

BASIC 1. RENDER

SYSTEM INFORMATION



BASIC 1

M21 EXTERNAL INSULATED RENDER SYSTEM

To be read with preliminaries/general conditions. To be read in conjunction with approval certificates, technical data sheets and application guidelines

Type(s) of Coating	alsecco Systems:	alsecco external wall insulation system - adhesive and mechanical fixed. Must be applied in strict accordance with the manufacturer's written recommendations by a contracting partner from alsecco UK Ltd's current list.
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	Proprietary Render:	alsecco 'Basic 1' EWI system - adhesive and mechanical fixed.
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Manufacturer and reference: alsecco systems are manufactured by alsecco GmbH & Co. KG, Wildeck, Richelsdorf, D36208, Germany. UK Office: alsecco (UK) Ltd, Whitebridge Way, Stone, Staffs, ST15 8JS Tel: 01785 818998 Email: technical.support@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	
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Location:	Example
Substrate:	Masonry (Low rise)

1.1 System Components:	Sub Primer:	Sub Primer HT/P where required
	Adhesive:	Armatop MP
	Insulation Type:	Expanded polystyrene (graphite enhanced)
	Thickness:	100mm
	'U'-Value:	TBC
	Basecoat:	Armatop MP (3-5mm) and Reinforcing Mesh 32
	Top Primer:	Top Primer Se

1.1.1 System Finish:	Topcoat:	Silitect T1.5
	Additional Finishes:	

1.2 Accessories:	Base Rail:	A105
	Stop Beads:	W105
	Corner Beads:	3707 PVC Corner Bead With Mesh
	Mechanical Fixing:	CFIX135
	Fire Fixing:	FF DMH 8/35 x 170 E + DMT 85/7E
	Dammflex:	Yes
	Sealing Strip 13/2:	Yes
	APU Bead:	Optional
	PU Foam:	Yes
	PU Flex:	Yes
	Disbon Primer:	Only where exposed steel is present
	Balcony Drip Bead:	No
	Expansion Joints:	Required only where present in substrate

Notes: Preparation of existing surfaces: Ensure existing substrate is clean, sound and free from all adhesive reducing residue/surface contaminants. Refer to recommendations of BSEN13914-1:2016 including annex B. Bond tests/Sample area recommended prior to complete application. Ensure existing rendered substrates are sound and suitable to receive additional weight of new render, existing render should be hammer tested before installation of new system to identify any loose, de-bonded or otherwise defective render and where required, repaired by others, prior to the system being installed.

Lam 100- Lamella Fire Breaks required to be installed in line with section 2.8

Sub primer P is required to all existing painted substrates. Sub Primer HT is to be used on all exposed masonry Alscolor Perfect can be applied where increased weathering resistance is required due to coastal locations in order to reduce airborne salt and algae colonization.

FF - 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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Material & Component		
	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 to BS EN 13163. Flame Retardant to Euroclass E. 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 Floor interface does 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:	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 directed on the label.



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2.2	If required, apply alsecco sub primer to substrate. (See section 1.1 for reference.) All substrate must be free of loose particles, dusting, grease and oils or any adhesion reducing substances.
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.
2.5	If substrate is of poor alignment and levelling is required, the installing party should use a sand & cement render or equivalent by others. Not suitable for lightweight or AAC Blockwork. Note; all parge-type coats are to be fully cured prior to alsecco materials being applied.
2.6	Align base rail and fix with alsecco anchors spaced at a maximum of 300mm 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
2.7	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 3/No. 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 100mm.
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)



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	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.
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 	This document does not replace the recommendations of our installation guidelines and technical literature. Further clarification by alsecco UK Ltd is advised prior to specifying.
	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).



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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 wet to 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.

D: Weather conditions will be a factor in the application of the finish as well as the drying time.

E: An option for areas of high salt-water attack, a final coat of alsecco Alsicolor Quattro can be applied.

Execution

2.21 | Ashlar Formers

If Ashlar formers are required, the insulation is to be routed out with the alsecco routing tool. With the Ashlar now formed, a thin coat 1-2mm of Armatop MP basecoat should be applied into Ashlar groove, with care being taken to cover all internal angles. A layer of alsecco Ashlar pre-formed Detail Mesh should be inserted into the Armatop MP, using an alsecco Detail Trowel, which will ensure a sharp contour of the Ashlar effect being maintained. The mesh should be extended 100-200mm onto the front surface of the basecoat and feathered in. Basecoat to be finished with No. Coats of ALSECCO Quatro Finish.

2.22 | Brick Slips

(In conjunction with Section 1.1) Incorporate vertical expansion joints in the brickwork and tile coursing by introducing a flexible joint compound in place of the pointing or grouting mortar. Vertical joints to brickwork should follow the brick bond line. Joints should correspond with window or door opening or approx. every 3m vertically for dark coloured finishes or 6m vertically for light coloured finishes. In accordance with BS5628 : part 3 1985 Use of masonry.



