



System Information Basic FS

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alsecco Basic 1 FS

M21 EXTERNAL INSULATED RENDER SYSTEM

To be read with Preliminaries/General conditions.

Please see notes at the end of this specification in relation to compliance with NHBC requirements.

TYPE(S) OF COATING	Alsecco Systems:	Alsecco External Wall Insulation System – adhesive and mechanical fix. Must be applied in strict accordance with the manufacturer's written recommendations by a contracting partner from Alsecco UK Ltd's current list
	Proprietary Render:	Alsecco 'Basic 1' EWI System - Adhesive and mechanical fixed
Manufacturer and reference Office: Alsecco (UK) Ltd, Wh	:: Alsecco Systems are mani hitebridge Way, Stone, Staffs,	nufactured by Alsecco GmbH & Co. KG, Wildeck, Richelsdorf, D36208, Germany. UK ST15 8GH Tel: 01785 818998 Fax: 01785 818144 www.alsecco.co.uk
System Materials & Components		In all cases, substrate should be deemed fit for purpose prior to the application of Alsecco External Wall Insulation
	Location: Substrate:	Example FS System-Suitable Sheathing Board by others (Based on min 10mm cement particle board- See Details
1.1 System Components:	Sheathing Layer: Adhesive: Insulation Type:	Alsecco Top Hat Section mechanically fixed Cement Particle Board Min 12mm Armatop MP EPS Graphite Enhanced
	Thickness: 'U'-Value: Basecoat: Top Primer: Topcoat: Paint Finish: Deco Profiles: Brick Slip	TBC W/m2K Armatop MP (4-5mm) and Reinforcing Mesh 32 Top Primer SC Silitect T1.5 Aliscolor Carbon No
1.2 Accessories:	Base Rail: Stop Beads: Corner Beads: Mechanical fixings:	No A75 note shims and ventilation profile as detail STD-NHBC-Steel/002 W75 3707 Corner bead with Mesh SW8R-T140mm + SBV6.5/90 washer & **CPFF140 *** (See notes below) See Alsecco recommended fixing pattern.
	Dammflex: Sealing Strip 13/2: APU Bead: PU Foam: PU Flex: Disbon Primer: Balcony Drip Bead: Expansion Joints: Alsecco Cill: Window Channel: Intumescent Strip:	Note NHBC requirement to centre pin board with Stainless Steel Washer. Yes Yes Optional Yes No Only where exposed steel is present Yes Required only where present in Substrate No Aluminium channel as detail STD-NHBC-Steel/004 Fire Sealing Strip As detail STD-NHBC-Steel/008

Notes:-Preparation of existing surfaces: Ensure existing substrate is clean, sound and free from all adhesive reducing residue/surface contaminants. Refer to recommendations of BSEN13914-1:2005 including annex B. Bond tests/Sample area recommended prior to complete application.

Lam100- Lamella Fire Breaks required to be installed in line with section 2.8



^{*} Alsicolor Carbon can be applied where increased weathering resistance is required due to coastal localities in order to reduce airborne salt and algae colonization.

^{**} CPFF - Fire Fixing must be applied through the system mesh at a rate of 1 per m2 above the second storey. (Please see technical detailing for installation.

^{***}All fixings subject to pull out testing & Wind load calculations

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	1018 5 "	
System Material & Component Description	1.3 Base Rail:	Aluminium horizontal base rail 2m long. (For Reference, see Section 1.2.) Base rails shall be fixed to substrates with zinc coated carbon steel hammer-drive fixings (minimum 6mm diameter, shank 60 - 80mm long) and to wooden substrates with panhead or washer-head stainless steel wood screws (minimum 32mm long). Spacing of fixings to be maximum 300mm centers. Contractor to ensure that system complies with CP3: Chapter V: Part 2: 1972 in relation to its structural stability.:
	1.4 Substrate Primer:	In accordance with Section 1.1
	1.5 Adhesive:	In accordance with Section 1.1: Mixed with Clean Water Only
	1.6 Insulation Board:	i: Expanded Polystyrene (EPS) Board. Nominal Density 15kg/m³. To BS3837 Part 1 2004. Thermal Conductivity: 0.037 W/mK; Flame Retardant Class P to BS476 Part 5. ii: Thickness shall be as indicated under Section 1.1. iii: EPS Board shall be aged, prior to cutting, by air drying for 6 weeks or equivalent kiln drying. iv: Maximum size of EPS Boards shall not exceed 1200 x 600mm v: EPS Boards shall exhibit minimum 80% bead fusion and physical properties according to BS3837 Part 1 2004.
	1.7 Fire Barriers:	To comply with the recommendations of the BRE, horizontal Fire Barriers require to be placed at every floor level above 2 stories. (Ground, first and Second Floor do not require these barriers). These barriers comprise of 1000 x 200mm Rock fibre Lamella Panels, applied in a continuous strip around the building. All fire barriers must be double meshed with an overlap of 200mm above and below the barrier (where applicable.)
	1.8 Beading:	Provide beads and stops at all external angles and stop ends except where detailed otherwise. See section 1.2 for Reference.
	1.9 Reinforcing Coat:	In accordance with Section 1.1 mixed with Clean Water Only.
	1.10 Reinforcement:	Reinforcement shall be Specified Alsecco Reinforcing Mesh as per Section 1.1 & Clause 1.9 with symmetrical interlaced glass fibre made from twisted multi-end strands, coated to provide a high resistance to alkali attack and is manufactured so as to prevent laminar movement and deformation.
		In accordance with the appropriate details, Panzer mesh or Armatop Carbon Fibre with Carbon mesh can be used in areas at risk of impact damage.
_	1.11 Topcoat Primer:	In accordance with Section 1.1
	1.12 Topcoat:	Alsecco through coloured Topcoat, in accordance with Section 1.1
Execution	2.1	All installation of Alsecco materials in the UK shall be performed by Alsecco Contracting Partners. Under no circumstances shall any of the Alsecco products be altered with any additives, except for small amounts of clean water as directedon the label.
	2.2	If required, apply Alsecco Sub primer to substrate. (See section 1.1 for reference.) All substrata must be free of loose particles, dust, grease and oils, or any adhesion reducing substance.
	2.3	If required, a fungicidal wash must be applied.
	2.4	All exposed metal work that is to be covered by Alsecco EWI Systems to be coated with an appropriate primer e.g. Disbon or similar and left to dry prior to EWI application.



