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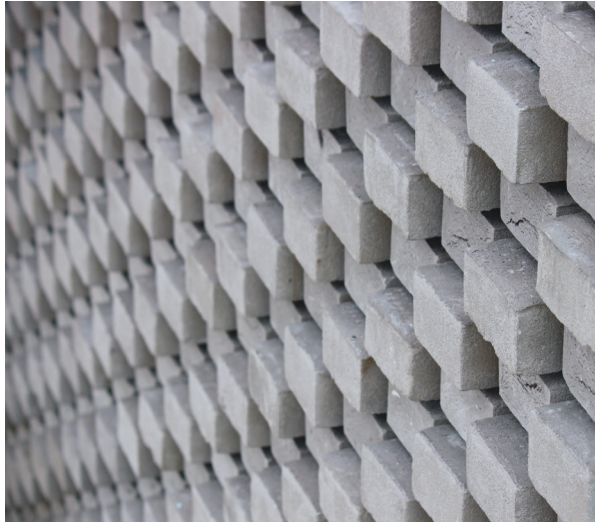
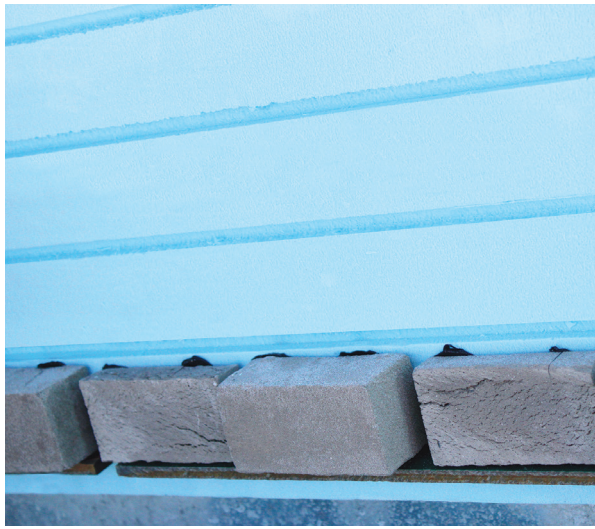
EasylationWall External Wall Insulation System



EasylationWall
The new insulation for exterior facades

bringing european innovation

smet[®]



EasylationWall...

the new External Wall Insulation System using brick slips for stunning façades.

EXTERNAL WALL INSULATION (EWI) IS WIDELY REGARDED AS A SIGNIFICANT RETROFIT METHOD PROVIDING ENDURING THERMAL INSULATION PERFORMANCE AND DURABILITY IN INSULATING BUILDINGS THEREBY IMPROVING THE LIVING CONDITIONS OF THE INHABITANTS.

EasylationWall....It's EASY!

EasylationWall is the latest in innovative, easy-to-use, stunning, industry-leading EWI technology based on brick slips, utilising natural stone or ceramics. EasylationWall is innovative in every aspect; from the method of installation, use of materials, the speed of application, to the achievable energy standards – all of which distinguish themselves from other systems. EasylationWall can be installed in new-builds and renovation projects and is also very suited to off-site construction systems such as timber-frame, steel-frame and prefab-concrete construction.

Benefits

- Any type of stone can be used – brick, natural stone or ceramic
- Quick to assemble – easy to apply
- High insulation value through use of XPS system
- Dry construction method – not weather dependent
- No cold bridges and moisture regulating
- Thermal insulation and acoustic solution in one system
- Low cost due to light construction method
- Applicable sustainably, 99% recyclable
- Stronger grout joint
- 10 year product guarantee

EasylationWall creating stunning façades using brick slips

EasylationWall EWI system complete with a brick slip finish, results in improved thermal performance of the building and a stunning façade finish in keeping with the area. The brick slips are created by sawing a shell of approx. 22 mm thickness off a complete whole brick. This is possible with almost any type of brick – clay fired brick, concrete brick and calcium silicate brick. In addition to flat slips, corner slips (L-shaped) and half bricks can also be created. Any type of stone or ceramic may be utilised to create the brick slip finish, including; natural stone, glass and ceramic.

