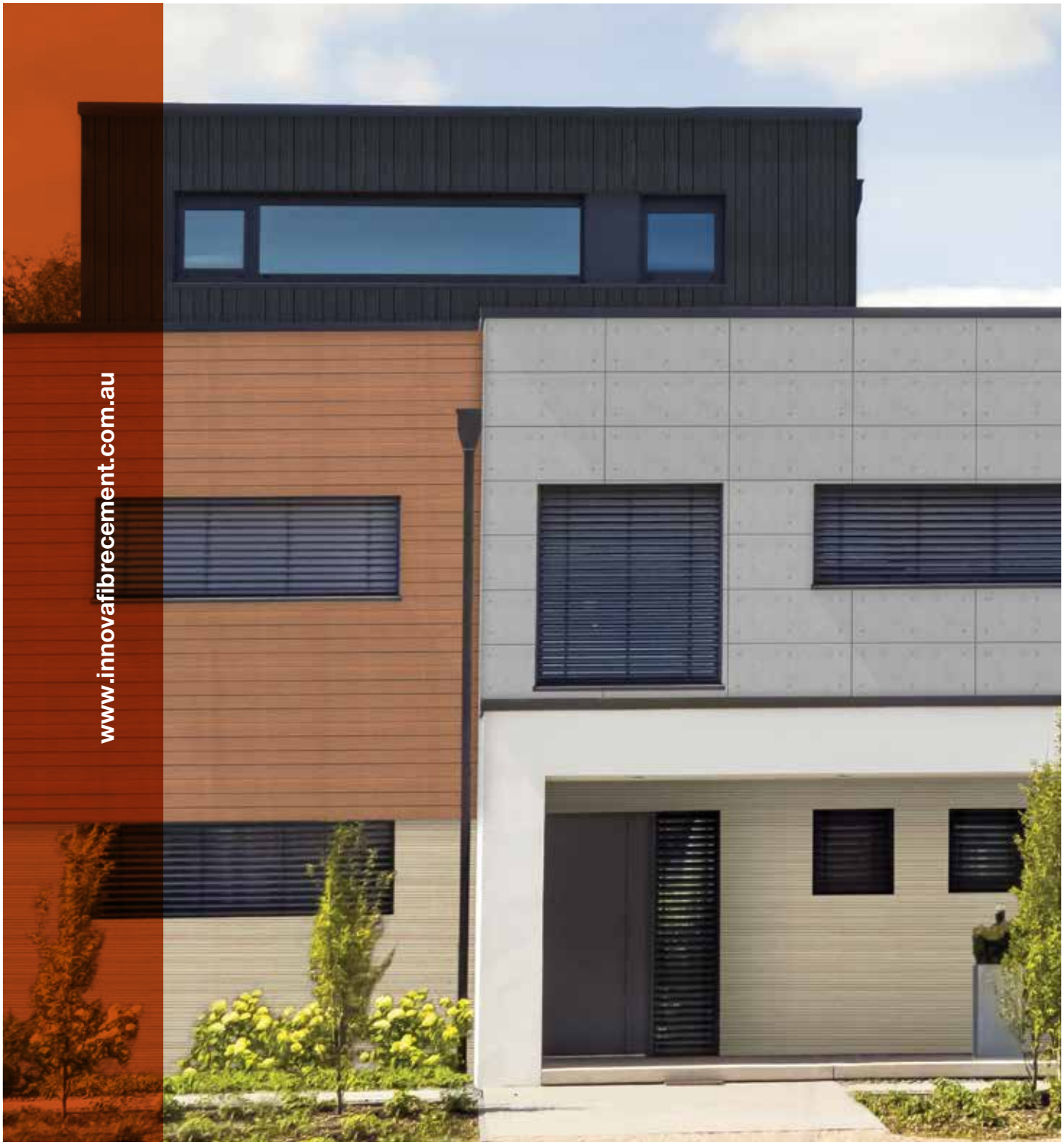
Technical brochure
**August 2024**

innova™

# MONTAGE™
## PRE-FINISHED FACADES



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Innova™'s stunning range of facade, lining and flooring products will move you to reassess your concept of excellence in facades and flooring systems. Durable and dynamic, fresh and contemporary, Innova™ is already turning industry heads. Now let the Innova™ range of cladding and flooring products breathe new life into your creativity and project specification.

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# MONTAGE™
PRE-FINISHED FACADES

## Montage™ is a versatile fibre cement facade system that can be used both externally and internally. It's pre-formed, pre-finished and non-combustible, making it a durable, safe and aesthetic addition to your project.

With a colour palette carefully considered to be blended or contrasted, you'll have an array of options to play with. The deep form embossed into the panels also creates a striking effect, making your project stand out from the streetscape.

### MONTAGE™ Pre-Finished Facades

/ Easy to install and designed to withstand the elements, Montage™ was created with critical specifying needs in mind. Not only does it look stunning, but its simple installation speeds up the building process too – reducing project build time with no need for finishing trades.

## About Montage™

Montage™ exterior facade system combines a range of pre-finished interlocking fibre cement panels with a concealed fixing system that can be used both externally and internally for commercial and residential buildings.

The Montage™ technical brochure has been prepared considering good building practice and careful consideration should be given to panel layout once the panel design has been selected.

The Montage™ technical brochure is designed to incorporate most common facade applications and it is recommended the Montage™ panels are installed by building professionals and tradesmen who are experienced with installing fibre cement facade and cladding systems.

It remains the responsibility of the Architect, Specifier and Building Designer to assess the information contained in the Montage™ installation guide to ensure that it is suitable for the project or application.

## Montage™ Branding and Testing

Montage™ is the brand name used by Innova Fibre Cement for the imported product from Konoshima Chemicals in Japan named Kawaii Fibre Cement Wall Cladding System. All testing has been carried out to AUS/NZ Standards and all certificates and reports have been issued under the name Konoshima Chemicals Kawaii Fibre Cement Wall Cladding System.

## Product Information

Montage™ panels are manufactured from cement bonded wood fibres that have a pattern impressed to the face of the panel. The panels are then pre-finished using a multiple coat finishing system that is supplied in a variety of colours and textures that emulate the look of Concrete, Stackstone, Slimline Tile and Woodgrain.

Montage™ Concrete panels are manufactured in a sheet size of 3030mm x 455mm x 16mm. Montage™ Slimline Tile, Stackstone and Woodgrain are manufactured in a sheet size of 3030mm x 455mm x 18mm. They are pre-finished ready for installation, and the coating is highly durable.

Each panel has a factory applied weather seal at the joint that is compressed when the panels interlock, forming a tight fit that creates a weather resistant joint.

Care should be taken when transporting, handling, cutting and installing Montage™ panels to ensure that they are not damaged. A range of touch up paints (see page 15 for details on colours) are available for minor repairs to the panels should this be necessary.

The Montage™ panels are installed using a range of accessories including matching pre-formed corners, starter strips, top hats and clips that are designed as a complete installation system.

The clip installation system aids the ventilation of the wall cavity assisting drainage and airflow, reducing the risk of moisture build up and assists to prevent mould.

Montage™ panels are manufactured to the Australian/New Zealand Standard AS/NZS 2908.2-2000 Cellulose - Cement Products, Part 2: Flat sheets and Montage™ is classified as Type A-Category 3.

## Fire Resistance

Montage™ has been tested in accordance with Australian Standard AS1530.3.

These tests deemed the following Early Fire Hazard Indices:

| | |
|---|---|
| / Ignitability Index | 0 |
| / Spread of Flame Index | 0 |
| / Heat Evolved Index | 0 |
| / Smoke Developed Index | 0-1 |

## Durability

The physical properties of Montage™ make it a very durable product.

/ Montage™ panels will not rot or burn and are unaffected by termites, air, steam, salt and sunlight.
/ Montage™ panels are not adversely affected over a temperature range of 0°C to 95°C.

## Vapour Permeable Moisture Barrier

A vapour permeable moisture barrier must be installed in accordance with the AS/NZS 4200.2 – 'Pliable building membranes and underlays – Installation and the vapour permeable moisture barrier manufacturers' guidelines. The vapour permeable moisture barrier should have the following properties:

/ Vapour barrier – low or medium
/ Water barrier – high

A vapour permeable moisture barrier is used to prevent moisture ingress by acting as a drainage plane while enabling water vapour build up from inside the frame to escape.

## Flashing

It is a requirement of the NCC to install flashings to all penetrations which includes but not exclusive to windows, doors, meter boxes, intersections etc.

## Non-combustibility

Montage™ is deemed as non-combustible in accordance with the NCC (National Construction Code) as reviewed by Ignis Solutions (certificate can be provided upon request).

## Weather Resistance

Montage™ conforms to the National Construction Code (NCC) requirements for external wall applications. Montage™ has been tested to AS/NZS 4284 Testing of Building Facades. All cut edges must be sealed to protect against moisture penetration into the Montage™ panel.

## Sheet Tolerances

Montage™ complies with the requirements of JIS A 5422:2014.

## Health and Safety

Montage™ is manufactured from cellulose fibre, finely ground sand, cement and additives. As manufactured, the product will not release airborne dust, but during drilling, cutting and sanding operations cellulose fibres, silica and calcium silicate dust may be released.

Breathing in fine silica dust is hazardous and prolonged exposure (usually over several years) may cause bronchitis, silicosis or cancer.

## Avoid Inhaling Dust

When cutting sheets, work in a well ventilated area and use the methods recommended in this literature to minimise dust generation. If using power tools wear an approved (P1 or P2) dust mask and safety glasses.

These precautions are not necessary when stacking, unloading or handling fibre cement products. For further information or a Material Safety Data Sheet contact the nearest Sales Office or go to www.innovafibrecement.com.au

## Cutting and Drilling

Montage™ may be cut to size on site. If using power tools for cutting, drilling or sanding they must be fitted with appropriate dust collection devices or alternatively an approved (P1 or P2) dust mask and safety glasses should be worn. It is recommended that work always be carried out in a well ventilated location.

The most suitable cutting methods are:

/ DURABLADE
180mm diameter.
This unique cutting blade is ideal for cutting fibre cement. It can be fitted to a 185mm circular saw, i.e. Makita or similar. Please ensure safe working practices when using.

Innova recommends Montage™ is cut with the profile face down when using Durablade.

/ DRILLING
Use normal high-speed masonry drill bits. Do not use the drill's hammer function. For small round holes, the use of a hole-saw is recommended.

For small rectangular or circular penetrations, drill a series of small holes around the perimeter of the cut out. Tap out the waste piece from the sheet face while supporting the underside of the opening to avoid damage. Clean rough edges with a rasp.

Large rectangular openings are formed by deeply scoring the perimeter of the opening. Next, form a hole in the centre of the opening (refer method above) then saw cut from the hole to the corners of the opening. Snap out the four triangular segments. Clean rough edges with a rasp.

## Handling and Storage

Montage™ must be stacked flat, up off the ground and supported on equally spaced (max 400mm) level gluts. Care should be taken to avoid damage to the ends, edges and surfaces. Sheets must be kept dry. When stored outdoors it must be protected from the weather. Sheets must be dry prior to fixing, jointing or finishing.

## Panels and Accessories
## Concrete

| DESCRIPTION | PRODUCT CODE | SIZE mm | WEIGHT kg/m² |
|---|---|---|---|
| Concrete - Square with Circle | KCFORMSC | 3030 x 455 x 16 | 18.9 |
| Concrete - Rectangular with Circle | KCFORMRC | | |
| Concrete - Smooth Plain | KCFORMSM | | |


Square with Circle


Rectangle with Circle


Smooth Plain

## Slimline Tile

| DESCRIPTION | PRODUCT CODE | SIZE mm | WEIGHT kg/m² |
|---|---|---|---|
| Slimline Tile - Limestone | K122369D | 3030 x 455 x 18 | 17 |
| Slimline Tile - Sandstone | K122374D | | |
| Slimline Tile - Basalt | K122388D | | |
| Slimline Tile - Onyx | K122582D | | |


Limestone


Sandstone


Basalt


Onyx

## Stackstone

| DESCRIPTION | PRODUCT CODE | SIZE mm | WEIGHT kg/m² |
|---|---|---|---|
| Stackstone - Limestone | K151358D | 3030 x 455 x 18 | 16.7 |
| Stackstone - Sandstone | K151303D | | |
| Stackstone - Basalt | K151316D | | |
| Stackstone - Onyx | K151318D | | |


Limestone


Sandstone


Basalt


Onyx

## Panels and Accessories
## **Woodgrain**

| DESCRIPTION | PRODUCT CODE | SIZE mm | WEIGHT kg/m² |
|---|---|---|---|
| Woodgrain - Light Teak | K112385D | 3030 x 455 x 18 | 17.8 |
| Woodgrain - Dark Mahogany | K112460D | | |
| Woodgrain - Grey Oak | K112485D | | |
| Woodgrain - Black Oak | K112525D | | |


Light Teak


Dark Mahogany


Grey Oak


Black Oak

## Montage™ Panel Coverage

| ROWS/COLUMNS | COVERAGE |
|---|---|
| 1 | 455 |
| 2 | 910 |
| 3 | 1365 |
| 4 | 1820 |
| 5 | 2275 |
| 6 | 2730 |
| 7 | 3185 |
| 8 | 3640 |
| 9 | 4095 |
| 10 | 4550 |

**The recommended minimum cut panel size is 100mm in length and 200mm in height. All cut panels must have edges sealed in order to protect against moisture penetration.**

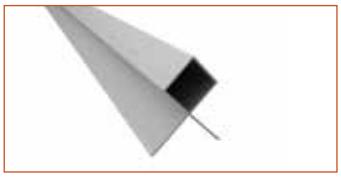
## Panels and Accessories
## Pre-formed Corners - Horizontal Installation

| DESCRIPTION | PRODUCT CODE | SIZE mm | |
|---|---|---|---|
| Concrete | KOPA048T163D | 455 x 16 |  |
| Woodgrain - Light Teak | K112T385D | 455 x 18 |  |
| Woodgrain - Dark Mahogany | K112T460D | | |
| Woodgrain - Grey Oak | K112T485D | | |
| Woodgrain - Black Oak | K112T525D | | |
| Slimline Tile - Limestone | K122T369D | 455 x 18 |  |
| Slimline Tile - Sandstone | K122T374D | | |
| Slimline Tile - Basalt | K122T388D | | |
| Slimline Tile - Onyx | K122T582D | | |
| Stackstone - Limestone | K151T358D | 455 x 18 |  |
| Stackstone - Sandstone | K151T303D | | |
| Stackstone - Basalt | K151T316D | | |
| Stackstone - Onyx | K151T318D | | |

## Pre-formed Corners - Vertical Installation

| | | | |
|---|---|---|---|
| Woodgrain - Light Teak | K112L385D | 3030 x 18 |  |
| Woodgrain - Dark Mahogany | K112L460D | | |
| Woodgrain - Grey Oak | K112L485D | | |
| Woodgrain - Black Oak | K112L525D | | |

## Panels and Accessories
# Aluminium Corners - External Corners



External Corner - EXTCNR36

Basalt

Sandstone

Dark Mahogany

Onyx/Black Oak

Light Teak

Concrete/Grey Oak

Limestone

| DESCRIPTION | PRODUCT CODE | COLOUR | SIZE mm |
|---|---|---|---|
| Concrete - Square with Circle | KEXTCNR36CGO | Concrete/Grey Oak | 3600 |
| Concrete - Rectangle with Circle | | | |
| Concrete - Smooth Plain | | | |
| Slimline Tile - Limestone | KEXTCNR36LS | Limestone | 3600 |
| Slimline Tile - Sandstone | KEXTCNR36SS | Sandstone | |
| Slimline Tile - Basalt | KEXTCNR36BA | Basalt | |
| Slimline Tile - Onyx | KEXTCNR36OBO | Onyx/Black Oak | |
| Stackstone - Limestone | KEXTCNR36LS | Limestone | 3600 |
| Stackstone - Sandstone | KEXTCNR36SS | Sandstone | |
| Stackstone - Basalt | KEXTCNR36BA | Basalt | |
| Stackstone - Onyx | KEXTCNR36OBO | Onyx/Black Oak | |
| Woodgrain - Light Teak | KEXTCNR36LT | Light Teak | 3600 |
| Woodgrain - Dark Mahogany | KEXTCNR36DM | Dark Mahogany | |
| Woodgrain - Grey Oak | KEXTCNR36CGO | Concrete/Grey Oak | |
| Woodgrain - Black Oak | KEXTCNR36OBO | Onyx/Black Oak | |

## Panels and Accessories
## Aluminium Corners - Internal Corners

Internal Corner - INTCNR36

Basalt

Sandstone

Dark Mahogany

Onyx/Black Oak

Light Teak

Concrete/Grey Oak

Limestone

| DESCRIPTION | PRODUCT CODE | COLOUR | SIZE mm |
|---|---|---|---|
| Concrete - Square with Circle | KINTCNR36CGO | Concrete/Grey Oak | 3600 |
| Concrete - Rectangle with Circle | | | |
| Concrete - Smooth Plain | | | |
| Slimline Tile - Limestone | KINTCNR36LS | Limestone | 3600 |
| Slimline Tile - Sandstone | KINTCNR36SS | Sandstone | |
| Slimline Tile - Basalt | KINTCNR36BA | Basalt | |
| Slimline Tile - Onyx | KINTCNR36OBO | Onyx/Black Oak | |
| Stackstone - Limestone | KINTCNR36LS | Limestone | 3600 |
| Stackstone - Sandstone | KINTCNR36SS | Sandstone | |
| Stackstone - Basalt | KINTCNR36BA | Basalt | |
| Stackstone - Onyx | KINTCNR36OBO | Onyx/Black Oak | |
| Woodgrain - Light Teak | KINTCNR36LT | Light Teak | 3600 |
| Woodgrain - Dark Mahogany | KINTCNR36DM | Dark Mahogany | |
| Woodgrain - Grey Oak | KINTCNR36CGO | Concrete/Grey Oak | |
| Woodgrain - Black Oak | KINTCNR36OBO | Onyx/Black Oak | |

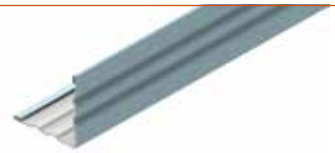
## Panels and Accessories
## Montage™ Accessories - Horizontal

| DESCRIPTION | PRODUCT CODE | |
|---|---|---|
| Horizontal Cavity Starter - 3030mm | KBTK-G17 |  |
| 15mm Cavity Clip - 60 x 56 x 15mm | KBTK-D02 |  |
| 15mm Spacer - 50 x 50 x 15mm | KBSP-002 |  |
| 20mm High Hat Joiner - 3030mm | KBGK-HJ0820 |  |
| 16mm Single Hat Joiner - 3030mm | KBGK-KJ0816 |  |

## Panels and Accessories
## Montage™ Accessories - Vertical

| DESCRIPTION | PRODUCT CODE | |
|---|---|---|
| Vertical Cavity Starter - 150mm | KBTK-D10 |  |
| 5mm Cavity Clip - 62 x 50 x 5mm | KBTK-D01-N |  |
| 5mm Spacer - 50 x 50 x 5mm | KBSP-001 |  |
| 10mm High Hat Joiner - 3030mm | KBGK-HJ0810 |  |
| 10mm Single Hat Joiner - 3030mm | KBGK-KJ0810 |  |
| 20mm High Hat Joiner - 3030mm<br>For joining sheets on walls higher than 3030mm | KBGK-HJ0820 |  |
| 16mm Single Hat Joiner - 3030mm<br>For joining sheets on walls higher than 3030mm | KBGK-KJ0816 |  |
| Top Hat - 15 x 75mm x 1.15TCT - 3000mm | KTOPHAT75 |  |