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Execution	2.5	If substrate is of poor alignment and levelling is required, use Alsecco TZ1 basecoat (without reinforcing mesh). Not suitable for lightweight or AAC Blockwork.
	2.6	Align base rail and fix with Alsecco anchors spaced at a maximum of 500mm apart - ensure that the base rail is not distorted. Insert base rail connectors at all rail joints. Corners should be made with mitred cuts, or an Alsecco pre-formed corner section. Level and line can be adjusted using Alsecco spacers available in a range of sizes.
	2.6.1	Align the horizontal rails and fix with Alsecco anchors at a maximum of 300mm centres – ensure that the rail is not distorted. Alsecco Packers should be used to achieve correct alignment of the horizontal rails
	2.7	Mix Alsecco adhesive mortar and apply to back of Insulation board using spot and continuous dab method. The adhesive mortar must cover at least 50% of the board / substrate unless detailed otherwise. (Typically dab and 3No. Spots per board). On flat and even substrate, the tooth bed method of application can be used. 100% of board / substrate must be covered when using the tooth bed method of application with Insulation board. On substrates where mechanical fixings are not required, the tooth bed method must be used.
	2.8	The Lamella Mineral Wool Fire Barriers are fixed at the desired position and are applied with 100% adhesive mortar. This is then fixed with stainless steel mechanical fixings at a maximum of 400mm centres. The reinforced basecoat must have additional reinforced mesh applied, above and below the Firebreak barrier, overlapping by 200mm
	2.9	Ensure that all insulation board edges are clean and free of adhesive mortar. All joints must be staggered, min 200mm (see Fixing Layout Detail); additional cutting may be required around doors and windows to ensure that board joints do not correspond with corners of openings. Fit the insulation boards tightly and bed well. Any open joints between insulation boards up to a max width of 10mm must be closed with a strip of insulation board or PU foam - NOT adhesive mortar or render.
	2.10	Allow approx. 12 to 72 hours drying time for Alsecco adhesive mortar, depending on type of adhesive mortar and weather conditions. Subsequent rendering, mechanical anchoring or finishing work on insulation boards must not be carried out until adhesive mortar has set and not before 24hrs.
	2.11	Mechanical fixings (if required) as specified in Section 1.2 are specified according to board thickness and substrate. Anchors should be fixed in accordance with the manufacturer's instructions and Alsecco fixing requirements. (See Fixing Layout Detail)
	2.12	Rasping of the EPS Board surface must be carried out over the whole surface to achieve a smooth, even finish, prior to application of a reinforcing coat. For curved wall applications, rasping must achieve a smoothly curved surface with no visible faceting or unevenness.
	2.13	Install Propriety Alsecco Sealant in conjunction with detail drawings. (See Section 1.2)
	2.14	Corner bead and any additional beading as specified in Section 1.2 to be secured to insulation boards with Alsecco Basecoat render at corners and align until plumb.
	2.15	All beads should be cut neatly, mitres formed at return angles and sharp edges, swarf and other potentially dangerous projections removed. Fix securely, using the longest possible lengths, plumb, square and true to line and level, ensuring full contact of wings with background. After coatings have been applied, remove coating material while still wet from surfaces of beads/stops, which are to be exposed to view.



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Execution	2.16	Apply Alsecco Basecoat render (as specified in Section 1.1) to the fixed insulation boards using a stainless steel trowel. Level out using a plasterer's straight edge or by combing through with a 10x10 tooth trowel. Float specified reinforcing mesh (see section 1.1) into the top of the basecoat render, ensuring a minimum horizontal and vertical overlap of 100mm for the glass mesh. All corners at openings must be additionally reinforced with 250 x 250mm mesh strips embedded diagonally into the wet basecoat render. Immediately trowel the mesh into the basecoat while still wet and smooth off to finished thickness using a stainless steel trowel. For optimum strength, the mesh must sit in the top one third of the basecoat. Leave basecoat render to set for at least 2 to 3 days before applying Alsecco topcoat renders. Adjoining areas of EPS insulation and Extruded Insulation must have an additional strip of reinforcing mesh applied within the basecoat with a minimum 200mm overlap.
	2.17	Apply allocated Alsecco Topcoat Primer (see section 1.1) to dry basecoat render using a short pile roller, prior to applying stated Alsecco Topcoat. Drying time 2-6 hrs (weather dependant).
	2.18	Prior to the application of topcoat, all scaffolding boards should be cleaned to ensure minimum dirt being transferred onto the finished topcoat. The topcoat is a finishing trade, work sequencing should ensure that no or very minimum work is carried out onto the render after application of topcoat. Where Scaffold plugs are to be retained, appropriate Scaffold Ties to be used in accordance with system details.
	2.19	Apply specified topcoat render (see section 1.1) using a stainless steel trowel and immediately create the desired effect using a plastic finishing trowel. Drying time of topcoat render is approximately 1 to 2 days (weather dependant).
	2.20	The topcoat render, is applied in accordance with the following general rules: a Using a clean, rust-free low speed mixer, thoroughly stir the Alsecco finish to a uniform consistency.
		b Finish shall be applied in a continuous application always working to a wet edge. Care should be taken to avoid texture changes at different levels. To prevent staining of the finish coating, always ensure that the scaffold boards are free from dust before commencing application of the final coat.
		If possible, entire sections or elevations should be coated in a single operation to avoid joint marks in the finish. Often this can be achieved by working to natural breaks in the building or changes in colour or texture. Where day-joints are unavoidable these should be made to coincide with natural features such as a line of window cills. Apply a masking tape at the desired position of the joint and apply the finish overlapping the edge of the tape. Carefully remove the tape while the finish is still wetto leave a fair edge. Once the finish material has set subsequent applications may be applied by masking the previously completed section with tape and carefully applying the new finish to achieve a barely visible joint.
		c Only in situations where mineral renders (Miratect & Alsilite) are to be used, irregular shading and patching due to uneven drying cannot always be avoided. Evenness of colour can be achieved by applying ALSECCO Equalising finish.
		eq:def:def:def:def:def:def:def:def:def:def
		e. An option for areas of high salt-water attack, a final coat of Alsecco Alsicolor Quatro can be applied.