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2.23 | Brick Slip Flex

(In conjunction with Section 1.1) Use a trowel to apply the Bonding Mortar AF to the basecoat and a notched trowel (4 x 6 or 5 x 5mm) to comb through the adhesive in a horizontal direction to create a ridged bed. Place the brick slip flex on top of the open adhesive, leaving a joint width in between and press into position. Use a damp brush to smooth the adhesive over in the area of the joint before the adhesive has set. Ensure a close connection between the adhesive compound and the brick slip flex. Only apply as much adhesive as can be covered with brick slip flex before a skin is formed.

2.24 | Render Brick

(In conjunction with Section 1.1) After the basecoat has had a minimum 24 hours drying time, apply an additional Intermediate Mortar Coat layer, 2mm thick. (Intermediate Mortar Coat consists of Spardash DLX - Colour to match Basecoat.) This is used to form the Mortar Joint. Immediately apply, wet on wet, a 2-3mm thick layer of decorative render brick topcoat. (Consisting of Spardash DLX - Colour as requested.) Give these layers 8-16 hours drying time. Using a straight edge with a joint cutting tool, scrape out the brick profiles, cutting through the topcoat & intermediate coat, back to the hard basecoat to form the mortar joint. NOTE: If top layer of render brick is of dark colouring, lime bloom will occur. To prevent this, a wash of alsecco Hydrophobic MI agent must be applied once all coats are dry. (Technical Data Sheet available upon request.)

2.25 | Deco Profiles

(In conjunction with Section 1.1)

A. On External Wall Insulation Systems, the decorative Profiles must always be applied to finished reinforcement layers with the appropriate reinforcing mesh. The profiles to be applied to the façade must be measured out and marked according to the installation plan. For window cill profiles alignment is made with the centreline of the window/window sill profile.

B. Profiles are cut to size using a hacksaw with a carbide blade and a mitre block.

C. Profile adhesive applied to both substrate and back of the profile. Profiled applied in accordance with details. Profile is firmly pressed onto substrate using a straight edge and can be propped to prevent slipping.

D. Smooth off all excess profile adhesive, once all joints are fully sealed.

E. All profiles, which are not tightly butt-jointed, must be installed with 10mm spacing. Allow 24 hours for adhesion before filling the joints with alsecco Polyurethane Foam. Once hardened, Polyurethane foam scraped out to a depth of 10mm and void filled with alsecco Dammflex Sealant.

F. Apply profile adhesive with a specific trowel to smooth out window reveals. Any trowel marks to be ground down. Accurate edges achieved by installing the Deco Profiles 2mm above the window level of the window reveal towards the centre of the window. Protruding profile edges allow for sharp edged reveals.

G. Window cill reveals must be insulated to accept window sill profiles. Care must be taken to ensure that the inclination of the window cill is in line with that of the window sill profile. This connection with the window frame must be sealed with an alsecco sealing system. Once the window sill profiles have been installed, apply profile adhesive to the horizontal surface, apply alsecco glass fibre mesh 32 and trowel over with sufficient mortar to cover the mesh. Profiles coated with two coats of Alsicolor, Si façade or Hydro Equalising finish in the desired colour.



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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°C for mineral products, +5°C for acrylic and silicon products and +1°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. may be 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) Keyring/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 of finish shall 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. the face, or other approved method.



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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.

This document does not replace the recommendations of our installation guidelines and technical literature. Further clarification by alsecco UK Ltd is advised prior to specifying.

Example

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/cm ³
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/m ² . 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

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/cm ³
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 kg/m ² (approx. 200 - 250 ml/m ²) 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

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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.



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/cm ³ according to DIN EN 998-1
Adhesive pull strength	≥ 0,08 N/mm ² according to DIN EN 998-1
Adhesive pull strength on polystyrene	≥ 0,08 N/mm ²
Water vapour permeability μ	≤ 25 according to DIN EN 998-1
Water permeability	$w \leq 0,2 \text{ kg}/(\text{m}^2\text{h}^{1/2})$ 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)	$s_d < 0,1 \text{ m}$ 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 m ² 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	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

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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.