## Panels and Accessories
## Montage™ Common Accessories - Horizontal and Vertical

| DESCRIPTION | PRODUCT CODE | |
|---|---|---|
| Internal Corner Flashing - 3050mm | KBGK-S15001 |  |
| 65mm Ring Nail - For face fixing to timber frame | KBRNKH001 |  |
| Primer for Cut Edges and Joints - 100g | KPRIMER |  |
| 35mm SS Screws - Clips to Timber Frame | KBSBD001 |  |
| 19mm SS Screws - Clips to Steel Frame | KBSBJ001 |  |

## Eaves Accessories

| DESCRIPTION | PRODUCT CODE | |
|---|---|---|
| Eaves Trim Channel - Grey - 2730mm | KFVK-N24F-L27-AG |  |
| Eaves Trim Channel - Brown - 2730mm | KFVK-N24F-L27-CB | |
| Eaves Trim Channel - Black - 2730mm | KFVK-N24F-L27-BK | |
| External Corner - Grey - 86 x 32.5 x 51.3mm | KFVK-N24FSD-AG |  |
| External Corner - Brown - 86 x 32.5 x 51.3mm | KFVK-N24FSD-CB | |
| External Corner - Black - 86 x 32.5 x 51.3mm | KFVK-N24FSD-BK | |
| Internal Corner - Grey - 86 x 67.4 x 32.5mm | KFVK-N24FSI-AG |  |
| Internal Corner - Brown - 86 x 67.4 x 32.5mm | KFVK-N24FSI-CB | |
| Internal Corner - Black - 86 x 67.4 x 32.5mm | KFVK-N24FSI-BK | |
| Trim Joint - Grey - 40 x 32.5mm | KFVK-N24FJC-AG |  |
| Trim Joint - Brown - 40 x 32.5mm | KFVK-N24FJC-CB | |
| Trim Joint - Black - 40 x 32.5mm | KFVK-N24FJC-BK | |
| End Cap - Grey - 32.5 x 25mm | KFVK-N24FEC-AG |  |
| End Cap - Brown - 32.5 x 25mm | KFVK-N24FEC-CB | |
| End Cap - Black - 32.5 x 25mm | KFVK-N24FEC-BK | |

## Panels and Accessories
## **Montage™ Sealants**

| MONTAGE™ PANEL | PRODUCT CODE | COLOUR | SIKA PRODUCT |
|---|---|---|---|
| Concrete - Square with Circle | 1951 | Concrete Grey | Sikaflex Pro 600 |
| Concrete - Rectangle with Circle | | | |
| Concrete - Smooth Plain | | | |
| Slimline Tile - Limestone | 1957 | Off White | Sikaflex Pro 600 |
| Slimline Tile - Sandstone | 1955 | Sandstone | |
| Slimline Tile - Basalt | 1956 | Dark Grey | |
| Slimline Tile - Onyx | 1952 | Black | |
| Stackstone - Limestone | 1957 | Off White | Sikaflex Pro 600 |
| Stackstone - Sandstone | 1953 | Redwood | |
| Stackstone - Basalt | 1951 | Concrete Grey | |
| Stackstone - Onyx | 1956 | Dark Grey | |
| Woodgrain - Light Teak | 1953 | Redwood | Sikaflex Pro 600 |
| Woodgrain - Dark Mahogany | 1954 | Dark Amber | |
| Woodgrain - Grey Oak | 1951 | Concrete Grey | |
| Woodgrain - Black Oak | 1952 | Black | |

Concrete Grey | Dark Grey | Black | Dark Amber

Redwood | Sandstone | Off White

## Panels and Accessories
## Montage™ Touch up Paint

| DESCRIPTION | PRODUCT CODE |
|---|---|
| Concrete - 80ml | KTUPCON |
| Woodgrain - Light Teak - 80ml | KTUPWGLT |
| Woodgrain - Dark Mahogany - 80ml | KTUPWGDM |
| Woodgrain - Grey Oak - 80ml | KTUPWGGO |
| Woodgrain - Black Oak - 80ml | KTUPWGBO |
| Slimline Tile - Limestone - 80ml | KTUPSTLS |
| Slimline Tile - Sandstone - 80ml | KTUPSTST |
| Slimline Tile - Basalt - 80ml | KTUPSTB |
| Slimline Tile - Onyx - 80ml | KTUPSTO |
| Stackstone - Sandstone - 80ml | KTUPQSS |
| Stackstone - Limestone - 80ml | KTUPQLS |
| Stackstone - Basalt - 80ml | KTUPQB |
| Stackstone - Onyx - 80ml | KTUPQO |

## Panel Layout Considerations

The Montage™ Concrete profile incorporates vertical lines and off-form circles as part of the aesthetic of the panel design. It is important that the symmetry and vertical lines incorporated in these designs are considered when planning your panel layout.

The Montage™ Concrete, Slimline Tile and Stackstone panels, as well as their matching pre-formed fibre cement corner profiles, have been designed to be installed horizontally (see page 8 for details).

The Montage™ Woodgrain panels and matching pre-formed fibre cement corner profiles have been designed to be installed both horizontally and vertically (see page 8 for details).

The Montage™ range also offers an alternative colour coordinated aluminium corner option which enables all of the Montage™ profiles to be installed horizontally or vertically. The aluminium corner profile colours can be selected to coordinate or contrast with your Montage™ panels (see page 9-10 for more details on colour options available).

## Control Joints

When setting out Montage™ panels for a project, consideration must be given to the location of joints to ensure that minimum panel lengths and widths are met.

## Horizontal Control Joint

A horizontal control joint is required at every level and at structural control joints.

## Vertical Control Joint

Vertical Control Joints are required at the end of each Montage™ panel, at junctions with the Montage™ pre-formed corners and at other wall junctions. Both a vertical and horizontal control joint is also required at a change in structural substrates e.g. masonry to steel framing.

## Fixing Specifications – Class 1 and Class 10 Buildings (Residential)

**Timber Frames**
Use of a timber frame must be in accordance with AS1684 – Residential timber-framed construction and the framing manufacturers' specifications.

Use only seasoned timber. Do not use unseasoned timber as it is prone to shrinkage and can cause excessive movement.

"Timber used for house construction must have the level of durability appropriate for the relevant climate and expected service life conditions including exposure to insect attacks or to moisture which could cause decay" – Reference AS1684.2.

**Lightweight Steel Frames**
Use of a steel frame must be in accordance with AS3623 – Domestic metal framing and the framing manufacturers' specifications.

Framing members must have a Base Metal Thickness (BMT) between 0.75 to 1.6mm. The steel framing must have the appropriate level of durability required to prevent corrosion.

**Use a 50mm SS screw for face fixing to steel frame.**

## Fixing

Montage™ panels should be fixed to the frame in accordance with Table 01. The wind Class is as specified in AS4055 for Residential Buildings.

The wind pressures resisted by the configurations specified in Table 01 are only those acting on the external surface of the wall. This requires that internal wall linings provide effective resistance to internal wind pressures and that there is an air seal between the internal linings to windows, doors and other penetrations through the external wall system.

The specified maximum support spacings are acceptable for Montage™ fixed horizontally or vertically, Montage™ clips and for the specified screw for fixing to metal or timber.

When fasteners are required they should be min 30mm from edge of panel.

## Maximum Support Spacing - Table 01

| Wind Class as per AS4055:2012 | Maximum Support Spacing mm | |
|---|---|---|
| | Body of Sheet | Within 1200mm of corner |
| N1 | 600 | 600 |
| N2 | 600 | 450 |
| N3/C1 | 600 | 450 |
| N4/C2 | 450 | 300 |
| N5/C3 | 450 | 280 |
| N6/C4 | 450 | 200 |

## Thermal Break Details

Thermal breaks may be required for steel framed buildings in walls that are required to have a minimum total R value. Careful consideration of thermal heat transfer and the position of thermal breaks needs to be addressed by the architects, engineers and building designers.

Balustrades, parapets, and other non-enclosing wall elements may not require thermal breaks, except where the possibility of high thermal heat transfer exists through the steel sections to the main structural steel element of the building.

**As part of the Innova Fibre Cement range, the EPDM Foam Gasket will reduce heat transfer. The EPDM Foam Gasket has an R value of R0.2 and therefore meets the NCC requirement for a Thermal Break**.

NOTE // Thermal breaks (EPDM Foam Gasket) is a self-adhesive foam gasket/tape. It is installed over the vapour permeable moisture barrier.

Where the vertical gasket meets the horizontal gasket a gap of 3mm should be left to allow moisture to escape. Install EPDM Foam Gasket continuously to all vertical framing first, then all horizontal framing.



*Components not supplied by Innova

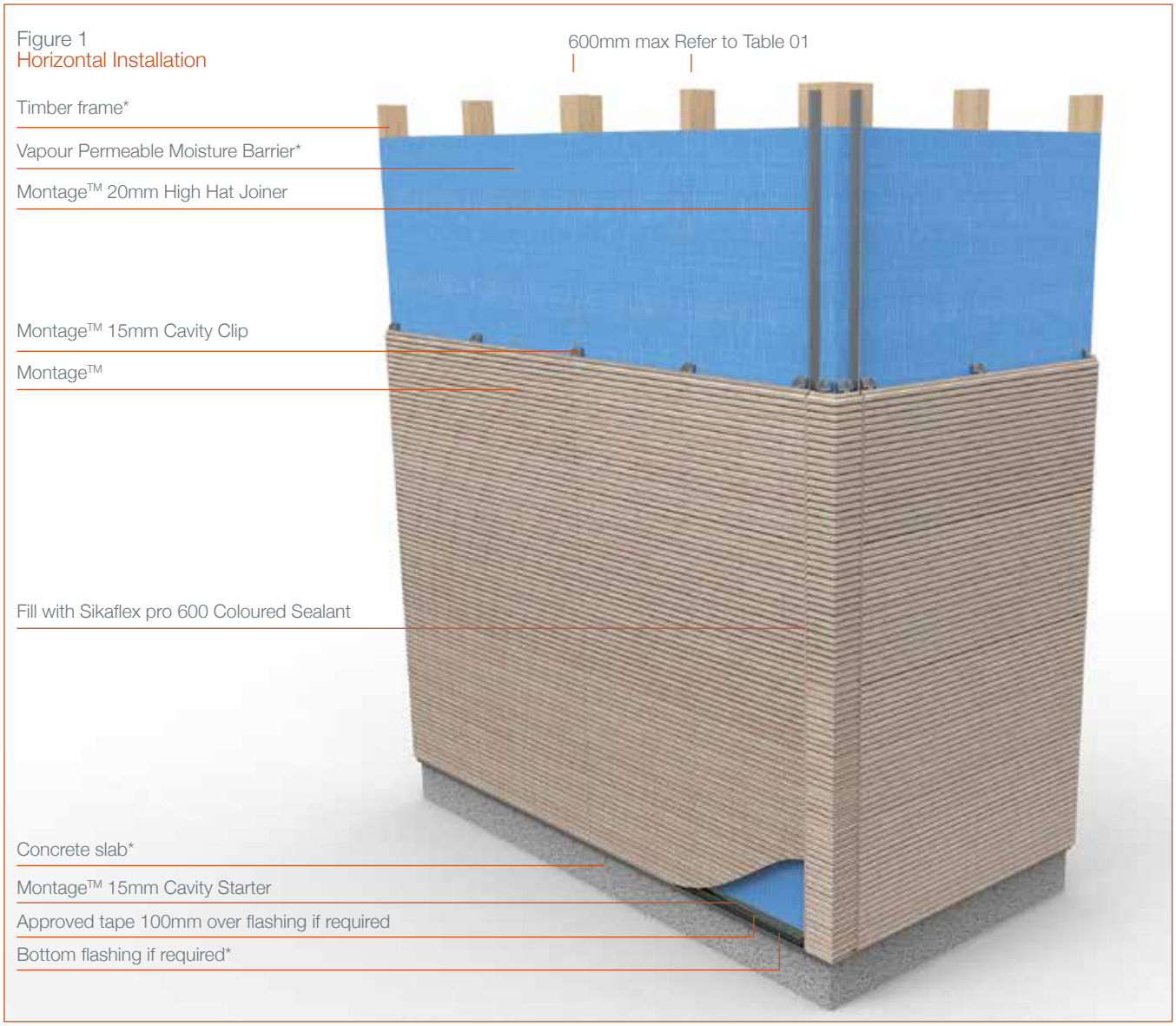
## Horizontal Installation

This section of the Montage™ technical brochure specifically relates to the horizontal installation of Montage™ panels.

If using the Montage™ pre-formed corners, the Concrete, Slimline Tile, Stackstone and Woodgrain profiles can be installed horizontally.

For vertical installation refer to p32 of this Montage™ Technical brochure.

Figure 1
Horizontal Installation



## External Applications – Horizontal Installation / Step by Step Installation

**NOTE:** Top Hats are not required for Horizontal application

### Step 01 **Base Flashing (supplied by others)**

/ Install base flashing under the Vapour Permeable Moisture Barrier using an approved tape 100mm over flashing if required. A 15mm clearance between flashing and Montage™ is required.

### Step 02 **Horizontal Cavity Starter (Refer Fig 2)**

/ Install the Horizontal Cavity Starter (KBTK-G17) to the base of the frame using a 35mm Coarse Thread 6g Wafer Class 3.

/ Position the Horizontal Starter Strip (KBTK-G17) 30mm above the base flashing. Ensure that the Horizontal Starter Strip (KBTK-G17) is level along the length of the strip. **Each of the Montage™ panels is placed directly on top of each other so if there is an error on the level of the Horizontal Start Strip (KBTK-G17) it will be compounded for the entire height of the wall**.

### Step 03 **Vertical Joins (end of panel)**

/ Ensure that a double stud is installed at the frame stage.

/ Install 20mm High Hat Joiner (KBGK-HJ0820) to each vertical join using min 19mm Coarse Thread 6g Wafer Class 3.

### Step 04 **Corners**
### Option 01 **External Pre-formed Corners – (Refer Fig 7)**

/ Place the pre-formed External Corner into the Horizontal Cavity Starter (KBTK-G17).

/ Attach 15mm Cavity Clips (KBTK-D02) to the top of each side of the corner and fasten into the frame using 35mm SS Screws (BSBD001). These clips should be left slightly loose so that the 20mm High Hat Joiner (KBGK-HJ0820) can be slotted underneath the clip.

### Option 02 **External Aluminium Corners – (Refer Fig 8)**

/ Cut the corner to size ensuring that the measurement of the Eaves Trim (KFVK-N24F-L27- AG/CB/BK) is deducted from the total measurement.

/ Notch out the bottom of the corner to extend over the Horizontal Cavity Starter (KBTK-G17).

/ Place self-adhesive 15mm Spacers (KBSP-002) every 600mm to ensure the 15mm cavity is maintained.

/ Install the Eaves Internal (KFVK-N24FSI- AG/CB/BK) / External Corner (KFVK-N24FSD- AG/CB/BK).

/ Nail or screw the corner through the 15mm spacers to the frame using 35mm Coarse Thread 6g Wafer Class 3.

### Option 01 **Internal Corners – (Refer Fig 10)**

/ Install the Internal Corner Flashing (KBGK-S15001) using 35mm Coarse Thread 6g Wafer Class 3.

/ Install 16mm Single Joiner (KBGK-KJ0816) using 19mm Coarse Thread 6g Wafer Class 3.

### Option 02 **Internal Corners – (Refer Fig 11)**

/ Install the Aluminium External Corner using a galvanised flat head nail for timber frame or a wafer head screw for steel frame over the vapour permeable moisture barrier.

### Step 05 **Installation of the Montage™ Panels**

/ Place the first Montage™ panel into the Horizontal Cavity Starter (KBTK-G17), adding the 15mm Cavity Clips (KBTK-D02) to the top of the panel.

/ Screw the clips to the frame using 35mm SS Screws (BSBD001) and pack out if necessary.

/ If face fixing is required, fix a self-adhesive 15mm Spacer (KBSP-002) between the panel and the frame to maintain the 15mm cavity.

/ If panels are required to be cut to size, the cut edges need to be primed and sealed with Montage™ Primer (KPRIMER) and colour co-ordinating Montage™ Sealer (see page 14 for colour options and recommendations).

/ Montage™ panels are pre-formed and self-aligning. Ensure a consistent and snug fit on all panels.

### Step 06 **Finishing at the Soffit (Refer Fig 6)**

/ Fix a self-adhesive 15mm Spacer (KBSP-002) at each stud to maintain the 15mm cavity.

/ Slide the Eaves Trim (KFVK-N24F-L27- AG/CB/BK) into the Eaves Corner Internal (KFVK-N24FSI- AG/CB/BK) or Eaves Corner External (KFVK-N24FSD- AG/CB/BK) and fix through each 15mm Spacer (KBSP-002) onto each stud.

/ If a 20mm High Hat Joiner (KBGK-HJ0820) is located on the stud, notch back to enable the Eaves Trim (KFVK-N24F-L27- AG/CB/BK) to fit.

/ Cut the top Montage™ panel or pre-formed external corner 5-10mm shorter to allow it to be lifted and then dropped into place on the clip of the panel/corner below.

/ Mark the position of the studs and pre-drill the panels, 30mm from the panel edge.

/ Once the Montage™ panel is in place, fasten using 65mm Ring Shank Nail (KBRNKH001).

### Step 07 **Seal all joints**

/ Apply masking tape to each side of the Montage™ panel.

/ Coat the edges of the panels with Montage™ Primer (KPRIMER) which will help the sealant stick to the panels.

/ Wait until the Montage™ Primer is dry and apply the colour co-ordinating Sikaflex Pro 600 Sealant (see page 14 for colour options and recommendations).

### Step 08 **Touch up paint**

/ Ensure the Montage™ panels are clean and dry.

/ Touch up any exposed fastener heads with the matching Montage™ Touch Up Paint (see page 15 for colour options and recommendations).

### **Internal Applications – Horizontal Installation**

The internal installation of Montage™ panels is very similar to the external installation except that a Vapour Permeable Moisture Barrier and flashing at penetrations is not required. The components used for external applications should be used for internal applications and the step by step guide for external applications should be followed.