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Protection and Cleaning	3.1	All installation of Alsecco materials in the UK shall be performed by Alsecco Contracting Partners. Under no circumstances shall any of the Alsecco products be altered with any additives, except for small amounts of clean water as directed on the label.
	3.2	All plasters described should never be applied if ambient and surface temperatures cannot be kept above $+3^{\circ}\text{C}$ for mineral products, $+5^{\circ}\text{C}$ for acrylic and silicon products and $+1^{\circ}\text{C}$ for ice products during application and drying period. Prior to installation, the wall shall be free of residual moisture. The stored material should be protected from frost and strong sunlight.
	3.3	Although it is preferable when working with highly pigmented renders to mask or protect other building elements such as windows, sills, etc., spilled or dropped materials may be removed easily from most surfaces with a wet sponge or cloth before the material has dried out. Renders which have been allowed to partially dry may be removed by using a soap solution to soften the render and warm water to clean the surface. Absorbent surfaces such as concrete, brick, etc. maybe affected by the pigments of the render and where spillage is likely then these surfaces should be protected with appropriate covering material.
General Comments	4.1	Remove efflorescence, dust and other loose material by thoroughly dry brushing. Remove all traces of paint, grease, dirt and other materials incompatible with coating by scrubbing with water containing detergent and washing off with plenty of clean water. Allow to dry before applying coatings unless specified otherwise.
	4.2 (515) KEYING/BONDING:	Prepare backgrounds as specified for the type of coating to be applied. Methods other than those specified may be submitted for approval.
	4.3 (573) TREATMENT OF ORGANIC GROWTHS:	Biocides must be approved and registered by the Health and Safety Executive (HSE) and listed in the current 'Reference Book 500', as surface biocides.
	4.4 (810) APPLICATION GENERALLY:	Apply each coating firmly to achieve good adhesion and in one continuous operation between angles and joints. All coatings to be not less than the thickness specified firmly bonded, of even and consistent appearance, free from rippling, hollows and ridges. Finish surfaces to a true plane, to correct line and level, with all angles and corners to a right angle unless specified otherwise, and with walls and reveals plumb and square. Prevent excessively rapid or localised drying out. The standard at finish meet the requirements of BSEN 13914-1: 2005 NA.15 assessment of external rendered finishes Alsecco would recommend where possible that the variation in gap under a 1.8m straight edge (with feet) placed anywhere on the surface to be not more than 3mm.
	4.5 (880) DRYING:	Work in the shade and out of drying winds whenever possible. Allow each coat to dry out thoroughly to ensure that drying shrinkage is substantially complete before applying next coat.
	4.6 (890) PROTECTION:	Adequately protect newly applied external coatings against frost and rain for the first 48 hours using polyethylene sheet / Debris netting hung clear of the face, or other approved method.
	Notes:	It is a current requirement of the NHBC to include a drain cavity behind the insulation system. Alsecco achieve this by fixing a further layer of cement bonded particle board on 15mm deep vertical galvanised steel tophat channels, onto the existing racking board. The insulation system is then affixed as normal, over this additional board.



Haftgrund P - (Sub Primer P)

Pigmented resin-bonded primer for decorative renders.



AREAS OF APPLICATION

Primer to even out colour variations and improve adhesion before applying final coat with resin renders and mineral renders.

For indoor and outdoor use.

PRODUCT PROPERTIES

- Absorbency regulating
- Water-vapour permeable
- Water-repellent
- Promotes adhesion
- Improves adhesion
- Improves the ability to texture subsequent decorative renders
- Non-slip surface because quartz filled
- Provokes ideal and economical application of the decorative render

TECHNICAL DATA

Binder base Terpolymer resin dispersion

Specific gravity approx. 1,7 g/cm³

VOC value EU limit value for the VOC content of this product (cat. A/h): 30 g/l (2010). This

product contains < 10 g/l VOC.

APPLICATION INSTRUCTIONS

Substrate pre-treatment All substrates must be stable, level, clean, dry and free of any residue, which can

reduce adhesiveness.

Prime substrates to be reinforced with Hydro penetrating primer.

Mixing Ready to use

Can be diluted with a max. of 20 % water.

Application Can be applied using a brush, roller or spraying.



Use short pile rolls for even application.

It is recommended to use a primer in the colour of the subsequent textured

render for unsealed textures.

Consumption approx. $0.3 - 0.4 \text{ kg/m}^2 \text{ (approx. } 200 - 250 \text{ ml/m}^2\text{)}$

Determine the precise material requirements by means of a trial coating on the

object.

Information about the weather Temperatures below + 5 °C may not arise during application and drying.

Drying time approx. 2 - 6 hours

Dependent on temperature and relative humidity.

Cleaning of tools In a fresh state with water.

Application by machine Please request special information regarding machine processing.

STORAGE

Shelf life in original sealed packaging of at least 1 year when kept cool and protected against frost.

PACKAGING INFORMATION

Colour Natural white and pigmented in the colour of the subsequent render

Packaging unit PP bucket approx. 20 kg net

OTHER INFORMATION

Information on safety The information provided in the current safety data sheet applies.

Transportation Not a hazardous material

Giscode M-DF02 latex paints





Hydro-Tiefgrund - (Sub Primer HT)

Solvent-free dispersible resin primer



AREAS OF APPLICATION

Hardening and regulation of absorbency of mineral and weathered indoor and outdoor resin-bound substrates, for walls and floors.

Suitable for brickwork, concrete, screed and mineral bound building boards.

Hardens gypsum and anhydrite bound boards, surfaces, renders/renders and screeds with an effective moisture barrier.

Also suitable for priming prior to follow-up work indoors, such as laying tiles and wallpapering as well as for all kinds of coatings.

Hardening of mealy, priming surfaces.

PRODUCT PROPERTIES

- High penetration depth because finely dispersed
- Very strengthening
- Water-vapour permeable
- Low-noise
- · Absorbency regulating
- Improves the adhesion of subsequent layers

TECHNICAL DATA

Binder base Acrylic resin dispersion

Specific gravity approx. 1,0 g/cm³

VOC value EU limit value for the VOC content of this product (cat. A/h): 30 g/l (2010). This

product contains < 1 g/l VOC.

APPLICATION INSTRUCTIONS

Substrate pre-treatment All substrates must be free of oils, greases and loose particles.

Mixing Ready to use

Depending on the absorbency of the substrate, dilute the base material with



water using a max. ratio of 1:2.

Application Can be applied using a brush, roller or spraying.

Consumption approx. 200-400 ml/m².