FASSADENKOMPETENZ

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 board (White, Graphite Enhanced)	Insulation boards with square edges for fixing by bonding or bonding and anchoring.		
	PS 15 SE M facade insulation board, (white, graphite enhanced)	Insulation boards with grooves for mechanical rail-system fixing.		
Product properties	<ul style="list-style-type: none"> ■ EPS - BS EN 13163 - T2 - L2 - W2 - S2 - P4 ■ Tensile strength - see 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	
	Thermal conductivity $\lambda_{90/90}$	PS 15 SE EPS 70 - White	0.037 - 0.038 W/(mK)	
		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		

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
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Alsitex Carbon	Non-slip and alkali-resistant for embedding in layer of render made from: Armatop Carbon Armatop Solid Carbon
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Mesh Quattro	Non-slip for embedding in layer of render made from: Armatop Quattro
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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 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.
-------------	---

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

Application instructions	Application	<p>Alsitex Nova, Carbon, Mesh Quattro, universal - Aero, 32, K</p> <ul style="list-style-type: none"> - Embed mesh in the wet reinforcing compounds horizontally or vertically and smooth over. The length of mesh should overlap by at least 10 cm at the ends. - Embed the mesh in the upper third of the reinforcing compound or the plaster and cover completely with reinforcing compound. <p>Panzer Mesh</p> <ul style="list-style-type: none"> - Place the mesh horizontally or vertically in the open reinforcing compound pushed close 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 plaster and cover completely with reinforcing compound.
Consumption	<p>Alsitex Nova, Carbon, Mesh Quattro, universal - Aero, 32, K:</p> <p>Panzer Mesh:</p>	<p>approx. 1,1 m²/m²</p> <p>approx. 1.0 m²/m²</p>
Packaging	Packaging unit	<p>Alsitex Nova, Carbon, Mesh universal - Aero, 32, K: Rolls 1,10 m wide , 50 m long</p> <p>Mesh Quattro: Rolls 1,10 m wide , 75 m long</p> <p>Panzer Mesh: Rolls 1 m wide, 25 m long</p>
Colour	<p>White (Mesh Quattro, universal - Aero, 32, K, Panzer Mesh)</p> <p>Grey (Alsitex Carbon)</p> <p>Red (Alsitex Nova)</p>	

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/cm ³
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 kg/m ² (approx. 200 - 250 ml/m ²) 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

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FASSADENKOMPETENZ

Siliconharzputz T - (Silitect T)

Silicon resin renders with scraped finish



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/cm ³
Diffusion-equivalent air-layer thickness	s_d according to DIN EN ISO 7783: Grain size 1 mm: approx. 0,11 m; Class V ₁ (high) according to DIN EN 1062 Grain size 3 mm: approx. 0,20 m; Class V ₂ according to DIN EN 1062 Grain size 6 mm: approx. 0,29 m; Class V ₂ according to DIN EN 1062
Water permeability	w: approx. 0,07 kg/(m ² h ^{1/2}) according to DIN EN 1062 Class W ₃ (low) according to DIN EN 1062
Fire behavior	A2-s1, d0 according to DIN EN 13501

APPLICATION INSTRUCTIONS

Preparation	<p>Mask window sills and attachment parts.</p> <p>First, render the reveals.</p>
Substrate pre-treatment	<p>All substrates must be stable, level, clean, dry and free of any residue, which can reduce adhesiveness.</p> <p>If applicable, the stability of substrates can be ensured by applying suitable primers.</p> <p>We recommend a priming coat with Primer SC, to improve workability before applying the decorative render.</p>
Mixing	<p>Ready to use.</p> <p>Can be adjusted to a workable consistency with a max. of 2 % water.</p>
Application	<p>Apply in grain size with a rustproof steel trowel and after a brief period, spread with a plastic trowel using circular motions.</p> <p>Complete contiguous surfaces without any stopping (to avoid seams in the textured coating).</p> <p>Divide large facades into sections, apply continuously wet-on-wet and texture.</p> <p>Applying Alsicolor Carbon significantly reduces the risk of microbial infestation.</p> <p>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.</p>
Consumption	<p>Grain size 1,0 mm approx. 1,7 kg/m²</p> <p>Grain size 1,5 mm approx. 2,4 kg/m²</p> <p>Grain size 2,0 mm approx. 3,1 kg/m²</p> <p>Grain size 3,0 mm approx. 4,0 kg/m²</p> <p>Grain size 4,0 mm approx. 5,5 kg/m²</p> <p>Grain size 6,0 mm approx. 6,0 kg/m²</p> <p>Determine the precise material requirements by means of a trial coating on the object.</p>
Information about the weather	<p>There cannot be temperatures below + 5 °C during application and drying.</p> <p>Do not apply in direct sunlight.</p> <p>Observe shorter setting time in the case of wind.</p> <p>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.</p> <p>Please request advice regarding more information on this product group.</p>
Drying time	<p>approx. 1 - 2 days</p> <p>Dependent on temperature, layer thickness and relative humidity.</p>
Cleaning of tools	<p>In a fresh state with water.</p>
Application by machine	<p>Please request special information regarding machine processing.</p>

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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Alsecco-Dämmflex

Joint sealing compound for sealing connection joints



AREAS OF APPLICATION

Joint sealing compound for the permanent sealing of connection joints in the alsecco facade systems.

