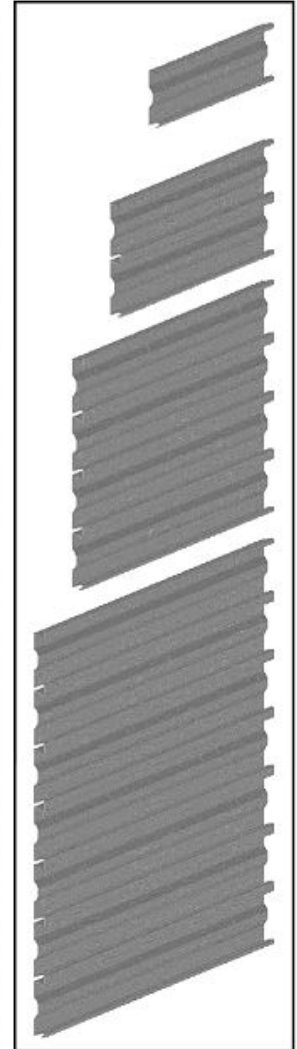
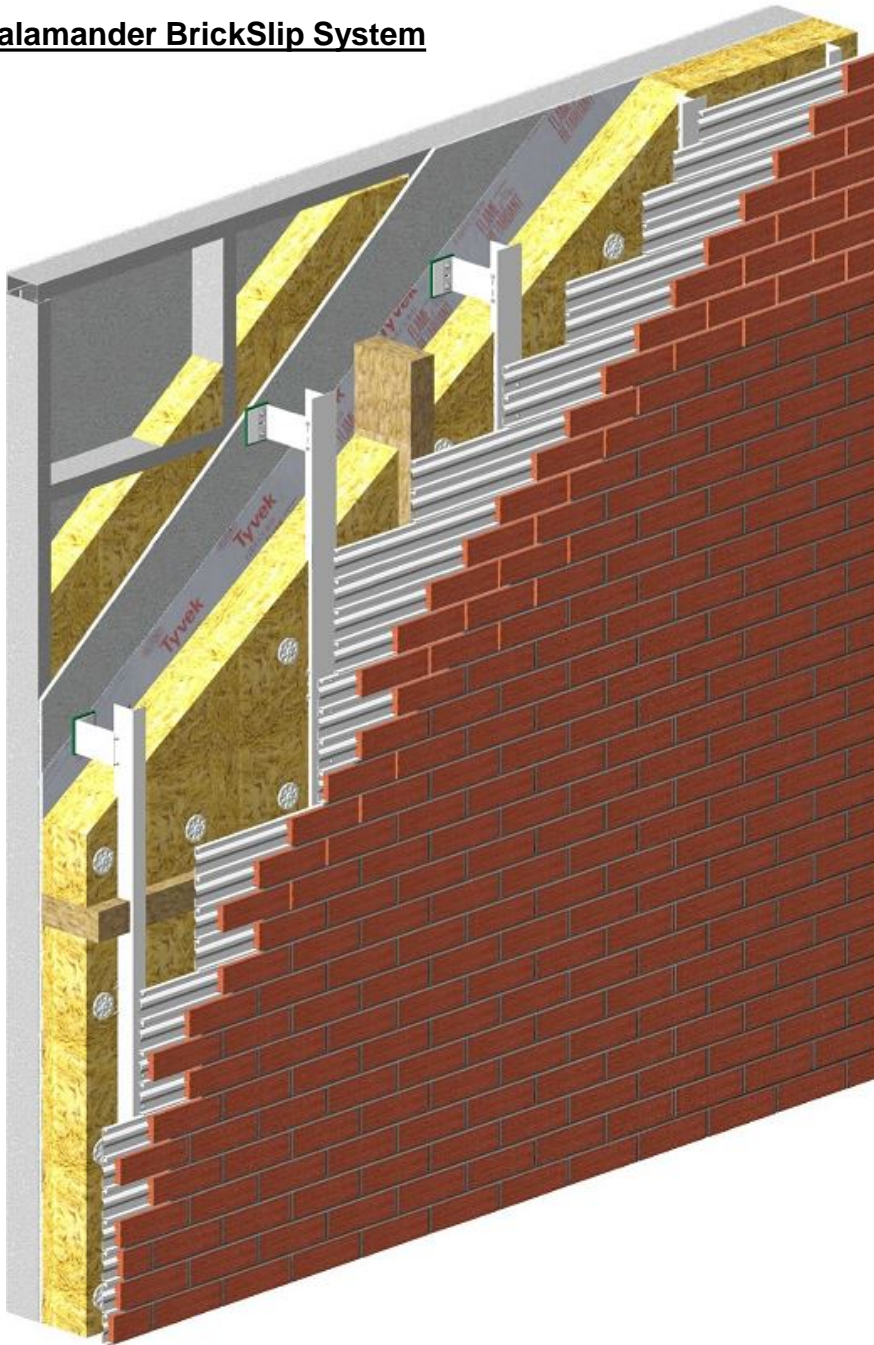