Determine the precise material requirements by means of a trial coating on the

object.

Information about the weather Temperatures below + 5 °C may not arise during application and drying.

Drying time approx. 2 - 4 hours

Dependent on temperature and relative humidity.

Cleaning of tools In a fresh state with water.

Application by machine Please request special information regarding machine processing.

STORAGE

Shelf life in original sealed packaging of at least 3 year when kept cool and protected against frost.

PACKAGING INFORMATION

Colour Opaque blue and dries transparent.

Packaging unit PP canister approx. 10 l

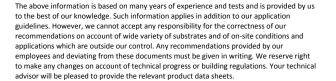
OTHER INFORMATION

Information on safety The information provided in the current safety data sheet applies.

Transportation Not a hazardous material



Kupferstraße 50 D-36208 Wildeck Phone 03 69 22 / 80-0 Fax 03 69 22 / 88-330 Internet: www.alsecco.de





Armatop MP

Adhesive and reinforcing compound for alsecco facade systems



PRODUCT PROPERTIES

- A material for insulation board bonding and reinforcement
- Weatherproof
- Water-repellent
- Highly water-vapour permeable
- Strong adhesive power on nearly all substrates
- Highly elastic
- Normal render mortar according to DIN EN 998-1

TECHNICAL DATA

Indicated fixed values represent average values, which can slightly vary from delivery to delivery due to the application of natural raw materials.

Binder base Mineral binding agent according to DIN EN 197-1 and DIN EN 459-1

Resin dispersion powder

Apparent density of set mortar approx. 1,4 g/cm³ according to DIN EN 998-1

Adhesive pull strength \geq 0,08 N/mm² according to DIN EN 998-1

Adhesive pull strength on

polystyrene

≥ 0,08 N/mm²

Water vapour permeability $\mu \leq 25$ according to DIN EN 998-1

Water permeability $w \le 0.2 \text{ kg/(m}^2 \text{h}^{1/2})$ according to DIN EN 1062

Fire behavior A2-s1, d0 according to DIN EN 13501 Water absorption Class W_2 according to DIN EN 998-1 Compressive strength Class CS IV according to DIN EN 998-1

Diffusion-equivalent air-layer

thickness (3,0 mm)

s_d < 0,1 m according to DIN EN ISO 7783



APPLICATION INSTRUCTIONS

Preparation

Mask window sills and attachment parts.

Substrate pre-treatment

All substrates must be stable, dry, level (DIN 18202 or 18203), clean and free of any residue, which can reduce adhesiveness.

Pretreat substrates according to the following specifications:

Substrate	Treatment
Mineral substrates, structurally identical to new construction	Cleaning
Renders MG PII, PIII, stable, solid	None
Renders MG PII, PIII, sandy surface	Hydro penetrating primer
Stable old coats or coatings, non-chalking	Clean with high pressure water jet
Stable old coats or coatings, chalking	Clean with high pressure water jet, prime with Primer P
Unstable old coats or coatings	Remove coat/coating, Hydro penetrating primer
Mineral wool facade insulation boards	None
Polystyrene facade insulation boards, in mint condition	Remove thickness or height discrepancies by sanding, remove any accumulated dust
Polystyrene facade insulation boards, weathered	Sand down unstable area of the surface, remove any accumulated dust

Mixing

25 kg of material (one sack) in approx. 5,7 l of water.

Mix with electric mixer or compulsory mixer.

Do not mix more material than can be used within 2 h.

Application as adhesive

Prime mineral insulation boards before application of the Armatop MP in the adhesive area.

Bond according to bead-spot or buttering-floating method.

Minimum adhesive surface: 40%.

Do not apply any adhesive in the area of the joints on the insulation boards. Never seal joints between insulation boards using adhesive but rather with



insulation strips or PU filling foam.

Install insulation boards in offset stretcher bond formation and butt together.

Bead-spot method

Apply circumferential beading bevelled to the edge of the board, to avoid adhesive being pressed into the butt and bed joints when attaching the boards.

Apply 3 - 6 adhesive dots for 0.5 m² insulation board surface.

Never fix insulation boards using spot bonding.

Buttering-floating method

Use only for level substrates.

Immediately after application of the adhesive, position insulation boards on the substrate and butt.

Mechanical adhesive application

Apply the material to the rear side of the insulation boards using a suitable mortar pump and adhesive applicator gun.

Apply the adhesive directly to the wall when using coated lamella insulation boards (Speed-Wall). Before installing the insulation boards, comb through using a notched trowel.

After application of the adhesive, position insulation boards on the substrate and butt.

Note

***ZEILENUMBRUCH*

Application as a reinforcing layer

Installing corner rails or mesh corner beads

Before reinforcing, place completely into Armatop MP and align.

Corner rail 9078, corner rail 1031, aluminium corner rail with mesh and corner rail KU with mesh are used.

Constructing the reinforcement

Apply material mechanically or manually with a layer thickness of 3 mm .

Combing through with a 10 mm notched trowel is recommended, to check the minimum layer thickness.

Place the fibreglass mesh32 into the open mortar bed overlapping 10 cm and level using a smoothing trowel.

Embed the reinforcement mesh so that it is positioned in the middle of the reinforcement layer.

Additionally embed diagonal reinforcement strips or mesh strips (25 x 25 cm) diagonally in the reinforcement in corner areas of building openings.

Consumption

Bonding:

approx. 4,5 - 6,0 kg/m²

Reinforcement:



approx. 1,4 kg per mm layer thickness per m²

Determine the precise material requirements by means of a trial coating on the

object.

Minimum layer thickness of

reinforcement

approx. 3 mm

Information about the weather Te

Temperatures below 3 °C may not arise during application and drying.

Do not apply in direct sunlight.

In the case of wind, please observe shorter setting times.

Interval

Bonding

Depending on the weather conditions, reworkable after 24 h at the earliest.

Anchoring and reworking of the insulation boards only after that.

Reinforcement

Depending on the weather conditions, reworkable after 24 h at the earliest for

reworking with mineral textured renders.

Depending on the weather conditions, reworkable after 5 days at the earliest for

reworking with resin or silicone resin renders.

Drying time approx. 1 - 3 days.

Dependent on temperature and relative humidity.

Cleaning of tools In a fresh state with water.

Application by machine Please request special information regarding machine processing.

STORAGE

Dry, protected against moisture, cool, shelf life in original sealed packaging of at least 1 year.