PRODUCT PROPERTIES

- Quickly rainfast
- Weatherproof
- Compatible with paint coats
- Plastoelastic
- High resilience
- Quick and easy application because only one component

TECHNICAL DATA

Binder base	Acrylic dispersion
Specific gravity	approx. 1,6 g/cm ³

APPLICATION INSTRUCTIONS

Preparation	Mask connecting areas, to establish neat joints.
Substrate pre-treatment	All substrates must be stable, clean and free of any residue, which can reduce adhesiveness. Substrates can be moist but not wet.
Application	Inject Dämmflex into the prepared joint using a spray gun and swipe smooth with brush and water. Only insert as much joint sealer as can be swiped smooth before skin begins to form.
Consumption	approx. 50 - 150 ml/m connection joint (depending on cross-section) 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. 5-20 days
	Depending on joint size, temperature and relative humidity, in the event of unfavourable weather conditions even longer.
Cleaning of tools	In a fresh state with water.

STORAGE

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

PACKAGING INFORMATION

Colour	White
Packaging unit	Bag approx. 400 ml

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

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FASSADENKOMPETENZ

Alsicolor Perfect

Façade paint for a maximum of colour shade variety with film protection of the coating.



FIELDS OF APPLICATION

Façade paint offering universal application possibilities on solid and sound external thermal insulation composite and render systems, organic and mineral bound surfaces, such as areated concrete, concrete and fibre-cement.

PRODUCT PROPERTIES

- Film protection against algae and fungal infestation
- Widest range of possible colour shades
- Low water absorption for dry façade surfaces.
- Universally applicable.
- Low splashing tendency.
- Fills fine render cracks.

TECHNICAL DATA

Binder base	Siloxanized pure acrylate enhanced with silicone
Colour stability in acc. with BFS-data sheet No. 26	Class A Pigment groups 1-3
Specific gravity	approx. 1.5 g/cm ³
Diffusion-equivalent air-layer thickness	Class E ₃ according to DIN EN 1062-1 E = 100–200 µm
Water permeability	Class W ₃ (low) according to DIN EN 1062-1 $W \leq 0.1 \text{ kg}/(\text{m}^2\text{h}^{1/2})$
Water vapour permeability	Class V ₂ (medium) according to DIN EN 1062-1 $s_d \geq 0.14 - < 1.4 \text{ m}$ according to EN ISO 7783-2
Gloss level	Class G ₃ (matt) according to DIN EN 1062-1
Grain size	Class S ₁ according to DIN EN 1062-1



S < 100 µm nach EN ISO 1524

APPLICATION INSTRUCTIONS

Substrate pre-treatment

All substrates must be dry, clean and free of any residue, which can reduce adhesiveness.

Renovation of stable external thermal insulation composite systems with surfaces of synthetic resin, silicone resin or mineral renders of dry mortar class according to DIN EN 998-1: CS II min. 1.5 - 5.0 N/mm²: Clean soiled surfaces with suitable wet-cleaning method in compliance with the municipal water waste guidelines. Cleaning with pressurized water jets at a max. temperature of 60° C and a pressure of max. 60 bar. Allow sufficient drying time after cleaning.

Old coat layers, cleaned with the following properties:

- non- to slightly absorbent, firmly adherent: see coating system.
- Moderately absorbent even under water load following BFS data sheet No. 20-B.13: alsecco Hydro-Tiefgrund.
- Glossy and water-repellent (hydrophobic) surfaces: Mechanical deadening, adhesion test of the primer coat according to BFS-data sheet No. 20.

Sand-lime fair faced brick, untreated, following BFS-data sheet No.2:

First coat: alsecco Hydro-Tiefgrund.

Intermediate- and finishing coats: see coating system.

Removal **of surfaces infected by algae and fungus** by pressurized water jet cleaning in compliance with the local requirements. Wash surfaces thoroughly. Recommended product: alsecco Fungistad.

Fill fissured / cracked render or concrete surfaces:

Recommended product: alsecco Rissfüller.

Concrete without requirement in accordance to EN 1504-2:

Clean concrete surfaces with dirt deposits or powdery grain layer mechanically or by pressure water jetting in compliance with the legal regulations.

Coating System

By brush, roller or airless spraying.

Application by brush or roller:

First and intermediate coats: diluted with a max. of 10 % water.

Finishing coat: apply undiluted if possible.

Airless-Spraying Method:

Spray angle: 50°

Nozzle: 0.021"– 0.023"

Spray pressure: 150 – 180 bar

Gun filter: 60 meshes

Stir and sieve the paint well.

Dilution: max. of 5% water.