## Salamander Brick Slip Innovation Limited

### Rainscreen Cladding System Installation Procedure

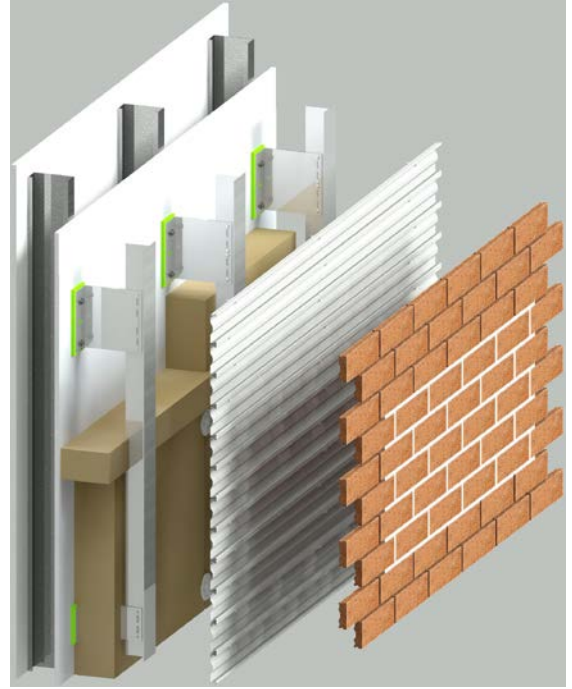
#### Salamander BrickSlip System



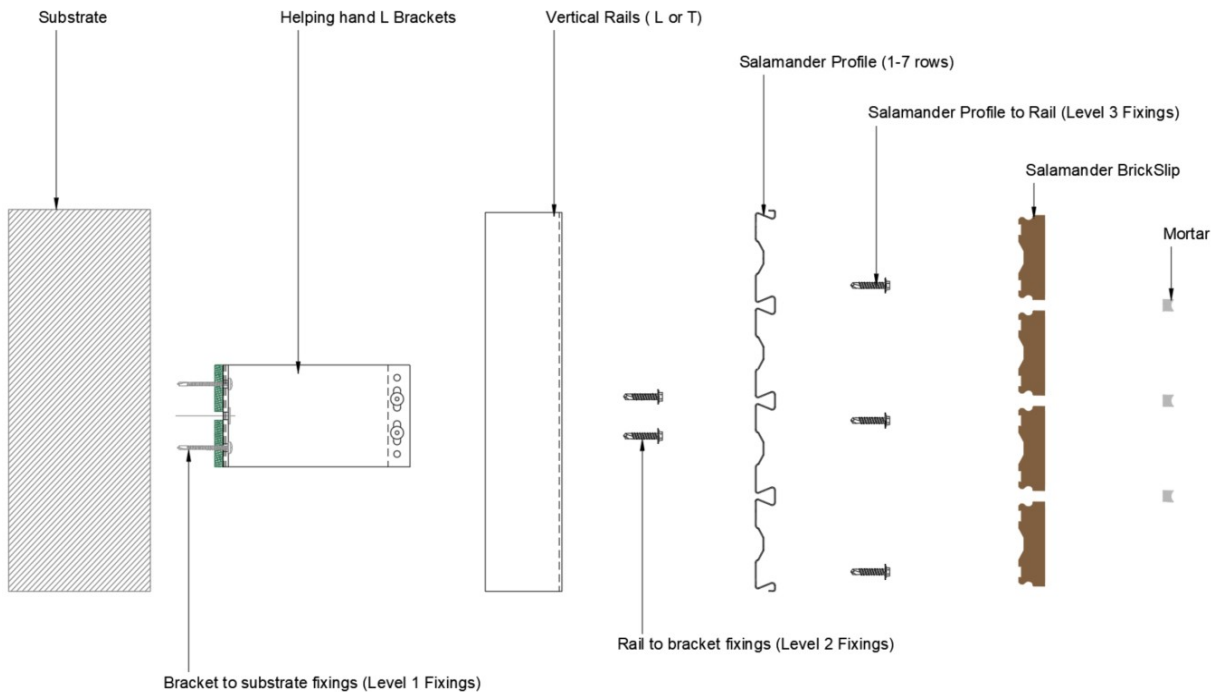
# Salamander BrickSlip System Installation Procedure