*Components not supplied by Innova

## Installation Information

Figure 2
Horizontal Cavity Starter

Figure 3
15mm Cavity Clip

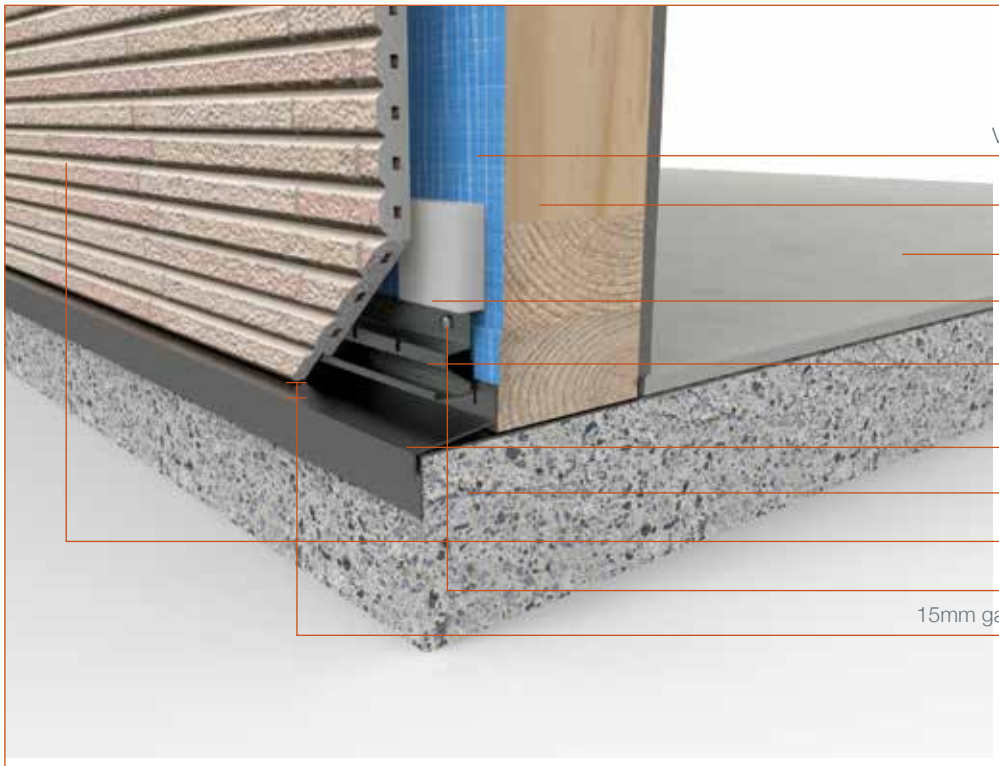



Figure 4
Slab Setback

*Components not supplied by Innova

## Installation Information

Figure 5
Slab Rebate

- Vapour Permeable Moisture Barrier*
- Timber frame*
- Flooring
- Montage™ 15mm Spacer
- 15mm Montage™ Horizontal Cavity Starter
- DPC*
- Concrete slab*
- Montage™
- Montage™ 35mm SS Screw
- 150mm Clearance

Figure 6
Wall/Soffit Junction

- Timber frame*
- Soffit Lining
- Montage™ Eaves Trim Channel (coloured)
- Montage™ Touch up paint to fastnener heads
- Montage™ 15mm Spacer
- Vapour Permeable Moisture Barrier*
- Montage™



*Components not supplied by Innova

## Installation Information

Figure 7
Timber Frame with pre-formed Corner

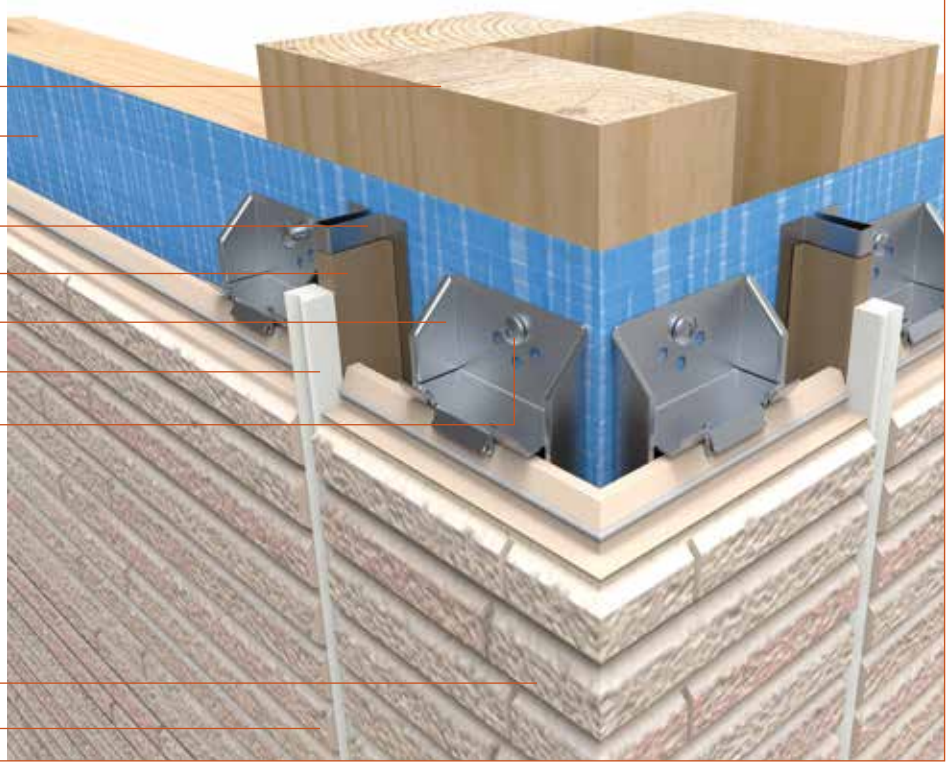
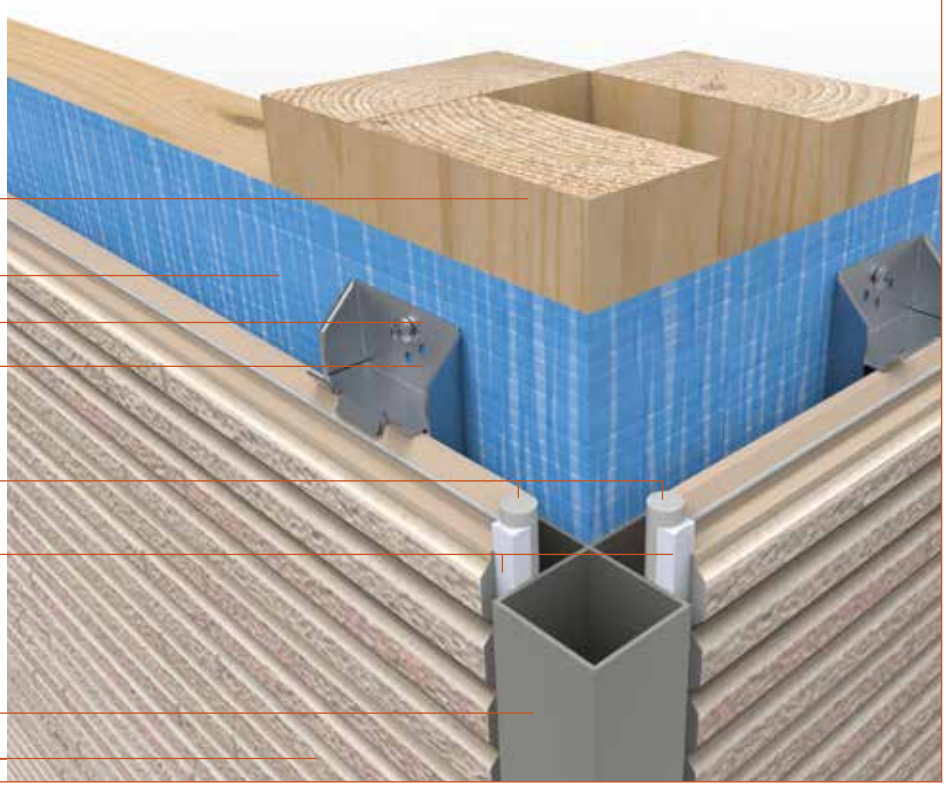


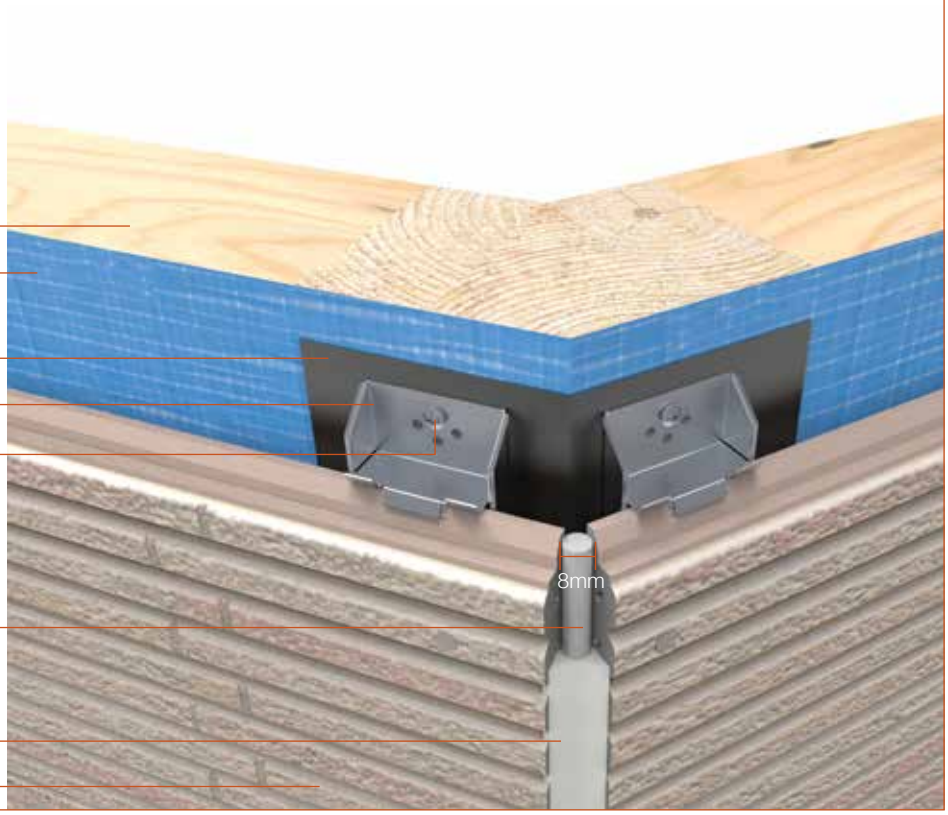

Figure 8
External Aluminium Corner




*Components not supplied by Innova

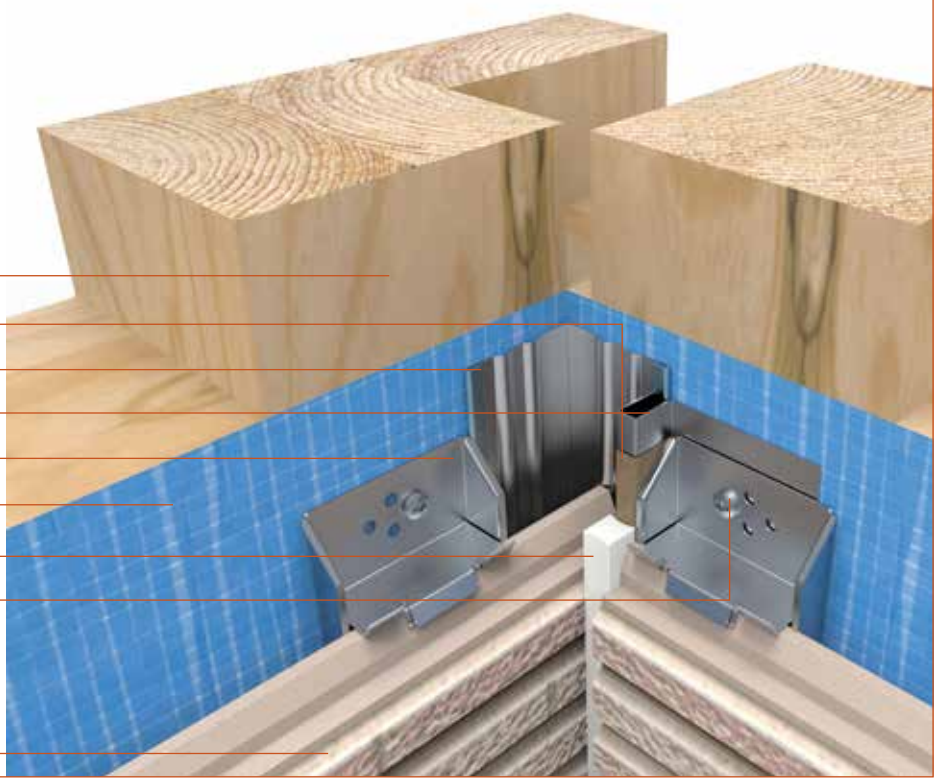
## Installation Information

Figure 9
Obtuse Corner




Timber frame*
Vapour Permeable Moisture Barrier*
Metal flashing*
Montage™ 15mm Cavity Clip
Montage™ 35mm SS Screw
Backing Rod*
Sikaflex Pro 600 Coloured Sealant
Montage™

Figure 10
Corner with Single Joiner



Timber frame*
Bond Breaker Tape*
Montage™ Internal Corner Flashing
Montage™ 16mm Single Hat Joiner
Montage™ 15mm Cavity Clip
Vapour Permeable Moisture Barrier*
Sikaflex Pro 600 Coloured Sealant
Montage™ 35mm SS Screw
Montage™



*Components not supplied by Innova

## Installation Information

Figure 11
Internal Corner with Single Joiner

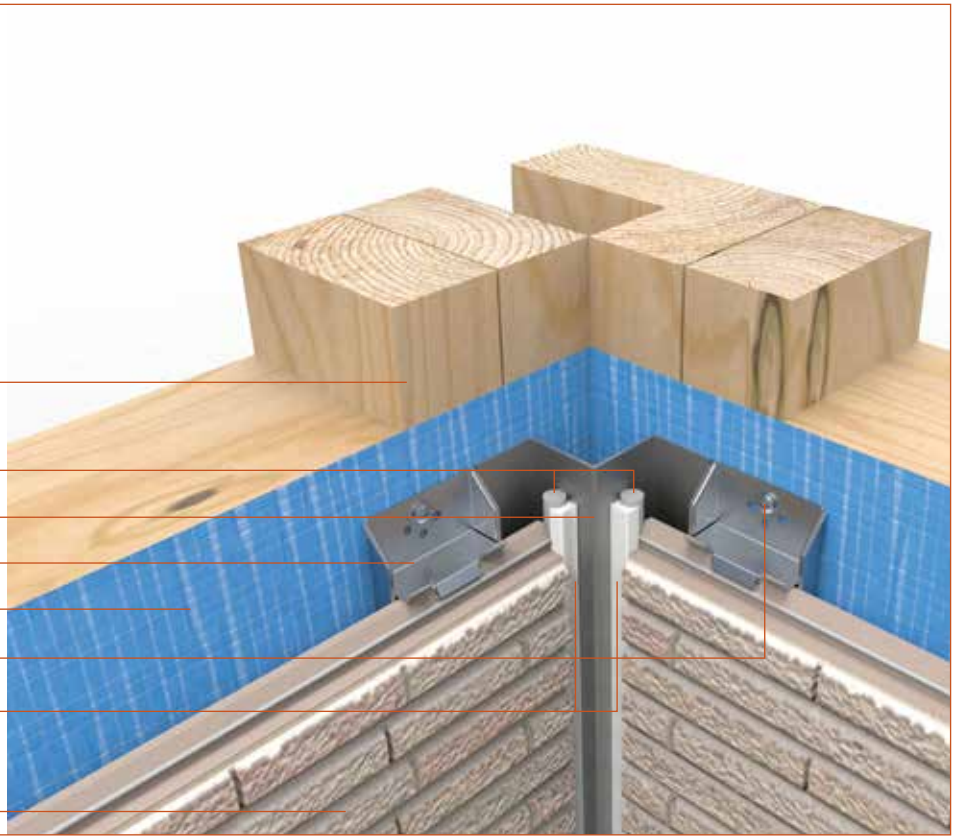
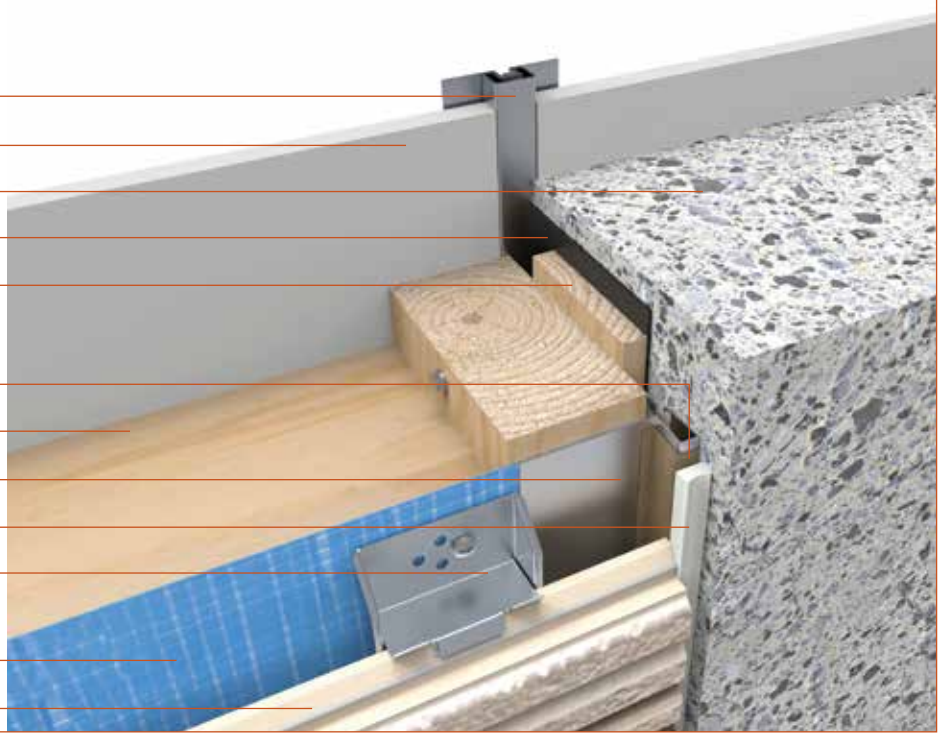