Consumption

approx. 150 - 200 ml per layer per m²

Determine the precise material consumption by means of a trial coating on the object.

Information about the weather	During application and drying, all temperatures must not fall below +5°C or exceed +30°C liegen. Do not apply in direct sunlight, during strong winds or on warm substrates. Unfavourable weather conditions require suitable measures to protect the façade being worked on.
Drying time	approx. 12 hours. Dependent on temperature and relative humidity.
Cleaning of tools	In fresh state with water.

STORAGE

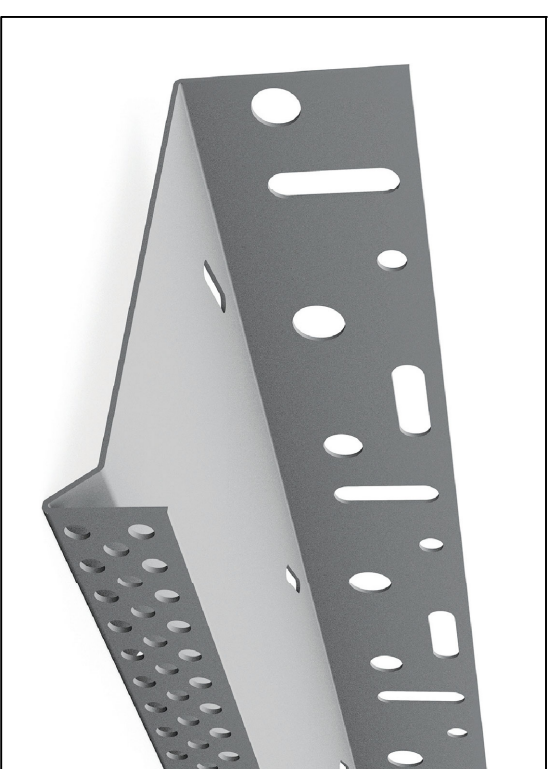
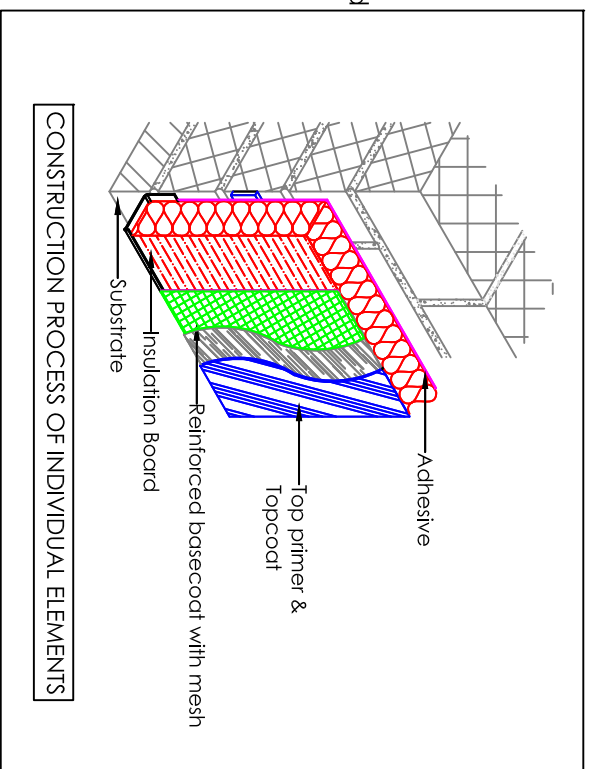
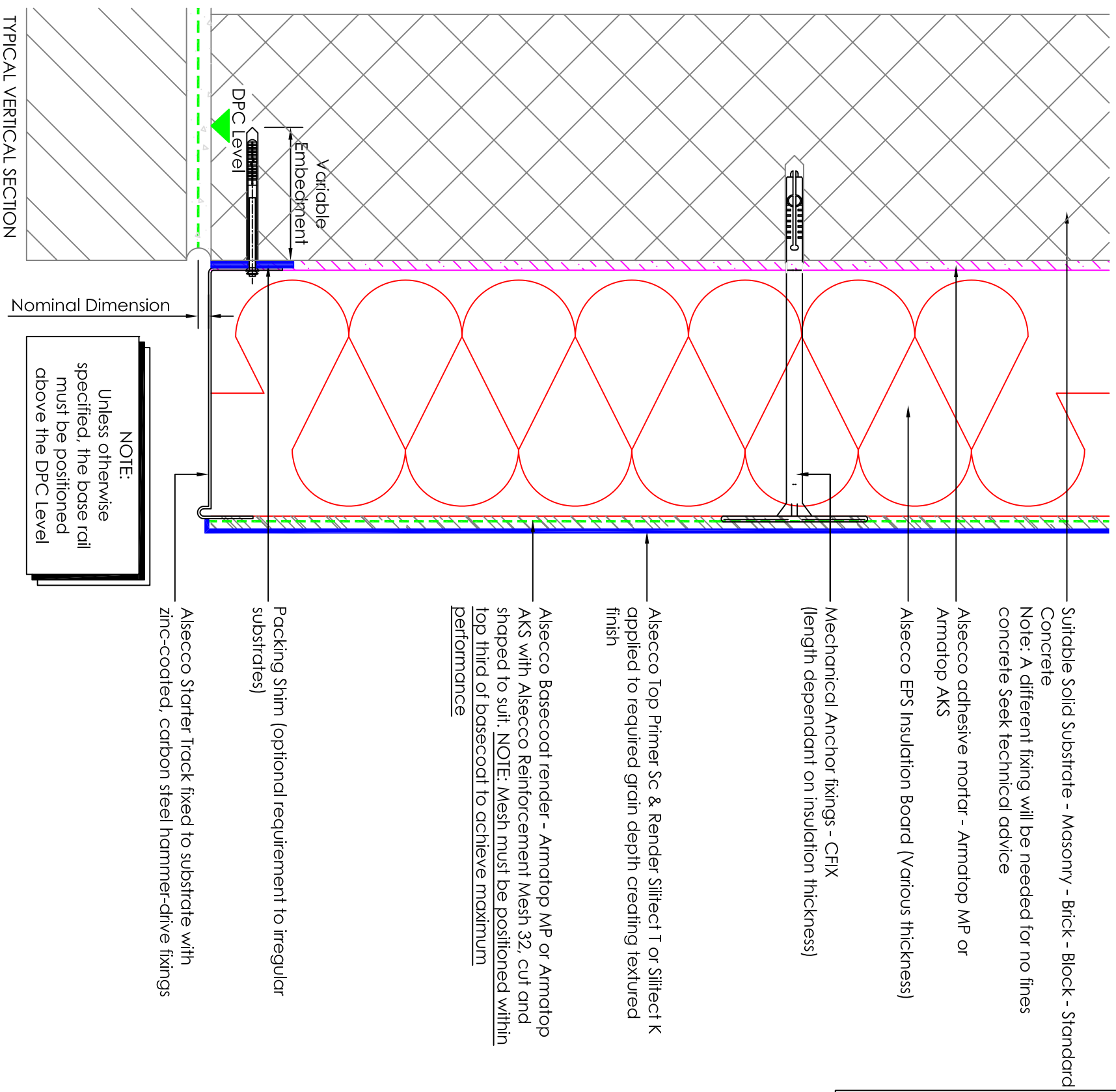
Shelf life in original sealed packaging of at least 24 months when kept cool and protected against frost.

Colour	White and pigmented
Packaging unit	bucket of approx. 15 l

OTHER INFORMATION

This product is equipped with special active substances against fungal and algal growth on the coating. This depot of active agents provides long-lasting, time-limited protection, the effectiveness of which depends on object conditions, such as the severity of the infestation and the moisture load. Therefore, a permanent prevention of fungal and algal infestation cannot be guaranteed.

Hazard statements / precautionary statements	May cause an allergic skin reaction. Harmful to aquatic life with longlasting effects. If medical advice is needed, have product container or label on hand. Keep out of reach of children. Do not get in eyes, on skin or on clothing. Avoid release to the environment. Wear protective gloves / eye protection. IF ON SKIN: Wash with plenty of soap and water. Contains: 1,2-Benzisothiazol-3(2H)-on, Othililon (ISO), 2-Methyl-2H-isothiazol-3-on, reaction mass of 5-Chlor-2-methyl-2H-isothiazol-3-on and 2-Methyl-2H-isothiazol-3-on (3:1). Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Declaration of ingredients according to VdL-guideline 01	Polyacrylic resin, polysiloxane, calcium carbonate, silicates, titanium dioxide, mineral pigments / fillers, water, additives, preservatives.
VOC-content	VOC-content as to guideline RL 2004/42/EG: This product contains max. 1 g/l.
Waste disposal	Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.