PACKAGING INFORMATION

Colour Grey

Packaging unit Paper sack approx. 25 kg net

Silo: Upon request

OTHER INFORMATION

Information on safety The information provided in the current safety data sheet applies.

Transportation Not a hazardous material

Giscode ZP1 cement-based products, low in chromate

alsecco GmbH

Kupferstraße 50 D-36208 Wildeck Phone 03 69 22 / 80-0 Fax 03 69 22 / 88-330 Internet: www.alsecco.de The above information is based on many years of experience and tests and is provided by us to the best of our knowledge. Such information applies in addition to our application guidelines. However, we cannot accept any responsibility for the correctness of our recommendations on account of wide variety of substrates and of on-site conditions and applications which are outside our control. Any recommendations provided by our employees and deviating from these documents must be given in writing. We reserve right to make any changes on account of technical progress or building regulations. Your technical advisor will be pleased to provide the relevant product data sheets.



Polystyrene Insulation Boards

Polystyrene insulation boards for alsecco external wall insulation systems in accordance with BS EN 13163

Areas of application	Insulation boards for the alsecco external wall insulation systems basic and Alprotect.				
	PS 15 SE, EPS 70 Facade Insulation boards with square edges for fixing by bonding or bonding and anchoring. insulation board (White,Graphite Enhanced)				
	PS 15 SE M facade insulation board, (white, graphite enhanced)	Insulation boards with grooves for mecha	nical rail-system fixing.		
Product properties	EPS - BS EN 13163 - T2 - L2 - W2 - S2 - P4				
	Tensile strength - se	ee technical data below			
	Flameretardant Euro Class E				
	 Quality controlled according to BS EN 13163 				
	Dimensionally stable				
	CFC-free, HCFC-free				
	 Ozone depletion potential - Zero 				
	■ GWP - <5				
Technical data	Fire Class	BS EN 13501 Euro Class E			
		PS 15 SE EPS 70 - White	0.037 - 0.038 W/(mK)		
	,	PS 15 SE EPS 70 - Willle PS 15 SE EPS 70 - Graphite enhanced	0.030-0.032 W/(mK)		
		PS 15 SE M EPS 70 - White	0.037 - 0.038 W/(mK)		
		PS 15 SE M EPS 70 - Graphite enhanced	0.030-0.032 W/(mK)		
	Dimensions	PS 15 - White	Upto 1200mm x 600 mm		
		PS 15 - Graphite enhanced	Upto 1200mm x 600mm		
		PS 15 SE M EPS 70 - White	500mm x 500mm		
	PS 15 SE M EPS 70 - Graphite enhanced 500mm x 500mm				



Data sheet Mesh / Page 1

Mesh

Detail mesh for alsecco external wall systems

Areas of application	Detail mesh in base coat plasters.					
	Alsitex Nova	Non-slip and alkali-resistant for embedding in layer of render made from: Armatop Nova				
	Alsitex Carbon	Non-slip and alkali-resistant for embedding in layer of render made from:				
		Armatop Carbon Armatop Solid Carbon				
	Mesh Quattro	Non-slip for embedding in layer of render made from:				
		Armatop Quattro				
	Mesh universal - Aero	Non-slip and alkali-resistant for embedding in layer of render made from: Litewall ANB Litewall ANB F Alsitop Alsitop F Base Coat W Armatop A Armatop A Armatop L - Aero Armatop Solid Carbon				
	Mesh 32	Non-slip and alkali-resistant for embedding in layer of render made from: Armatop MP Armatop MP white Armatop Base Armatop A Armatop AKS Armatop por Two in One Armatop Quattro Armatop Carbon Armatop Solid Carbon				
	Mesh K	Non-slip and alkali-resistant for embedding in layer of render made from: Armatop L - Aero Armatop A				
		For use when ceramics are used for the surface design.				
	Panzer Mesh	Mesh used to prepare highly impact-resistant reinforcing layers.				
		Used in conjunction with Mesh 32 or universal - Aero.				



Data sheet Mesh / Page 2

echnical data	Weight per unit area	Alsitex Nova:	approx. 16	60 g/m²	
		Alsitex Carbon:	approx. 16	=	
		Mesh Quattro: approx. 105 g/m²		05 g/m²	
		Mesh universal - Aero:	approx. 16	approx. 160 g/m ²	
		Mesh 32:	approx. 160 g/m²		
		Mesh K:	Mesh K: approx. 160 g/m² Panzer mesh: approx. 330 g/m²		
		Panzer mesh:			
	Mesh size	Alsitex Nova:	approx. 4	x 4 mm ²	
		Alsitex Carbon:	approx. 4 x 4 mm ²		
		Mesh Quattro:	approx. 4 x 4 mm ² approx. 6 x 6 mm ² approx. 4 x 4 mm ² approx. 3.5 x 3.5 mm ² approx. 6 x 6 mm ²		
		Mesh universal - Aero:			
		Mesh 32:			
		Mesh K:			
		Panzer Mesh:			
	Tensile strength	Alsitex Nova	warp:	\geq 2000 N/5 cm	
			weft:	\geq 2000 N/5 cm	
		Alsitex Carbon	warp:	\geq 2000 N/5 cm	
			weft:	\geq 2000 N/5 cm	
		Mesh Quattro	warp:	\geq 1820 N/5 cm	
			weft:	\geq 1430 N/5 cm	
		Mesh universal - Aero	warp:	\geq 2000 N/5 cm	
			weft:	\geq 2000 N/5 cm	
		Mesh 32	warp:	\geq 2000 N/5 cm	
			weft:	\geq 2000 N/5 cm	
		Mesh K	warp:	\geq 2000 N/5 cm	
			weft:	\geq 2000 N/5 cm	
		Panzer mesh	warp:	\geq 3200 N/5 cm	
			weft:	\geq 3500 N/5 cm	