Figure 12
Junction with Masonry Wall

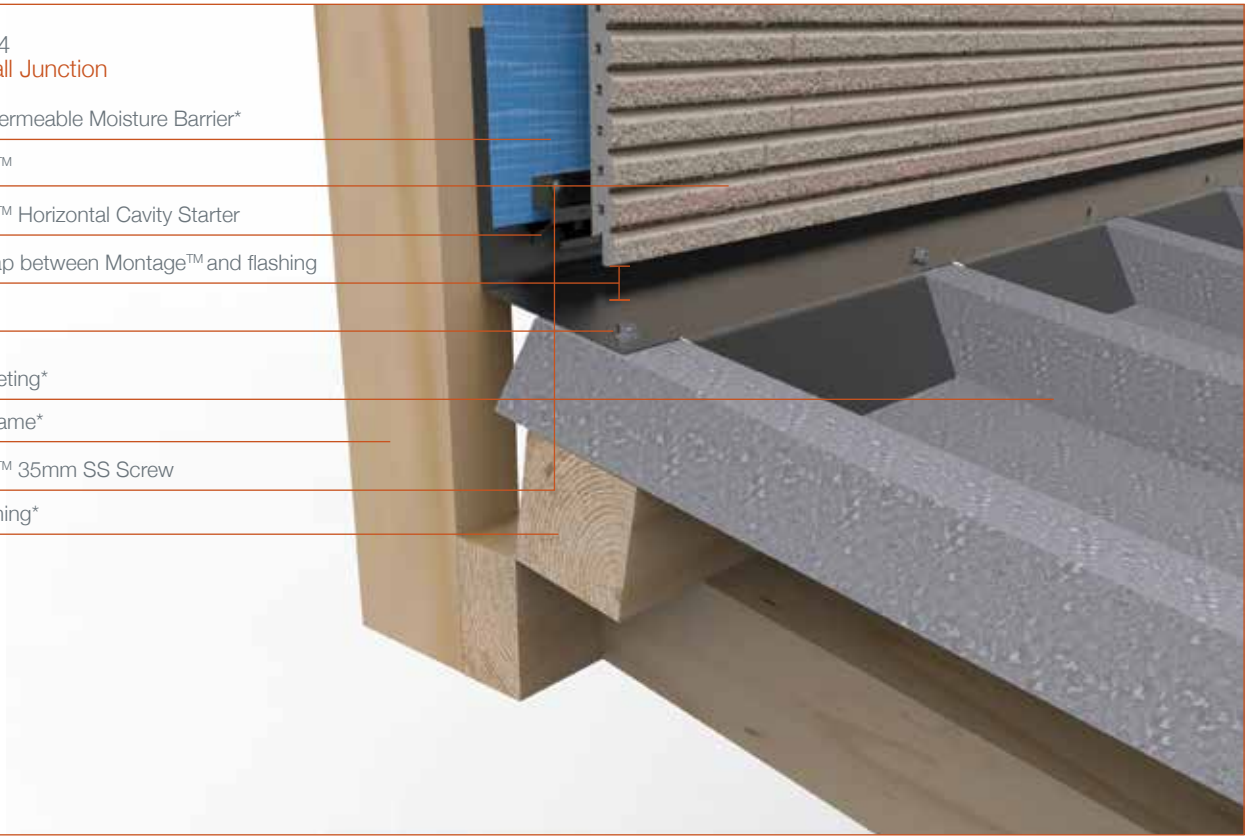



*Components not supplied by Innova

## Installation Information

Figure 13
First Floor Cantilevered Frame


Figure 14
Roof/Wall Junction






*Components not supplied by Innova

## Installation Information

Figure 15
Wall Junction

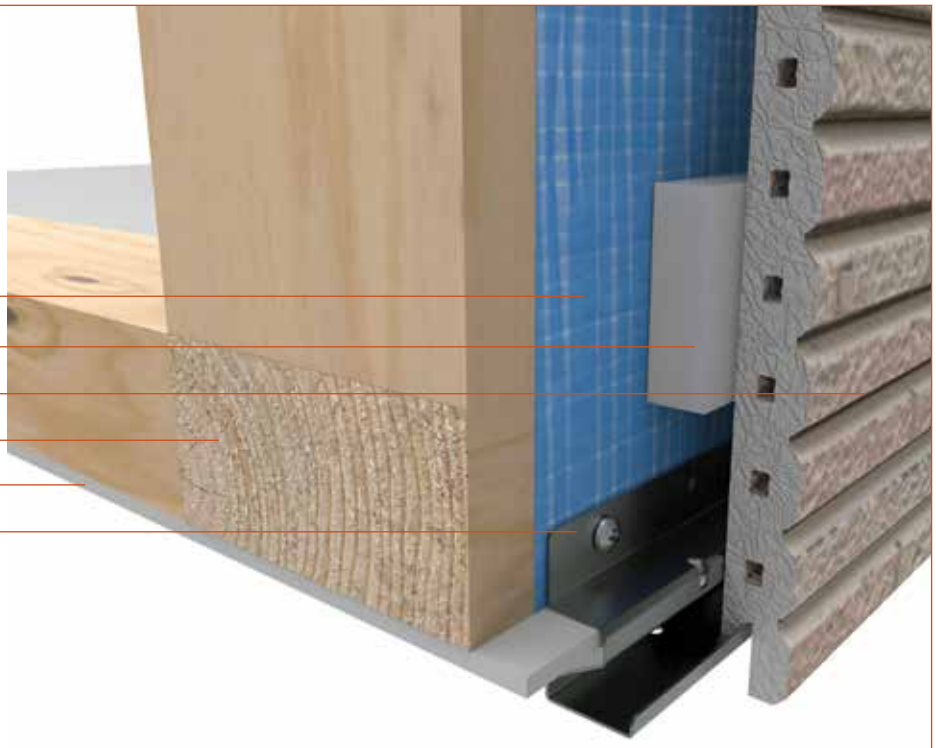



Figure 16
Commercial Window


*Components not supplied by Innova

## Installation Information


Figure 17
Commercial Window

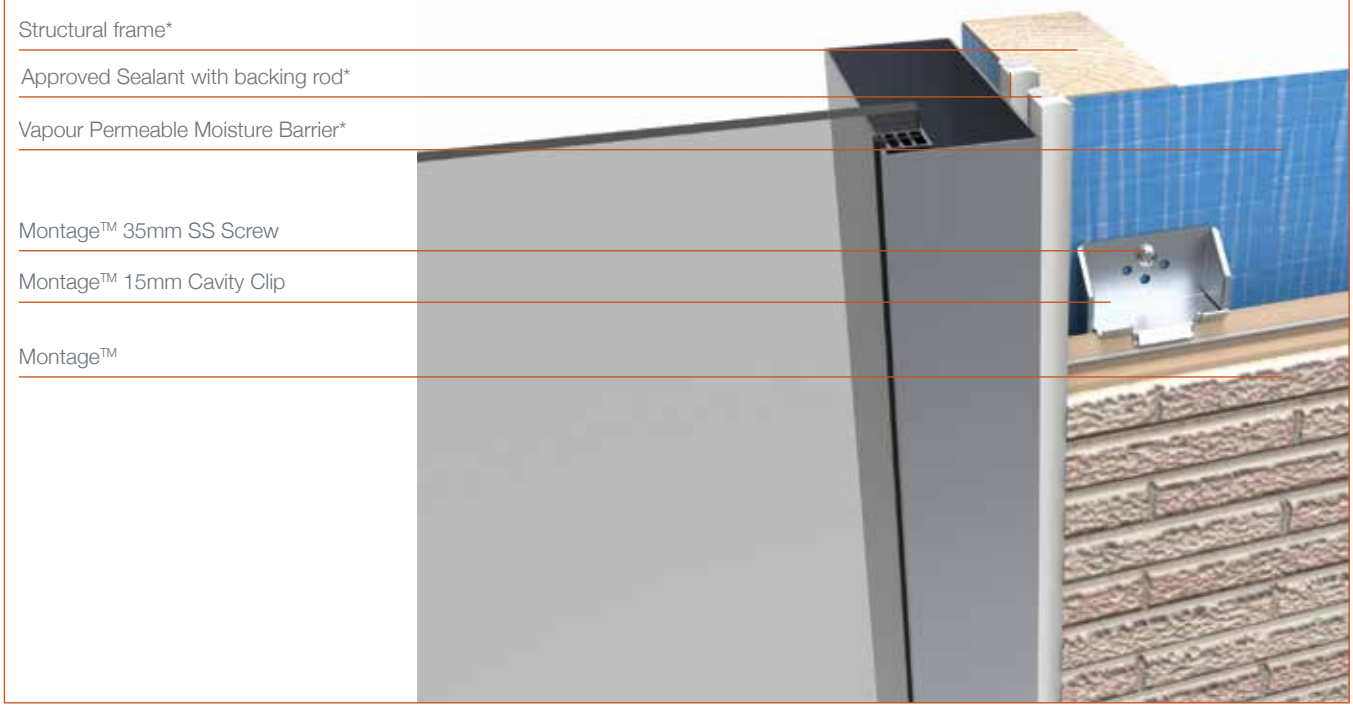



Figure 18
Commercial Window Jamb



*Components not supplied by Innova

## Installation Information

Figure 19
Balcony Parapet

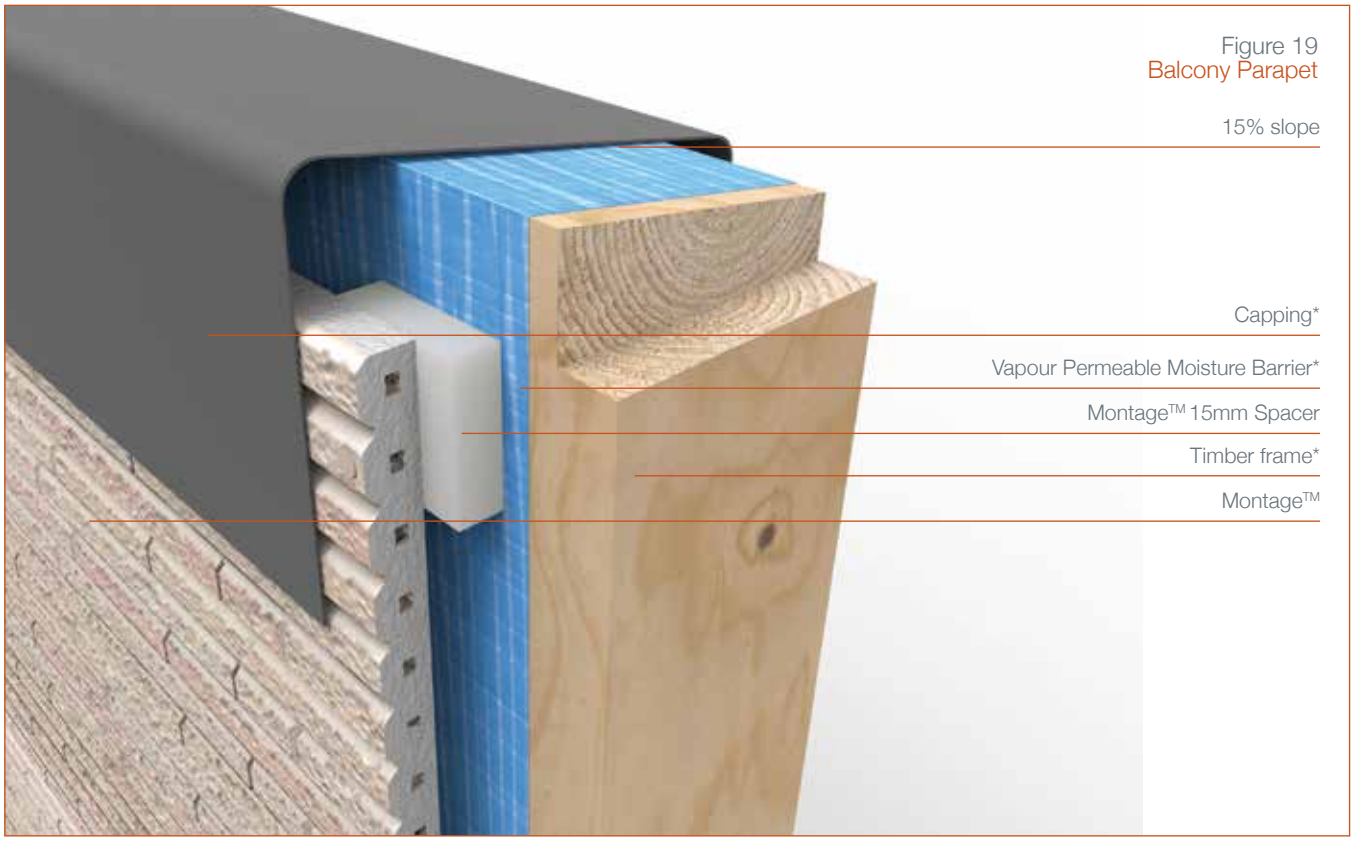
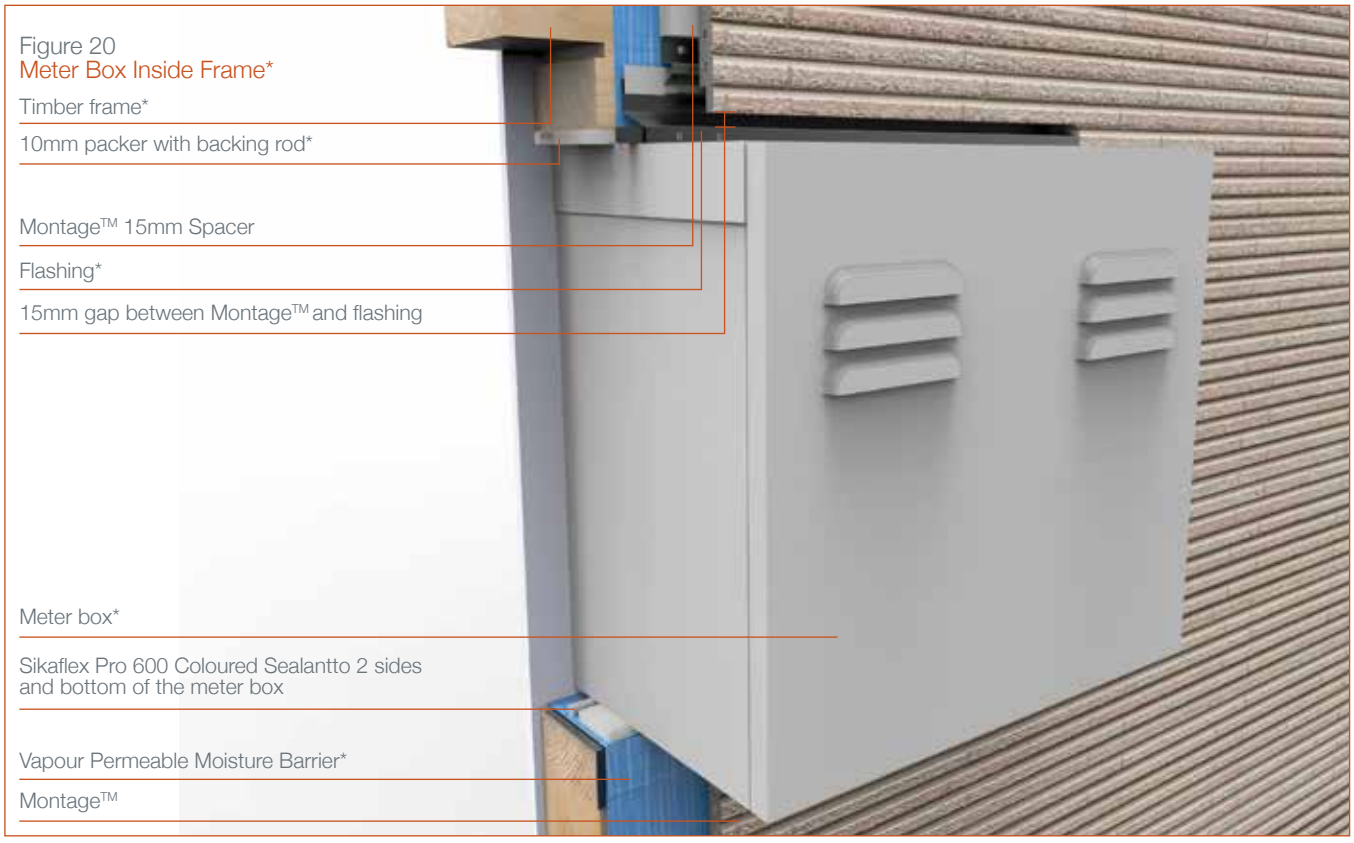



Figure 20
Meter Box Inside Frame*




*Components not supplied by Innova

## Installation Information

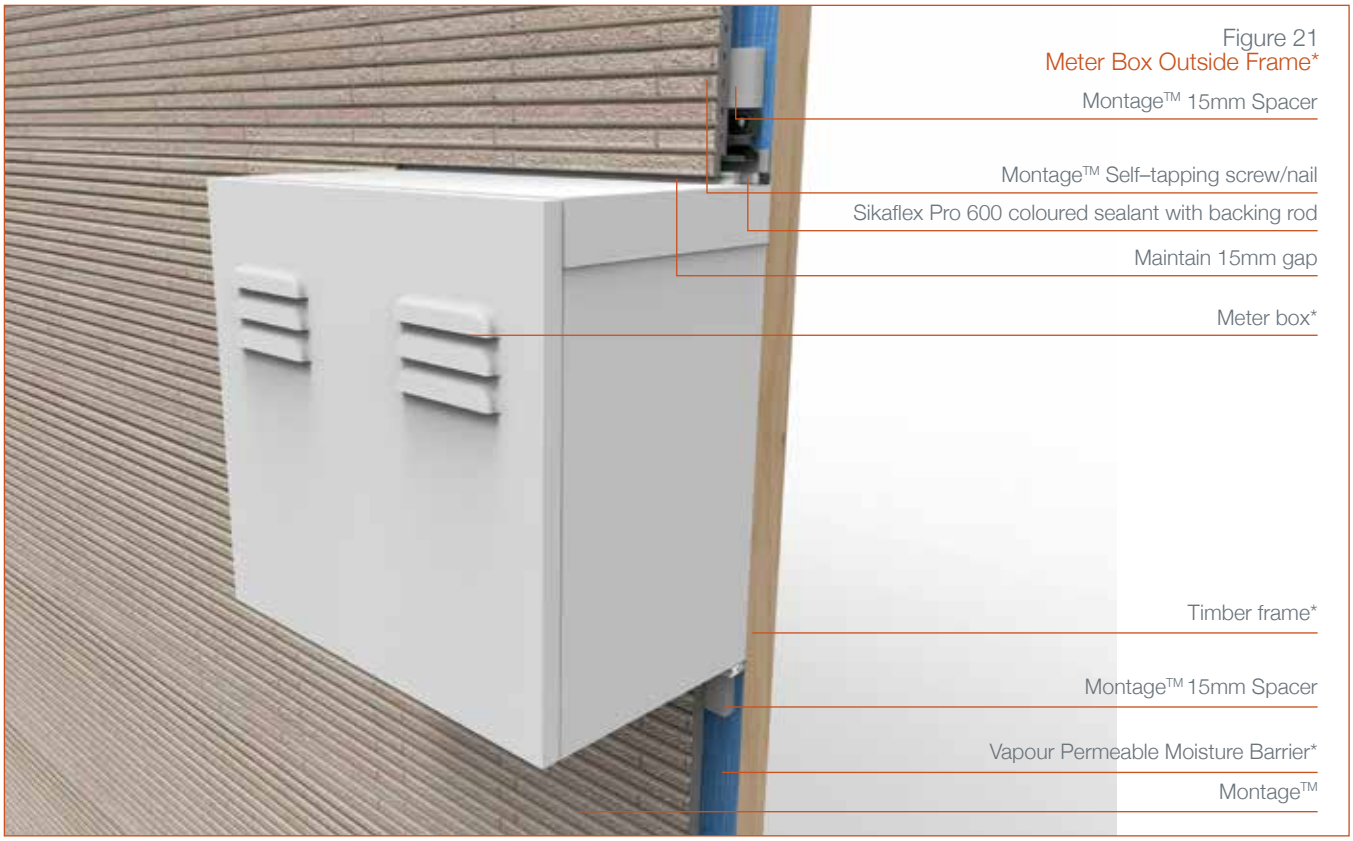



Figure 21
Meter Box Outside Frame*

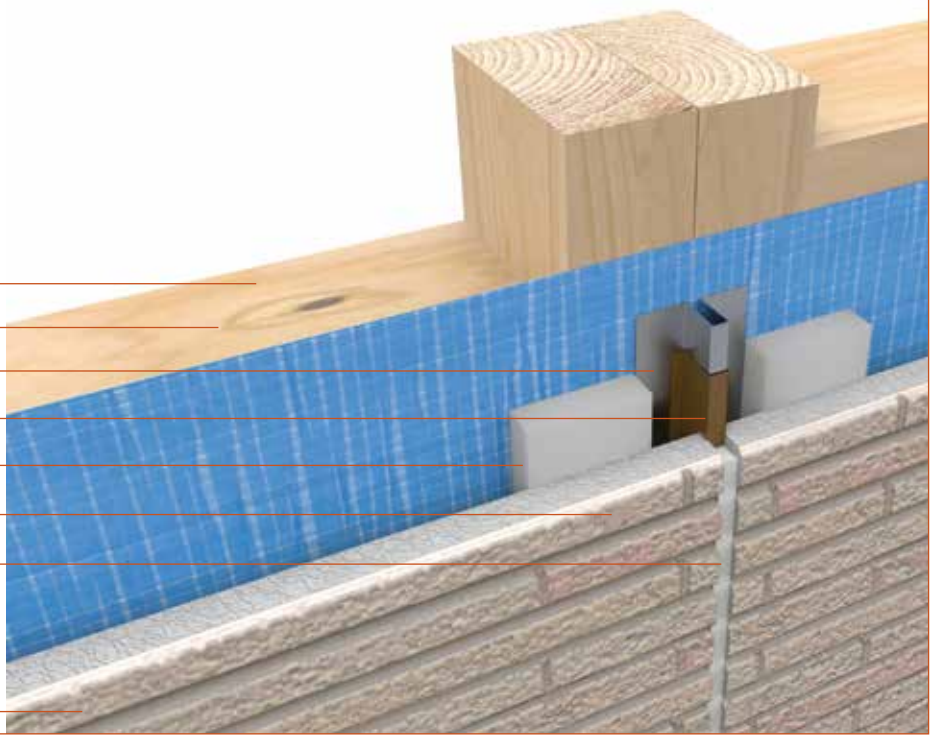

Figure 22
Control Joint



*Components not supplied by Innova

## Installation Information

Figure 23
Control Joint




*Components not supplied by Innova

## Vertical Installation

This section of the Montage™ technical brochure specifically relates to the vertical installation of Montage™ panels.

If using the Montage™ pre-formed corners only the Woodgrain profile can be installed vertically. If you wish to install the Concrete, Slimline Tile or Stackstone profiles in a vertical manner then the aluminium external corners will need to be used.

For horizontal installation refer to p18 of this Montage™ Technical Brochure.

Figure 24
Vertical Wall




*Components not supplied by Innova

# External Applications – Vertical Installation / Step by Step Installation

### Step 01 **Base Flashing (supplied by others)**

/ Install Base Flashing under the Vapour Permeable Moisture Barrier using an approved tape 100mm over flashing. A 15mm clearance between Montage™ and the flashing is required.

### Step 02 **Top Hats (refer Table 1 for Wind Zones)**

/ Install the Montage™ Top Hats horizontally at max 600mm centres using 35mm Coarse Thread 6g Wafer Class 3. With 2 fasteners per stud.

/ Leave a 30mm gap between the ends of each Top Hat to allow for cavity ventilation (refer fig 27).

### Step 03 **Vertical Cavity Starter (refer Fig 28)**

/ Install the Vertical Cavity Starter (KBTK-D10) to the Top Hat using a 12-15mm 6g Wafer Class 3. With 4 fasteners per vertical cavity starter.

/ Position the Vertical Cavity Starter (KBTK-D10) 30mm above the Base Flashing. Ensure that the Vertical Cavity Starter (KBTK-D10) is level along the length of the strip. **Each of the Montage™ panels is placed directly next to each other so if there is an error on the level of the Vertical Cavity Starter (KBTK-D10) it will be compounded for the entire height of the wall.**

/ One Vertical Cavity Starter should be placed where 2 panels meet and should be positioned halfway between panels.

### Step 04 **Vertical Control Joins**

/ Ensure that a double stud is installed at the frame stage.

/ Install 10mm High Hat Joiner (KBGK-HJ0810) to each vertical join using min. 19mm Coarse Thread 6g Wafer Class 3.

### Step 05 **Prepare the soffits (refer Fig 32)**

/ Attach 5mm Spacers (KBSP-001) at each stud along the Top Hat at the soffit.

/ Slide the Eaves Trim (KFVK-N24F-L27- AG/CB/BK) into the Eaves Corner Internal (KFVK-N24FSI- AG/CB/BK) or Eaves Corner External (KFVK-N24FSD- AG/CB/BK) and fix through each 5mm Spacer (KBSP-001) onto each stud.

/ If a 10mm High Hat Joiner (KBGK-HJ0810) is located on the stud notch back to enable the Eaves Trim (KFVK-N24F-L27- AG/CB/BK) to fit.

### Step 06 **Corners**
### Option 01 **External Pre-formed Corners – (Refer Fig 35)**

/ Place the Pre-formed External Corner into the Vertical Cavity Starter (KBTK-D10).

/ Corners must be face fixed at every Montage™ Top Hat.

/ Cut the top Montage™ Pre-formed External Corner 5-10mm shorter to allow it to be lifted and then dropped into place on the clip of the panel/corner below.

/ Fasteners should be located 30-40mm from the edge of the Montage™ panel.

/ Ensure that the Montage™ pre-formed corner is square on each side. Pack if required.

### Option 02 **External Aluminium Corners**

/ Cut external corner to size ensuring that the measurement of the Eaves Trim (KFVK-N24F-L27- AG/CB/BK) is deducted from the total measurement.

/ Notch out the bottom of the corner to extend over the Horizontal Cavity Starter (KBTK-G17).

/ Place self-adhesive 5mm Spacers (KBSP-001) every 600mm to ensure the 20mm cavity is maintained.

/ Install the Eaves Internal (KFVK-N24FSI- AG/CB/BK) / External Corner (KFVK-N24FSD- AG/CB/BK).

/ Nail or screw the corner through the 5mm spacers and the Montage™ Top Hat to the frame using 12-15mm Coarse Thread 6g Wafer Class 3.

### **Internal Corners – (Refer Fig 38)**

/ Install the Internal Corner Flashing (KBGK-S15001) using 12-15mm Coarse Thread 6g Wafer Class 3.

/ Install 10mm Single Joiner (KBGK-KJ0816) 19mm Coarse Thread 6g Wafer Class 3.

### Step 07 **Installation of the Montage™ Panels**

/ Place the first Montage™ panel into the Vertical Cavity Starter (KBTK-D10), adding the 5mm Cavity Clips (KBTK-D01) to the sides of the panel at each Montage™ Top Hat.

/ Screw the clips to the Top Hat using 12-15mm SS Screws (BSBD001) and pack out if necessary.

/ If panels are required to be cut to size, the cut edges need to be primed and sealed with Montage™ Primer (KPRIMER) and colour co-ordinating Sikaflex Pro 600 Sealer (see page 14 for colour options and recommendations).

/ Montage™ panels are pre-formed and self-aligning. Ensure a consistent and snug fit on all panels.

### Step 08 **Seal all joints**

/ Apply masking tape to each side of the Montage™ panel.

/ Coat the edges of the panels with Montage™ Primer (KPRIMER) which will help the sealant stick to the panels.

/ Wait until the Montage Primer is dry and apply the colour co-ordinating Montage™ Sealer (see page 14 for colour options and recommendations).

### Step 09 **Touch up paint**

/ Ensure the Montage™ panels are clean and dry.

/ Touch up any exposed fastener heads with the matching Montage™ Touch Up Paint (see page 15 for colour options and recommendations).

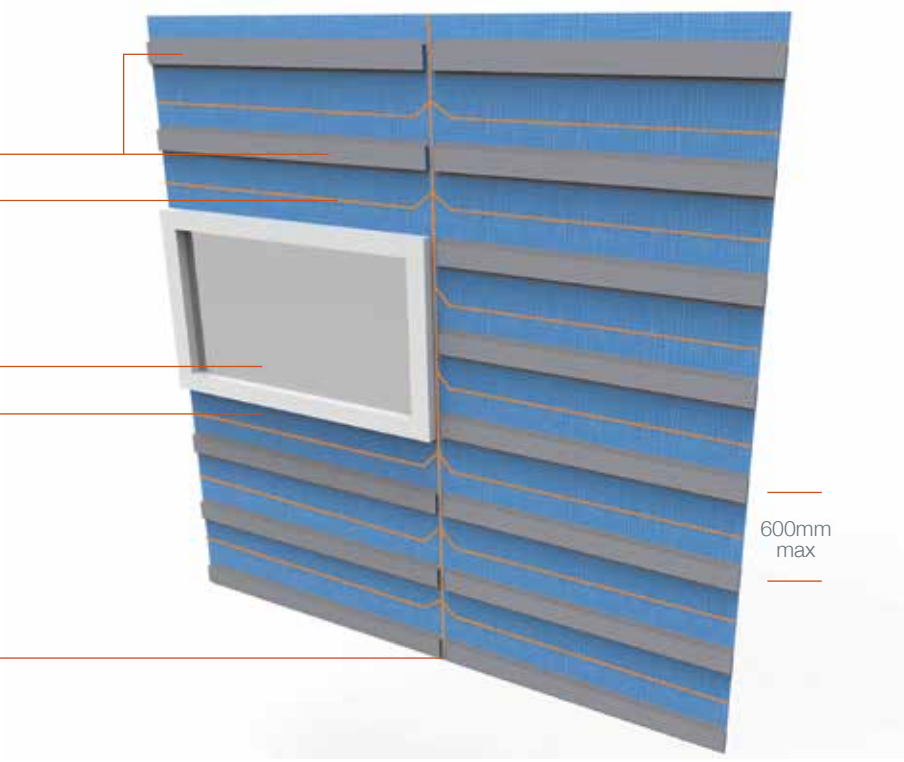
### **Internal Applications – Vertical Installation**

The internal installation of Montage™ panels is very similar to the external installation except that a Vapour Permeable Moisture Barrier and flashing at penetrations is not required. The components used for external application should be used for internal applications and the step by step guide for external applications should be followed.

*Components not supplied by Innova

## Installation Information

Figure 25
Ventilation Passage between Top Hats




Note // 30mm gap every 3000mm

Figure 26
Vertical Cavity Starter

**Note //** Cavity starter positioned between 2 panels

Figure 27
5mm Cavity Clip

## Installation Information

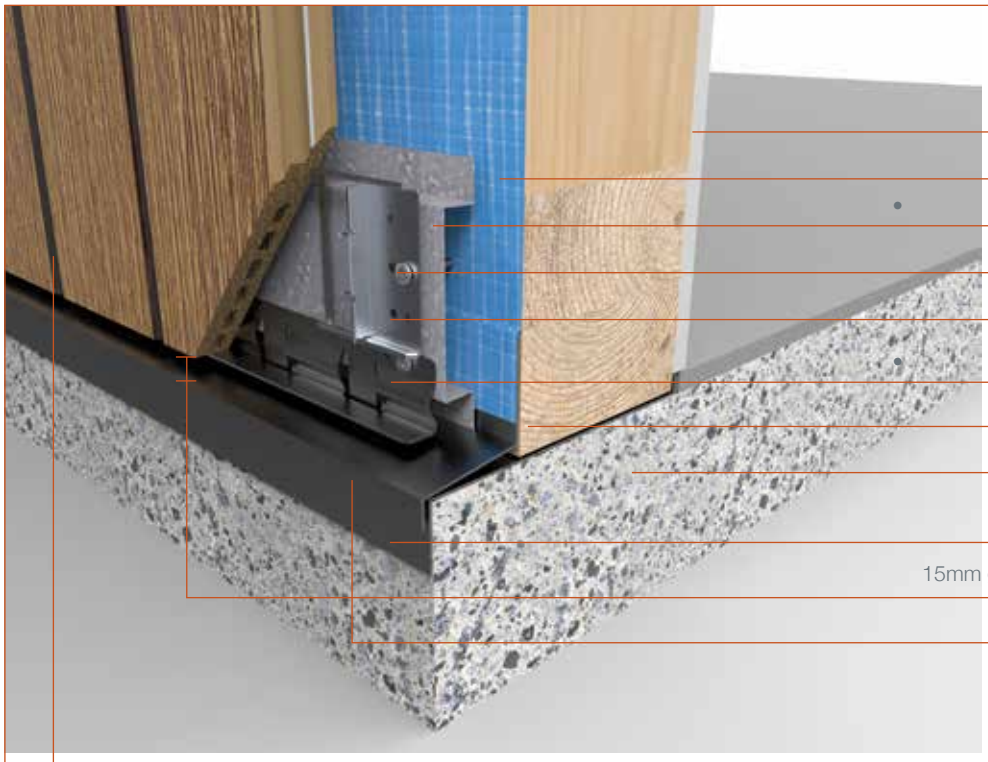


Figure 28
Slab Rebate

- Internal Lining
- Vapour Permeable Moisture Barrier*
- Montage™ Top Hat
- 12-15mm SS Screw*
- Montage™ 5mm Cavity Clip
- Montage™ Vertical Cavity Starter
- Timber frame*
- Concrete slab*
- Damp proof course*
- 15mm gap between Montage™ and flashing
- Flashing*
- Montage™

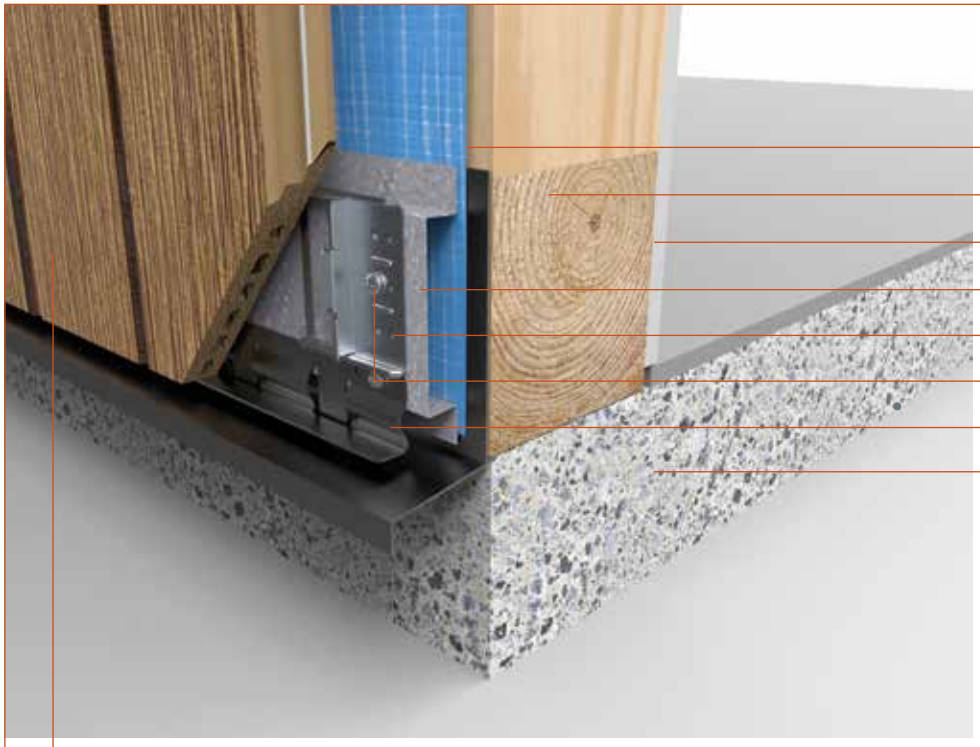


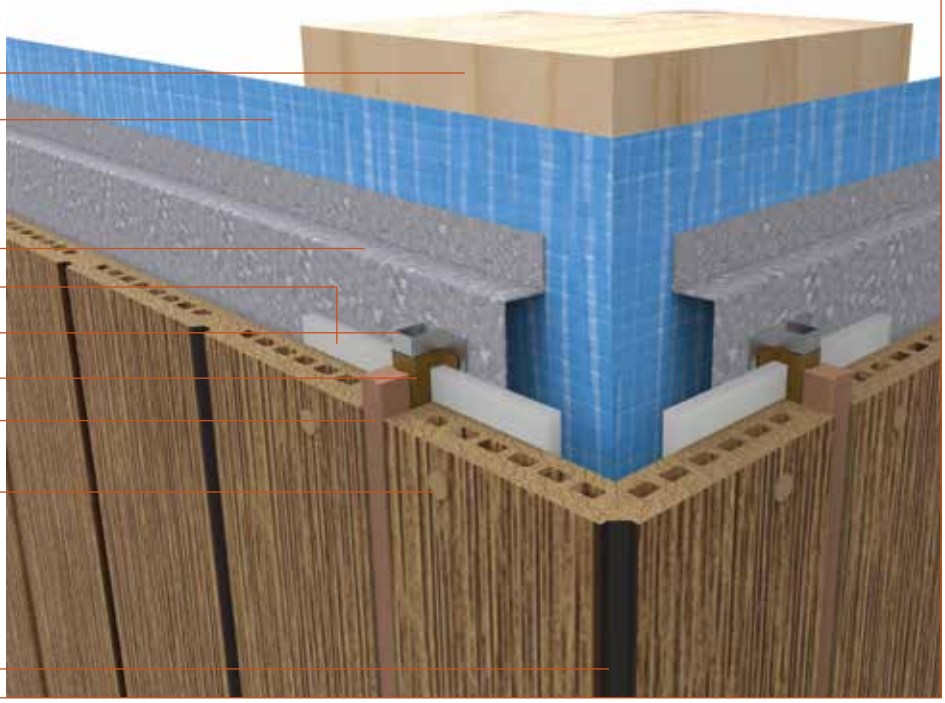
Figure 29
Slab Rebate

- Vapour Permeable Moisture Barrier*
- Timber frame*
- Internal Lining*
- Montage™ Top Hat
- Montage™ 5mm Cavity Clip
- 12-15mm SS Screw*
- Montage™ Vertical Cavity Starter
- Concrete slab*
- Montage™

