Victorian wall has been subjected to enormous hydraulic power over its 100-year life.

Remedial action was undertaken using the rapid sprayed concrete **weber.cem spray RS** which is ideal for permanent concrete repairs where time constraints - in this case the tides, demand early strength gain. Initial set is achieved in just 15 minutes and in six hours a compressive strength of 10-15N/mm² is achieved. This prevents washout from the next tidal flow.

The high performance **weber.cem spray RS** has been used in the vital reparation of the sea wall at Newhaven.

Cynon Valley Hospital, Mountain Ash

Client: Cwm Taf NHS Trust

Architect: HLM Architects

Contractor: Vinci Construction UK Ltd

Applicator: Emega Ltd

System: weber.pral M monocouche render & **weber.therm XP** EWI

7000m² of **weber.pral M** Monocouche render completed the exterior façade of this new primary care hospital in South Wales. Finished in a clean bright white, the low rise building has been designed with the local environment and sustainability in mind.

Formulated to be spray applied by render pump for fast application **weber.pral M** offers shorter programme periods on site, reducing associated scaffolding and site costs and permitting the completion of ground works at an earlier stage.

Photo: Courtesy of HLM Architects / Trevor Burrows Photography

Poundbury, Dorchester, Dorset

Client: West Dorset District Council, The Duchy of Cornwall

Architect: Ben Pentreath & Associates
Contractor: C G Fry & Son

Applicator: J G England Plastering Ltd

System: weber.rend OCR base-coat render

These beautiful new properties at Poundbury, The Prince of Wales' ground breaking development in Dorchester, feature distinctive, classically designed houses, apartments and period-style terraces.

Drawing closely on late 18th and early 19th century buildings in the county of Dorset and the surrounding towns and villages, particular care has been taken to re-create traditional architectural details with the use of attractive stone and metalwork, and incorporate the skilful application of a decorative ashlar render finish.

weber.rend OCR, one-coat base render, offers a variety of finishing styles and features, and was specified for its ease and speed of application which is proven to save days of on-site labour.

Mackworth Extra Care Facility, Derby

Client: Sanctuary Group & Derby City Council

Contractor: Mansell Construction Services

Systems: **weber.set rapid SPF** tile adhesive

Due to its ease of application and rapid-setting characteristics, high performance **weber.set rapid SPF** tile adhesive with Low Dust Technology™ was used extensively in a new £9.2m Extra Care Facility for older people in Mackworth for Sanctuary Group.

At the heart of the three-storey scheme an attractive grand atrium provides a safe, secure and pleasant communal area for residents. It accommodates the reception, lounge, shop, restaurant, health suite and hairdressing salon. Here stylish, contemporary, large format 600 x 600mm porcelain floor tiles have been fitted. To provide a contrasting feature, an oversize 1000 x 150mm porcelain tile with an authentic wood-effect appearance has also been used.

A total tiled area of 355m² has been completed with the added benefit and comfort of under-floor heating.

High performance **weber.set rapid SPF** tile adhesive was used extensively in this £9.2m Extra Care Facility.

DFS Furniture Stores

Client: DFS

Architect: John Evans Interior Architecture & Design Ltd

Systems: **weber.set rapid SPF** tile adhesive and **weber.joint pro** tile grout

High performance tile adhesive and grout were supplied for large format 600 x 600mm Italian porcelain floor tiles for three new DFS retail furniture stores in Cork, Cannock and Stirling.

As the store fit-outs were delivered to challenging schedules the specialist fit-out contractor chose the rapid strength characteristics of **weber.set rapid SPF**. This highly polymer-modified adhesive ensures that tiles are ready for grout in just two hours allowing faster access for other trades. **weber.set rapid SPF** is a flexible, cement-based tile adhesive which is ideal for fixing ceramic, porcelain and natural stone tiles to walls and floors.

It has the added benefit of Low Dust Technology™ which keeps the working environment cleaner and dust free and can be used as a pourable adhesive for large tiles. In these DFS stores **weber.joint pro**, a water repellent, cement-based wall and floor grout was used providing improved resistance to staining.

Photo: Courtesy of www.mikeswartz.co.uk

Whitecroft, Buckinghamshire

Client: Private Home

Architect: Zodiac Design

Applicator: Doherty Building Services

System: weber.pral M monocouche render

High performance monocouche render was specified in the construction of this contemporary new build house in Buckinghamshire.

Designed by Zodiac Design, this 6,000 sq ft property incorporates many 'smart' construction systems, products and materials that together create a highly technical and sustainable masterpiece.

Everything specified for this project was selected for its outstanding performance, making it a truly intelligent property. The Porotherm® precision engineered clay block walling system was specified as it allows very fast construction and large areas can be built in a very short time, offering significant cost savings on the usual labour needed in conventional building.

The ideal match for this type of wall construction was **weber.pral M** monocouche render. It was used in this project in Silver Pearl with a scraped finish to complement the crisp, contemporary lines of this one-of-a-kind building. **weber.pral M** offers the multiple benefits of pump application, for speed and consistency, and through-colour One Coat Technology, both of which are recognised for their contribution to minimising programme works.

Envisage Group Studios

Client: Envisage Group

Applicator: Zenith Polar Flooring Services

System: weber.floor 4655 industry flow rapid floor screed

A striking studio complex has been built for the Envisage Group, an international design & engineering organisation. This new facility provides ultimate style for aspirational product development testing under clinical appraisal conditions. Brilliantly illuminated, air-conditioned and totally functional, these studios require perfectly level floors to match the precisely positioned test equipment.

The three main studio areas amount to 650m² of floor space and the **weber.floor 4655 industry flow rapid** screed was pumped to deliver full volume material as quickly as possible. This self-levelling industrial flooring screed is designed to provide a hard wearing, durable floor where traffic abrasion is highest. The new premises for Envisage Group were created on a fast-track schedule which benefitted from Weber's rapid drying floor screed systems used in this state-of-the-art facility.

This £39m project is part of a scheme which represents one of the largest single investments in a shared community and education building in Wales.

Gateway to the Valleys School, Bridgend, Wales

Client: Exemplar, Bridgend County Borough Council

Architect: Scott Brownrigg Architects

Contractor: Leadbitter

Applicator: M & P Contractors Wales Ltd.

System: weber.rend MT render system

It replaces the old school buildings with a new development that is environmentally and economically sustainable.

In fact, the high levels of sustainability incorporated in the school's design meant it was the first in Wales to achieve a BREEAM Outstanding rating at the design stage.

The project also won the 2013 UK BREEAM Education Award. Application of 3000m² of the **weber.rend MT** lightweight render system assisted in this achievement.

weber.rend MT is a multi-coat system which incorporates glass fibre meshcloth reinforcement and a resin-rich adhesive coat that carries a choice of textured finishes in a wide range of colours. **weber.rend MT** is ideal for large areas without the need for expressed joints making it a fast, efficient system in conjunction with modern methods of construction.

The Millennium Bridge, London

Specifier: Ove Arup

Contractor: McAlpine

System: Five Star Grout SP &
Five Star Repair Concrete

Designed by Ove Arup, the bridge features low slung suspension wires that make the bridge seem, intriguingly, to defy gravity.

This seemingly light aesthetic design disguises the fact that the same if not a greater load than traditional designs needs to be safely transferred to the supporting structure.

Five Star Grout SP was chosen to support the full weight of the structure via the bearings to column piers whilst **Five Star Repair Concrete** was used as the concrete to the caisson plinths.

The high performance precision grouts feature non-metallic chemistry so avoiding potential dimension instability, corrosion or staining in the future.

The London Eye, London

Client: British Airways

Contractor: McAlpine

System: Five Star Grout

Reliable transfer of load from the structure to supporting foundations is a vital element of design in any Civil Engineering project especially where high static loads and the transport of the public are part of the equation.

Due to its long service record of reliability in use, **Five Star Grout** was chosen by the contractors McAlpine to carry out this crucial role.

In this vital but restricted area it is important that full contact with all bearing surfaces is achieved, with no air voids or shrinkage. **Five Star Grout** is usually poured or pumped as a flowing grout into such areas.

Five Star Grout had to perform in the confined space between the superstructure of the fabrication and the concrete foundations that support it.

Private Home, Taunton, Somerset

Client: Fry Developments

Contractor: Jackson Architects Ltd

Applicator: M P Plastering

System: **weber.therm XP** EWI and **weber.pral M** monocouche render

This modern design combines exceptional thermal performance of **weber.therm XP** external wall insulation system with outstanding contemporary aesthetics of a white scraped render finish and grey slate tiles to the lower floor, creating a striking contrast in materials. This unique building also uses **weber.pral M** monocouche render to the curved retaining walls applied to a poured concrete substrate.

The revolutionary **weber.therm XP** system uses a one-coat, through-coloured mineral render reducing on-site labour and associated access costs in comparison with a traditional two-coat system. Recent improvements to the specially formulated render allows it to work in harmony with seasonal conditions, achieving a same-day finish in the summer and a next-day finish in the winter. It is suitable for spray or hand application and creates a low maintenance, weatherproof and durable finish.

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