The system can be applied externally or internally on any dry, flat, stable substrate. The substrate must be clean – completely free of dust and grease. The patented, frost-resistant adhesive provided with the system – must always be used. The adhesive application instructions must be strictly followed, as the correct application warrants the 10 year guarantee. Naturally, as every EWI project differs, having unique objectives and requirements - it's possible to supply a specific insulation solution of extruded polystyrene (XPS), offering a suitable insulation system for any requirement.

Exceptional energy efficiency in EWI using XPS

EasylationWall has been fully equipped to meet the challenges in energy reductions with its superior thermal insulation properties. In fact, even greater energy efficiency can be achieved because applications may be up to 30 cm insulation thickness. For example, using a 140 mm insulation board onto a single leaf wall construction and a brick slip - a U-value of 0.2 W/m²K is reached. However, using a 200 mm insulation board achieves a U-value of 0.15 W/m²K. Ultimately, utilising a 300 mm insulation board - a U-value of 0.11 W/m²K is achievable.

EasylationWall delivers high insulation values through use of an XPS system. The materials are made of extruded polystyrene hard foam. The high density insulation boards have a high thermal resistance and excellent impact resistance, delivering extremely durable end results. Due to the sealed cell structure, the system is damp proof and offers many unique characteristics. EasylationWall is therefore also a perfect solution to challenges in the areas of artistic design combined with thermal insulation.

Quality and Environment

EASYLATIONWALL EXTERNAL WALL INSULATION SYSTEM:

- MANUFACTURED UNDER EN ISO 9001: 2008 AND ISO 14001: 2004 SYSTEMS
- CE MARKED AND MANUFACTURED TO EN 13164
- COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF PASSIVHAUS INSTITUT DARMSTADT (D) FOR THERMAL BRIDGE FREE CONSTRUCTION

EasylationWall and off-site construction building systems

EasylationWall is the perfect partner for off-site construction building systems. The system can be installed as a panel onto the prefabricated building elements, serving as an exterior wall. A perfect example of this is the partnership with Dutch manufacturer CRH Structural, where EasylationWall is fixed to prefabricated steel frame construction. The advantage is that work continues regardless of adverse weather and the work process is not affected as the prefab elements can be quickly assembled on site.

The main advantages of prefab with EasylationWall:

- Lower cost due to light construction method
- Greater design freedom
- Large spans possible
- Extreme dimensional stability
- Dry construction method, not weather-dependent
- Short construction time and quick assembly
- High insulation values
- Extremely sustainable and 99% recyclable

Thermal Performance			
Board Thickness mm	Lambda W/mK	R-Value m ² K/W	U-Value W/m ² K
60	0.029	2.10	0.48
80	0.029	2.80	0.36
100	0.029	3.50	0.29
120	0.029	4.15	0.24
140	0.029	4.80	0.20
160	0.029	5.50	0.18
180	0.029	6.20	0.16
200	0.029	6.85	0.15





XPS Insulation Boards

EasylationWall uses STYROFOAM™ which has been manufactured by Dow since the 1940s. The process of extruding foamed polystyrene results in a material with uniformly small, closed cells - offering unrivalled characteristics. It's the superior choice of specifiers in a wide range of demanding insulation applications for:

- Low thermal conductivity: minimising the board thickness needed to achieve a specific U-value, thus allowing the designer greater flexibility.
- High compressive strength: in load-bearing applications, the closed cell structure gives the foam superb rigidity, making it highly resistant to compression.
- Low water absorption: STYROFOAM™ has natural resistance to rain, snow, frost and water vapour. It's an exceptionally stable material, retaining its initial insulation performance and physical integrity in exposed conditions over long durations. It was this unusual property that made the inverted warm flat roof concept possible - an idea pioneered by Dow.
- Ease of use: STYROFOAM™ is easily worked with regular hand tools.
- Hygienic properties: STYROFOAM™ boards have low susceptibility to rot, meaning mould or fungal growth is minimised. They are clean, odourless and free from irritating dust.
- Long-Life: Properly installed, STYROFOAM™ boards have a service life comparable with that of the building or structure.
- Environmental: STYROFOAM™ can be recycled in relevant facilities.