## Installation Information

Figure 30
Wall/Soffit Junction


Figure 31
Pre-formed External Corner



## Installation Information

Figure 32
External Aluminium Corner

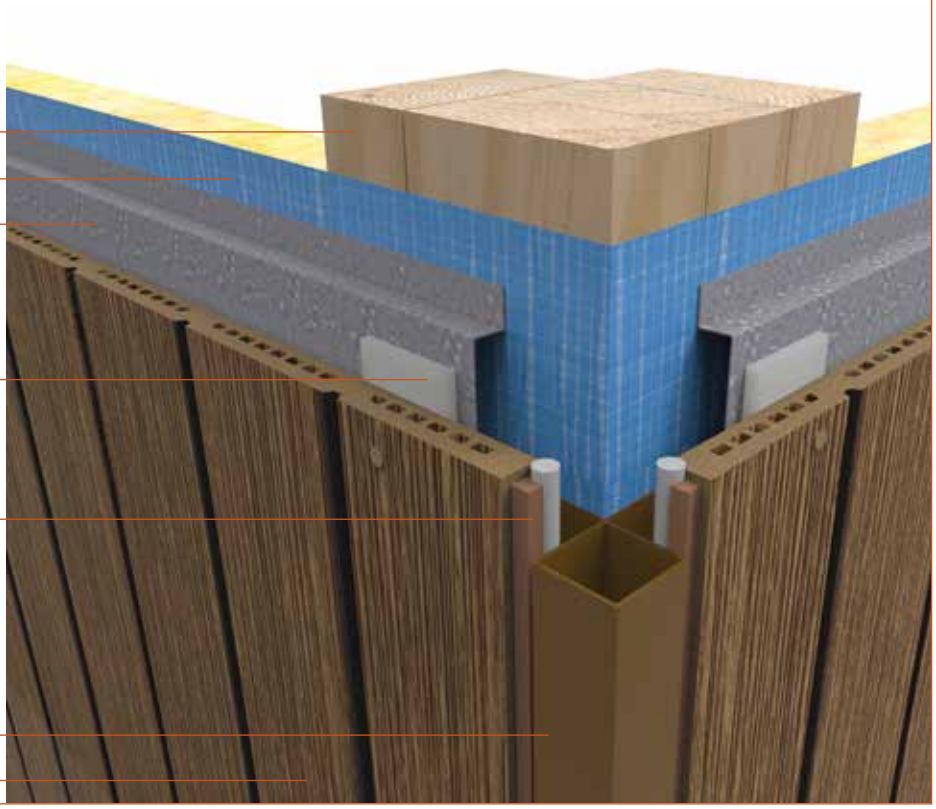
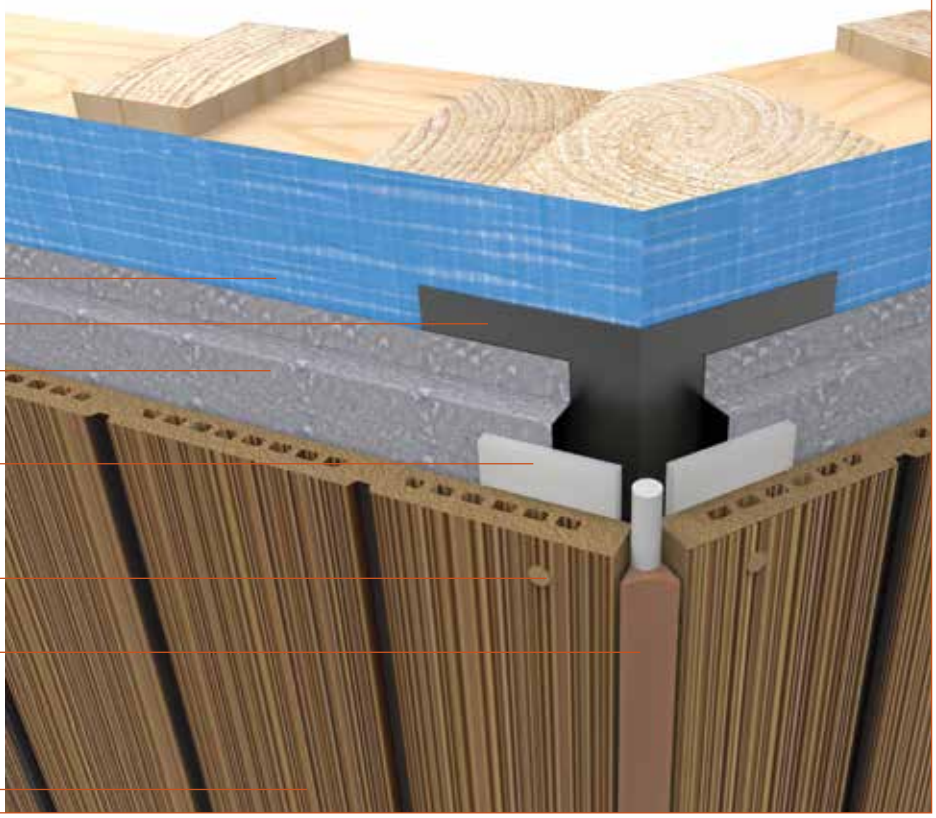



Figure 33
Obtuse Wall Angle



## Installation Information

Figure 34
Internal Corner with Single Joiner

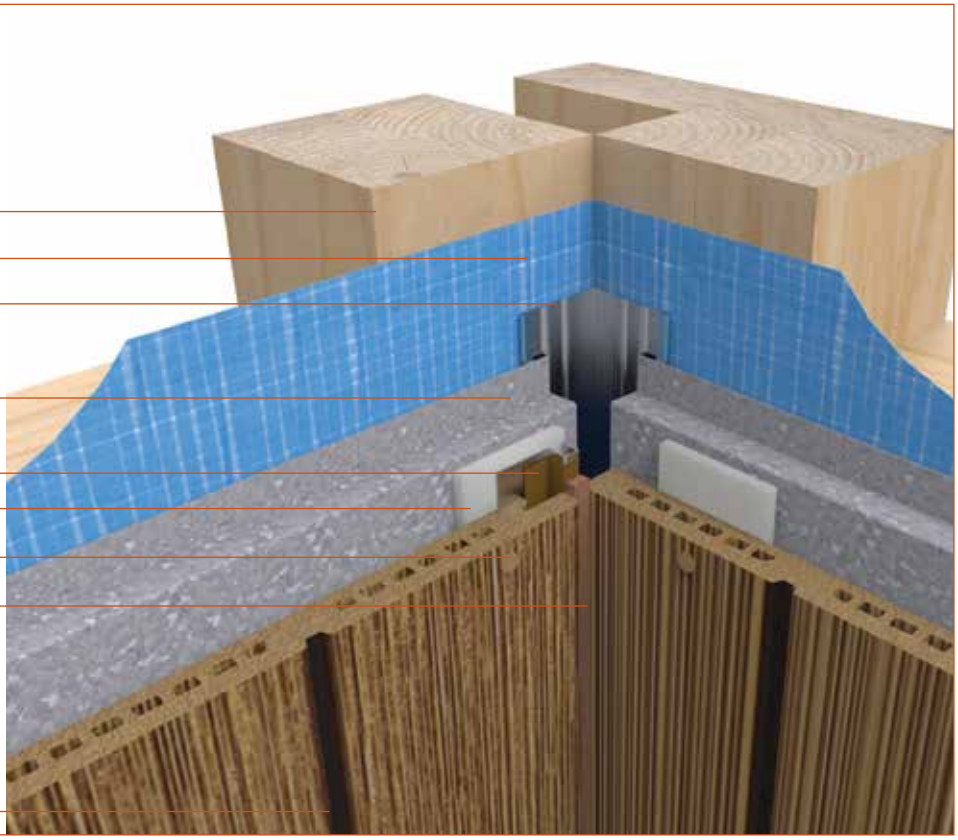
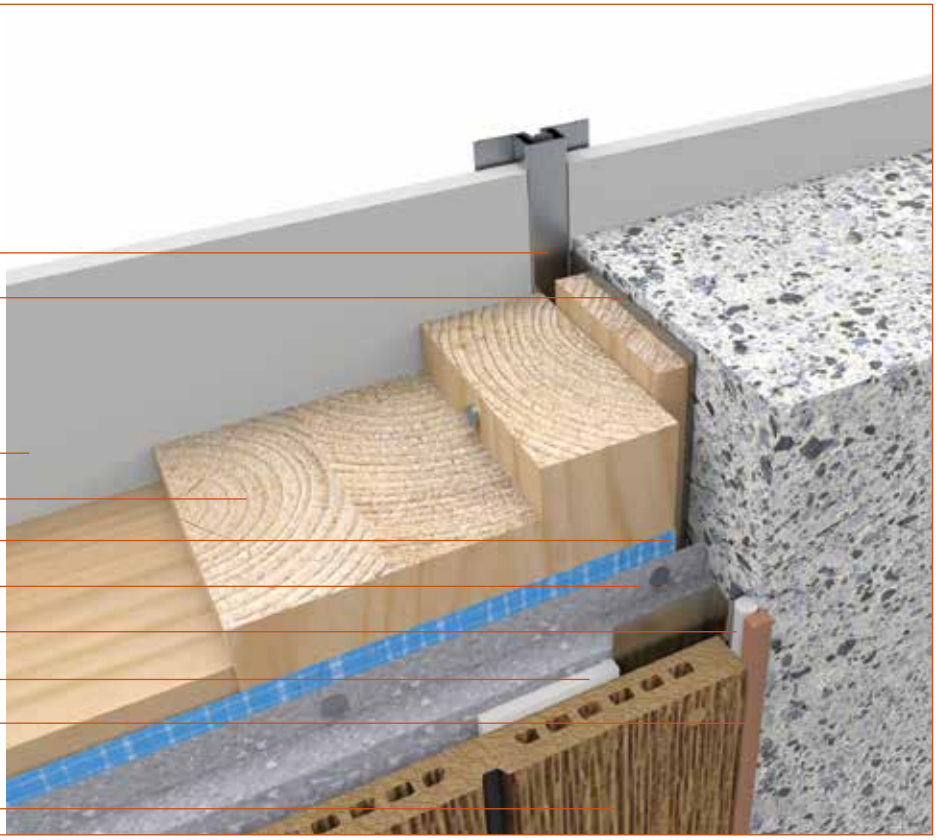


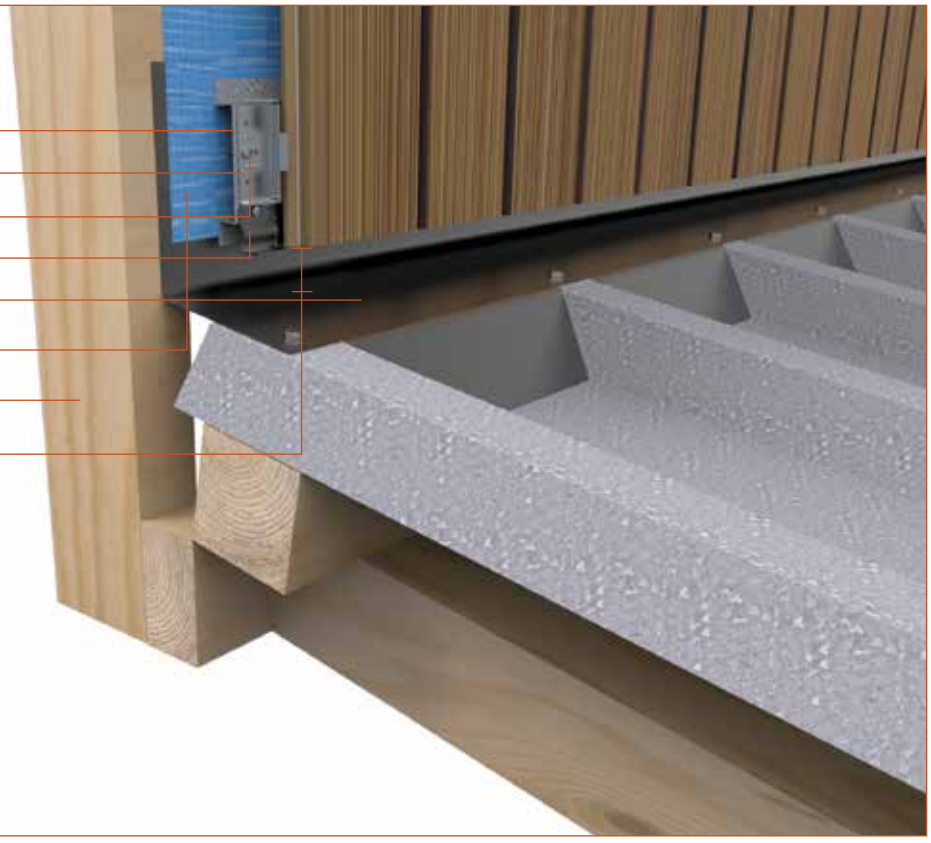

Figure 35
Junction with Masonry Wall



## Installation Information

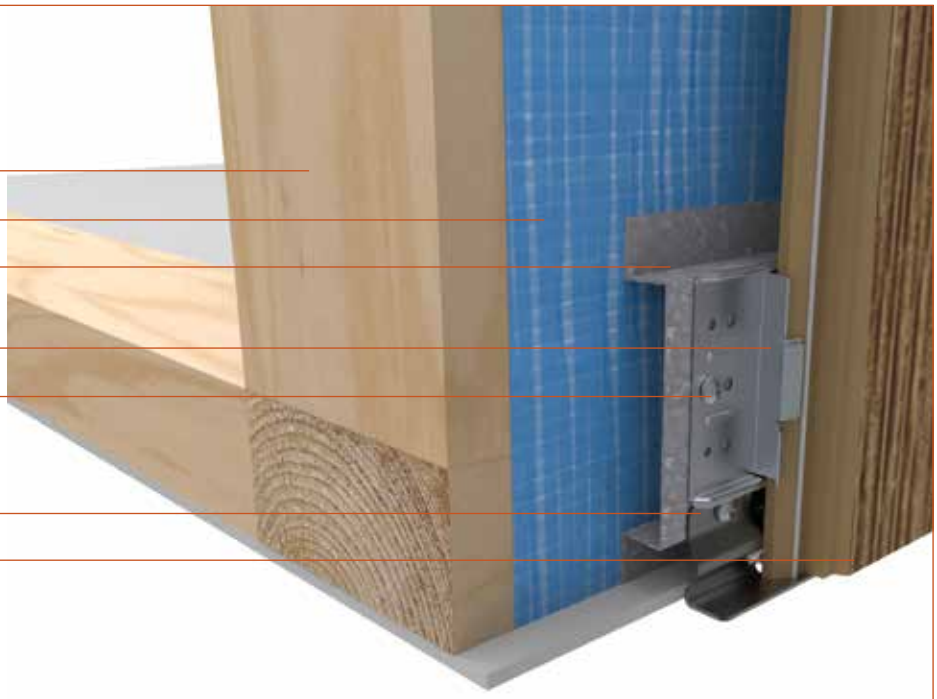
Figure 36
First Floor Cantilevered Frame


Figure 37
Roof/Wall Junction



## Installation Information

Figure 38
Soffit/Wall Junction



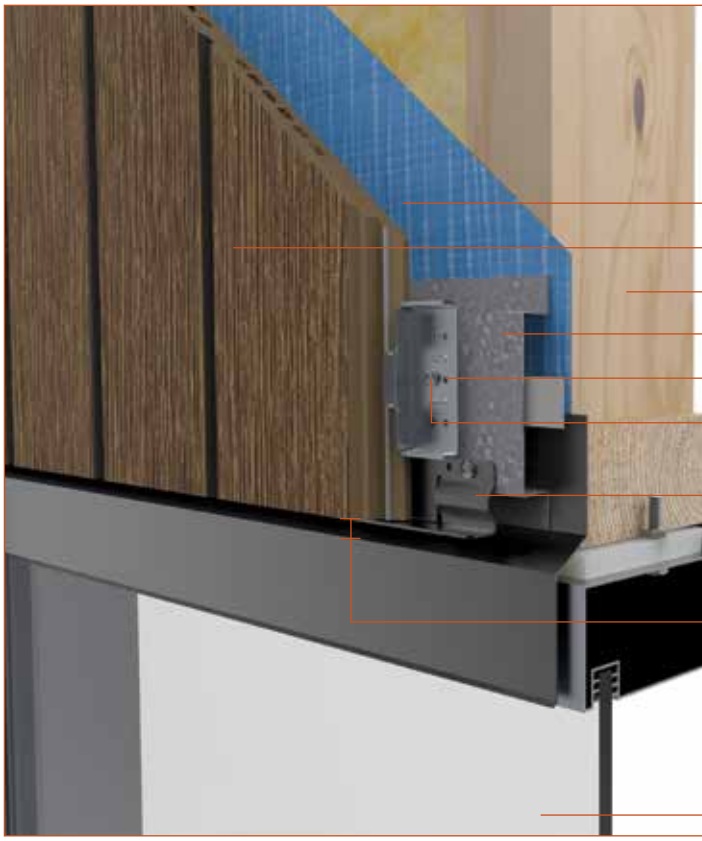



Figure 39
Window Commercial Head

Vapour Permeable Moisture Barrier*
Montage™
Timber frame*
Montage™ Top Hat
Montage™ 5mm Cavity Clip
12-15mm SS Screw*
Montage™ Vertical Cavity Starter
Backing rod*
Sikaflex Pro 600 Coloured Sealant
15mm gap between Montage™ and flashing
Window*

## Installation Information

Figure 40
Window Commercial Sill

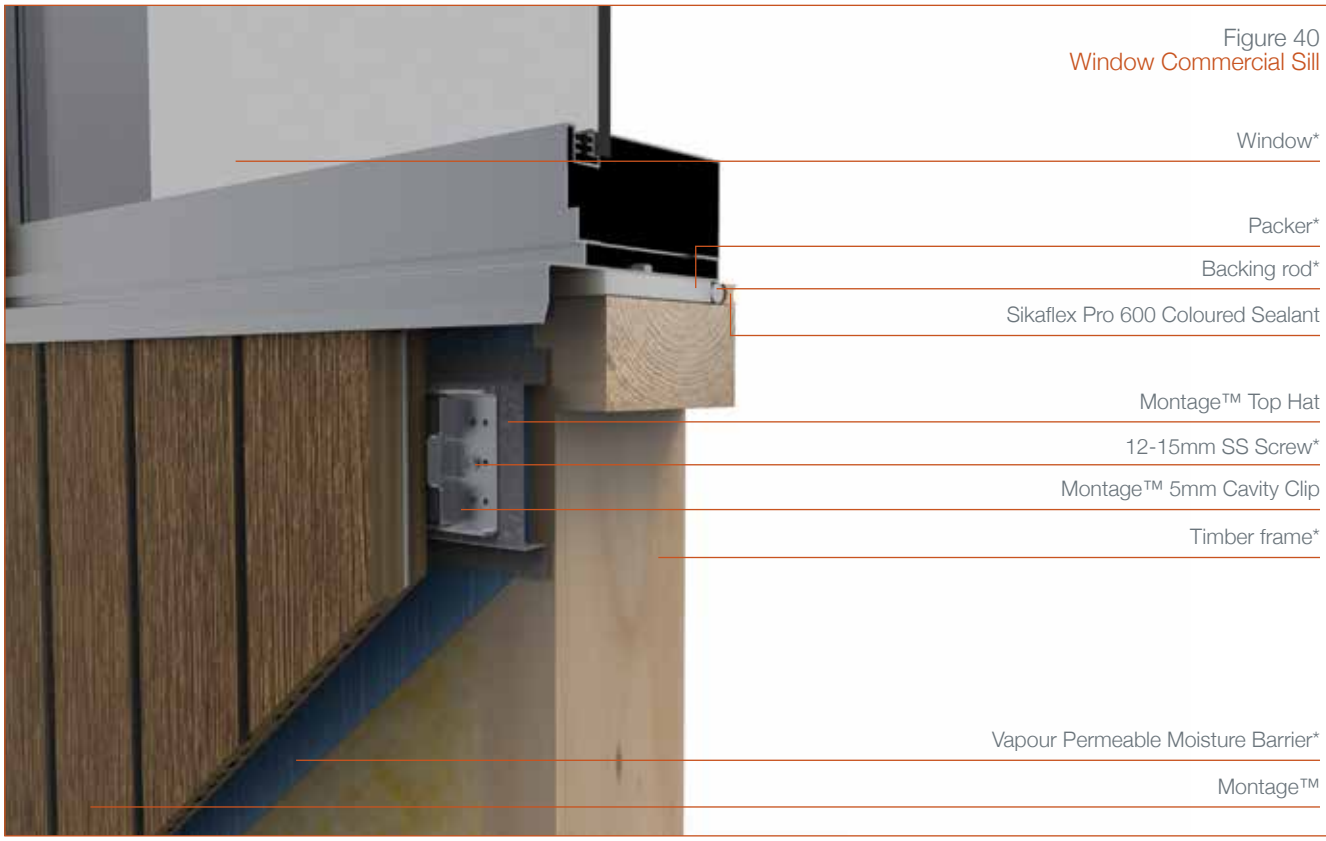
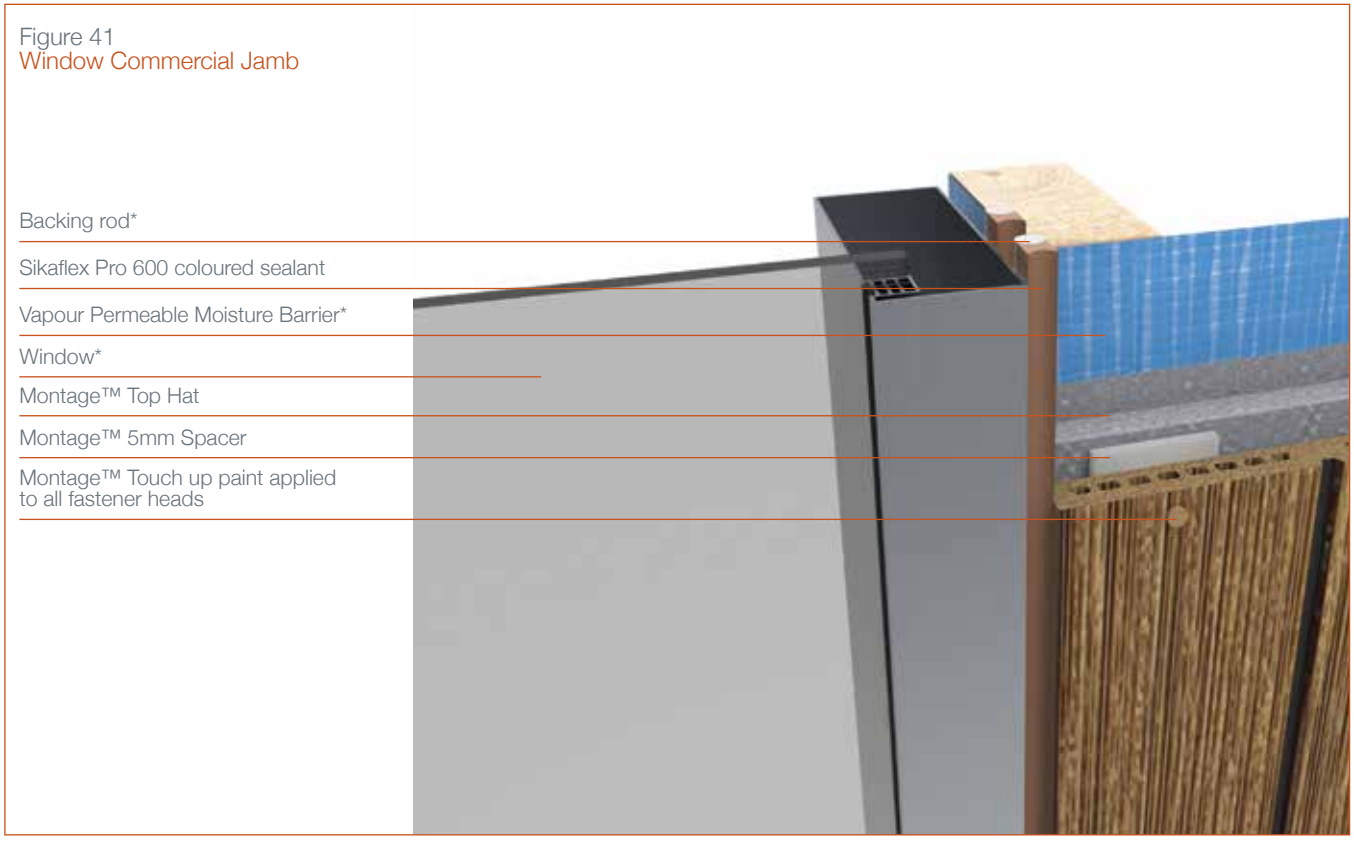



Figure 41
Window Commercial Jamb



## Installation Information

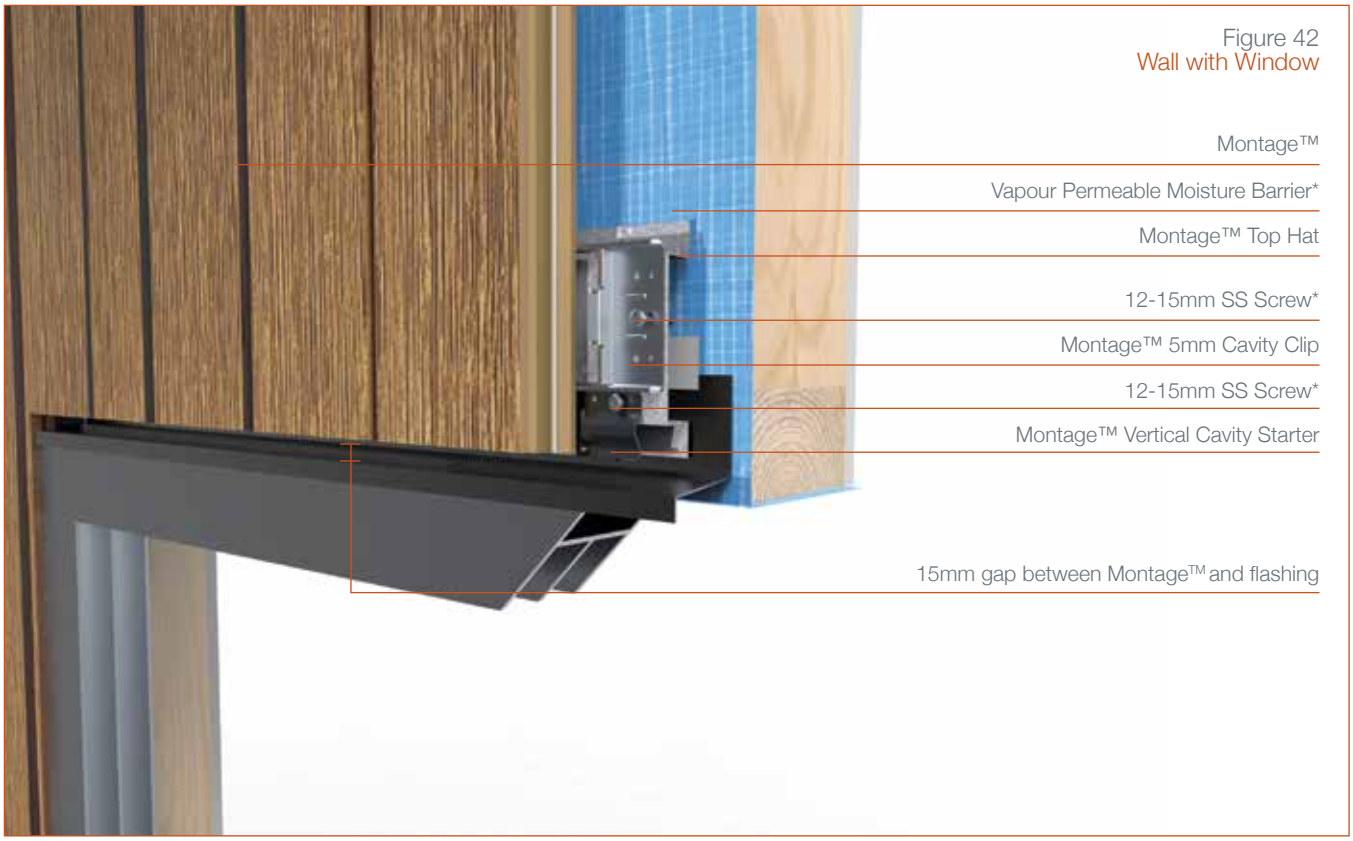



Figure 42
Wall with Window


Figure 43
Wall with Window

## Installation Information

Figure 44
Door Head

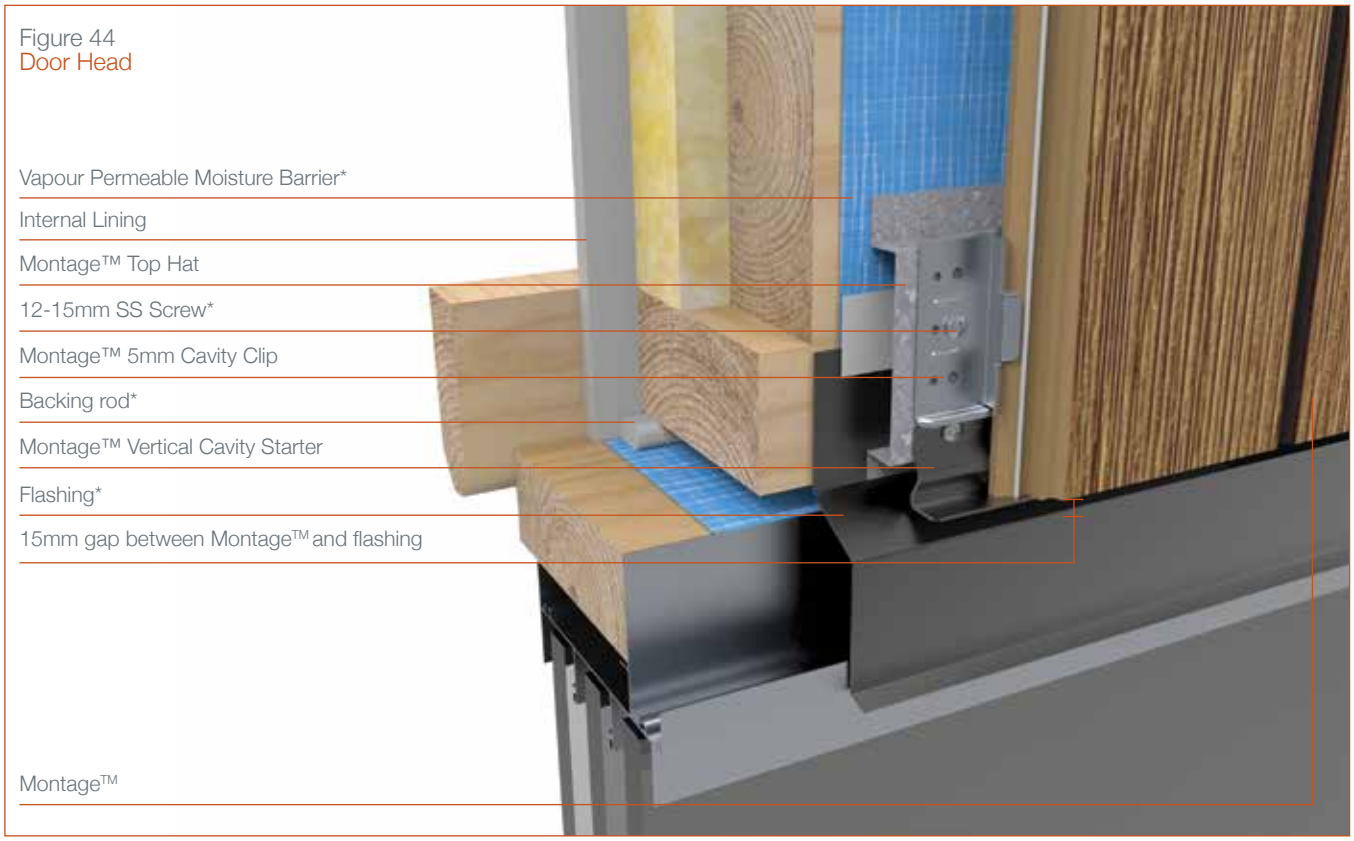
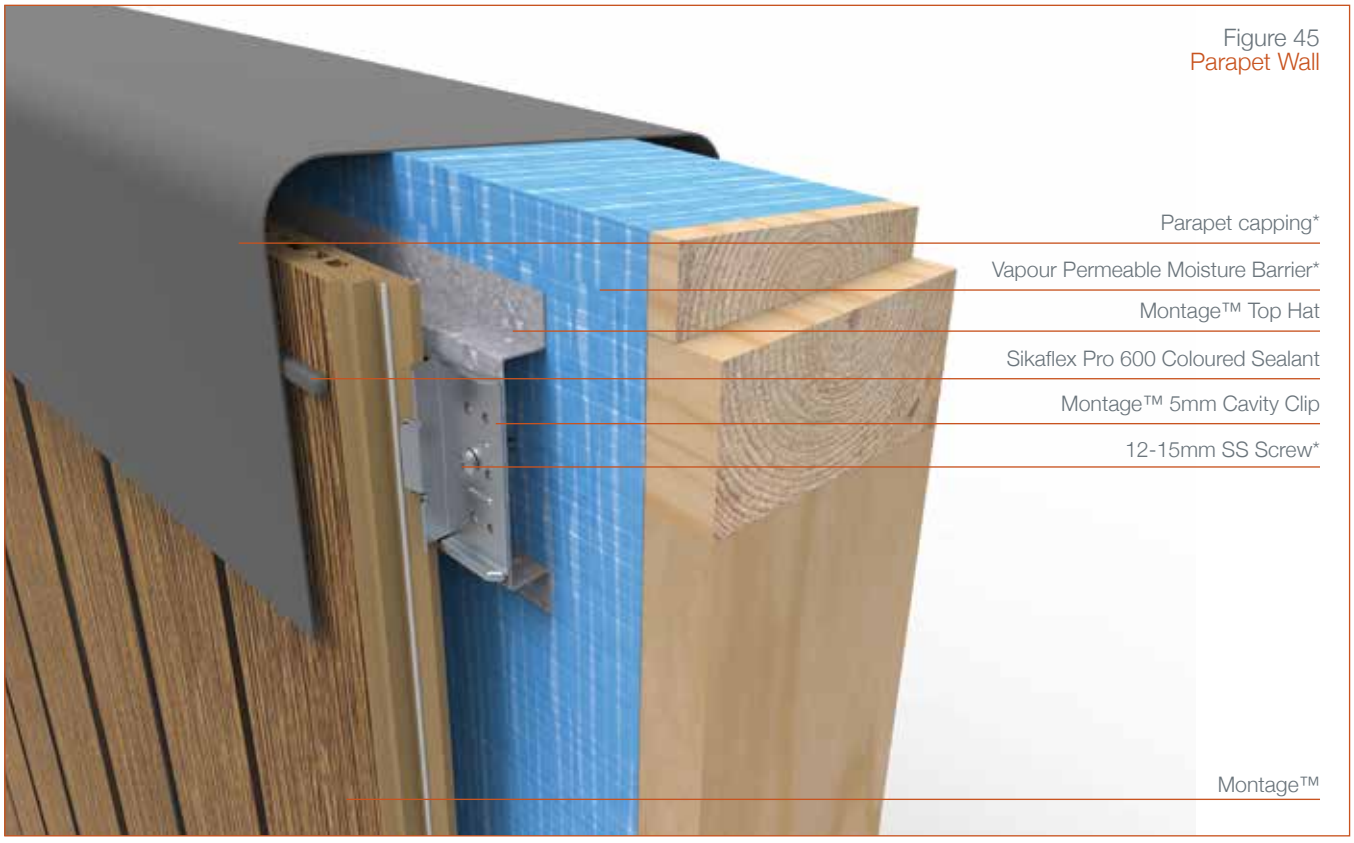



Figure 45
Parapet Wall



## Installation Information

Figure 46
Meter Box Inside Frame*

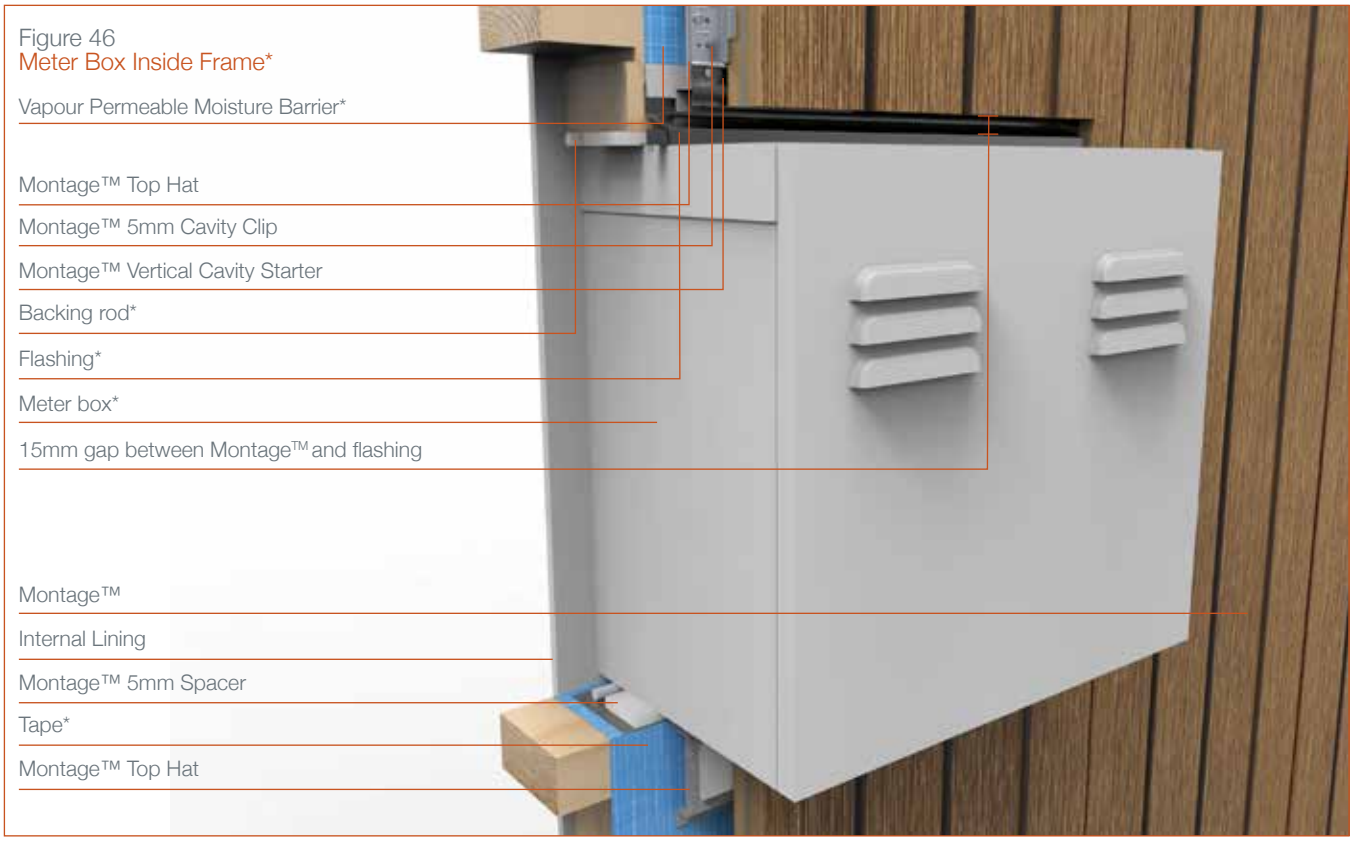
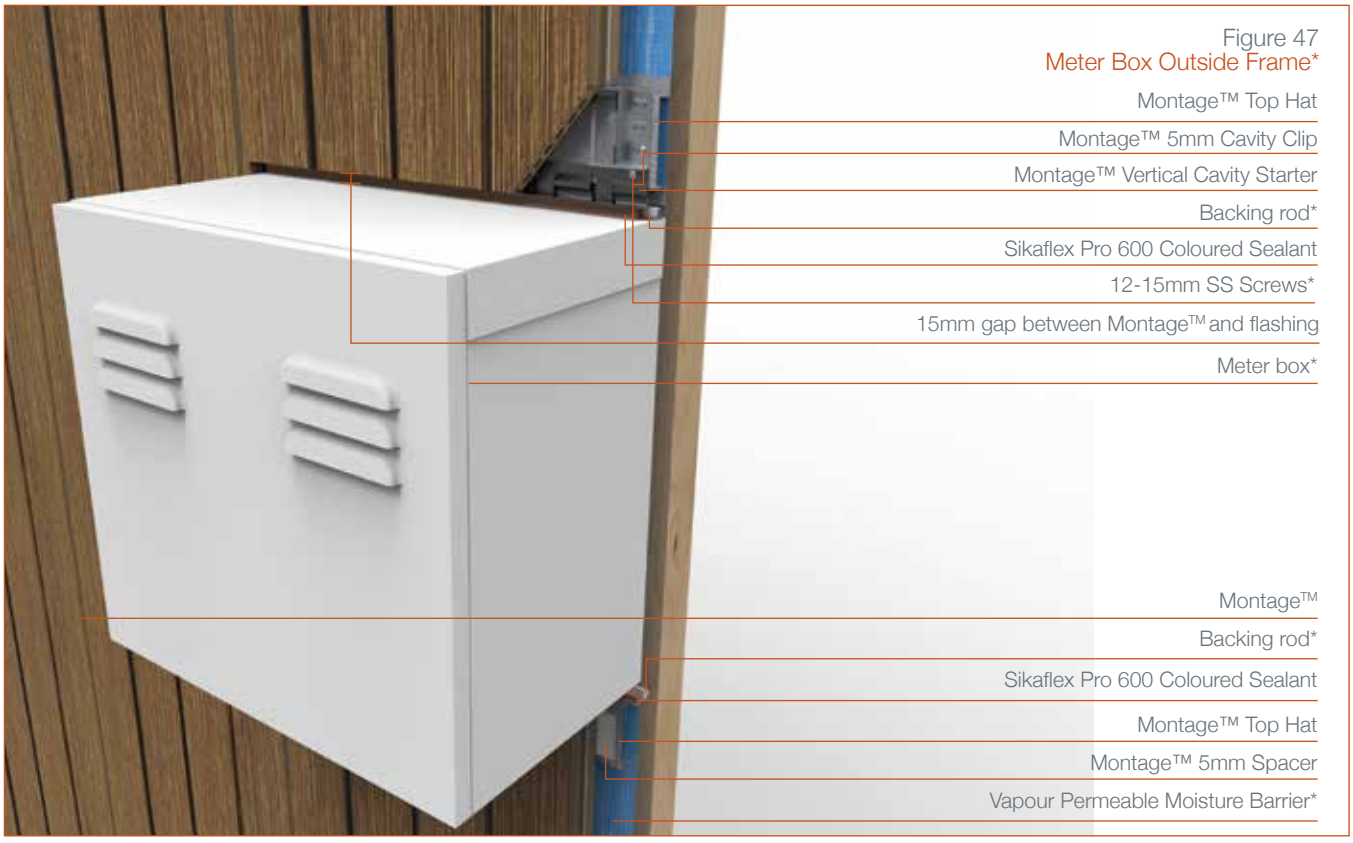
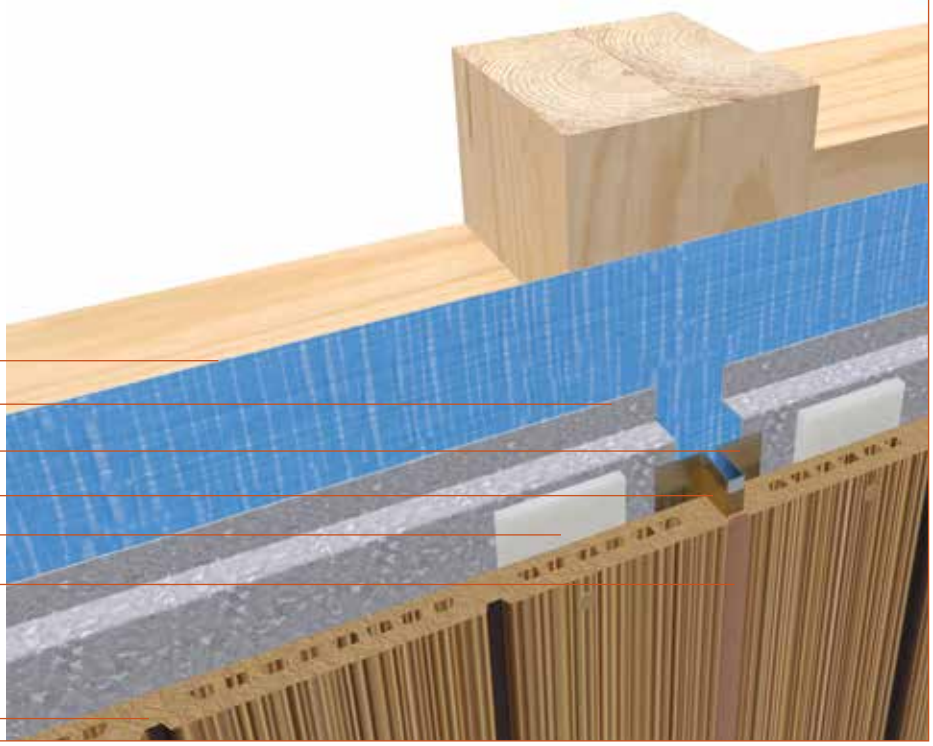



Figure 47
Meter Box Outside Frame*



## Installation Information

Figure 48
Vertical Control Joint



## Installation Information

Figure 49
Horizontal Joint up to 500mm

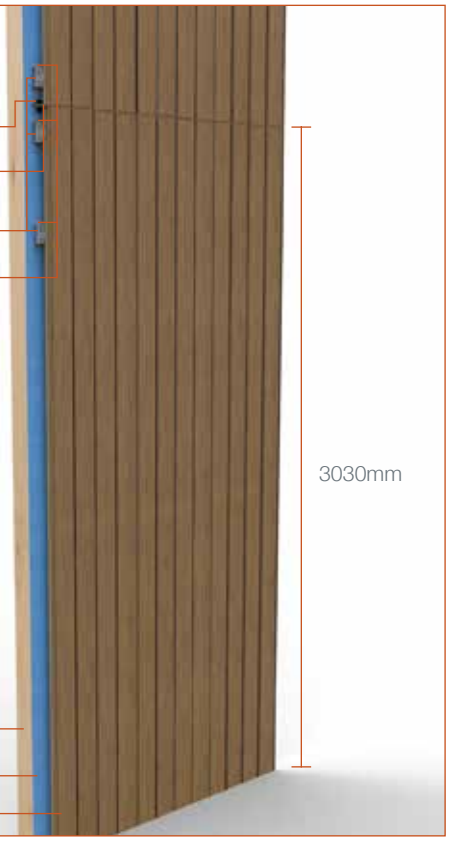



Figure 50
Horizontal Joint up to 500mm detail

## Installation Information

Figure 51
Horizontal Joint up to 500mm

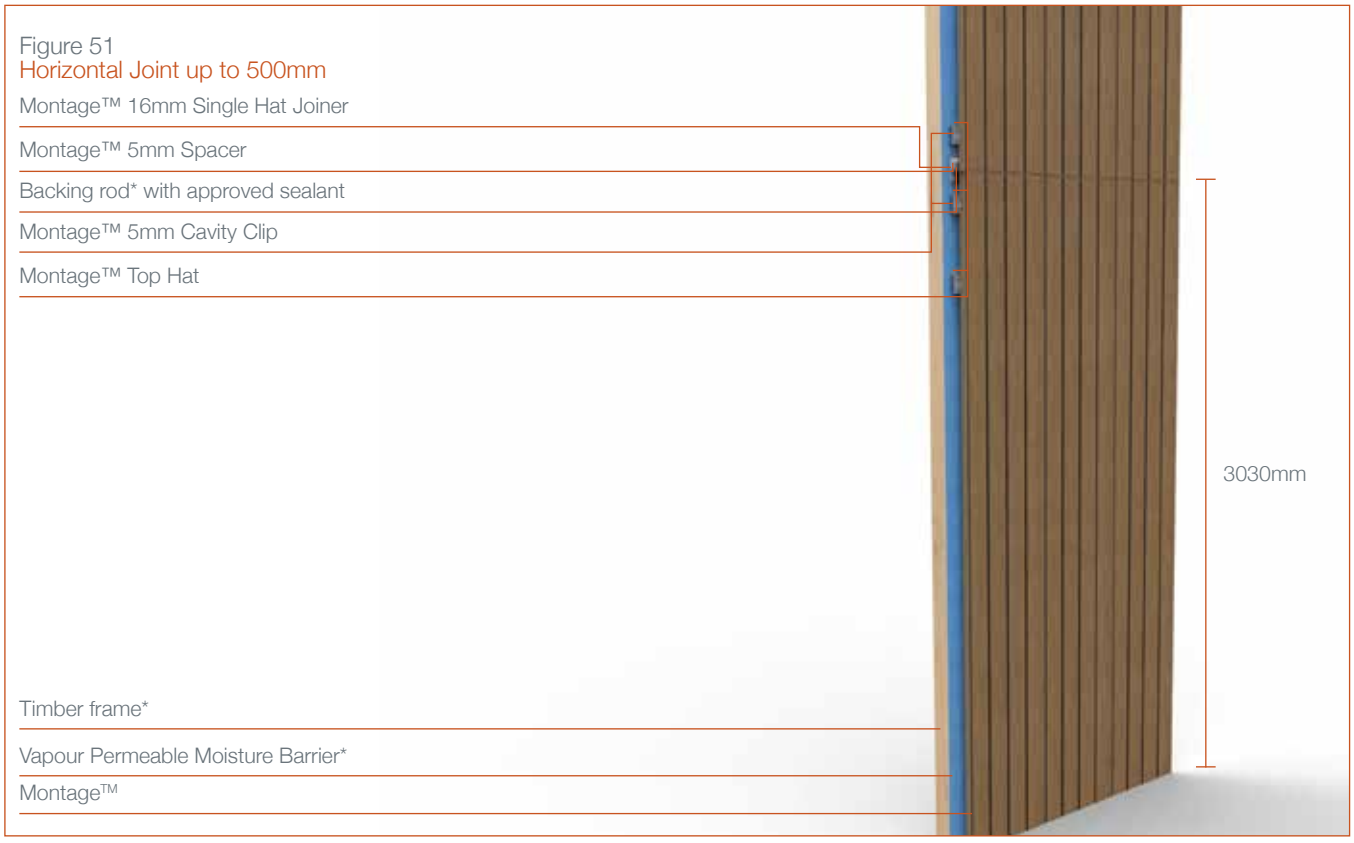



Figure 52
Horizontal Joint up to 500mm detail

## Cleaning

Montage™ panels have been coated with a hydrophilic coating which contains self-cleaning properties and will wash away dirt with rain. This coating also provides resistance against UV rays and tests have shown it has excellent performance in terms of both colour difference and gloss retention.

Due to the self-cleaning properties of Montage™, little maintenance is required and an occasional rinse down should be all that is needed. Use no more than 700psi of water pressure at a min. of 3m away from the surface of the Montage™ panels. Do not use detergents, plain water should suffice.

## Maintenance

An annual check of the Montage™ panels, flashings and seals is recommended. Any cracked or damaged panels or seals could allow water to penetrate and require repair immediately.

Small marks can be repaired using the Montage™ Touch up paint.

If a full Montage™ panel needs to be replaced, the panels above will need to be removed one by one from the top of the building and then be reassembled and resealed.

## Colour disclaimer

Colours shown in the Montage™ brochure for the Montage™ panels, pre-formed corners, aluminium corners and sealants are as close as possible to the actual colour of the products. Please note, due to limitations in the printing process, photographic and printed images may not represent the true colour. Always confirm your colour choice with your Innova™ facade expert.

## Terms and Conditions

Innova Fibre Cement's Terms and Conditions of Sale ("Agreement"), as in place and published at the date of this quote, which are available upon request or on our website at **www.innovafibrecement.com.au**. The purchaser's terms and conditions, howsoever provided, do not form part of the Agreement.

## Warranty

**1. Product Description**
Pre-Finished Fibre Cement Panel ("Product") manufactured by Konoshima Chemical Co. Ltd, Japan.

**2. Warranty Provider**
ProGeneus Pty Ltd (ABN 49 612 954 542) ("ProGeneus").

**3. Scope of Warranty**
The Product stated above, when handled, stored, installed and maintained in accordance with the approved installation manual prevailing at the time of purchase.

**4. Warranty Covered**
Pursuant to the terms, conditions and exclusions set forth under this Product Warranty, the Konoshima Pre-Finished Fibre Cement Panel will be free of defects from manufacturing and materials during the period of this warranty ("Warranty").

**5. Warranty Period**
10 years from date of purchase.

**6. Warranty Conditions**
This warranty is strictly subject to the following conditions.

**a.** The Product is handled, stored, installed and maintained in accordance with the approved installation manual prevailing at the time of purchase.

**b.** The workmanship and/or materials of the Product has not been degraded or damaged by external forces or causes other than those forces or causes considered by the Building Code of Australia and/or the relevant Australian Standards in relation to the Product having designed to meet the requirements under normal conditions.

**c.** That the authorised representatives of ProGeneus be given reasonable access to verify and inspect any quality, damage or faulty claims of the Product in-situ before any remedy, removal, repair or replacement are carried out.

**7. Warranty Exclusions**
The Product is pre-finished, and its colour and finish are subject to natural variation due to the manufacturing process and raw material used in its manufacture. Before installation, the builder and/or installer must ensure that the Product meets with the pre-finish/aesthetic requirements such as improper surface finish, dents and scratches and other imperfections that are reasonably noticeable.

ProGeneus will not be liable for any claim arising out of colour variations if the Product are not inspected and claims made prior to installation.

Except as expressly set forth in Section 4. Warranty Covered above and to the extent that the law allows, ProGeneus shall not be liable for any defect, damage or failure due to:

**a.** In or arising out of the use of any third party's seal coating, paint or other coating or finish applied to the Product or normal wear and tear after purchase.

**b.** Resulting from external causes beyond the control of ProGeneus or caused by acts of God including, but not limited to lightning, cyclones, hail stones, floods, earthquakes, mud slides or other severe weather or climatic conditions.

**c.** Caused by soil or structural movement and/or movement of materials to which the Product is installed and non-compliance of the structure design and installation specifications of the Product to any applicable building codes or standards.

**d.** In or arising out of improper storage and handling, misuse, abuse, improper installation, lack of proper maintenance of the Product and those that are beyond the control of ProGeneus.

**e.** Deterioration of the Product in any form caused by work carried out on the Product after installation, including any repair and/or re-use of the Product after its initial installation.

**f.** The design and installation of the Product must at all time be carried out by qualified builders and comply with the National Construction Code of Australia and States and local council's regulations.

This warranty applies only to the Product and does not cover any other materials including but not limited to timber studs, steel frames, building wrap or any other material and/or component that is not manufactured or supplied by ProGeneus including defect, damage or failure caused by or in connection with the above materials.

**8. Claims and Remedies**
Subject to the rights and remedies of consumers provided for under the Australian Consumer Law, any claim or remedy for the Product is strictly subject to the following conditions:

**a.** Pro Geneus will not be liable for any breach of this warranty if the claimant is unable to provide proof of purchase of the Product and fails to make a written claim within 30 days after the defect is discovered.

**b.** If a claim is made under this Product Warranty and subject to verification and inspection of such claim before any permanent repair to the Product by ProGeneus or its authorised representative, the sole remedy under this warranty shall be for ProGeneus to either supply replacement Product, rectify the affected Product or pay for the replacement or rectification of the affected Product at its discretion.

**c.** ProGeneus will not reimburse or pay for and shall not be liable for any cost related to structural materials, accessories or labour other than the original purchase price of the affected portion of the Product, regardless of whether ProGeneus has previously provided replacement Product or otherwise.

**d.** The notice to claim must describe the defect or failure and accompanied by proof of the date of purchase, the name of builder and that the claimant is the original purchaser of the Product or the original purchaser's first transferee. Photos of the Product showing the defect or failure should accompany the notice.

**9. Disclaimer**
The statements in this Product Warranty constitute the only warranty extended by ProGeneus for or with respect to the Product. ProGeneus will not be liable for any incidental, consequential or other damages (such as injury to persons or damage to any structure or its contents) including without limitation any damages arising from any defect or failure in the Product or otherwise.

Contact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www.innovafibrecement.com.au

Exterior products and applications
**INNOVA™ RANGE OF PRODUCTS**

**DURACOM™** / A compressed fibre cement facade system.

**DURAFLOOR™** / The ultimate flooring product that can be used in both interior and exterior applications.

**DURAGRID™ RESIDENTIAL & DURAGRID™ LIGHT COMMERCIAL** / A lightweight facade giving a modern and durable finish.

**DURAGROOVE™** / A vertically grooved exterior facade panel.

**DURASCAPE™** / A lightweight exterior facade base sheet with a subtle vertical shadow line.

**NULINE™ PLUS** / A weatherboard style cladding system.

**STONESHEET™** / Purpose designed substrate for stone tile facade.

**STRATUM™** / A range of plank products, each of which can be used as stand-alone products or used together to create a striking exterior cladding solution.

**STRATUM™ ERA** / A traditional, yet contemporary weatherboard.

**DURASHEET™** / Ideal for the cladding of gables and lining of eaves. Can also be used on commercial soffits and cladding on non-impact areas.

**DURAPLANK™** / Available in Smooth, Woodgrain and Rusticated finishes, Duraplank™ is ideal for exterior cladding of upper storey conversions or ground level extensions.

**DURATEX™** / A base sheet used for textured coatings on exterior wall applications.

**DURALINER™ PLUS** / An exterior lining board that is the perfect substrate for tiles and is ideal for wet areas.

**DURALATTICE™** / Square or diamond patterned lattice, suitable for screens, pergolas and fences.

**COMPRESSED** / Used as a domestic, commercial sheet for wet areas, flooring, partitions, exterior decking, fascia and facade cladding.

**DURALUX™ PLUS** / Suitable for exterior applications where it will be sheltered from direct weather.

Interior products and applications
INNOVA **FIBRE CEMENT RANGE OF PRODUCTS**

INTERGROOVE™ / **Internal grooved wall lining.**

**DURALUX™ PLUS** / An interior lining board suitable for ceilings and soffits.

**DURALINER™ PLUS** / An interior lining board, this is the perfect substrate for tiles and is ideal for wet areas.

**CERAMIC TILE UNDERLAY** / A substrate for ceramic and slate floor tiles.