The Salamander BrickSlip System consists of clay brickslips, mechanically push fitted to the salamander profile (1-7 rows), fixed to the sub frame comprising T rails or L rails and helping hand L Brackets which creates a cavity. The helping hand L brackets are mechanically fixed to the substrate. The system is suitable for installation above damp-proof course level. The Salamander profile is designed to course fit the shape of Brickslips, profile can be available either as single row profile or up to 7 rows profile.

The Salamander BrickSlip Cladding System is suitable for use as protective and decorative back-ventilated and drained cavity rain-screen cladding to existing substrates. The system is ideal for external walls of domestic and non-domestic buildings, above the damp-proof course level in areas with non-severe exposure to chemicals.



## Salamander BrickSlip System Overview:



# Salamander BrickSlip System Installation Procedure

Salamander is suitable for new build construction and for renovating existing structures, and is suitable to be fixed to the following materials:

- ✓ Existing Masonry/brickwork
- ✓ Existing concrete frame
- ✓ Dense concrete blockwork (min. 1450 kg/m<sup>3</sup>)

Lightweight steel framing  
New build blockwork  
Timber frame Steel frame



Steel Frame walls (SFS)



Timber Frame Walls



Masonry wall



Concrete Wall

The substrate walls to which the systems are fixed must be structurally sound, and designed and constructed in accordance with the requirements of the relevant national Building Regulations and Standards.

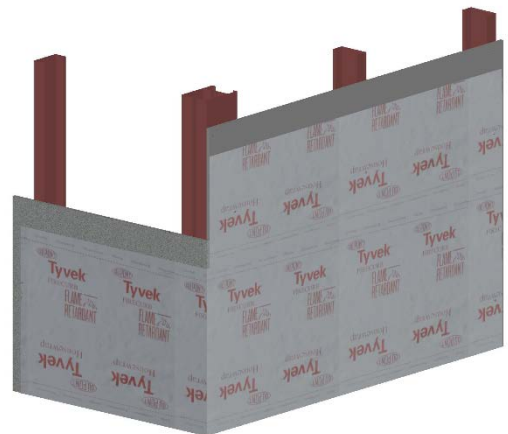
The substrate wall face to which the systems are fixed should be flat, vertical and capable of supporting appropriate loads. Vertical sub-frame supports are required at maximum 600 mm centres.

A pre-installation survey must be done to check the condition of the substrate wall with regard to being flat and vertical within the acceptable tolerances.

## ➤ Installation of Sheathing Board to the Substrate

Install EcoBoard A1 Fibrecment board vertically on the Main substrate. Make sure the board joints to be staggered. Boards shall be fixed to substrate Using Rawlplug R-CWT CSK wingtip self-drilling screws at 200mm to 300mm nominal vertical centres.

It is recommended that when the system is fixed directly to the face of a wall, a continuous waterproof breather membrane is incorporated on Substrate. Attach the Tyvek Firecurb housewrap Breather membrane to the board using tapes and stapler.



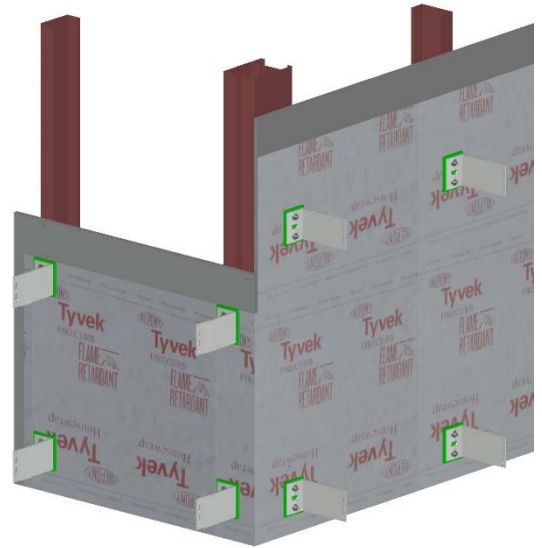


# Salamander BrickSlip System Installation Procedure

## ➤ Installation of Nvelope Brackets

Fix the Nvelope Brackets to the Substrate using the secure fasteners. Bracket fasteners are used to anchor substructures to load-bearing base materials. The Fasteners type may vary depends on the substrate. Make sure the bracket has been fixed to the substrate as specified in Approve GA drawings. The brackets are preassembled with thermal isolators which help reduce thermal bridging. brackets are available with 11mm or 6.5mm slots, depending on the diameter of the required primary anchor (11mm – Block\Masonry and 6.5mm – Steel/Timber). These are available as singles and doubles.

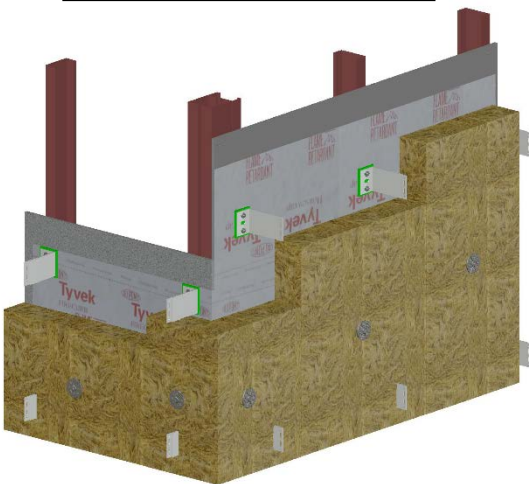
## Nvelope Brackets Installed



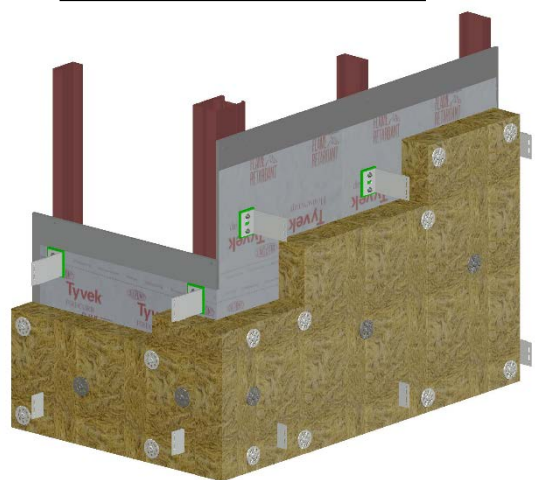
## ➤ Installation of Insulation

Affix Echo Bonus Stone Wool Insulation to the sheathing board with long edge vertical and staggered Joints. The Insulation shall be fixed using Rawlplug metal insulation flange at the centre and four to six Rawlplug plastic Insulation flange on the edges. Install a minimum of 3 fixings/m<sup>2</sup> of which 1/m<sup>2</sup> must be metal. A minimum of one non-combustible fixing per 1m<sup>2</sup> (Metal)

## Rawlplug Insulation SS Fixings



## Insulation Fixings Plastic & SS



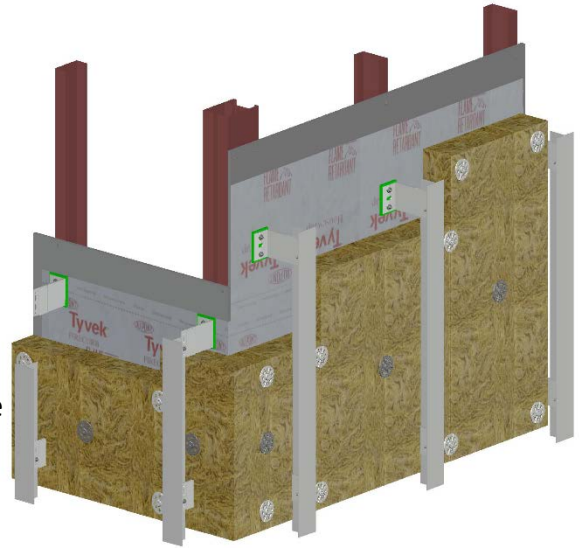
# Salamander BrickSlip System Installation Procedure

## ➤ Installation of Vertical Rails

Once a line of vertical brackets is installed, 'L' rail / 'T' rail can be attached using the 'helping hand' at each bracket position. Each 'L' or 'T' rail should be cut to the required length, from standard length rails. Place the rail in each of the brackets using the helping hand to support the rail. Move the rail into its vertical position - allowing 10mm expansion gaps between rails.

Generally, profiles are cut to lengths that reflect the storey height. Typically, storey height profiles are cut so that the panel(s) are located on one set of vertical profiles and does not 'bridge' the 10mm expansion gap between two profiles.

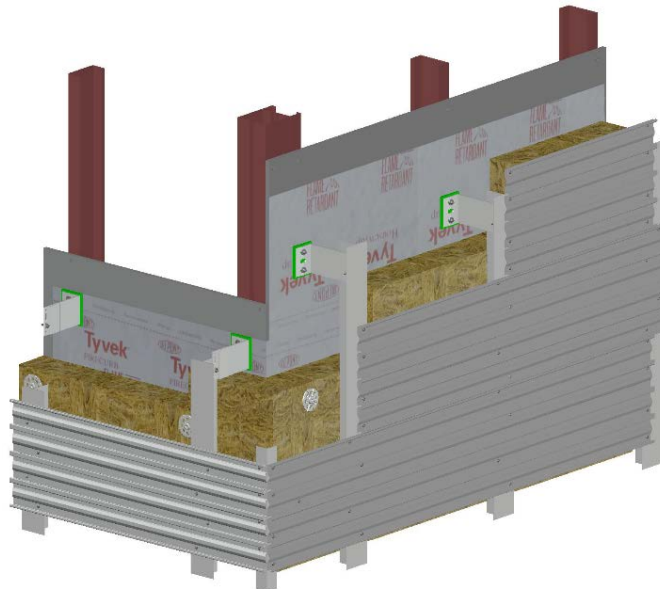
As each profile is secured to the brackets ONE, near the centre of the profile, MUST be connected with fixings going through the HOLES. (Fixed point) ALL other brackets should then be fixed in the SLOTS (sliding point). For precise fixed point and sliding points - a project specific static calculation to be prepared. Secure the rail using stainless steel screws to the fixed or sliding point



## ➤ Installation of Salamander Profile

Fix Salamander Profile to the Installed Sub-Frame. Use Rawlplug Pan head self drilling screw. Minimum of 27 screws required per sq.m

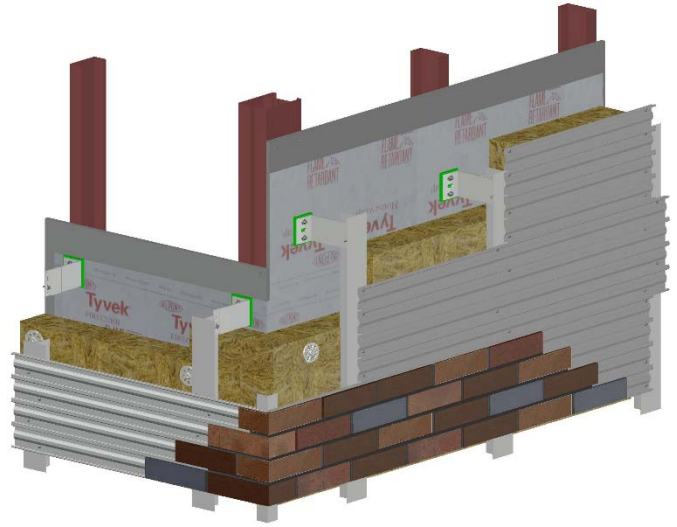
In other words the Salamander Profile must be fixed to the sub-frame using self drilling screws staggered. The Maximum spacing between the screws must not exceed 600mm horizontally. Leave a 3mm gap at the joints.



# Salamander BrickSlip System Installation Procedure

## ➤ Installation of BrickSlip

Push Salamander brick slips firmly into place, guided by the pre-formed upper and lower ribs on the Salamander profile. Generally, profiles are cut to lengths that reflect the storey height. Typically, storey height profiles are cut so that the panel(s) are located on one set of vertical profiles and does not 'bridge' the 10mm expansion gap between two profiles.



## ➤ Apply Pointing Mortar

Once the BrickSlip installation is complete simply injection point with Pointing mortar in a bucket handle profile to realise a classic clay brick finish. The 'cutting off' of excess mortar prior to tooling is recommended when smooth faced tiles are being used. Mortar is a dry packed blend of lime, GGBS, selected silica sands and natural aggregates together with additives to provide water resistance, workability and colour. A minimum Class (iii) designation mortar can be used. Bucket Handle joint profile is recommended, however for certain products a slightly recessed joint, no more than 3mm, may be more aesthetically suitable. Follow the mixing guidelines supplied on the packaging and allow sufficient curing time. Avoid mortar contamination on bare aluminium rails.