Data sheet Mesh / Page 3

Application instructions	Application	Alsitex Nova, Carbon, Mesh Quattro,	Alsitex Nova, Carbon, Mesh Quattro, universal - Aero, 32, K		
		smooth over. The length of mesh should overlap l	of the reinforcing compound or the plaster and		
		Panzer Mesh			
		 Place the mesh horizontally or vertically in the open reinforcing compositions together and smooth over with a trowel. 			
		Cover with the system-specific mesh.			
		 Embed the mesh in the upper third of the reinforcing compound or the pla cover completely with reinforcing compound. 			
	Consumption	Alsitex Nova, Carbon, Mesh Quattro, approx. 1,1 m ² /m ² universal - Aero, 32, K:			
		Panzer Mesh:	approx. 1.0 m ² /m ²		
Packaging	Packaging unit	Alsitex Nova, Carbon, Mesh universal - Aero, 32, K:	Rolls 1,10 m wide , 50 m long		
		Mesh Quattro:	Rolls 1,10 m wide , 75 m long		
		Panzer Mesh:	Rolls 1 m wide, 25 m long		
	Colour	White (Mesh Quattro, universal - Aero,	White (Mesh Quattro, universal - Aero, 32, K, Panzer Mesh)		
		Grey (Alsitex Carbon)			
		Red (Alsitex Nova)			

Kupferstraße 50 D-36208 Wildeck Telefon 03 69 22 / 88-0 Telefax 03 69 22 / 88-330 Internet: www.alsecco.de

Haftgrund Sc - (Top Primer SC)

Pigmented, filled primer for silicon-resin decorative renders



AREAS OF APPLICATION

Primer to even out colour variations and improve adhesion before applying final coat with silicon resin renders. For indoor and outdoor use.

PRODUCT PROPERTIES

- Water-vapour permeable
- Promotes adhesion
- Improves adhesion
- Absorbency regulating
- Reduces the risk of colour shading for a subsequent coating with pigmented silicone-resin renders
- Non-slip surface because quartz filled
- Provokes ideal and economical application of the decorative render

TECHNICAL DATA

Binder base Acrylic resin dispersion

Specific gravity approx. 1,7 g/cm³

VOC value EU limit value for the VOC content of this product (cat. A/h): 30 g/l (2010). This

product contains < 10 g/l VOC.

APPLICATION INSTRUCTIONS

Substrate pre-treatment All substrates must be stable, level, clean, dry and free of any residue, which can

reduce adhesiveness.

Prime substrates to be reinforced with Hydro penetrating primer.

Mixing Ready to use

Can be diluted with a max. of 20 % water.

Application Can be applied using a brush, roller or spraying.

Use short pile rolls for even application.

It is recommended to use a primer in the colour of the subsequent textured



render for unsealed textures.

Consumption approx. $0.3 - 0.4 \text{ kg/m}^2 \text{ (approx. } 200 - 250 \text{ ml/m}^2\text{)}$

Determine the precise material requirements by means of a trial coating on the

object.

Information about the weather Temperatures cannot fall below +5 °C during application and drying.

Drying time approx. 2 - 6 hours

Dependent on temperature and relative humidity.

Cleaning of tools In a fresh state with water.

Application by machine Please request special information regarding machine processing.

STORAGE

Shelf life in original sealed packaging of at least 1 year when kept cool and protected against frost.

PACKAGING INFORMATION

Colour Natural white and pigmented Packaging unit PP bucket approx. 20 kg net

OTHER INFORMATION

Information on safety The information provided in the current safety data sheet applies.

Transportation Not a hazardous material

Giscode M-SF01 silicone resin paints, water soluble, active substances





PD 0052/0617/001

Siliconharzputz T - (Silitect T)

Silicon resin renders with scraped finisch



AREAS OF APPLICATION

Paste-like render finish according to DIN EN 15824 for mineral and organic render systems on exterior walls and ceilings.

Can be used in connection with the alsecco facade systems, in particular with System Alprotect Quattro.

PRODUCT PROPERTIES

- High mechanical load capacity
- High level of protection against microbial infestation
- With encapsulated film protection
- · Highly water-repellent
- Water-vapour permeable
- Also possible without additional coating for light reflectance value ≥ 20
- A2-s1, d0 (fireproof) according to DIN EN 13501

TECHNICAL DATA

Indicated fixed values represent average values, which can slightly vary from delivery to delivery due to the application of natural raw materials.

Binder base Silicone resin emulsion

Acrylic resin dispersion

Specific gravity approx. 1,8 g/cm³

Diffusion-equivalent air-layer

S_d according to DIN EN ISO 7783:

thickness

Grain size 1 mm: approx. 0,11 m; Class V₁ (high) according to DIN EN 1062

Grain size 3 mm: approx. 0,20 m; Class $\rm V_2$ according to DIN EN 1062 Grain size 6 mm: approx. 0,29 m; Class $\rm V_2$ according to DIN EN 1062

Water permeability w: approx. 0,07 kg/(m²h¹/²) according to DIN EN 1062

Class W₃ (low) according to DIN EN 1062

Fire behavior A2-s1, d0 according to DIN EN 13501



APPLICATION INSTRUCTIONS

Preparation Mask window sills and attachment parts.

First, render the reveals.

Substrate pre-treatment All substrates must be stable, level, clean, dry and free of any residue, which can

reduce adhesiveness.

If applicable, the stability of substrates can be ensured by applying suitable

primers.

We recommend a priming coat with Primer SC, to improve workability before

applying the decorative render.

Mixing Ready to use.

Can be adjusted to a workable consistency with a max. of 2 % water.

Application Apply in grain size with a rustproof steel trowel and after a brief period, spread

with a plastic trowel using circular motions.

Complete contiguous surfaces without any stopping (to avoid seams in the

textured coating).

Divide large facades into sections, apply continuously wet-on-wet and texture. Applying Alsicolor Carbon significantly reduces the risk of microbial infestation.

For light reflectance values below 20, the render must be coated with at least two

coats of a suitable alsecco paint or varnish system after drying, preferably

Alsicolor Carbon or Alsicolor Sc.

Consumption Grain size 1,0 mm approx. 1,7 kg/m²

Grain size 1,5 mm approx. 2,4 kg/m²
Grain size 2,0 mm approx. 3,1 kg/m²
Grain size 3,0 mm approx. 4,0 kg/m²
Grain size 4,0 mm approx. 5,5 kg/m²

Grain size 6,0 mm approx. 6,0 kg/m²

Determine the precise material requirements by means of a trial coating on the

object.

Information about the weather There cannot be temperatures below + 5 °C during application and drying.

Do not apply in direct sunlight.

Observe shorter setting time in the case of wind.

If it cannot be ensured that the minimum application temperatures are adhered

to, there is the option of using alternative products for autumn weather

conditions.

Please request advice regarding more information on this product group.