EasylationWall insulation boards are available in a number of different thicknesses designed to meet the performance requirements of specific applications.

EasylationWall insulation boards common Technical Properties

Properties	Standard	Unit	
Specific heat	-	kJ/kgK	1.4
Coefficient of linear thermal expansion	BS 4370: Part 3: 1988: Method 13	mm/mK	0.07
Working temperature range	-	°C	-50 to +75
Fire classification: reaction to fire	BS EN 13164 + BS EN 13501: Euroclass E		

EasylationWall Adhesive Requirements

EasylationWall includes Dynamic Bond cladding adhesive, a fast curing - permanently elastic 1-component adhesive/sealant based on a MS-hybrid-polymer. It's moisture curing, neutral polymerization, odourless and gives excellent adhesive strength between stone cladding and XPS insulation board. Dynamic Bond is also used for adhering the shiplap edge of the individual insulation boards. EasylationWall uses a single component self expanding polyurethane adhesive for fixing the insulation board to the substrate as well as mechanical fixings. The product has been specially developed for clean, efficient, economic and permanent bonding of insulation panels. The adhesive application instructions must be strictly followed, as the correct application warrants the 10 year guarantee.



The process of EasylationWall application



Step 1

Prepared XPS board with groove. Depth of the groove and space height are available in any dimension required.



Step 3

Method of application.



Step 5

Use insulation fixing provided.



Step 7

Insert sealing cap, to prevent a cold bridge.



Step 9

Insert spacers to required vertical joint layout.



Step 11

Fix prepared brick slips to insulation board.



Step 13

When the slips are firmly in place, you can slide along the spacer.



Step 15

Prepare pointing mortar.



Step 17

After pointing, brush clean using soft brush.



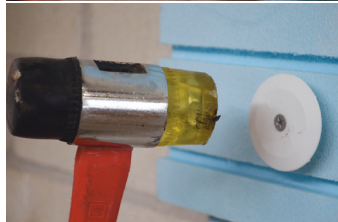
Step 2

Applying foam adhesive to the rear of the board.



Step 4

Pre-drilling for mechanical fixing.



Step 6

Insert and secure fixing as directed.



Step 8

Apply bead of adhesive provided to insulation board edge in order to prevent cold bridge and bond individual boards.



Step 10

Apply adhesive provided to brick clips, slate, natural stone or ceramic materials.



Step 12

Press brick slips firmly into place.



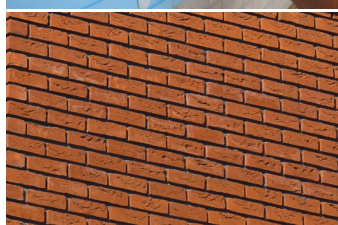
Step 14

Check result and correct if necessary.



Step 16

Pointing the brick slips. Any type of good quality pointing mortar may be used.

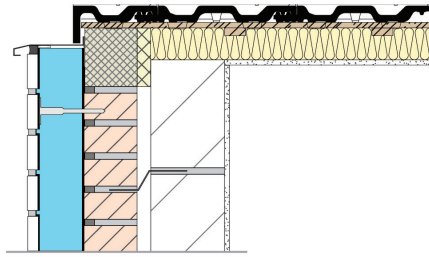


Step 18

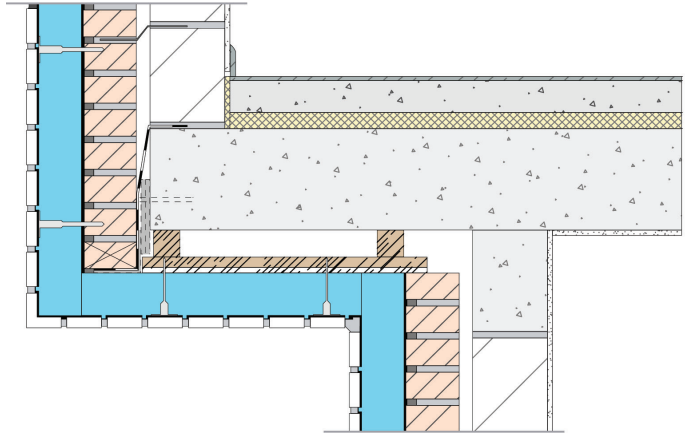
End result.

Typical façade detail

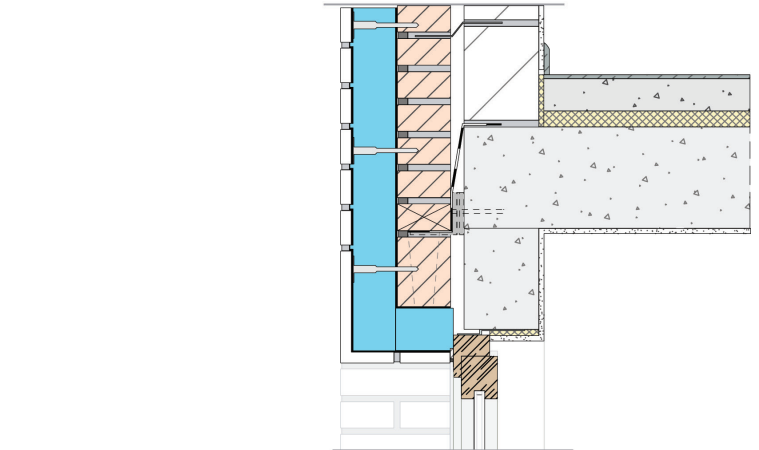
If you require any specific requirements and to discuss your EasylationWall system, please contact SMET.



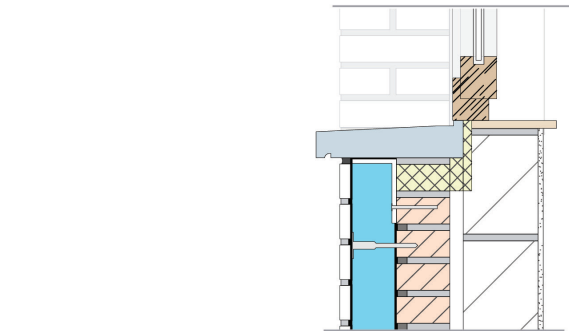
Roof Verge Detail



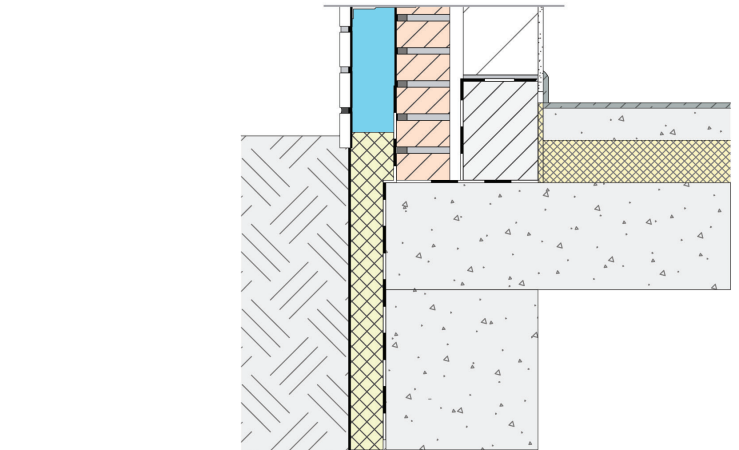
Projecting Eave / Verge Detail



Head Detail

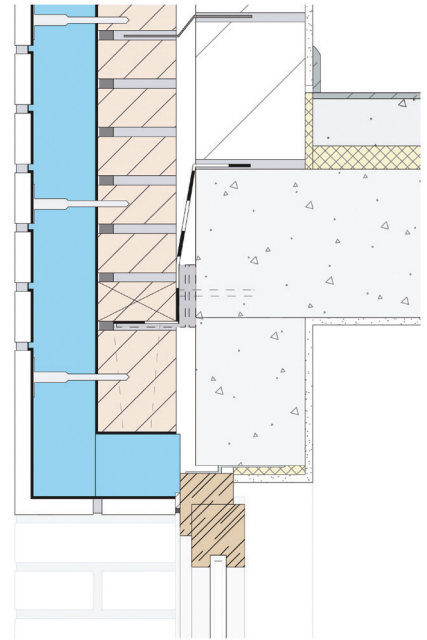


Sill Detail

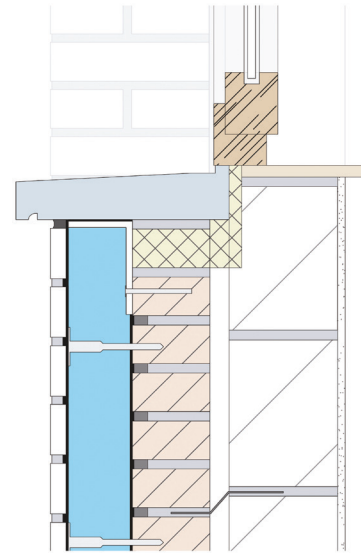


Base Detail

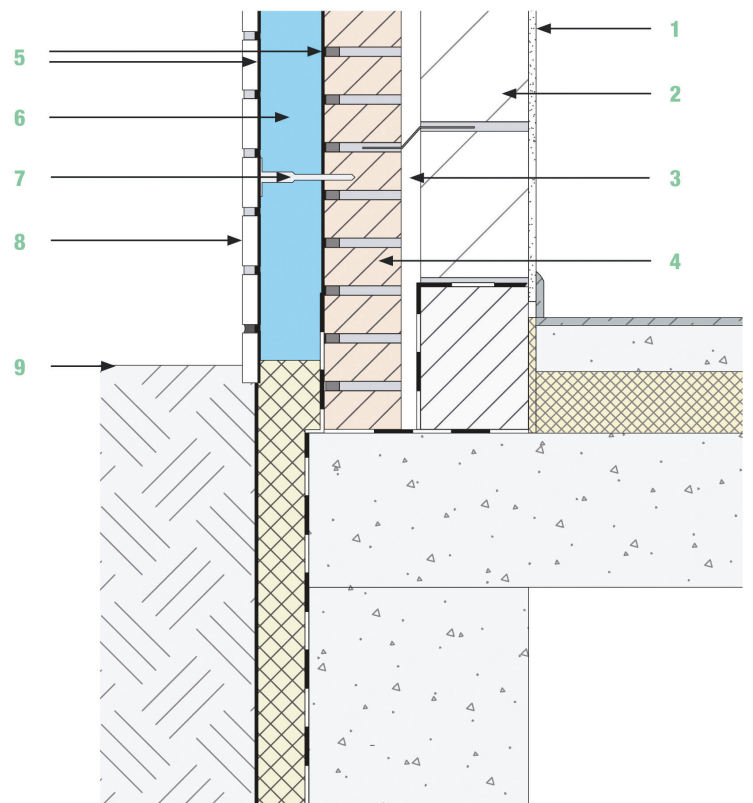
Head Detail



Sill Detail



Base Detail



1. Plaster
2. Inner Leaf
3. Cavity
4. Original Outer Leaf
5. Adhesive
6. XPS Insulation
7. Mechanical Fixing
8. Brick Slip
9. Ground Level

SMET – Bringing European Innovation

Smet Building Products Ltd is dedicated to delivering the leading names in Floor Screeds, Renders, Plasters, Tiling Systems, Natural Hydraulic Lime, Streetscape® BS 7533 Compliant Mortars and External Wall Insulation - direct to the UK and Ireland. As a family run business, our strength is in delivering innovative high quality products supported by exceptional technical and customer service.

SMET - Service & Support

The EasylationWall External Wall Insulation system is backed up with the expertise of a team of technical advisors. SMET is site-focused, providing you – the Smet Supported Partner, with industry specialists who will train, demonstrate and continue to monitor your project ensuring a first-class finish.

SMET - A Guarantee for Quality

As an EN ISO 9001, ISO 14001 and Constructionline certified company, SMET delivers assurance along with a complete portfolio of building products, supported by exceptional technical and customer service. SMET can meet the complex demands of architects, specifiers, engineers and designers for all phases of construction.

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'We pride ourselves on continually delighting our Smet Supported Partners with innovative products and systems, backed up by exceptional customer service'.

Joris Smet, Director of Smet Building Products Ltd



Smet Building Products Ltd



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bringing european innovation

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