

Wall System 1 to Masonry Structures

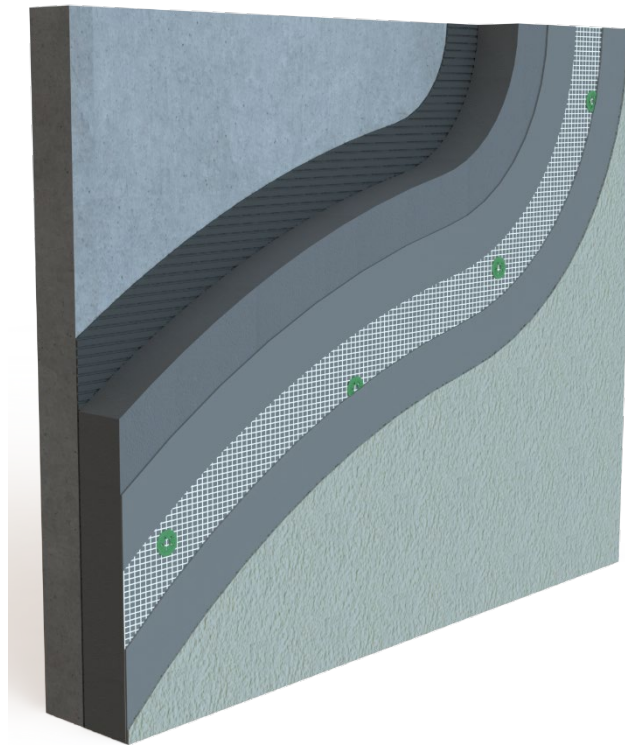
Typical Project Specification



SPS Envirowall Ltd
Lonsdale Chambers
Lonsdale Street, Stoke-on-Trent
Staffordshire
ST4 4BT
technical@spsenvirowall.co.uk
0800 6124662



Project:	Typical Specification
Project Reference:	Generic Specification
Specification Number:	Generic Specification
System:	Wall System 1 Mineral Wool External Wall Insulation (EWI)
Substrate:	Suitable Masonry
Insulation:	Mineral wool EWI Slab
Thickness	200mm
Method of Fixing:	Envirobond adhesive & mechanical fixing
System Finish:	EnviroSil Silicone Topcoat Finish
Accreditation:	BBA: 05/4206 Product Sheet 1



Typical Section through EWI System onto Masonry

Key Contact Details

Regional Sales Manager: Generic Specification

Technical Support: SPS Envirowall Ltd
 E-mail: technical@spsenvirowall.co.uk
samples@benx.co.uk
 Tel: 0800 6124662

Supporting Links [Technical Downloads](#)
[NBS Plus – SPS Envirowall](#)
[NBS Plus – RCM](#)

Date of Issue: 19/06/2023
 Prepared by: SPS Envirowall Technical Services

Project Specification Revision Record (for use on project specific specifications)

Version Number	Date of Issue	Key Revision Amendments / Additions	Requested By	Prepared By	Checked By

Quality Assurance Note: -

The following specification should be read in conjunction with SPS Envirowall Quality Assurance documentation, best practice, and installation guidelines.

Benx ISO CERTIFICATION

- ISO 14001 - ENVIRONMENTAL REGISTERED COMPANY CERTIFICATE No. SP240368
- ISO 9001 - REGISTERED COMPANY CERTIFICATE No. SP240367
- ISO 45001 - HEALTH & SAFETY CERTIFICATE
- ISO 50001 - ENERGY MANAGEMENT

M21

Please note, due to the changing nature of construction regulations this specification is valid for 6 months unless written confirmation from the SPS Envirowall technical team is provided.

The following specification is designed for low rise buildings up to 3 storeys. The system has been designed and validated for use in this environment, however where the building is above these requirements or in a high exposure location, it is advised you seek support from SPS Envirowall technical support team.

Insulation with rendered finish – Masonry Structures

This specification is intended as a design and performance specification and as a preliminary support document to the project specifier. To be read with Preliminaries/General Conditions and in accordance with, SPS Envirowall Installation instructions and good practice guidelines.

GENERAL / SYSTEM REQUIREMENTS**110 SURVEY OF STRUCTURAL SUBSTRATE (Design Considerations)**

As part of the design process and onsite survey prior to site works the following must be considered and incorporated into the design of the structure and External Wall Insulation System.

- Adequacy of continual thermal support, considering any potential thermal bridges.
- Structural support of the SPS EWI system, sheathing board, and any other associated components.
- Weather resistance in the interim period prior to final weather proofing layer of the EWI system
- Pullout of the sheathing board and or masonry support subject to project design.
- Wind and localised impact on the SPS EWI system.
- Any other design considerations prior to application on site to be agreed with, principal designer, installing contractor and SPS Ltd.

120 SURVEY OF STRUCTURAL SUBSTRATE (Masonry)

Timing: Before starting work covered in this specification.

Responsibility: Client / Contracts Administrator /SPS Envirowall Approved Contractor.

Objective: To confirm suitability for application of external wall insulation 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 insulate and render the substrate suitable to receive the system.

A schedule of services, fixtures and fittings requiring removal to facilitate installation of the system.

Check line and level. The system can only deal with localised variations, reference should be made to SPS Technical guidance documents in the event the system varies outside of these requirements.

Proposals for treatment of cold bridges that may occur because of installing the system, e.g., at door and window reveals, concrete floor edges, movement joints.

Any other relevant information.

Remove temporary and or 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.

To confirm suitability of new substrate (Masonry / Concrete) for application of specified external wall insulation system and to coincide with recommendations and allowable system tolerances as stated in the line and level section onwards of the SPS specification.

All relevant standards for framed structures and masonry or concrete supporting structures where relevant:

Steel structures- BS EN 1993-1 & 3:2006/ BS EN 1992-1-1, BS EN 1996-1-1, BS EN 1996-2 & PD 6697).

Masonry – BS 5628 Part1,2 & 3 – Code of practice for use of masonry.

Concrete Structures - BS 8110 Part 1 & 2 / Eurocode 2, BS EN 1992, *Design of concrete structures, Part 1-1, General rules for buildings*

BS 6093:2006 Design of joints and jointing in building construction in line with commentary notes within SPS Envirowall
BBA: 05/4206 Product Sheet 1

All other relevant code of practice deemed relevant must be given reference at this point.

Reference must be given to any relevant NHBC guidance in-particular in relations to clauses

- 6.11 in relation to good practice for application of Render and EWI systems.
- 9.1.2 in relation to line and level of substrate and appropriate finished render & brick slip systems

N.B. Any other information considered relevant prior to commencement on site and final specification issued.

160 REMEDIAL WORKS

Remedial work shown to be necessary by survey (clause 120) and to meet requirements of this specification:

Contracts Administrator / Registered Contractor responsibility.

Prior to contract commencement the appointed contractor should walk site and where appropriate note any issues that may hinder or obstruct the installation of the SPS Envirowall system and or may influence any necessary design changes.

Any variations to the structure or project design must and reflected in a revised specification and be agreed with SPS Technical services prior to the final installation stage.

All necessary repairs to the structure must be conducted by suitably qualified contractors and be complete prior to the application of SPS Envirowall EWI System.

EXTERNAL WALL INSULATION SYSTEM: -

Supplier:

SPS Envirowall Ltd
Lonsdale Chambers,
Lonsdale Street,
Stoke-on-Trent,
Staffordshire, ST4 4BT

technical@spsenvirowall.co.uk

0800 6124662

System reference:

SPS Envirowall Wall System 1 Masonry EWI System

Directly fixed External Wall Insulation (EWI) system.

The system is suitable for installation on external masonry walls.

Supporting Structure:

Masonry including clay and calcium silicate bricks, concrete blocks, and natural and reconstituted stone blocks, concrete or no fines concrete.

Thickness: minimum 100 mm

Insulation:

Insulation Board adhesive – SPS Envirowall Envirobed Adhesive Ref.ESPS/EB-BC

Liquid Water Absorption W24 [kg/m²_h]: < 0.06 to ETAG004 Clause 5.1.3.1.

Vapour Permeability (Sd[m]): ,0.06 to ETAG 004 and EN ISO 7783-3.

Water vapour diffusion resistance : $\mu = 6$

Method of Application: Adhesive Fix

Picture framing effect or full combed adhesive (subject to site requirements) to backside of insulation slab

Thickness: 5 to 10mm

Size: 25kg bag

Dual Density Mineral Wool Ref. RDD200mm

Thickness: 200x1200x600mm

Density: 110kgm³ subject to project requirements

Reaction to fire: A1 BS EN 13501-1: 2018

Lambda Value: 0.036 W/m²K

Compressive Strength: 20kN²/ 50 (at 10% compression)

Vapour permeability (Sd[m]): 0.11 to ETAG 004 and EN ISO 7783-3

Water vapour diffusion resistance : $\mu = 1$

Mineral Wool densities are influencing the thermal performance Lambda values of the insulation board. The Dual Density EWI board types have a nominal average density that is higher at the front face of the boards making it robust and suitable for rendering and fixings to sit on the denser face, then travelling through the middle to the back of the board with a lower density to achieve its Lambda value. The High density Mineral Wool boards are “Mono” density meaning they have a consistent density through its’ thickness and as such has a higher Lambda value than its Dual Density counterpart.

The critical performance data is its Tensile strength perpendicular to its faces and its compressive strength making both types fit for purpose in its use as an EWI insulation slab, supported by the manufacturers Declaration of Performance documents and confirmation that these boards have been specifically developed for use in external wall insulation systems.

Method of fixing: Mechanical Fixings

Fixing Reference: TFIX 8S 155mm and KWL-090PP Washer

Fixing layer – 7 fixings per m² into substrate

Fixing Reference: TFIX 8S 155mm

Refer to project wind loading requirements

Fire Fixings: 1 Stainless Steel Fixing per m² through the main reinforcing mesh

Fixing Reference: MBA SS 08 170mm

BASECOAT & REINFORCEMENT

Base Coat Render : SPS Envirowall Enviroend Base Coat Ref.ESPS/EXG-BC
 Liquid Water Absorption W24 [kg/m²_h]: < 0.06 to ETAG004 Clause 5.1.3.1.
 Vapour Permeability (Sd[m]): ,0.09 to ETAG 004 and EN ISO 7783-3.
 Water vapour diffusion resistance : $\mu = 15$
 Thickness: 3 to 6mm
 Size: 25kg bag

Reinforcement: SPS Envirowall High Performance Reinforcement Mesh Ref.ESPSM100
 Areas: Standard areas
 Method of application: Bedded in top third of Enviroend base coat
 Weight: 180g/m²
 Dimensions / Weight: 4mm x 4mm / 180g/m²
 Tensile Strength (nominal): 2000/2200n
 Roll size: 50 x 1m

Reinforcement: SPS Envirowall High Impact Reinforcement Mesh
 Areas: High Impact / High Traffic Areas
 Method of fixing: Bedded in top third of Enviroend base coat (butt jointed)
 Weight: 210g/m²
 Dimensions / Weight: 10mm x 10mm / 210g/m²
 Tensile Strength (nominal): 2000/2500 N/8cm
 Roll size: 25 x 1m

Primer: EnviroSil Silicone Primer
 Resin bonded primer comprising of quartz with special adhesive additives.
 Supplied in 25L Plastic containers
 Density: 1,79 kg/dm³
 Size: 25kg drum

FINISHES

Decorative finish: EnviroSil Silicone Topcoat
 Density approx. 1,72 kg/dm³
 Vapour Permeability (Sd[m]): ,0.09 to ETAG 004 and EN ISO 7783-3.
 Water vapour diffusion resistance : $\mu = 60$
 Water absorption coefficient $w \leq 0.1 \text{ kg}/(\text{m}^2\text{h}0,5)$
 Grain thickness: 1.5mm
 Coverage: 10m²
 Size: 25kg drum
 Colour: White – TBC Subject to client approval

BEADS/TRIMS/PROFILES/RAILS:

Description:

Full System Beads

Length: 2.5m

Aluminium Base bead Ref. ABP-D100

To be used in conjunction with 6mm PVC Clip mesh bead Ref ESPS2191

Full depth stop bead Ref FSS-100

Vertical movement bead Ref.ESPS/3036

Vertical movement bead (Internal Corner) Ref.ESPS/3035

Horizontal movement bead combination- Ref: ABP-D100 plus Clip on bead Ref.ESPS/9182 Plus Lower base angle Ref.ESPS/9181

N.B – the above Horizontal movement bead must be used in conjunction with the specified starter track.

Surface Mounted Beads

Material: PVC with prebonded mesh reinforcement

Length: 2.5m

PVC Meshed External corner bead Ref: ESPS1023

6mm APU Bead with Mesh 2.4m Length Ref.ESPS1060 (All Openings & Aperture Sealing bead)

6mm Stop Bead with Mesh Ref.ESPS2051

6mm Overhead Drip Bead with Mesh Ref.ESPS2051

Vertical expansion bead up to 3mm movement Ref.ESPS/MJ6p up to 5mm Ref.ESPS/3035.

Expanding Sealing Tape – 3-7mm Ref.ESPS-SEAL 15/3-7 to all openings (windows, doors, etc.)

System Performance: Wall System 1 (Masonry Structure)

System certification: BBA: 05/4206 Product Sheet 1

Testing: ETAG004 Guideline for European Technical Approval of EWI Systems

Fire: A2-s1, d0 reaction to fire classification to BS 476-6:1989 & BS 476-7: 1997(**EnviroSil Silicone**)

Approved up to 18m

Effective/Design Life: 30 years (60 years option available)

Thermal performance - U-Value: TBC Refer to SPS Envirowall U-Value Calculations

Impact resistance: Hard body & Soft Body impact resistance tests to ISO 7892 in accordance with ETAG 004:

Hard body impact - Category II

Soft body impact – no damage at 300 J impact energy

Assessed in accordance with Technical Notes EOTA 034 & 004

Note: High Impact areas or high traffic areas above the tested results (above) it is recommended to include SPS High Impact (Armour mesh 370 g/m²)

DESIGN & COMPLETION - SPECIFICATION NOTES

FIRE DESIGN AND FIRE BARRIERS

Final locations must be agreed by project administrator / designed with consultation with the project fire engineer.

Reference must be made to and cross referenced to the following fire standards and the scope of the tested SPS Render EWI system through the design stage and as the project progresses.

Where the requirements exceed the minimum requirement of Approved Document B, please consult SPS Envirowall technical services for alternative system options.

- Building fire strategy subject to building type and risk category.
- BS 9999: Code of practice for the fire safety in the design, management, and use of buildings.
- Where the requirements exceed the minimum requirement of Approved Document B, please consult SPS Envirowall technical services for alternative options.
- BS 9991:2015 Fire safety in the design, management, and use of residential buildings. Code of practice
- BR 135 Fire performance of external thermal insulation for walls of multistorey buildings, third edition (BR 135 - 2013)

Spec System Ref: M21_WS1_Masonry, Mineral Wool Specification

Document Ref: S_WS1_M_MW200_R_01

ISO Number: 5111-19-M-MW

Revision: 1

Date of Issue: 19/06/2023

DESIGN WIND LOADS

Typical main fixing pattern to be fixed through the mesh in a 375 x 375mm grid, with 100mmx100mm square mesh patches covering the washer heads embedded into the basecoat layer. Fixing pattern to be agreed with SPS Envirowall prior to commencement of insulation fixing application.

Wind loads greater than 3.30kN/m² – Additional fixings will be required and additional sacrificial fixings across the centre line of the insulation at a frequency of 2 per slab using the KWL-090PP spreader washer.

The figures quoted in the main body of this specification are typical values. The system shall be designed to have sufficient strength to withstand wind action loads in accordance with BS EN 1991-1-1-4.

Where projects are in an exposed location (coastal) or it is likely in a high wind pressure location depending on height typography, etc. a wind load calculation may be required for this project. In such instances a design wind loading evaluation should be done by the client / designer. Account should be taken for the shape size and location of the building.

Please contact SPS Envirowall to arrange a project specific wind load calculation to be conducted should it be required.

VAPOUR PERMEABILITY

- Not less than that of the construction to which it is applied to
- Qualified by Condensation and dew point risk analysis calculations including the overall building fabric.
- SPS Technical services can provide project specific calculations to evidence.

BREATHER MEMBRANES

The system is designed for use without the need for a breather membrane and mechanical and adhesive fixing is a priority for performance of the system. However, whilst every project is different, and we are not responsible for the overall design of the façade, and where the sheathing board is specified outside of the scope of this specification the further validation of the sheathing board may be required.

Where RCM Y-Wall is the primary sheathing board and substrate, we can confirm that Y-Wall has been evaluated to BS 12467 Cat A for use in applications where the board may be subjected to heat, high moisture, and severe frost. As such a membrane to protect the product is typically unnecessary.

Consideration must be given to the design and install of the sheathing board and the timescales between installation of the sheathing board and the installation of the EWI system.

DESIGN

The EWI system is designed within the scope of the KIWA BDA Certificate and the parameters of the Technical Notes EOTA 034 & 004 (European Organisation for Technical Assessment). Also, reference should be given to the relevant code of practice, detailed below, which refer to installation and design of Render and EWI (ETICS) systems.

It is the installing contractor and or the principal designer's responsibility to design the system and install within the scope of this certificate and guidance notes, any deviation to the principal design must be source agreement of SPS Envirowall and revised project specification issued prior to any works on site.

EXPANSION / MOVEMENT JOINTS

Movement joints should be formed in the SPS Envirowall system where full structural movement joints are required and where dissimilar background materials abut each other. Usually, the insulation boards can be carried across blockwork movement joints without the introduction of a movement joint within the system.

No additional joints are required for the integrity or expansion of the system.

Day joints may be required for practical reasons and the positioning of these joints should be agreed between the client contractor and SPS Envirowall prior to the commencement of the works.

Horizontal and vertical movement joints (designed to cater for the calculated degree of movement to control expansion, contraction, and cracking without reducing the stability and weathertightness of the wall) shall be carried through the system using movement beads of PVC, Powder coated galvanized steel or austenitic stainless steel as appropriate according to the project specific design. For systems on masonry substrates the masonry joints within the system shall be provided at 7.5m intervals when the length of the wall exceeds 12m in accordance with PD6697 & BS EN 1996-2.

INSTALLATION GUIDANCE & GOOD PRACTICE SPECIFICATION NOTES

SAMPLES

Submit SPS Envirowall A5 Samples & examples of finished render, colour, and texture of agreed finishes items for approval.

SITE SAMPLE

Prior to any works commencing on site as minimum 1m x 1m sample panel should be produced ONSITE by the appointed contractor and used as a control sample for finish, texture, and a representation of the agreed standard of work.

Keep approved samples on site for the duration of the contract for inspection/ comparison purpose.

UNIFORMITY OF COLOUR AND TEXTURE

Once samples of coatings have been approved, do not change type or proportion of constituent materials unless agreed with Contract administrator and other relevant parties.

Ensure that supplies of materials are sufficient to give consistent and uniform colour and texture. To minimise variations in colour, avoid dry jointing and continuous surfaces must be completed without breaks.

Programming of work to coincide with elevation breaks, stoppages and weather is vital.

INSTALL

Installation of SPS Envirowall System MUST Follow recommended install guidelines in line with the above specification and good normal site practice, please refer to SPS Envirowall Install and design guidance documents.

Supporting this specification is a site install and best practice guide where some of the following notes and standards are referenced plus more detailed instructions for installation.

BS EN 13914-1:2016 Part 1 AND BS 8000-0:2014

All rendering should be in accordance with the relevant recommendations of BS EN 13914-1:2016 Design, preparation and application of external rendering and internal plastering - Part 1: External rendering and BS 8000-0:2014 code of Practice for plastering and rendering, and SPS Envirowall Limited's instructions.

BS EN 13500:2003

Where relevant guidance should be notes and referenced from BS EN 13500:2003 - Thermal insulation products for buildings - External thermal insulation composite systems with renders (ETICS)

BS 6150:2006 (+A1:2014) (incorporating corrigendum No.1) AND BS 8000-0:2014

All SPS Envirowall masonry paints and decorative finishes must be applied during suitable weather conditions to dry backgrounds, strictly in accordance with SPS Envirowall Limited's instructions and the relevant clauses in BS 6150:2006 Painting of buildings - Code of practice (+A1:2014) (incorporating corrigendum No. 1) and BS 8000-12:1989 Workmanship on building sites, Code of Practice for decorative wallcoverings and painting.

NB. BS 8000: Part 12: 1989 was partially superseded by BS 8000-0:2014 but remains current and is cited in Building Regulations. BS 8000-0:2014 Workmanship on construction sites. Introduction and general principles.

SITE STORAGE OF SPS ENVIROWALL MATERIALS

Site storage and protection of SPS Envirowall materials must be in accordance with the manufacturer's instructions.

MIXING OF RENDERS AND ADHESIVES

All SPS Envirowall renders are mixed using a paddle mixer in accordance with manufacturer's recommendations.

COATING OF NEWLY APPLIED RENDER

The coating of newly applied render is to be delayed by a minimum of 48 hours in good drying conditions to allow basecoat to set before any further required render layers including adhesive.

PROGRAMMING THE WORK

The contract administrator must ensure that the work is programmed to be carried out during suitable weather conditions, taking into consideration seasonal variations and allow sufficient time in the programmed for stoppages due to inclement weather.

PROTECTION TO NEW WORK

The main contractor must provide protection to new work during inclement weather using a protection system suited for the worst weather conditions that can reasonably be anticipated. The main contractor must monitor local weather forecasts and if necessary, modify their protection system accordingly. Failure to carry out such protective measures must make any resulting failure in the SPS Envirowall products or systems the sole responsibility of the main contractor.

COVERAGE RATES

SPS Envirowall Limited will not, under any circumstances, guarantee coverage rates quoted for products. The rates quoted are based on site experience but may vary due to site conditions, operator skills etc. Contractors quoting for contracts must ensure that coverage figures can be achieved in each particular instance. No claim against SPS Envirowall limited will be allowed relating to coverage of materials.

AVOIDANCE OF COLOUR SHADING

To minimise colour shade variations and to avoid dry line jointing, continuous surfaces should be completed without a break. If breaks cannot be avoided, they should be terminated where services or architectural features, such as drainpipes, reveals or lines of doors and windows, which helps mask joints. Where long uninterrupted runs are planned, the material should be checked for batch numbers to safeguard colour consistency. Materials having the same batch number should be used to complete an elevation. See relevant product data sheets of any allowance of water being applied to the products.

All SPS Envirowall masonry paints and decorative finishes must be applied during suitable weather conditions to dry backgrounds, strictly in accordance with SPS Envirowall Limited's instructions and the code of practice and good practice guides to eliminate or reduce wherever possible the effect of variations in colour.

REPAIR TO DAMAGE

An SPS Envirowall Approved Contractor using the appropriate components must be used to repair damaged areas and procedures detailed in the SPS Envirowall installation instructions.

Conventional rendering techniques and SPS Envirowall render materials are used to repair damage to the product.

Damage to the product should be repaired immediately and repairs should be carried out in accordance with the relevant recommendations of BS 5262: 1991 BS EN 13914-1:2016 Design, preparation and application of external rendering and internal plastering. External rendering (Incorporating corrigendum April 2017).

Regular maintenance checks should be carried out on architectural details for shedding water and on external plumbing and fittings to prevent penetration of water into the rendering.

HEALTH AND SAFETY

The fibres used in SPS Envirowall renders may irritate the skin. Protective clothing should be worn to avoid contact with both dry, unmixed material and with wet mortar. Great care must be taken to avoid contact with the eyes.

When mixing SPS Envirowall materials a filter respirator should be worn.

Where excessive concentrations of dust may accumulate the measures defined in the Health and Safety Executive publication EH40/2005 Workplace exposure limits for unlisted substances should be followed. Note that EH40 is published annually, and the current edition should be followed. Any concerns regarding application, use and disposal of products please request the relevant MSDS data sheets.

DURABILITY

The system should remain effective for at least 30 years, provided any damage to the surface finish is repaired immediately, and regular maintenance is undertaken including checks on joints in the system and on external plumbing fittings to identify leakage of rainwater into the system, and appropriate steps are taken to correct the defects.

LIME BLOOM

Lime is not present within the topcoat system, so lime bloom cannot occur. Some of our cementitious basecoats and topcoats do have Lime and cement content and, as such, caution must be taken in weather conditions stated in the causes below.

SPILLAGE OF SPS ENVIROWALL COATING MATERIALS AND MASONRY PAINTS

SPS Envirowall render coatings and paints are highly adhesive and all necessary precautions must be taken to protect footpaths, windows, adjacent walls, roof surfaces etc. from spillage, which may cause stains. All windows and adjacent surfaces should be protected during the application of SPS Envirowall products.

WINDOWSILL PROJECTION

Where window frames incorporating windowsills are to be provided by others, then the sill projection must be to a minimum of 40mm beyond the outside line of the SPS Envirowall system.

SCAFFOLDING

Wherever possible independent scaffolding should be used to avoid the need to subsequently make good holes and other breaks in the work.

Where the scaffolding is required to be tied back to the building it is normal to recommend and provide access points for future scaffolding required for maintenance inspection and repairs.

The scaffolding must be arranged to enable good access to be obtained to the whole of the facade of the building and sufficient clearance for working is to be provided between the scaffolding and the finished surface of the external wall insulation system. An allowance must be included for the thickness of the finished system on the face of the building.

LINE AND LEVEL OF BUILDING

The terms "line and level" used in conjunction with this specification refer only to dealing with minor localised variations in the surface to which the system is applied.

The insulation system will follow the line of the building. Therefore, the system is capable of accommodating localised deviations in the substrate and able to facilitate levelling of an elevation that deviates by up to 20mm when used in accordance with the appropriate adhesive methods.

The system cannot correct major variations in line and level over several storeys in height and over large areas of elevations, and in these cases will basically follow the line of the existing building unless these building irregularities are overcome by a treatment, prior to the applications of the External Wall Insulation system.

WEATHER CONDITIONS

Application of the system must only be conducted in suitable weather conditions. SPS Envirowall renders, and adhesives must not be applied in rain, fog, or mist, at temperatures below 5°C or above 30°C or (application may start +3°C and rising and cease at +5°C and falling) or if exposure to frost is likely to occur during drying. SPS Envirowall renders must not be applied to saturated, or frost bound walls and insulation boards. In sunny weather work should commence on the shady side of the building and be continued round following the sun to prevent the rendering drying out too rapidly.

SERVICES AND PENETRATIONS

Prior to any commencement of works on site a full list of any services, penetrations and or M & E services must be notified, checked, and installed before the main EWI work progresses.

SEALING SYSTEM

Primary Seal - SPS Envirowall Sealing tape Ref.ESPS-SEAL 15/3-7 – 3-7mm where system abuts window and door frames. Remove self-adhesive tape and apply at windows or any other apertures.

Secondary Seal - Low Modulus Silicone Sealant to all key areas susceptible to penetration of moisture and or wind driven rain.

SUPPORTS / SERVICE PENETRATIONS

Where service ducting and/or attachments penetrate the system, guidance must be sought from SPS on the nature of the fixings and support brackets where appropriate.

In the instance of service ducting the designer and or M&E contractor the EWI systems should not be considered as fire stopping for any service penetrations into the structure.

GENERAL NOTES

The purpose of these draft specifications is to assist the Project design team in producing the respective documentation for any project under consideration.

The draft specifications are provided in good faith for use at the discretion of the respective design consultants, to be amended and edited as required to suit the project requirements. As manufacturers/suppliers Benx Technical is not privy to detailed contractual arrangements and documentation of individual projects and is therefore not in a position to co-ordinate related work by others. It is not the intention for this draft to relate to any particular project, but to provide a guide to the more common items encountered in construction assemblies incorporating SPS, and RCM products.

Whilst it is the Planning supervisor/Quantity surveyors/Project designer's responsibility to produce their respective documents and we can assist them in their duties, we cannot accept responsibility for any errors or omissions which may occur in tender or contract documents or for compliance with the requirements of the CDM and Health & Safety regulations which may be applicable.

Finally, please ensure that any amendments to Benx Technical draft specifications represent a true interpretation of the project designer's requirements.