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

Notes

- 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 balconies that are unavoidable. The detail should be considered in the context of the property and current ventilation by the EEM Designer

Revisions Date Amendment Name

Revisions	Date	Amendment	Name
1:30 - 0			
1:30 - 0			
1:30 - 0			

For guidance only, Do not scale off this drawing

1:30 - 0 200mm 400mm 600mm 800mm 1000mm 1200mm 1400mm 1600mm 1800mm 2000mm

1:30 - 0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

1:3 - 0 100mm 200mm 300mm 400mm 500mm



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Client: STANDARD DETAILS

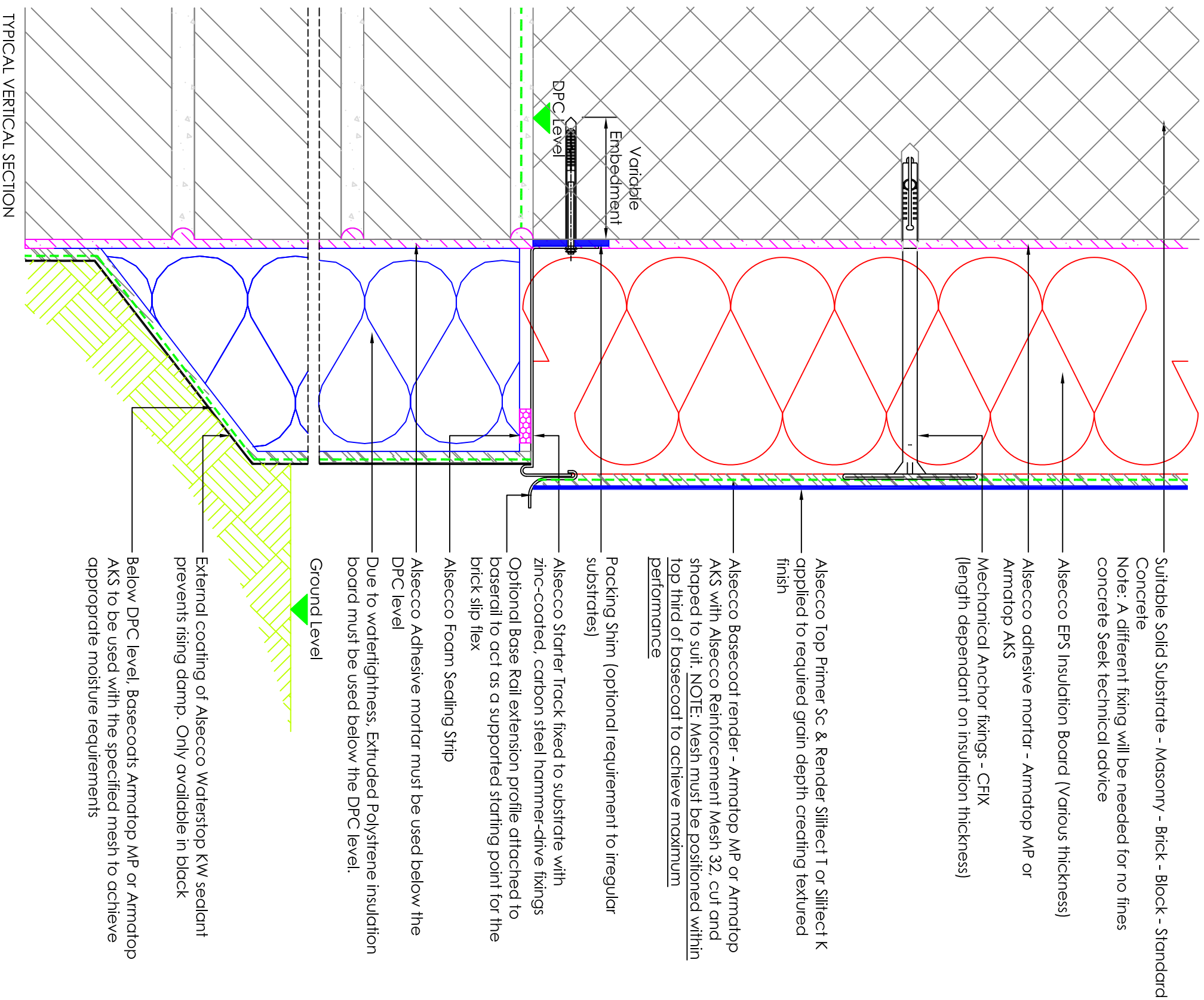
Project: STANDARD DETAILS

Title: BASE RAIL DETAIL

Status: Construction Checked: MFR

Drawn: SJB Date: 01/01/2019 Scale: 1:2 @A3

Job No: 0000000 Dwg No: LR-BAS1-SOL-001 Rev:



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
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Notes

 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 this 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 EWI Designer.