Drying time approx. 1 - 2 days

Dependent on temperature, layer thickness and relative humidity.

Cleaning of tools In a fresh state with water.

Application by machine Please request special information regarding machine processing.



STORAGE

Shelf life in original sealed packaging of at least 1 year when kept cool and protected against frost.

PACKAGING INFORMATION

Colour White and pigmented.

Use material from one batch number for pigmented materials or contiguous

surfaces.

Packaging unit PP bucket approx. 25 kg net

Disposable container alsecco one-way approx. 1000 kg net (grain size 1.5 mm, 2.0

mm, 3.0 mm)

OTHER INFORMATION

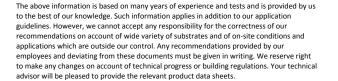
This products provides a high level of protection against microbial infestation, a permanent exclusion of infestation cannot be guaranteed.

Information on safety The information provided in the current safety data sheet applies.

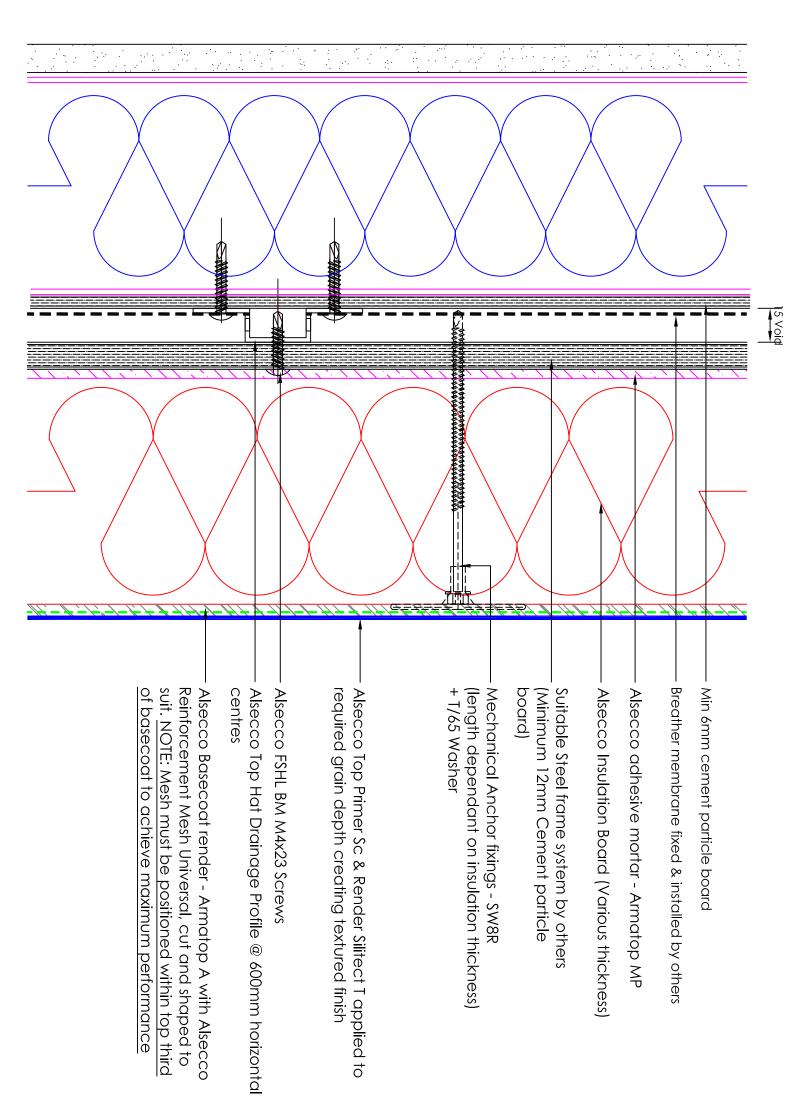
Transportation Not a hazardous material

Giscode M-SF01F silicone resin paints, water soluble, active substances









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This drawing is not intended to show details of foundations, ground conditions or ground contaminants.

Note



1- Details with a green Light attributed fully insulate the thermal path through the external wall construction and provide a high level of confidence that condensation will not occur at his detail junction as a result of the application of the EWI system - the detail should still be considered in the context of the property and current ventilation by the EEM Designer.

Revisions

Date

Amendment

Whitebridge Way | Stone | Staffordshire | ST158JS T 01785 818 998 F 01785 818 144 E technical@alsecco.co.uk W www.alsecco.co.uk

■ Client: STANDARD DETAILS

Project: STANDARD DETAILS

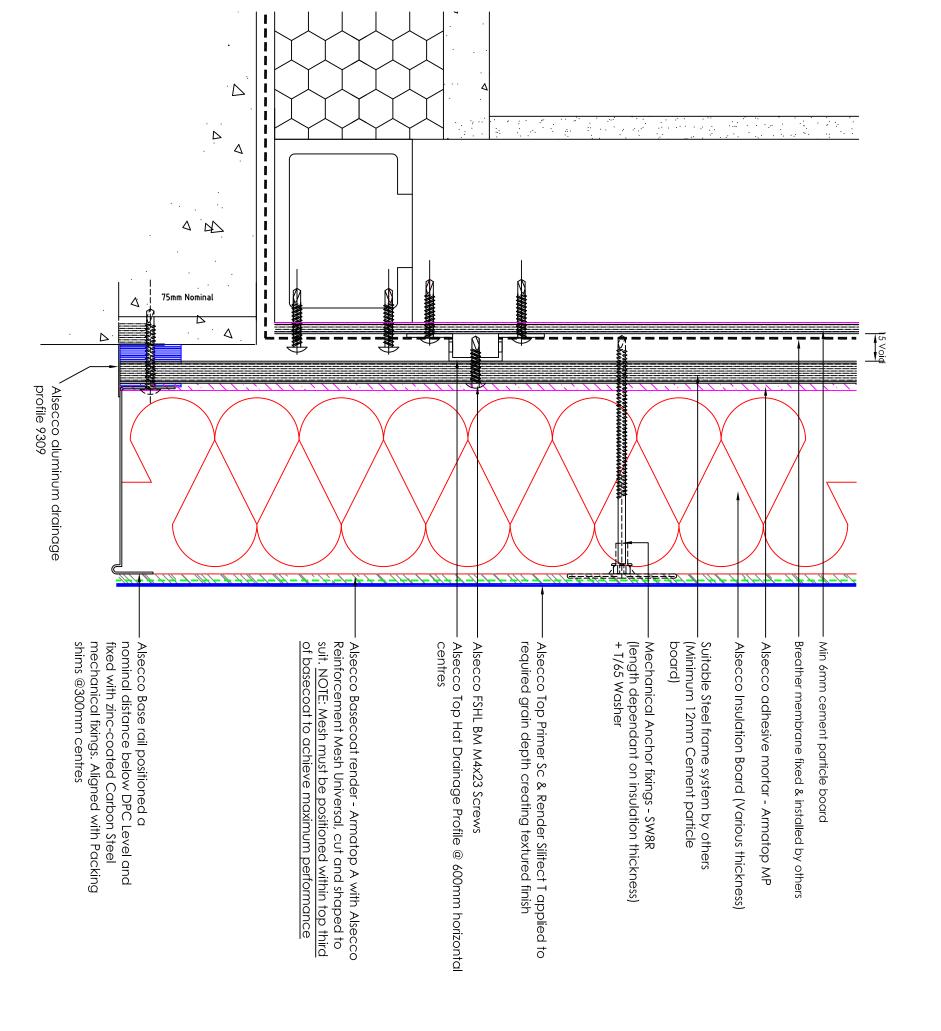
Title: TYPICAL SECTION DETAIL

Status: Construction Checked: MPR

Drawn: SJB Date: 13/06/2018 Scale: 1:2 @A3

■ Job No: **0000000** Drg No: **LR-BS1-FS-SFS-001** Rev:





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conditions or ground contaminants. This drawing is not intended to show details of foundations, ground



- Details with a red light attributed present areas that are not fully insulated and as such can lead to a thermal bridge. In some cases these thermal bridges are caused by pipe outlets or existing penetrations such as boliconies that are unavoidable. The detail should be considered in the context of the property and current ventilation by the EEM



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STANDARD DETAILS

Client:

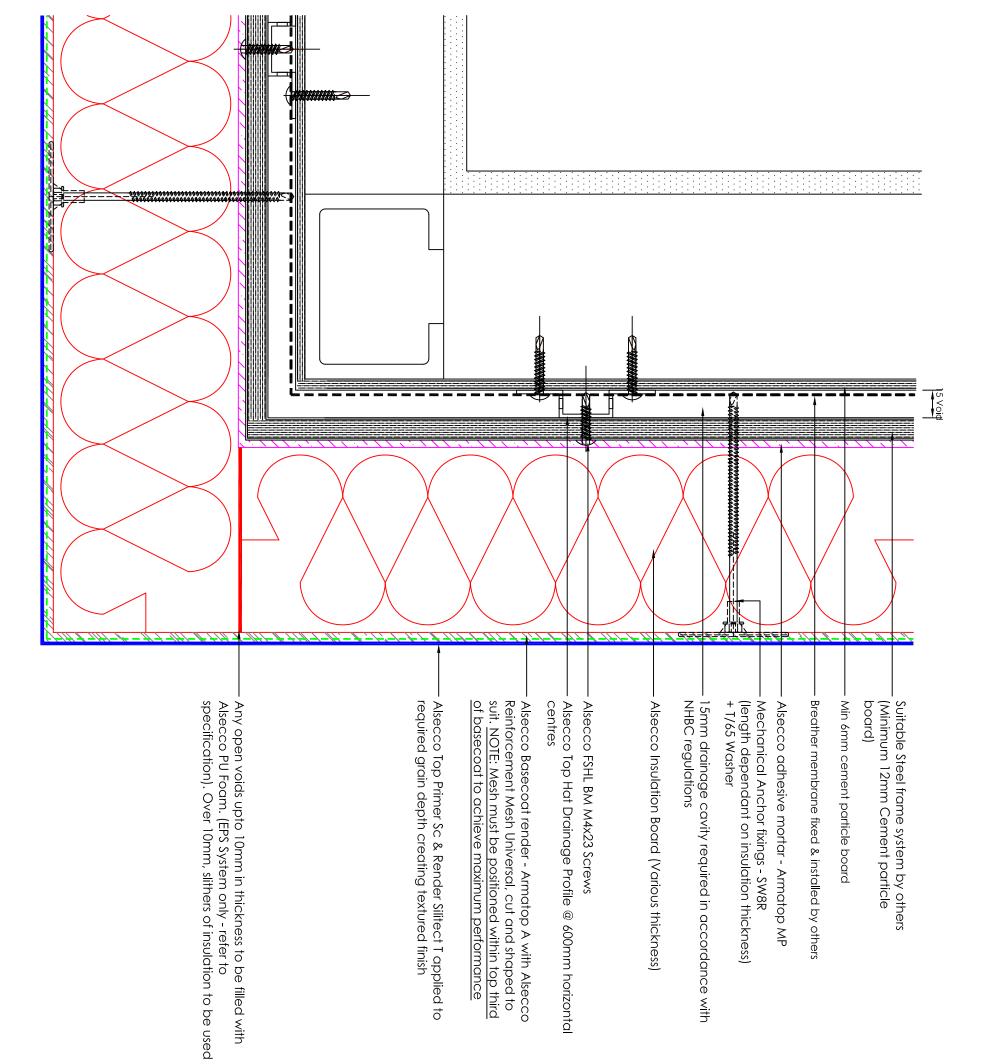
STANDARD DETAILS

≣ e: BASE RAIL ON METAL FRAME DETAIL

Drawn: SJB Status: Construction Date: 13/06/2018 Scale: 1:2 @A3 Checked: MPR

Job No: **0000000** Drg No: LR-BS1-FS-SFS-002 Rev:





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- Details with a green Light attributed fully insulate the thermal path through the external wall construction and provide a high level of confidence that condensation will not occur at his detail junction as a result of the application of the EWI system - the detail should still be considered in the context of the property and current ventilation by the EEM Designer.

T 01785 818 998 F 01785 8 E technical@alsecco.co.uk F 01785 818 144 9 Isecco W www.alsecco.co.uk dshire | ST15 8JS

Revisions

Date

Amendment

Client: STANDARD DETAILS

Project:

STANDARD DETAILS

EXTERNAL CORNER DETAIL

Drawn: SJB Status: Construction Date: 13/06/2018 Scale: 1:2 @A3 Checked: MPR

Job No: 0000000 Drg No: LR-BS1-FS-SFS-003 Rev: