

PROJECT SPECIFICATION



PROJECT SPECIFICATION

Project Ref: JG_26-03597LR
Project Name: Sunflower Cafe, Merthyr Tydfil

21 May 2026

Prepared By: LK

Checked By: BA

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KIWA APPROVED
- BAW-23-280-S-A-UK -
WETHERBY STEEL FRAME
RENDER CARRIER BOARD

Project Specification

Project Name:	Sunflower Cafe, Merthyr Tydfil
System:	Wetherby 15mm RagRail Cavity Spacer Render Carrier Board HECK 4S Silicone Render System
Substrate:	Steel Frame Sheathed in 12mm STS Construction Board
Project Height:	2 Storeys.
System Finish:	HECK SHP 4S 1.0mm Silicone Resin Render
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WETHERBY WALL SYSTEMS

Wetherby Walls Systems are the UK's market leading EWI system supplier, providing quality products and systems and unrivalled technical and on-site project support. We aim to provide environmentally responsible and sustainable building products of the highest quality, continually improving on our quality and system accreditations to ensure that optimum standards are met.



WETHERBY PREMIUM CERTIFIED PRODUCTS

Wetherby Walls Systems products and EWI systems are tested to the highest level with an unrivalled range of BBA, BDA and ETA certificates available for use on projects in the UK. All testing achieves the highest European standards, ensuring long term durability, strength and premium performance. BBA/BDA approved systems provide a minimum life expectancy of 30 years. BRE Fire Certification has also been achieved for a large number of systems, with certain certification extending to 60-year life expectancy.



UK MANUFACTURING

Here at Wetherby, we take our responsibility to 'Buy British' extremely seriously. All of our current and potential suppliers undergo a rigorous annual assessment. Each supplier is reviewed over a number of areas including responsible procurement, product suitability, commitment to sustainability, quality etc. Only when we are completely satisfied are they included on our Supply Chain Database.



ISO 9001, ISO 14001, & ISO 45001

Wetherby Wall Systems have a strong pro-active approach to internal Quality Systems, Environmental Management Systems and Health and Safety.

Our ISO Integrated System is regularly audited internally by qualified auditors and annually by independent external auditors, Alcumus ISOQAR. This ensures consistency in the supply and quality of our materials and services, and our environmental responsibilities and targets which we take very seriously. This includes our ongoing commitment to recycle, re-use, reduce GHG's and improve products and systems alongside our partners and suppliers. The main aim is to maximise sustainability for all products and systems across our extensive range. We have a strong pro-active approach to Health and Safety. We manage all risks associated with our activities by regularly monitoring our premises, revising Risk assessments, Safe Systems of work, and Method Statements when required. We strive to provide the best training, support, and management on all our projects providing knowledge and experience throughout the task being undertaken.



Certificate Number 16512
ISO 9001
ISO 14001
ISO 45001

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TECHNICAL SERVICES

Wetherby offer a wide range of technical services to support project design and system installation. In depth NBS Specifications, project specific CAD drawings, photographic overlays, U-values and condensation / humidity risk analysis documents are all readily available via our Technical Support Team. For **Technical Enquires** please contact on **0800 1073299** or technical@wall-systems.co.uk

**TRAINING SERVICES AND TRAINED APPLICATORS**

We provide a variety of in-depth training courses, covering all systems, to ensure that installations are completed to the highest possible standards.

For training enquires please contact: 01942 529336.

For information on our Trained Applicators please contact your Area Sales Manager as per details on page 2 of this specification.

**SITE SUPPORT, PULL OUT TESTS AND INSPECTIONS**

Wetherby Wall Systems offer unrivalled site support for EWI projects with 8 Site Supervisors strategically positioned across the UK. Pull out testing, product information, detailing advice and application assistance are all available from our experienced team.

**SAMPLE SERVICE**

We provide a FREE sample service for all of our products and systems.

To access this service, contact our sample department on 0800 1073288 or alternatively e-mail Angela Naylor who will be more than happy to assist you with your enquiry: angela.naylor@wall-systems.co.uk

**GUARANTEES**

Wetherby can provide a guarantee covering defects in materials on Wetherby BBA / BDA / ETA approved EWI systems installed by Wetherby recognised contractors, for the first 10 years of the system lifespan*. Extended guarantees are available for government backed schemes provided by carefully selected third party insurance partners such as SWIGA and GDGC*. Please contact Wetherby for further information.

(*conditions apply)

**CDM REGULATIONS 2015**

Wetherby Wall Systems provide technical support as a supplier of façade systems and we hold the position of 'designers' according to the CDM Regulations 2015. Wetherby have a number of legal responsibilities in this role when preparing or modifying designs, to eliminate, reduce or control foreseeable risks that may arise during construction, maintenance and use of a building once built. We are also obligated to provide timely information to other members of the project team to help them fulfil their duties.

Further information is contained in our CDM document (WF224) which is applicable to all designs and is available on our web site (www.wall-systems.co.uk/xpagex) or on request



WETHERBY 15MM RAGRAIL CAVITY SPACER RENDER CARRIER BOARD HECK 4S 1.0MM SILICONE RENDER SPECIFICATION**M20****Render carrier board with rendered finish**

To be read with Preliminaries/General Conditions.

This specification is valid for 6 months from issue date, due to the changing industry regulations and requirements. For an updated version of the specification please contact the relevant technical sales manager.

This specification is specifically for the named project and is not transferable to other projects, projects require specific custom specifications, please contact Wetherby Technical departments for further information.

GENERAL / SYSTEM REQUIREMENTS**120 SURVEY OF EXISTING WALLS**

- Timing: Before starting work covered in this section.
- Objective: To confirm suitability for application of the Wetherby Cavity Spacer Rail Render Carrier Board System.
- Survey report: Submit, covering all relevant matters listed below:
 - The form and condition of the structural substrate.
 - A schedule of repairs and / or additional works necessary to render the substrate suitable for the system.
 - A schedule of services, fixtures and fittings requiring removal to facilitate installation of the system.
 - Proposals for treatment of potential cold bridges e.g. reveals, concrete floor edges.
 - Remove existing rainwater pipes and re-direct away from work surface whilst work proceeds. Ensure all rainwater from the roof area is carried away from the work area by means of temporary fixed rainwater goods.
 - Remove, extend beyond the surface of the proposed system and securely re-fix, to the satisfaction of the supervising officer, soil stacks, waste water pipes, overflows, vent pipes etc.
 - Any other information considered relevant.

150 WIND LOADING

- When installed on suitable walls, the system can adequately transfer to the wall the self-weight and negative (suction) and positive (pressure) wind loads normally experienced in the United Kingdom.
- Wetherby or the fixing manufacturer will undertake fixing pull out tests on site to verify the adequacy of the fixings.
- Wetherby will provide information on the system dead load weights on request to allow an independent check to be made of the substrates adequate strength and suitability.
- On projects where higher wind load coefficients are expected, wind load calculations are required in order to establish the minimum number of fixings required per m² to resist the maximum wind loads acting on the building. In order to do this, wind loads must be calculated by a suitably qualified and experienced structural engineer in accordance with BS EN 1991-1-4:2005 and provided to Wetherby. Wetherby will then confirm an adequate fixing pattern for the project.

160 REMEDIAL WORK

- Remedial work shown to be necessary by survey: Employer's responsibility.

180 STRUCTURAL SUBSTRATE

- Description: Steel Frame Sheathed in 12mm Cement Particle Board.
- Preparation:
 - All sheathing boards must achieve minimum pull out requirements to be suitable for the system application.
 - The substrate to receive the Wetherby system must be completely dry and not damaged by rain / frost to reduce the board performance in any way. The board manufacturer should be consulted and pull out tests redone before continuing if rain / frost damage is evident.
 - The substrate shall be clean and structurally sound.
 - Sheathing boards / panel substrates should be line and level ensuring Cavity Spacer Rails can be installed flush to the substrate. Slight variances in the substrate can be overcome by using Wetherby metal packers to ensure the system is installed line and level.
 - All sheathing boards must be securely fixed, correctly jointed and sealed (where required) as per the board manufacturer's instructions.
 - If the walls are not line and level, the fixing lengths must be checked to ensure adequate embedment into the sheathing board / frame substrate. This will need to be confirmed on site prior to the installation of the Wetherby system. Sizing of flashings, trims and beads may also require alterations.
- Breather Membrane
 - A breather membrane may be specified by the project designer / frame manufacturer. Where this is positioned on the face of the sheathing board.
 - **Wetherby must be contacted if a breather membrane is installed to the face of the sheathing board and the specification revised to reflect this, possibly resulting in an increase in mechanical fixings.**
- Treatment to Substrate
 - Remove any defective areas of the existing substrate and where required make repairs ensuring the surface is ready to receive the new system. The existing walls are to be cleaned to the satisfaction of the Contract Administrator, to remove any friable material, algae or lichen. Wetherby Biocidal Wash can be used to treat areas of moss, algae and mould growth.
 - Wetherby Biocidal Wash
 - Where required, apply one coat of Wetherby Biocidal Wash to the entire surface by roller or knapsack spray and allow to dry. Brush the surface to remove all signs of growth before work commences.

210A EXTERNAL WALL RENDER SYSTEM

- **Manufacturer:**
Wetherby Wall Systems Ltd.
1 Kid Glove Road
Golborne Enterprise Park
Golborne
Greater Manchester
WA3 3GS
Tel: 01942 717100
Fax: 01942 717101
Email: info@wall-systems.co.uk
Web: www.wall-systems.co.uk

- System Reference: **Wetherby Cavity Spacer Rail Render Carrier Board HECK 4S 1.0mm Silicone Render System.**



- Cavity Spacer Rail: 15mm RagRail Cavity Spacer.
 - Cavity Spacer Rail Fixing: Wetherby LS 5.5 x 38mm rail fixing to be installed down one side of rail (300mm cts) and through the centre of rail (300mm cts) hitting the stud in all scenarios.
 - Fixing type, length and frequency subject to substrate type, pull out tests and wind load calculations.
 - Cavity Spacer Rail Layout: Max. 600mm centres.
 - Fixing type, length and frequency all subject to pull out tests, substrate type and wind load calculations.
 - Fixings must achieve a minimum pull out of 1.0kN.
- Deflector Bead: Wetherby 416SS 16mm Stainless Steel Bellcast Bead.
- Intumescent Strips: Where Required
 - Intumescent Strip: Wetherby FF 102/50 Intumescent Strip.
 - Intumescent Strip Fixing: Wetherby 50mm TKE Stainless Steel Screw (subject to pull out tests).
 - Intumescent strips are required on all projects 2 storeys and above as per BRE Report BR135:2013.
 - Intumescent Strips required at compartment floors, above the system base rail and at edge of cavities where drainage is to be maintained
 - Intumescent Strip positioning to be confirmed by Building Control.

- Cavity Closer Detail: Required vertically at compartment walls around all openings and edge of cavities where drainage is not required, may also be required around penetrations
 - Cavity Closer Insulation: Tenmat NVFB Non-Ventilated Fire Barrier 100mm x 20mm.
 - Board Size: 20mm x 100mm x 1000mm.
 - NVFB Fixing: JT3-FR3 x 50mm Stainless Steel Screw (subject to pull out tests).
 - System cavity closer detail positioning to be confirmed by Building Control.
 - Where the cavity size is inconsistent, a thicker NVFB can be cut down to the required dimensions, ensuring minimum 5mm compression between substrate and Render Carrier Board.
- Render Carrier Board: 12mm STS Construction Board
 - Board Size: 1200mm x 2400mm.
 - Fixing: As per manufacturer's instructions.
 - N.B. 3-5mm gaps must be left between render carrier boards with Wetherby Acrylic Joint Sealant installed. Wetherby mesh strip (100mm) to be installed over board joints which must be encapsulated with 1-2mm scrim adhesive.
- Render Carrier Board Fixing: Mechanical into RagRail Cavity Spacer.
 - Fixing Type: JT3-ST5-2-6.0 x 28mm.
- Movement Joints: As Per Drawings.
 - Vertical Movement Joint Ref: Wetherby MJ6 Movement Joint.
 - Horizontal Movement Joint Ref: Wetherby RCJT & RCJB Horizontal Compression Joint.
 - Movement joints must be used to replicate any structural movement joints in the existing substrate as per site survey / Structural Engineers report.
 - All beads must be fully meshed in.
 - Refer to clause 490 for further information and guidance.
- Reinforcement: Alkali Resistant Reinforcing Scrim Cloth incorporated into top third of the Wetherby HECK K+A Scrim Adhesive.
 - Reinforcement Adhesive: HECK K+A Scrim Adhesive
 - Secondary Fixing: Required at a rate of 1 per m2 through glass fibre reinforcing mesh on all projects over 2 storeys
 - Stainless Steel Fixing Type: JT3-ST5-2-6.0 x 28mm and Stainless-Steel Washer (subject to pull out tests).
- Decorative Finish.
 - Wetherby Primer: HECK UG Universal Primer (colour to match the finish coat)
 - Wetherby Finish Coat: HECK SHP 4S 1.0mm Silicone Resin Render
 - Colour: TBC
- Beads / Trims / Accessories.
 - Full System Beads / Trims:
 - Wetherby Starter Track Ref: Wetherby 9143 (90603) 30mm Aluminium Base Rail with Wetherby 37400 Profile Clip.
 - Wetherby Full Depth Stop Bead Ref: Wetherby 9243 (93303) 30mm Aluminium Full System Stop Profile.
 - Mechanical Fixing: Wetherby LS 5.5 x 38mm Bead Fixing.
 - Wetherby Roof Detail: TBC.
 - Specialist flashing / Wetherby Flashing to be used subject to roof design, ensuring a minimum 40mm overhang and a long-lasting watertight detail (approval required from Wetherby).

- Wetherby Cills: Type TBC.
- Specialist Cills to be designed and installed to provide a minimum 40mm overhang.
- Cill manufacturer to design and advise on Cill type, end caps and fixing.

- Surface Render System Beads:
 - Wetherby Edge Protection Bead Ref:37154 PVC Edge Protection Bead
 - Wetherby Corner Bead Ref: Wetherby 3707 PVC Corner Bead.
 - Wetherby Render Bellcast Bead Ref: Wetherby B10 PVC Bellcast Bead.
 - Wetherby Render Stop Bead Ref: Wetherby RS6 PVC Stop Bead.
 - Wetherby Vertical Movement Joint Ref: Wetherby MJ6 PVC Movement joint.
 - Wetherby Horizontal Movement Joint Ref: RCJT & RCJB Horizontal Compression joint.
 - Wetherby APU Frame Seal Ref: Wetherby APU 37909 PVC Frame Seal.

- Accessories:
 - Wetherby Sealing Tape: Pre-compressed, expanding waterproof sealing tape.
 - Wetherby Packing Shims.
 - Wetherby Approved Silicone Sealant.
 - Wetherby Acrylic Joint Sealant.
 - Wetherby Joint Mesh.
 - Render Carrier Board Edge Bead

310 DESIGN

- Complete the detailed design of system and associated features shown on drawings: Complete to meet requirements of this specification. Refer to Wetherby detail drawings.
- Please note all compliance needed to meet Building and Fire Regulations is the responsibility of the principle designer/ main contractor.
- Detailing of system junctions & ancillary items are to be agreed by all parties.

320 INTEGRITY

- Installation Requirements:
 - Weathertight under all anticipated conditions.
 - Capable of resisting all dead loads and design live loads, including impact and wind loads, and accommodating all thermal movements without damage.

330 IMPACT LOADING

- Impact Resistance of Finished Walls: Resistance to hard body impacts (3 joules to 10 joules) and to perforation.

335 VENTILATION

- The Wetherby basetrack for the system has 11mm holes at 150mm centres to provide drainage / ventilation. If additional ventilation is required e.g. at top of system, this is to be agreed with the Project Designer prior to project start.

340 WIND LOADING

- Design Wind Loads: The system shall be designed to withstand all design wind loads.

360 SAMPLES

- Procedure: Submit samples / examples of designated items for approval. Keep approved samples on site for the duration of the contract for inspection / comparison purposes.
- Designated items: Textured sample of HECK SHP 4S Silicone Resin Render.

370 UNIFORMITY OF COLOUR AND TEXTURE

- Type / proportion of constituent materials: Unchanged once samples of coatings have been approved.
- Supplies of materials: Sufficient to give consistent and uniform colour and texture.
- All materials shall be manufactured and supplied in accordance with BS EN ISO 9001: 2008.
- Wetherby renders and mortars are pre-blended during the manufacturing process by the supplier, although care should be taken to ensure colour uniformity between individual batches of material.

390 AVOIDANCE OF COLOUR SHADING

- To minimise the risk of variations in colour shade and to avoid dry line jointing, decorative finishes should be applied continuously without a break.
- Where breaks are unavoidable, they should be made where services or architectural features such as the lines of doors, windows, reveals or drainpipes help to conceal the position of the joint. Surface render beads can be used to provide a clean break in the render.
- Material sharing the same batch number should be used to complete an entire elevation where possible.
- Material with different batch numbers should be checked for colour consistency.

410A INSTALLATION

- Installer: The system shall be installed by a specialist contractor approved for the project by Wetherby Wall Systems.

415A CAVITY SPACER RAIL RENDER CARRIER BOARD HECK 4S SILICONE RENDER SYSTEM APPLICATION**Base Bead**

Securely fix Wetherby starter track with profile clip above DPC level at base of the system. Mechanically fix starter track at max. 300mm centres, 50mm from each end. Wetherby 3756 base rail connectors should be used to join the tracks, packing shims may be required to ensure the starter track is true to line and level. Drainage holes must be drilled into the back of the starter track to allow the cavity to drain. Install 11mm holes at 150mm centres (Steel frame) to allow for drainage and partial ventilation. Any gaps behind the basetrack allowing free air movement behind the system should be sealed appropriately.

Full System Stop Bead

Securely fix Wetherby full system stop beads on Wetherby Sealing Tape to the extent of the system and its abutment to untreated areas i.e. meter boxes, rising service supplies or any other untreated abutment. Stop beads are to be fixed at max. 300mm centres, 50mm from each end. A continuous bead of Wetherby Approved Silicone Sealant must be applied to seal the stop bead to the substrate.

Roofing Detail

Specialist flashing / trim to be installed prior to render works. Where the existing roof does not provide an adequate overhang to the render carrier board system (minimum 40mm), a specialist roofing profile must be sought to provide adequate protection. Alternatively, the roof must be extended as necessary to provide overhang to the system. The system must be sealed to the roofing profile using Wetherby Sealing Tape and Silicone Sealant.

Cills

Securely fix cills, ensuring they are secure and provide a water tight detail to protect the system. Apply Wetherby Approved Silicone Sealant where required.

RagRail Cavity Spacer

Mechanically fix Cavity Spacer Rail down one side of the rail at 300mm cts and through the centre of rail at 300mm cts hitting the stud in all scenarios, ensuring the rails are secure. Rails should be installed vertically at 600mm centres and around openings ensuring the insulation boards are fully supported. The rails may need packing out with suitable packers to ensure the system is installed true to line and level. If rails require packing out, the fixing sizes, cavity fire barriers, beads, trims and flashings may require alterations.

Drainage Deflector Bead

Mechanically fix drainage deflector beads above all openings at a 10-degree minimum fall, ensuring all moisture is channelled away from the opening below. Deflector beads should be installed at 300mm centres, 50mm from each end and bedded on Approved Silicone sealant.

**Intumescent Strip**

Mechanically fix Wetherby Intumescent Strips at agreed locations to form horizontal cavity fire breaks. Intumescent strips should be screw fixed in place at 250mm max centres (4 no. screws per linear metre) and max 125mm from each end, using a non-combustible screw with a head of no more than 16mm diameter.

Vertical Cavity Closer Detail / Cavity Closers Around Openings – Tenmat NVFB Non-Ventilated Fire Barrier

Mechanically fix the NVFB through at agreed locations the centre of the barrier at distances no greater than 250mm from each end, using a stainless steel screw, with a head diameter between 12 and 14mm maximum width (no washer required). The depth of the screw should be sized according to the substrate to which the screw will be anchoring in to but must allow for the screw head to be compressed 5-10mm into the surface of the NVFB barrier. Ensure that NVFB pieces are tightly abutted together and are aligned flush with each other. Point in any small gaps (up to 5mm) with intumescent sealant if required. The Wetherby Render Carrier Board is to be installed over the NVFB fire barrier, the NVFB must be adequately compressed.

Where there is an inconsistent cavity size, a thicker NVFB can be cut down to the required dimension. The NVFB can be cut using a table saw and guide, ensuring the cut is square and true and to the required dimension. The NVFB must be compressed by a minimum of 5mm between the substrate and Wetherby Render Carrier Board.

Installation of Render Carrier Boards

Position and securely fix the Wetherby approved render carrier boards to the Cavity Spacer Rails as per the Wetherby fixing pattern located at the back of this document. 3-5mm gaps must be left between render carrier boards with Wetherby Acrylic Joint Sealant installed. Wetherby mesh strip (100mm) to be installed over board joints which must be encapsulated with 1-2mm scrim adhesive.

N.B. Render carrier boards must be kept dry and free from frost at all times, wet boards must not be installed to the substrate as fixing strength will be affected. Boards hit by rain while fixed to the substrate must be allowed to fully dry out before rendering progresses. An inspection of the render carrier board condition will be required if boards are left exposed to rain for longer than 2 weeks.

**Movement Bead / Slip Joints**

Fix movement beads / slip joints at agreed locations. Structural movement joints must be mirrored through the Render Carrier Board system.

Surface Mounted Render Beads

Fix surface mounted render beads directly to the render carrier board at required locations.

Existing Air Vents, Grilles etc.

Identify live or used air vents, grilles etc. and extend through the Cavity Spacer Rails system as work progresses.

APU Beads (where required)

Install APU beads around openings where required. Beads must be applied to a clean surface to ensure optimum adhesion.

Angle Bead

Fix by bedding into first pass of scrim adhesive, angle beads with glassfibre mesh reference Wetherby 3707 to all external building corners, window / door jambs and heads.



HECK K+A and Alkali Resistant Reinforcing Scrim Cloth

Trowel or machine apply a nominal 6mm thick coat of scrim adhesive to the entire surface of the insulation boards. Lightly run a notched trowel through the scrim adhesive at a 45-degree angle to ensure the correct thickness of adhesive is applied. Bed Wetherby Alkali Resistant Scrim Cloth into top third of the wet adhesive, overlapping joints by 75mm minimum (ensuring mesh cloth isn't over embedded). The scrim cloth must be overlapped around all building corners, stop beads, movement beads and returned into all reveals and heads. All beads must be fully scrimmed in. Install additional 500mm x 250mm minimum pieces of scrim cloth diagonally across corners of all wall openings.

Install secondary fixings through the wet scrim adhesive and Wetherby Alkali Resistant Scrim Cloth whilst adhesive is wet (where required). 100mm x 100mm scrim patches to be installed over each secondary fixing head. Finally smooth out scrim adhesive using a spatula.

Scrim Adhesive Coat (Second Application)

When initial layer of scrim adhesive has hardened, trowel apply a further 2-3mm coat of scrim adhesive ensuring all alkali resistant mesh is covered. Level the scrim adhesive using a spatula / damp sponge float to achieve a uniform flat and even surface ready to receive the Wetherby final finish. Allow sufficient drying time before applying the Wetherby Primer.

HECK UG Universal Primer

Apply HECK UG Universal Primer with a brush or lamb's wool roller as per manufacturer's printed instructions. Allow the primer to fully dry, minimum 12 hours.

HECK SHP 4S Silicone Resin Render

Mix and apply HECK SHP 4S Silicone Resin Render strictly in accordance with the manufacturer's printed instructions. The top coat should be applied with a stainless steel trowel to the thickness of the grain and finished with a plastic float. Apply in a continuous application always working to a wet edge and in the same direction to ensure consistency of finish. Wherever possible, entire elevations should be completed in a single operation to avoid joint marks in the finish. This can often be achieved by working to natural breaks in the building or working to breaks in colour or texture.

Do not apply HECK SHP 4S Silicone Resin Render with differing batch numbers on the same elevation. Care should be taken to avoid texture changes at different levels. Prior to setting, polish render with plastic float to give an even texture and remove all trowel marks.

**Silicone Sealant**

Gun apply a continuous bead of Wetherby Approved Silicone Sealant at points where the renders will butt up against other materials, e.g. window frames, door frames, eaves, fascia's, projecting wall vents, gas and electric meter boxes etc. ensuring water tightness. Surfaces must be clean and suitable for the application of the Silicone Sealant which must be installed as per manufacturers guidance.

Cleaning

Wipe clean all exposed PVC nosing, cills etc., at each work stage whilst render is still wet.

Application Videos

Wetherby have detailed application videos available online, please see <http://www.wall-systems.co.uk/videos/>.

420 ADVERSE WEATHER

- Materials / Surfaces: Do not use frozen materials and do not apply materials to frost bound substrates.
- Adhesives / Mortars / Renders: Do not apply when air temperature is at or below 5°C. Render products may be applied where temperatures are above 3°C on a rising thermometer and are forecast to stay above 5°C for an extended period on the same day.
- Adhesives / Mortars / Renders: Do not apply when relative humidity is equal to or greater than 90%.
- Do not apply materials when the air temperature or wall surface is in excess of 30°C without protection of the surface.
- Temperature of the work: Maintained above minimum level recommended by manufacturer until adhesive / mortar / render has fully hardened.
- Drying Times: Drying times of decorative finishes, particularly pre-mixed water based materials, may be greatly extended during periods of low temperature and / or high relative humidity 90% and above.
- Newly rendered surfaces: Protect newly rendered surfaces against rain, snow or other precipitation. Ensure that material is protected from frost, wash-offs etc.
- Application of renders, mortars or decorative finishes shall not be carried out on elevations where summer strength sunlight is hitting the area square on for prolonged periods without affording protection.
- Coatings damaged by rain or frost: Remove and replace.

440 ON-SITE PULL-OUT TESTS ON FIXING PINS

- Objective: To prove suitability of structural substrate and determine size and number of fixings required.

450 WINDOW CILL / FLASHING PROJECTION

- Where window frames incorporating window sills or cappings/flashings are to be supplied by others, the cill/flushing projection must extend a minimum of 40mm when measured from the drip/throat to the face of the finished Wetherby system. In severe/very severe exposure zones, consider increasing the projection to 50mm. Refer to Wetherby Technical Services for further guidance.

490 CONSTRUCTION / MOVEMENT JOINTS / SLIP JOINTS

- Location: As shown on drawings.
- Formation: Accurately to detail.
- Modifications to joint locations / design: Agree revisions before proceeding.
- All structural movement joints must be mirrored through the EWI system.
- Where the system is to be continued over joints between dissimilar substrates which are in the same plane, a movement joint should be incorporated to allow for differential movement.

530 SEALANT JOINTS

- Sealant: Wetherby Approved Silicone Sealant.
- Joints: Formed in accordance with section Z22 and system manufacturer's recommendations using any necessary joint fillers, backing strips etc.

540 STORAGE OF MATERIALS

- Adequate dry weatherproof and ventilated storage shall be provided for materials.
- All materials shall be protected against frost.
- Render carrier boards must be kept dry and free from frost at all times.
- Cementitious products shall be stored off the floor.
- Renders to be stored in temperatures of at least 5°C.
- Materials should be protected from prolonged exposure to sunlight.

550 INSPECTION OF COMPLETED INSTALLATION

- Timing: As soon as possible after completion of the work and before removing scaffolding.
- Notice for inspection (minimum): 7 working days.
- Defects: Report immediately.

570 MATERIALS AND SITE CONDITIONS

- All materials shall be provided for the proper and efficient execution and completion of the works.
- Materials shall be mixed, applied and fixed in accordance with the relevant clauses of the specification and the manufacturer's instructions.
- A clean, fresh supply of water shall be provided for the works, via the management contractor.
- Suitable scaffolding that has a minimum gap of 300mm (all scaffold items) from the elevation surface in order to facilitate application requirements, shall be provided, erected, maintained and later removed for the proper and efficient execution and completion of the works.
- All necessary temporary supports for drains, water pipes, gas pipes, electrical cables and telephone cables shall be provided and maintained until the permanent supports are reinstated.
- Temporary flexible tubing shall be provided for the efficient discharge of rainwater from the buildings to protect the system during the progress of the works.

580 CLEANLINESS OF WORKS

- Protect all existing works, approaches and adjacent surfaces including windows and doors etc. using suitable sheeting, boards, covers etc.
- Remove all splashes, droppings etc. from completed works immediately and before drying takes place.

590 CONTROL OF POLLUTION

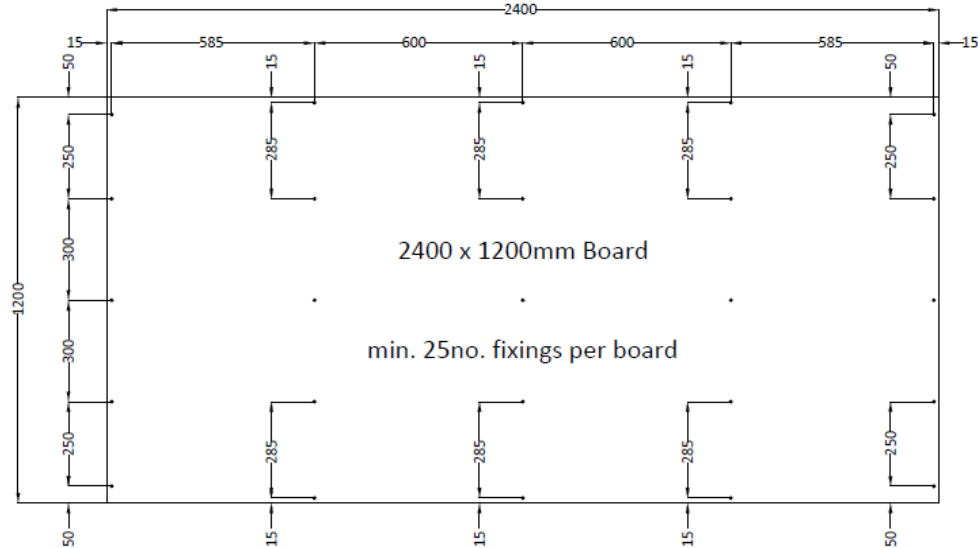
- All debris and rubbish arising from the works shall be removed off site from time to time to keep the site and works clean and tidy. All measures shall be taken to control the noise levels produced by the operatives on site to comply with the Control of Pollution Act. Precautions should be taken to prevent pollution of any river watercourse, reservoir, drainage or the like by the operatives on site.

600 MAINTENANCE

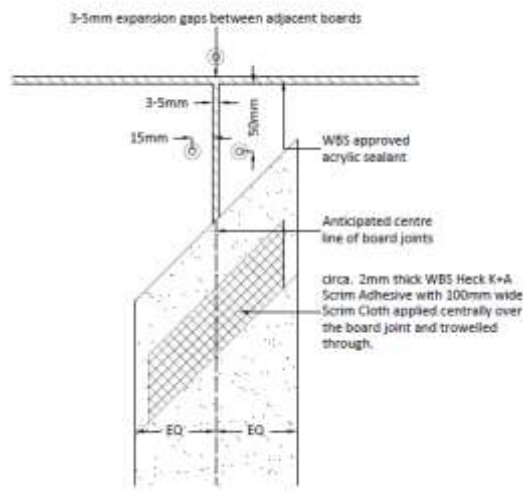
- An initial inspection should be made within 12 months and regularly thereafter to include:
 - visual inspection of the render for signs of damage. Cracks in the render exceeding 0.2 mm must be repaired. Impact damage must be repaired to prevent moisture ingress into the system.
 - visual inspection of architectural details designed to shed water to confirm that they are performing properly.
 - visual inspection to ensure that water is not leaking from external downpipes or gutters, as such leakage could stain or penetrate the rendering.
 - Sealant joints at window and door frames, etc which must be replaced as required.
- Maintenance schedules must be created and maintained for the building, which should include any repairs undertaken and the replacement and resealing of joints (for example, between the system and window and door frame).
- The render may become discoloured with time, the rate depending on the initial colour, the degree of exposure and atmospheric pollution, as well as the design and detailing of the wall. In common with traditional renders, discoloration by algae and lichens may occur in wet areas and can be removed simply with a biocidal wash.
- Damaged areas must be repaired using the appropriate components and procedures detailed in the Certificate holder's installation instructions and in accordance with BS EN 13914-1: 2005. Please see Wetherby O&M Manual and Wetherby Maintenance Information for further details.

Wetherby Cavity Spacer Rail Render Carrier Board Fixing Pattern
(Subject to Wind Load Calculations and Pull-Out Tests)

2400 x 1200MM LAYOUT



BOARD JUNCTION



OPENINGS