Revisions Date Amendment Name

Revisions	Date	Amendment	Name
1:30 - 0		For guidance only, Do not scale off this drawing	
1:30 - 0	1m	2m	3m
1:30 - 0	4m	5m	6m
1:30 - 0	7m	8m	9m
1:30 - 0	10m	12m	15m
1:30 - 0	100mm	200mm	300mm
1:30 - 0	400mm	500mm	



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Client: STANDARD DETAILS

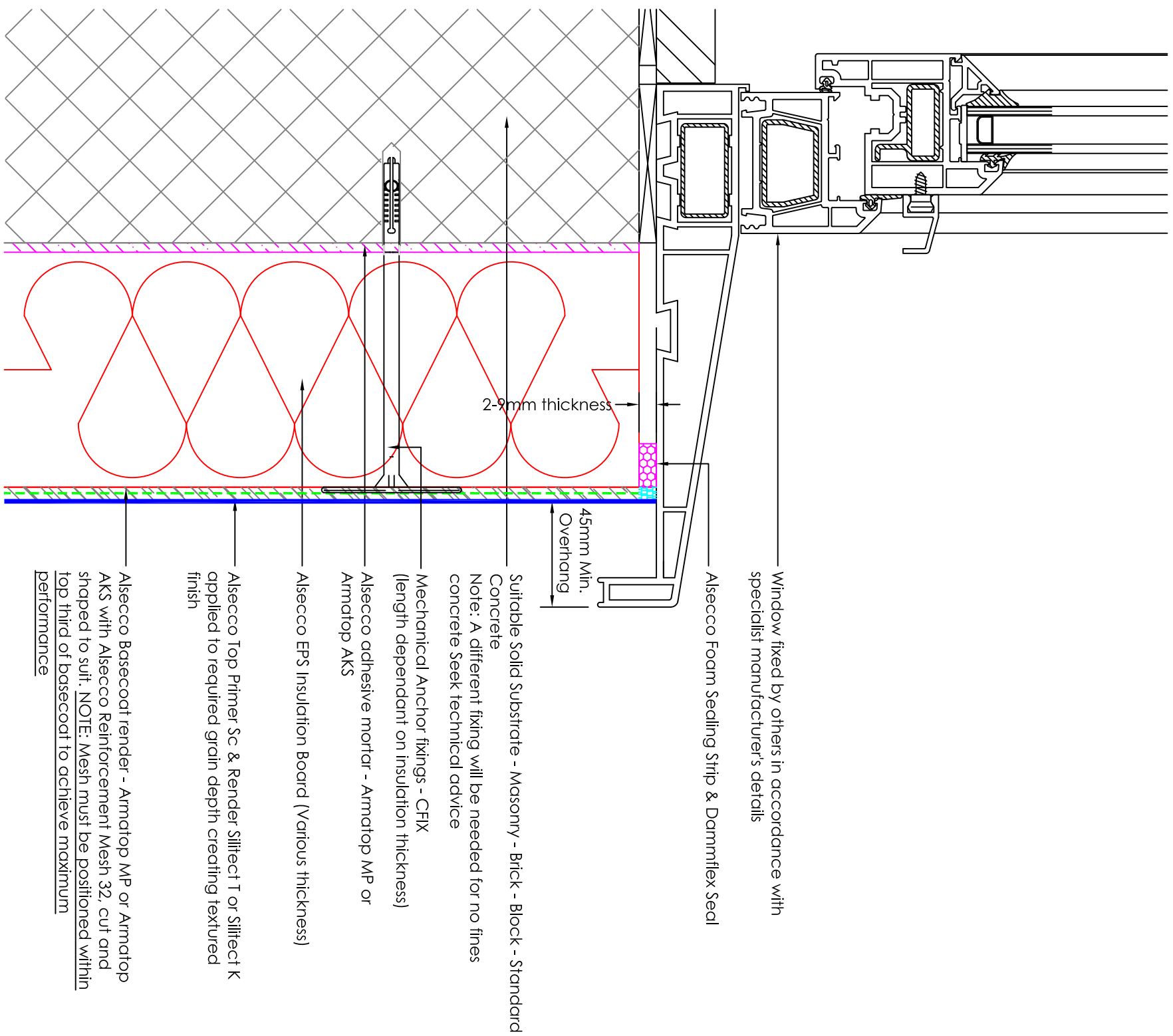
Project: STANDARD DETAILS

Title: BELOW DPC DETAIL

Status: Construction Checked: MFR

Drawn: SJG Date: 01/01/2019 Scale: 1:2 @A3

Job No: 0000000 Dwg No: LR-BAS1-SOL-002 Rev:



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

Notes

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 balconies that are unavoidable. The detail should be considered in the context of the property and current ventilation by the EBM Designer

Revisions	Date	Amendment	Name
1:30 - 0	2000mm		
1:100 - 0	1m		
1:50 - 0	2m		
1:3 - 0	100mm		
	200mm		
	300mm		
	400mm		
	500mm		

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Client: STANDARD DETAILS
 Project: STANDARD DETAILS
 Title: WINDOW CILL DETAIL

Status: Construction Checked: MFR
 Drawn: SJG Date: 01/01/2019 Scale: 1:2 @A3
 Job No: 0000000 Dwg No: LR-BAS1-SOL-003 Rev: