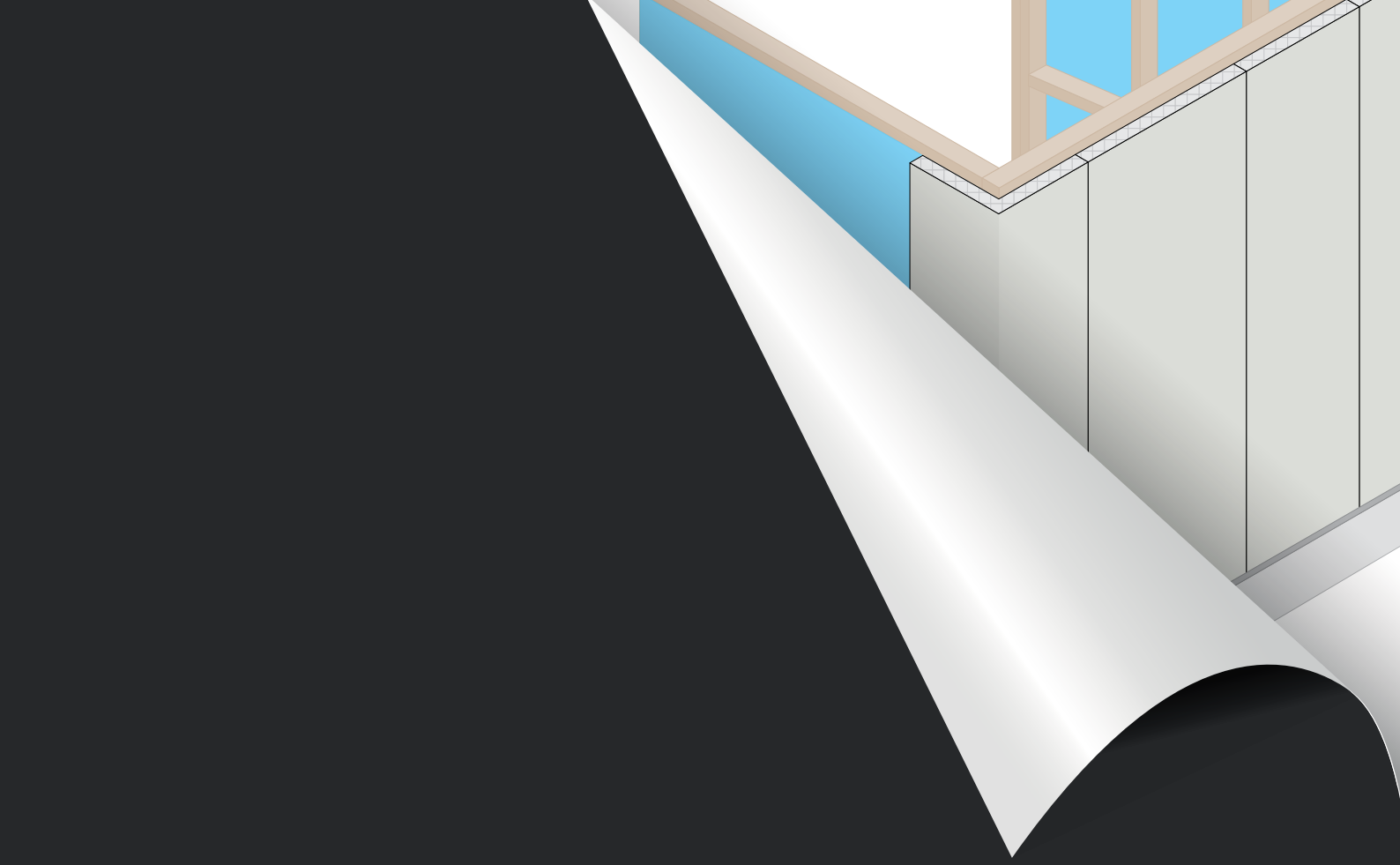


luxewall®
by BONDOR

LUXURY WALL SOLUTIONS

BONDOR®
Leaders in Thermal & Architectural Building Solutions

Design & Install Guide

Contents

luxewall® by BONDOR
LUXURY WALL SOLUTIONS

WARNING

Where installation of this product or system has not been undertaken strictly as per these instructions, the CodeMark certification and claims for compliance under the National Construction Code (NCC) will be deemed null and void. Where this has occurred, alternate building compliance solutions will need to be sought for the specific site.

1.0 LuxeWall® Overview

1.1 Introduction

LuxeWall® is a modern, lightweight residential wall cladding solution, designed to significantly improve the appearance, comfort and construction speed of modern housing in Australia.

LuxeWall® is a concealed-fix panel wall system, combined with fabricated corner modules and patented UniSmart conceal-fix trims to achieve a near seamless architectural finish for the modern home, with minimal visible metal flashing and fasteners..

LuxeWall® modules are available in standard thickness of 50mm & 75mm depending on thermal requirements, with a standard cover width of 900mm for ease of handling.

The LuxeWall® range delivers outstanding aesthetic finishes in either metallic or matt paint technology, superior energy efficiency and faster construction times for residential buildings compared to traditional masonry and cladding systems requiring costly skilled labour and finishing trades.

Benefits

- Architectural finishes
- Hidden-Fix Walling
- UniSmart patented flush trim system
- Superior Energy Efficiency
- Faster installation
- Lightweight
- Easy to handle
- Integrated insulation
- Durable, solid and strong

1.2 Product Overview

LuxeWall® Wall Module Specification

	Standard	Other Options*
Module Thickness:	50 & 75mm	Other thicknesses
Module Cover Width:	900mm	1200mm
Module Length:	Made to Length	
Min Length:	1200mm	
Max Length:	6500mm	
Colours/Coatings:	Metallic Astro™ Metallic Cosmic™ Matt Basalt® Matt Surfmist®	Other Colorbond® Colours

*Minimum order quantities and availability.

LuxeWall® Corner Module Specification

	Standard	Other Options*
Module Thickness:	50 & 75mm	Other thicknesses
Module Cover Width:	900mm	1200mm
Corner Fold:	1 @ 90 degrees	Multiple folds @ max 90 degrees
Module Length:	Made to Length	
Min Length:	1200mm	
Max Length:	3100mm	
Colours/Coatings:	Metallic Astro™ Metallic Cosmic™ Matt Basalt® Matt Surfmist®	Other Colorbond® Colours

*Minimum order quantities and availability.
^ Discuss availability and coating options with your local Bondor product specialist.

LuxeWall® Thermal Performance Total R-Value (m^2K/W)

		Heat Flow Direction	Without Batts	With R1.5 Batts	With R2.0 Batts
Timber Framing	LuxeWall® Standard 50mm	Summer	1.8	2.9	3.3
		Winter	1.9	3.1	3.6
	LuxeWall® Standard 75mm	Summer	2.4	3.5	3.9
		Winter	2.5	3.7	4.2
Steel Framing	LuxeWall® Standard 50mm	Summer	1.7	2.8	3.1
		Winter	1.8	3.0	3.4
	LuxeWall® Standard 75mm	Summer	2.3	3.4	3.8
		Winter	2.5	3.6	4.1
Timber Framing	LuxeWall® FG Standard 50mm	Summer	1.8	2.9	3.3
		Winter	1.9	3.1	3.6
	LuxeWall® FG Standard 75mm	Summer	2.4	3.5	4.0
		Winter	2.6	3.8	4.2
Steel Framing	LuxeWall® FG Standard 50mm	Summer	1.8	2.8	3.2
		Winter	1.9	3.0	3.4
	LuxeWall® FG Standard 75mm	Summer	2.4	3.4	3.8
		Winter	2.5	3.7	4.1

Notes:
Calculations based on AS/NZS 4859 parts 1 & 2 2018
Mean temperatures: Summer: 30°C, Winter: 15°C

Brilliant modern finishes and colours

Why follow fashion trends, when you can set them. LuxeWall's unique colours reflect the modern contemporary look, giving personal touches to shine through. LuxeWall® colours have been carefully selected and applied using the latest in paint technology delivering high quality architectural finishes for your entire home. With LuxeWall®, your home will be the jewel in the street.

Colorbond® Metallic

Cosmic®

Astro®

Colorbond® Matt

Matt Surfmist®

Matt Basalt®

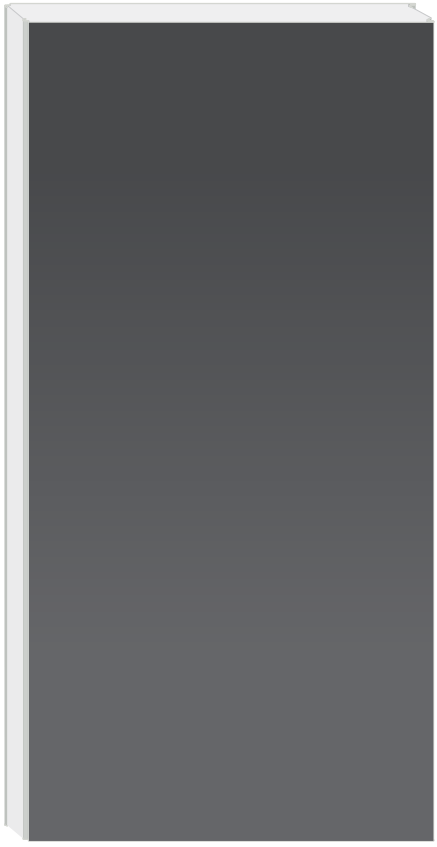
** Other Colorbond® Matt & Metallic colours are available depending on project size.*

Colorbond® Metallic lustre effect

An innovative paint technology that shines with a subtle sparkling lustre when in direct sunlight.

Colorbond® Matt with superfine texture

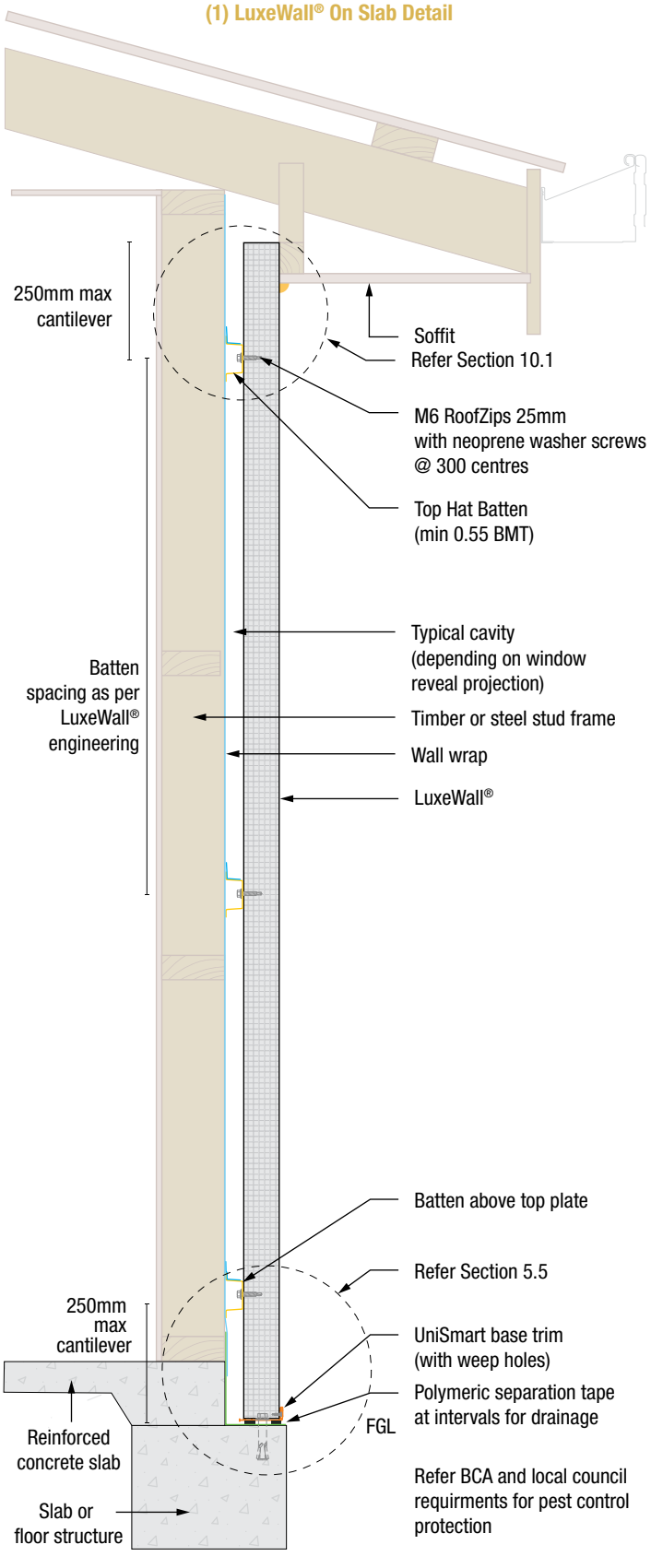
The modern trending Matt finish with a unique superfine texture stipple delivers architectural class with affordability in mind.



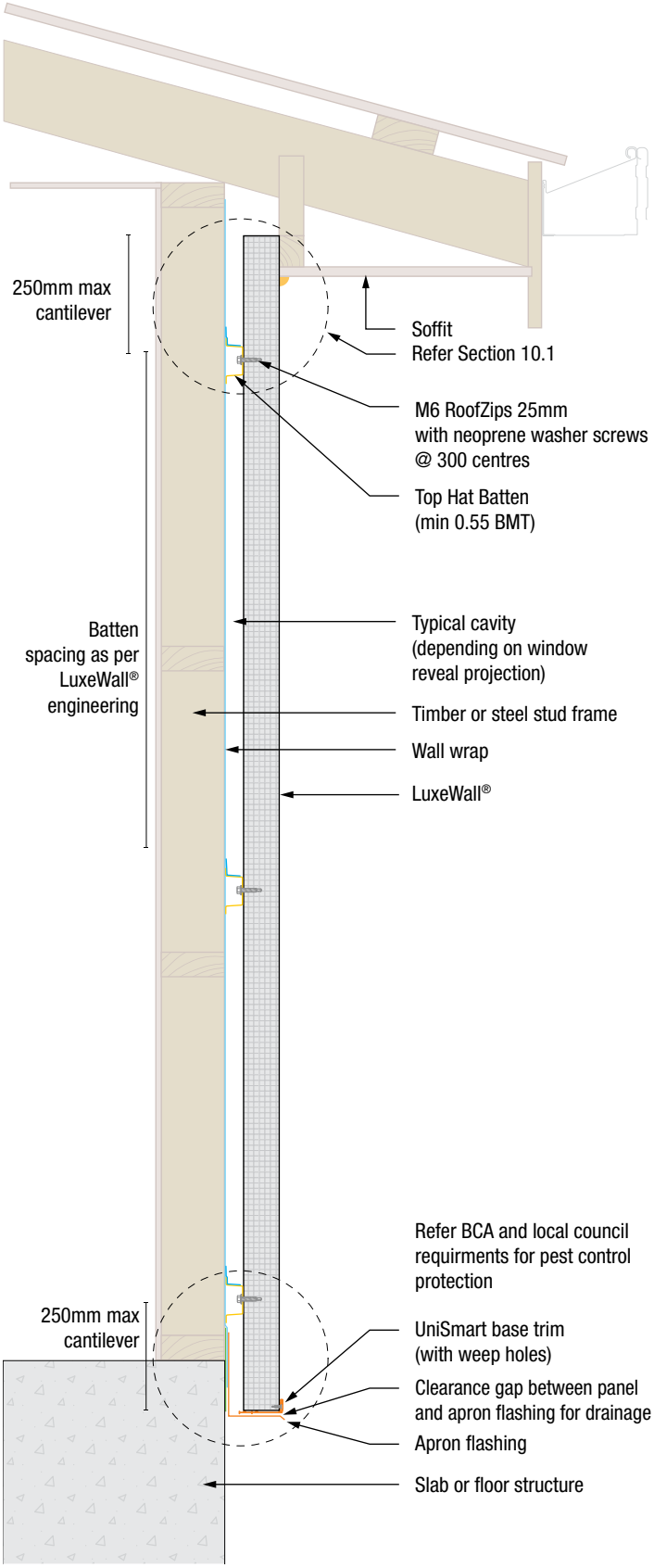
1.3 (A) Construction Detail - Single Storey

For single storey wall construction, LuxeWall® can be installed in two different methods allowing for design flexibility with either (1) on slab and (2) off slab.

(1) LuxeWall® On Slab Detail



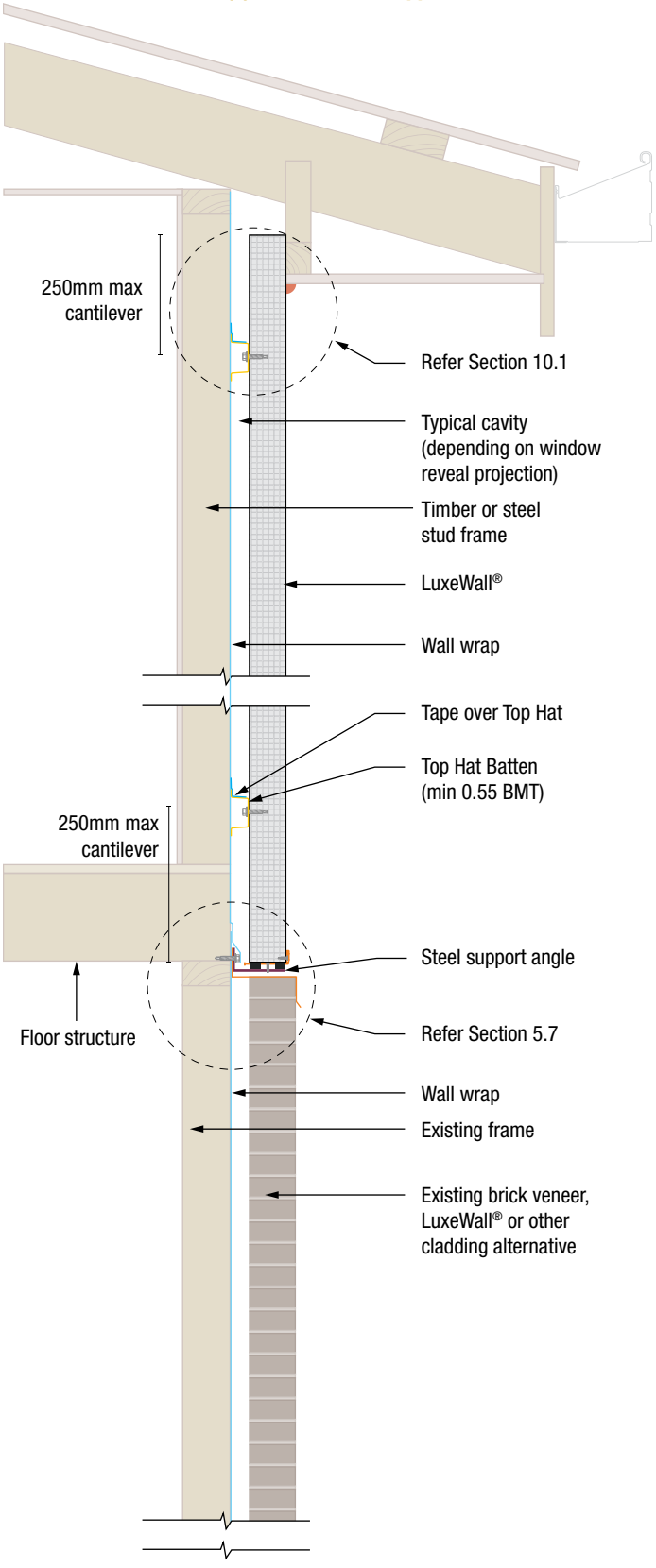
(2) LuxeWall® off slab



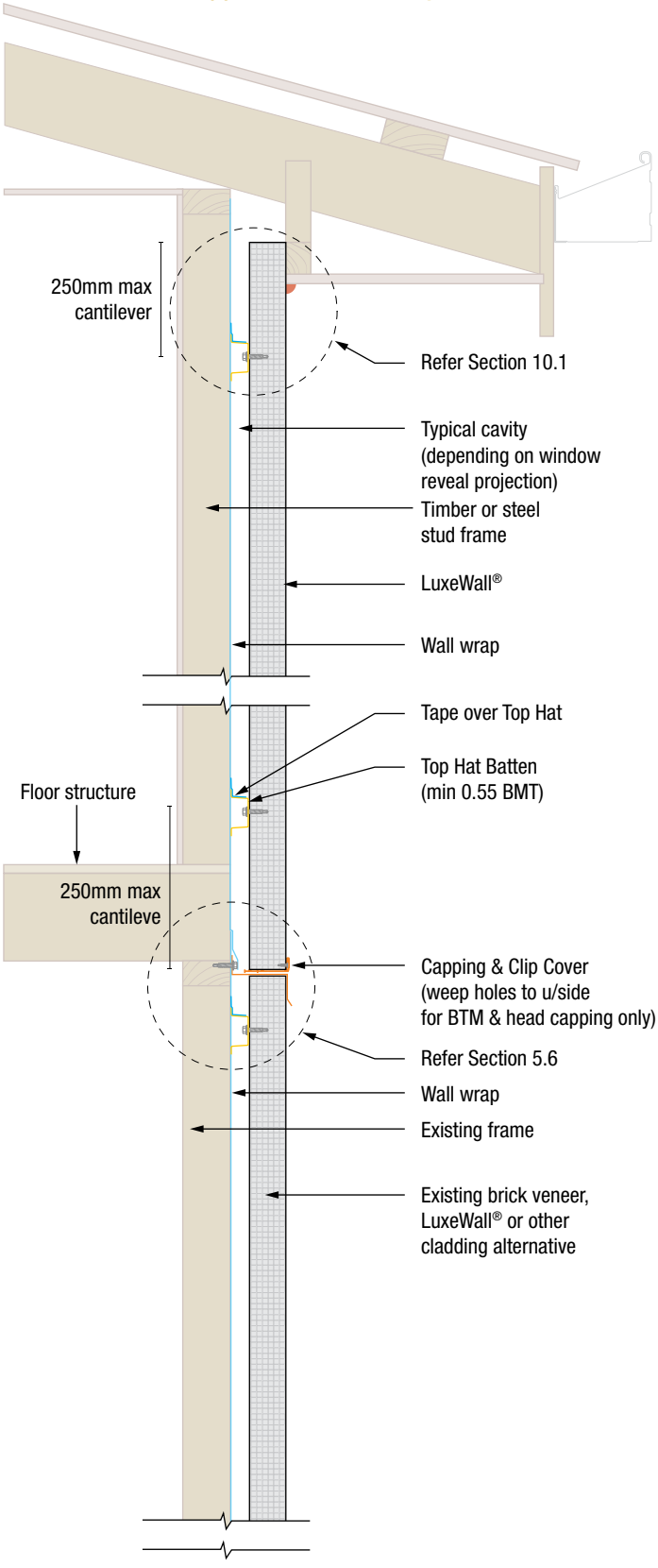
1.3 (B) Construction Details - Two Storey

For two storey construction, LuxeWall® can be installed on the upper storey above traditional monolithic products such as traditional masonry or other wall materials using two fixing methods including (1) on support and (2) frame-only fix.

(1) LuxeWall® On Support



(2) LuxeWall® Frame-only Fix



1.4 Product Manufacture

LuxeWall® is manufactured by Bondor® Australia across 6 facilities located in most major capital cities including Brisbane, Sydney, Melbourne, Adelaide, Perth and Launceston. Bondor® manufacture LuxeWall® using BlueScope Steel exclusively for compliance with Australian Standards for steel and paint performance requirements.

1.5 Handling and Storage

LuxeWall® is a prefinished product using BlueScope Steel, which must be handled with the appropriate Personal Protective Equipment (PPE) and clothing, including cut resistant gloves.

Packs of LuxeWall® modules should be elevated from direct ground contact, covered and dry at all times prior to installation. During installation or relocation of LuxeWall®, panels are to be lifted directly up off packs or other panels and not dragged. This will ensure the prefinished surface remains undamaged and in perfect condition.

A protective plastic is adhered to the pre-finished exterior facing surfaces as a preventative measure from minor scratches. Similar to windows and other glazing products, the LuxeWall® protective plastic must be removed immediately as prolonged exposure to sunlight may increase adhesion and be more difficult to remove if left for prolonged periods.

It is recommended when relocating LuxeWall® packs, lifting equipment should be used wherever possible (crane, forklift, trolleys). For manual handling, be sure to assess the weight of the panel prior to lifting and ensure that at least 2 people are used for any lifting manoeuvre.

Use correct lifting techniques at all times, including:

- Keep load close to you
- Back straight
- Bend your knees and use leg muscles
- Move your feet and never twist at the waist
- Establish stable footing

LuxeWall® Panel Module Weight Guide for Safe Lifting

Panel Thickness (mm)	EPS-FR		MW	
	50	75	50	75
Mass (kg/m²)	11.3	11.6	15.6	18.1
LuxeWall® 900 Module x 2400mm	24.4	25.1	33.7	39.0
LuxeWall® 900 Module x 3000mm	30.5	31.3	42.1	48.9
LuxeWall® 1200 Module x 2400mm	32.5	33.4	44.9	52.1
LuxeWall® 1200 Module x 3000mm	40.7	41.8	56.2	62.2

Note: This is a general guide only and weights may vary depending on thickness, length and material. LuxeWall® individual panel lengths are made to order 1200mm to 6500mm long.

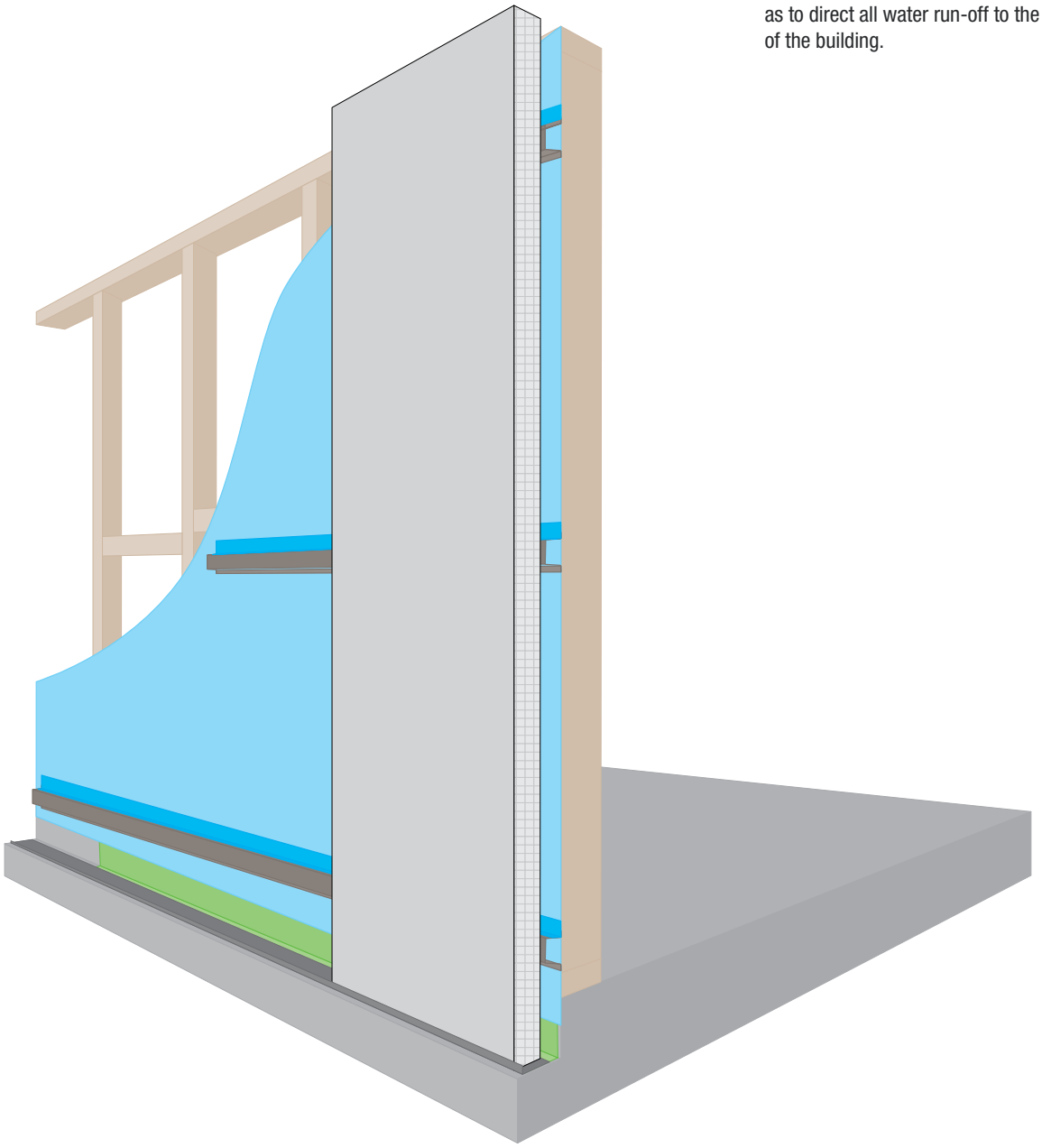
2.0 LuxeWall® Guidelines

2.1 Overview

The LuxeWall® exterior wall system is secured vertically to structural framing via horizontal steel top hat battens. Refer to the section titled “Steel Top Hat” for further information.

NOTE: The design and approval of the structural framing components is to be provided by the framing manufacturer and/or engineer. Principles that may affect the design include:

- Lateral Wind Loading. This load is transferred through the Top Hat Battens into the stud framing. The frame should therefore be designed to include all bracing and tie down requirement.
- Impact of the weight of suspended LuxeWall® wall panels on the framing. This is especially relevant for designs that include a second (upper storey).
- Where possible, details should be designed so as to direct all water run-off to the external face of the building.



Note: For illustration purposes only, see construction details for appropriate installation.

2.2 General Design Information

The design and construction must be compliant with the Australian National Construction Code (NCC) and other applicable regulations and standards. The Specifier is responsible that the details in this specification are appropriate for the intended application and that additional detailing is performed for specific design requirements or any areas that fall outside the scope of this specification.

The general steps for designing using LuxeWall® include:

- Determine Wind Category
- Stud framing layout
- Batten Spacing
- Fixing Details
- Panel Height requirements

2.3 Slab and Footings

The building slab and footings must comply with Australian Standards and the requirements of the National Construction Code (NCC).

The use of termite barriers and other pest controls as required by local council and building regulations should also be considered. It is the builder's responsibility to ensure compliance with the relevant standards. LuxeWall® panels are best suited to the exposed edge method of perimeter protection. AS 3660 can be referenced for further information.

2.4 Framing

The structural timber or steel frame shall be designed by the frame manufacturer and/or engineer. It is important that the framing members are straight and aligned with humps, bows and hollows identified using a straight edge and correct to ensure squareness. Framework must provide sufficient stiffness and strength to support the LuxeWall® panels. Refer to the "Handling and Storage" section for further information on panel weights.

Bondor® are not liable for any warping and thermal movement of LuxeWall® due to frame movement. It is important that a suitable vapour permeable wall wrap sarking is installed prior to the installation of the LuxeWall® system to ensure proper control of condensation and as a weather barrier. It is the builder's responsibility to ensure that the wall wrap chosen is suitable for the application.

2.4.1 Timber Framing

The use of timber framing must be in accordance with AS 1684 - 'Residential timber-framed construction' and the framing manufacturer's specifications. It is critical that only seasoned and treated timber is used to reduce frame and cladding movement and impact against termites and borers.

Timber studs must be straight and true and corrected from bowing, humps and hollows prior to installation of top hat battens.

2.4.2 Steel Framing

The use of steel framing must be in accordance with the NASH standard for Residential and Low-Rise Steel Framing Part 1: Design Criteria and the framing manufactures specifications. Framing members must have a base metal thickness (BMT) between 0.55 to 1.6mm. The steel framing must have the appropriate level of durability required to prevent corrosion.

2.5 Steel Top Hat Batten

This section provides basic information regarding the selection of Top Hat Batten spacing for various stud spacings and wind categories. The designer should utilise this information to determine the correct batten selection and wall configuration for their design. The information in Section 2.5.2 is designed around 40mm Steel Top Hat Battens 0.55mm BMT or equivalent. Top hat batten height selection (24mm, 40mm, 50mm) is based on window reveal size and projection from the frame as well as interfacing with other cladding products to be considered during the design phase.

2.5.1 Corner Panels

Wall corners experience additional wind loads compared to intermediate walls. As a result, additional top hats battens and fixings may be required on LuxeWall® corner panels.

Refer to the LuxeWall® top hat batten engineering tables for details on batten spacing across intermediate and wall corners.

LuxeWall® vertical pre-folded corners modules (900mm module) are available by special request to create a continuous exterior finish without the need for capping the corner.

LuxeWall® corner bends can be placed in the centre (450mm) or 100mm from the end of the panel. Note, additional fabrication charges will apply to each corner.

Alternatively, corners can be formed by mitring or butt joining two standard panels and capping with a flashing or angle.

For use of other types of steel top hat battens please refer to a Bondor representative and structural engineer.

NOTE: The design and approval of the structural steel or timber stud frame is to be provided by the frame manufacturer and/or engineer.

2.5.2 Tables

Wind Classification	Ultimate Wind Pressure (kPa)		Number of Top Hats Battens per Panel									
	Away from corners	Within 1200mm of corners	Wall Height (Panel length in vertical orientation) (mm)									
			≤2400		≤2700		≤3000		≤3300		≤6500	
			Panel Location		Panel Location		Panel Location		Panel Location		Panel Location	
			Typical	Corner	Typical	Corner	Typical	Corner	Typical	Corner	Typical	Corner
N1	+0.62, -0.53	-0.94	2	2	2	2	2	2	2	3	3	4
N2	+0.86, -0.74	-1.30	2	2	2	3	2	3	2	3	4	5
N3	+1.35, -1.16	-2.03	3	3	3	4	3	4	3	4	5	7
N4	+2.01, -1.72	-3.01	3	4	4	5	4	5	4	6	7	10

NOTES:
1. Batten spacing based on fixing strength and LuxeWall® span.
2. Batten must be checked separately for spans.
3. Wind speeds and coefficients based on AS 4055 - Wind Loads for Housing.
4. Wall pressure coefficients based on following assumptions:
   a) External Pressure Cpe = +0.7, -0.65
   b) Internal Pressure - Building has no dominant openings and more than one permeable wall or is effectively sealed. Cpi = +0.2, -0.3
   c) Local Pressure - kl = 2.0 for negative wall pressure within 1200mm of corners
   d) Combination Factor Kc = 0.9
   e) Wall away from corner - Cfig = +0.9, -0.765, Wall within 1200mm of corner Cfig = -1.35
5. Serviceability deflection limit of span/150 has been allowed for.
6. Top Hat Battens require 2 fixings per stud and LuxeWall® fixed at 300mm centres.
7. M6 RoofZips to be used to fix battens into LuxeWall® modules. .

2.6 Fixings

LuxeWall® panels are installed using a concealed fixing method, fixing from the inside face. All fixings are to be installed in accordance with the recommendations in this manual, as well as manufacturer's recommendations. For further information regarding fixings, refer to Section 4.3.

For engineering suitability, high performance RoofZips 25mm with neoprene washer is specified for top hat batten to LuxeWall® connections.

2.7 Penetrations

Penetrations through LuxeWall® are allowable. It is important to allow for differential movement between the panel and the service.

There is the risk of water ingress through any penetration that is made through LuxeWall®. Therefore, any such opening must be sealed with an external grade neutral-cured acoustic/fire rated paintable sealant.

Refer to the detail in the construction section of this manual for further information.

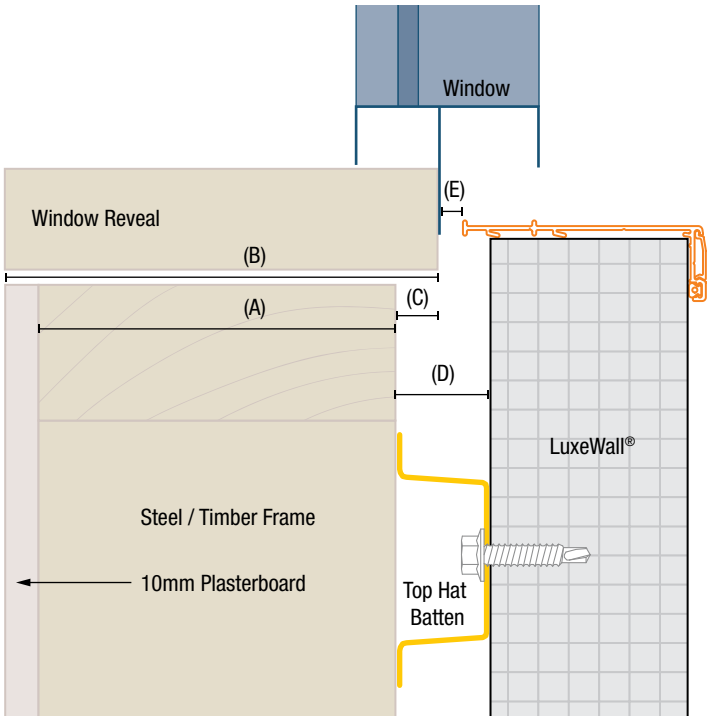
2.8 Windows

It is the builder's responsibility to ensure that the reveal is sized correctly to suit LuxeWall® and the intended application. The table should be used as a guide for common installation situations when used with aluminium framed windows and doors.

Frame Stud Size (A)	Standard Window Reveal (B)	Reveal projection off frame (C)	LuxeWall® Top Hat Batten Size (UniSmart Trim 10mm) (D)	Gap from Window Reveal to LuxeWall® Trim (E)
70mm	100mm	20mm	40mm	10mm
70mm	116mm	36mm	50mm*	4mm
75mm	100mm	15mm	40mm	15mm
75mm	116mm	31mm	50mm*	9mm
90mm	116mm	16mm	40mm	14mm
90mm	135mm	35mm	50mm*	5mm

Note: It is the builders responsibility to determine the correct top hat batten height with respect to window reveal size, frame, plasterboard and cavity as well as LuxeWall® trim 10mm projection into air cavity.

**Availability limited to certain regions, check with your local Bondor representative.*



3.0 Equipment List & Components

3.1 Safety

- General Personal Protective Equipment (PPE) including: cut resistant gloves, safety glasses and ear muffs

3.2 General Tools

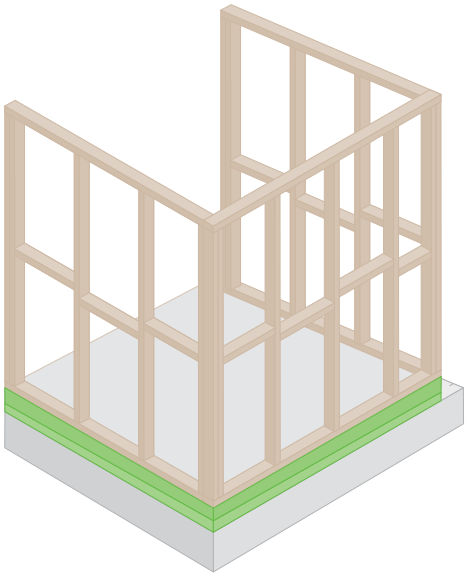
- 2 or 3 padded trestles
- Cold Cut Saw (48TH blade) or Bondor® Panel Saw
- Tungsten Carbide Hole cutter
- Level & Straight Edge
- Electric Drill/Driver & Screw Gun
- Collated Screw Gun for trim fasteners
- Step Ladder
- Chalk Line
- Portable Vacuum
- Rubber mallet and timber block

3.3 Components

- LuxeWall® Panels and corner modules
- Top Hat Battens
- Buildex M6 RoofZip screws 25mm or equivalent
- Polymeric Tape
- Bottom Capping (UniSmart or Colorbond®)
- Flashings
- Shelf Angles for upper storey
- Neutral cure sealants

4.0 Construction Overview Steps

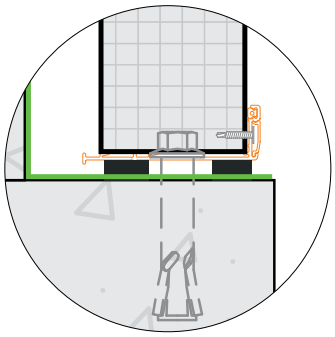
Step 1 - Frame and Damp Course



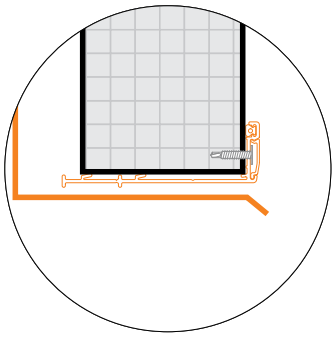
Select which Trim option you will use (1) UniSmart trims or (2) Colorbond® flashings. Decide whether LuxeWall® will be supported on slab or suspended off the frame as per the relevant drawing for details. Single story, Two storey and Two Storey additions are detailed in this guide.

Ensure the timber or steel stud frame is straight and aligned with severe humps and bows corrected for squareness prior to batten installation. Frames should be installed with appropriate damp proof course and termite barrier protection.

UniSmart Trim Panel Supported



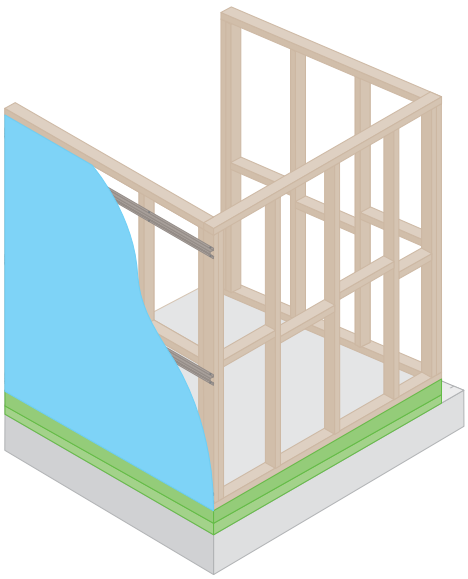
UniSmart Trim Panel Suspended



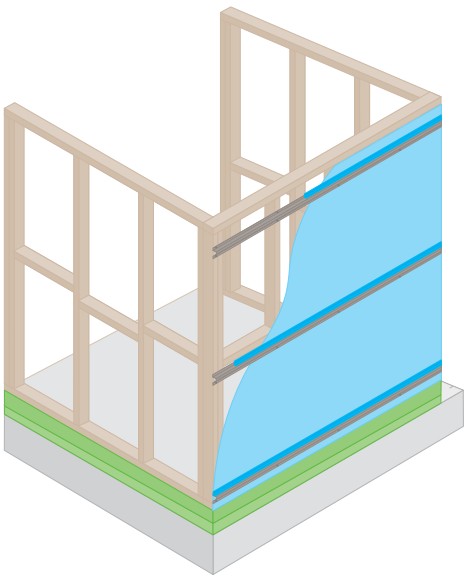
Note: Step 1 shows suspended panel with UniSmart Trim on immediately, when suspended the UniSmart Trim can go on after all other steps.

Step 2 - Wall Wrap and Batten Fixing

Install the Wall Wrap according to the Batten fixing option you will use, the preferred (1) Battens under wall wrap or (2) Battens over wall wrap. Refer to 4.5 for details.



Choose Battens Under or Battens Over Wall Wrap



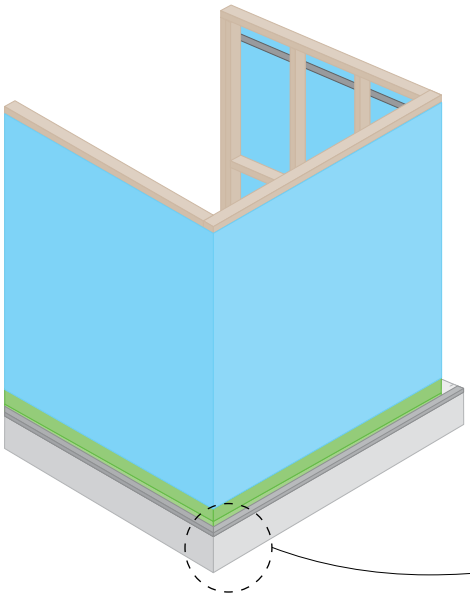
OPTION (1) - Top Hat Battens Under Wall Wrap

- Refer to engineering to determine Top Hat spacing
- Install with fixing spacing as per engineering
- Install with breaks in Top Hats at control joints

OPTION (2) - Top Hat Battens Over Wall Wrap

- Refer to engineering to determine Top Hat spacing
- Install with fixing spacing as per engineering
- Install with breaks in Top Hats at control joints
- Apply sealing tape from Wall Wrap to the top face of the Top Hat Batten

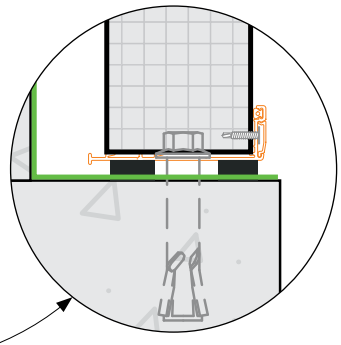
Step 3 - Base channel (on slab / supported option only)



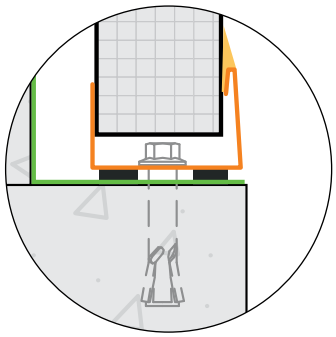
For Panel Supported installations, install the selected base option as per the details in this guide. See the relevant Panel Suspended, Two Storey and Two Storey additions sections for further details.

- Apply polymeric separation tape at intervals to underside of base channel
- Anchor base channel using masonry anchors as per engineer's specification

UniSmart Trim

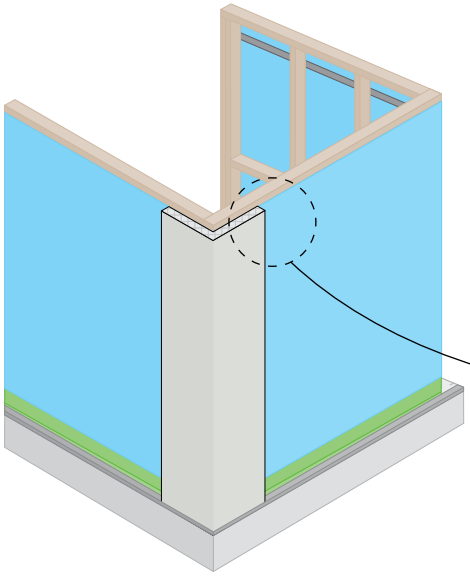


Colorbond® Flashings

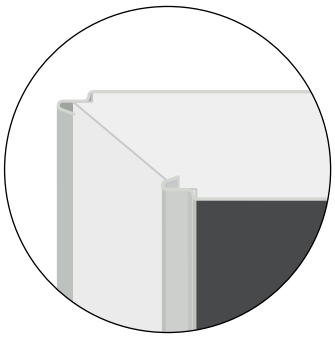


Step 4 - LuxeWall® installation

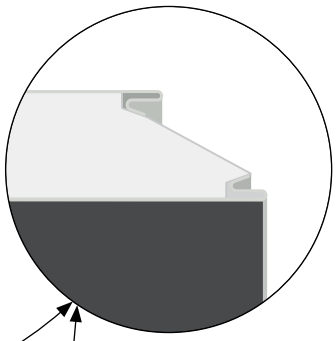
Start from the first corner when using LuxeWall® prefabricated corner modules.

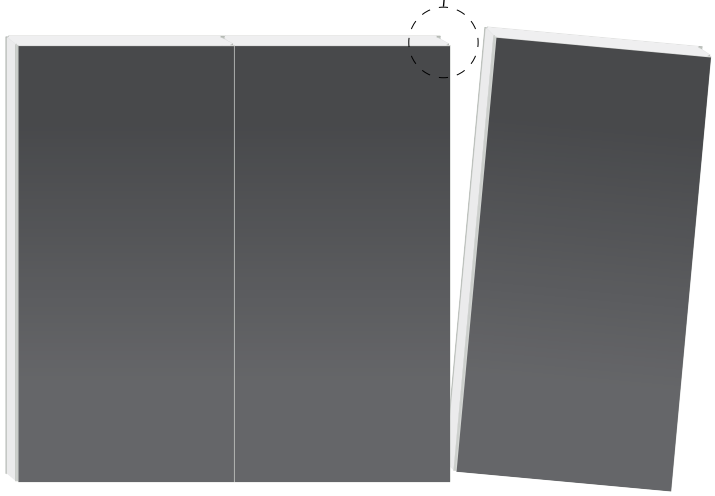


LuxeWall® Male End



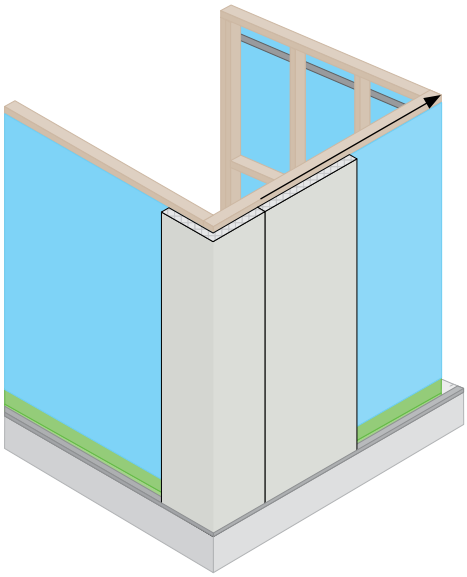
LuxeWall® Female End





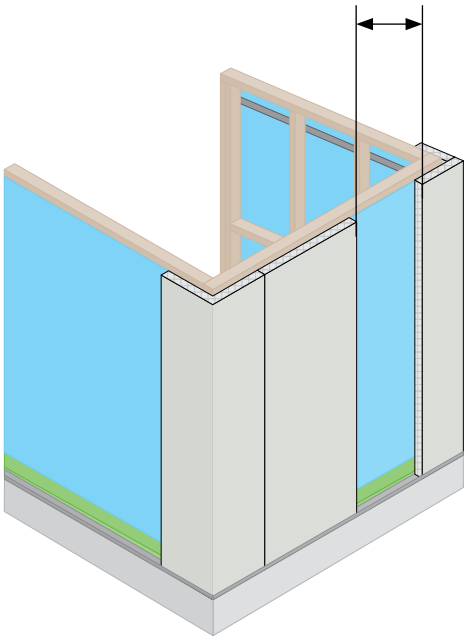
- Install LuxeWall® corner panels first, and work out from corners
- Panels inserted into base channel
- Panels should be inserted on an angle, with the bottom corner fitting in to the previous panel joint. Then angle the top corner into position, ensuring the joint is flush from top to bottom.
- Secure from inside face into panel as per engineering

Step 5 - Install panels from Female End



- Start installation with a LuxeWall® corner module and the female join pointing towards the direction of lay. Install subsequent LuxeWall® panels inserting the male join back into the female join. Install each panel at a slight angle tipping back. Engage the male join at 150mm high on the female join and push into position with a reasonable tight join (up to 2mm).

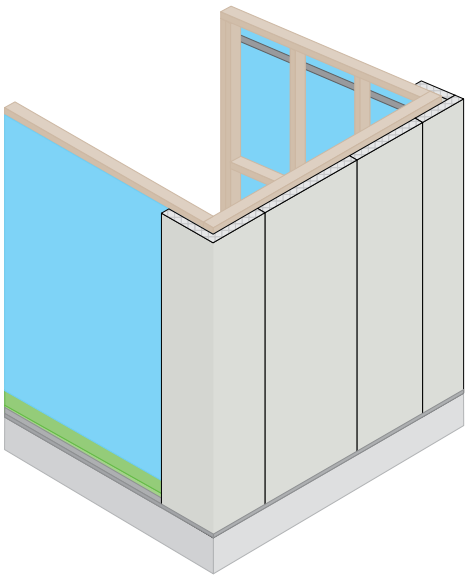
Step 6 - Install next corner



- Prior to the last panel before the corner, check measure and determine corner and last panel will install without the need for trimming.
- Openings and penetration in LuxeWall® should be prepped on padded trestles prior to installation.

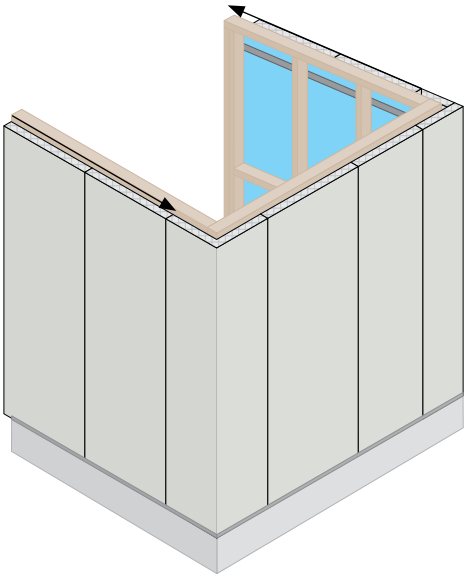
Note: LuxeWall® panels have two pre-finished sides. The installer must be certain the exterior finish is facing outwards prior to installation.

Step 7 - Cut panel to size (if required)



- Cut the panel using the measurement from Step 6.
- Install the panel Female End first and adjust onto the corner panel

Step 8 - Complete remaining panels and corners

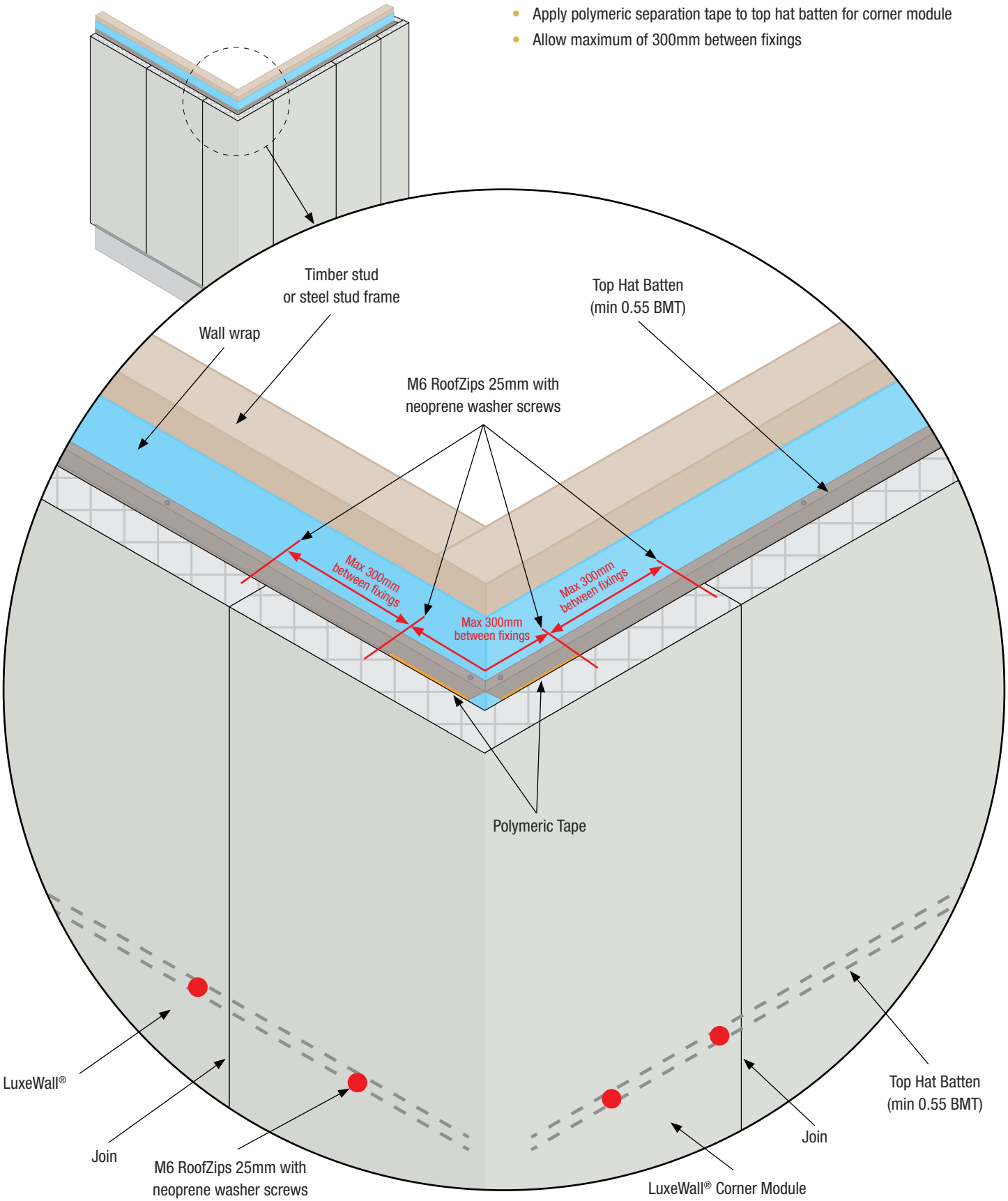


- Continue this method for the remaining panels and corners.

4.1 Corner Detail - Even Widths

For corner installations, a maximum of 300mm is allowed between corner fixings. Ensure you add Polymeric tape, suitable for steel applications, to reduce movement (not for structural support).

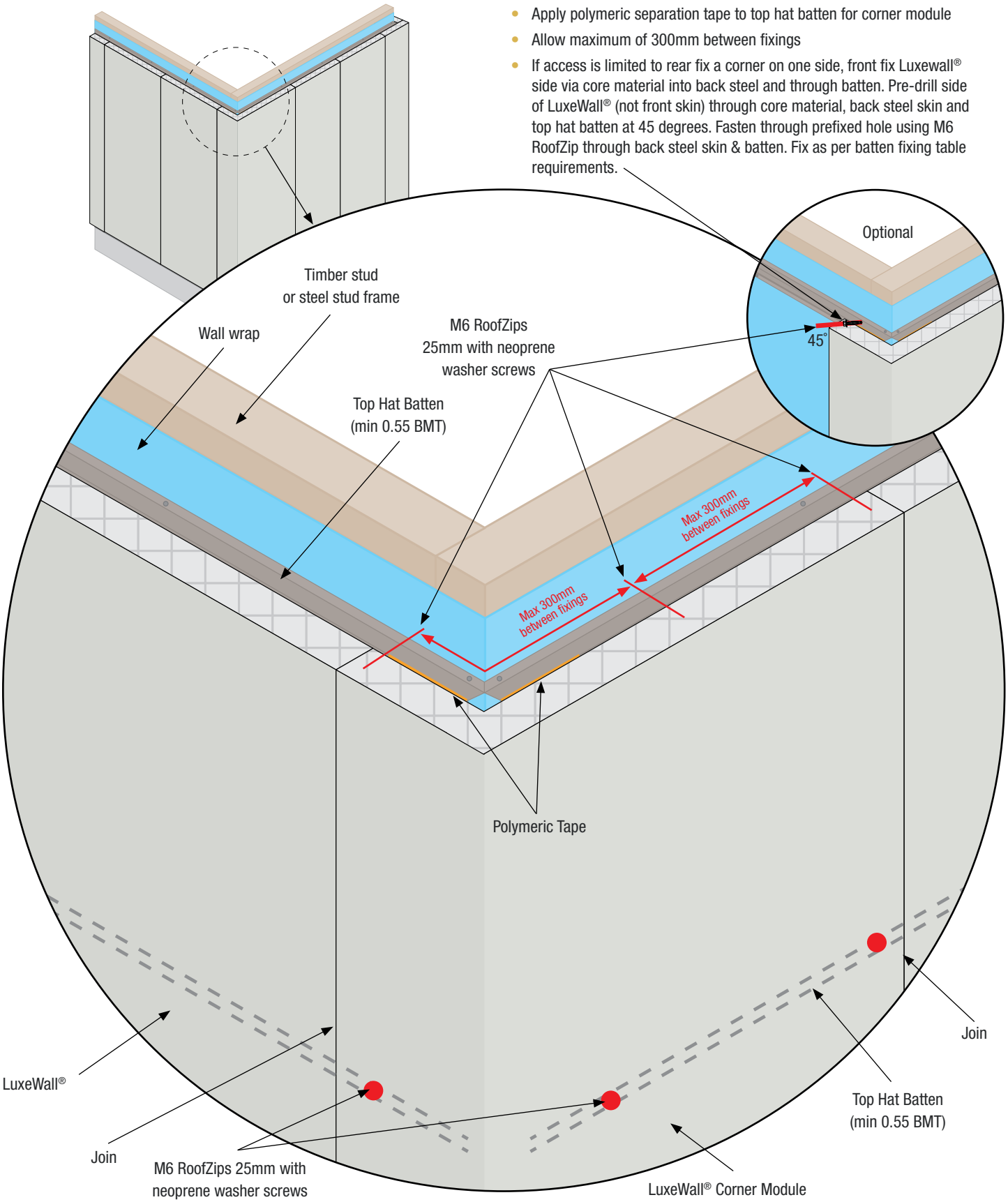
- Apply polymeric separation tape to top hat batten for corner module
- Allow maximum of 300mm between fixings



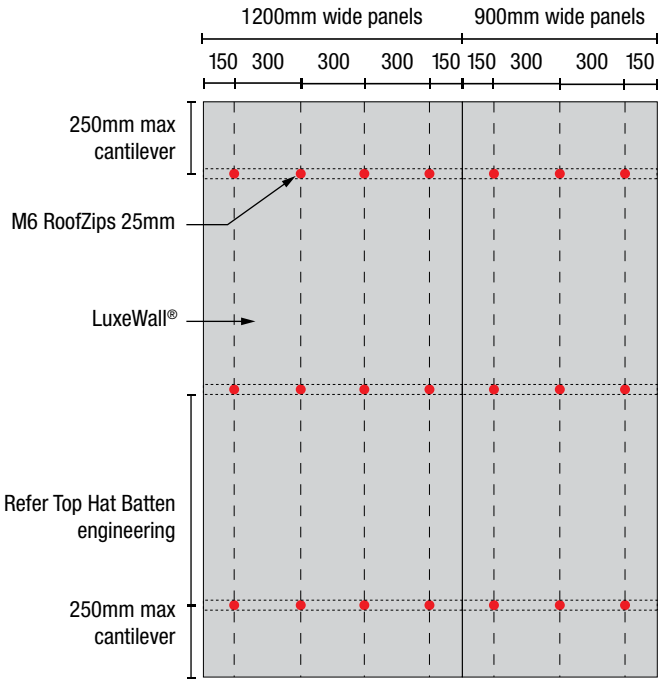
4.2 Corner Detail - Uneven Widths

For corner installations, a maximum of 300mm is allowed between corner fixings. Ensure you add Polymeric tape, suitable for steel applications, to reduce movement (not for structural support).

- Apply polymeric separation tape to top hat batten for corner module
- Allow maximum of 300mm between fixings
- If access is limited to rear fix a corner on one side, front fix Luxewall® side via core material into back steel and through batten. Pre-drill side of LuxeWall® (not front skin) through core material, back steel skin and top hat batten at 45 degrees. Fasten through prefixed hole using M6 RoofZip through back steel skin & batten. Fix as per batten fixing table requirements.

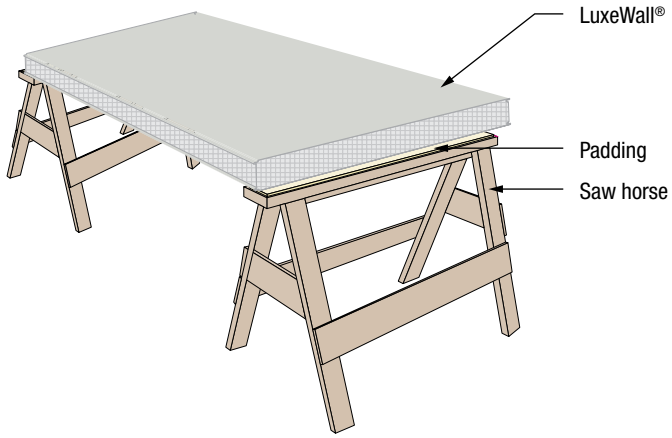


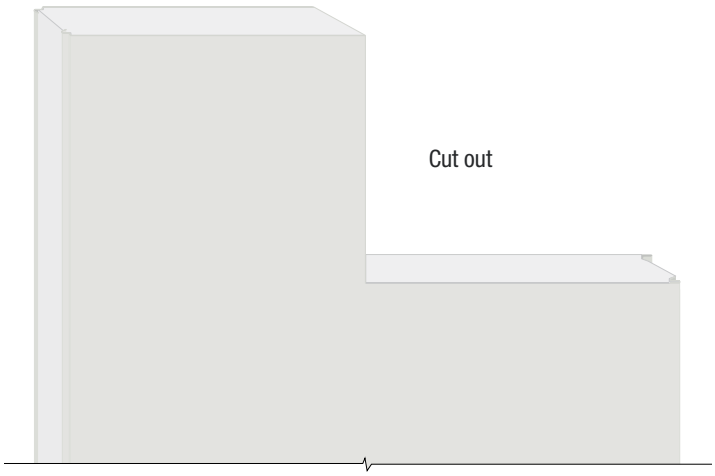
4.3 Fixing Layout - Elevation



4.4 Cutting and Preparation of Panels

1. To accommodate for windows and doors, or for a sloping design, it may be necessary to cut LuxeWall® panels to size on site. Ensure that the correct PPE is used at all times when cutting LuxeWall®.
2. Position two saw horses as shown, ensuring that the top face is padded with a soft material or foam, so as not to scratch the panel
3. Refer to the Handling section for directions on how to safely lift LuxeWall®, and place the panels on the saw horses, exterior face downward.
4. Mark the cut location as required from the inside
5. Carefully peel away any plastic protective film from the panel in the area to be cut
6. Use a metal cold-cut saw to cut the panel, cutting through the entire depth of the panel at once. Be sure to support the offcut piece of the panel using a clamp or similar to prevent it from dropping.
7. De-burr the cut edge using a de-burring tool if cut using a cold-cut saw

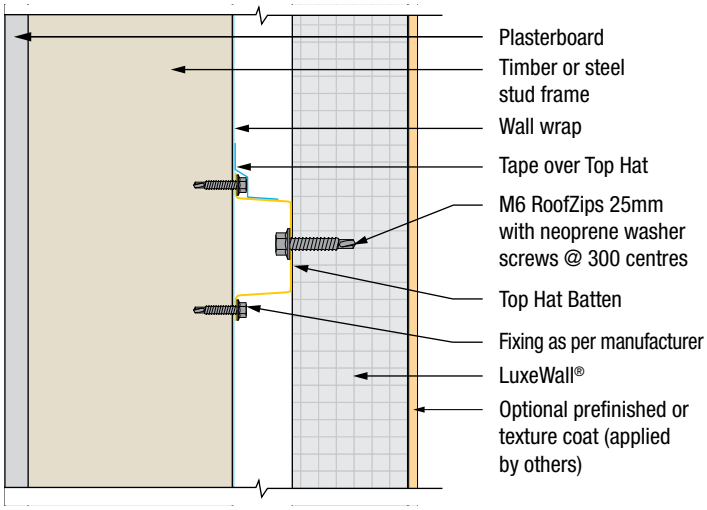


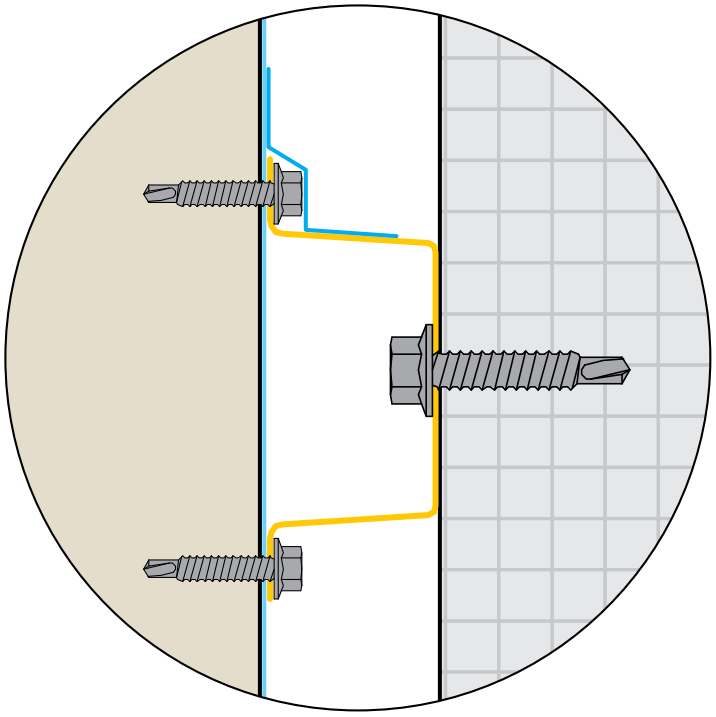


4.5 Fixing Battens & Wall Wrap

Top Hat Batten over Wall Wrap

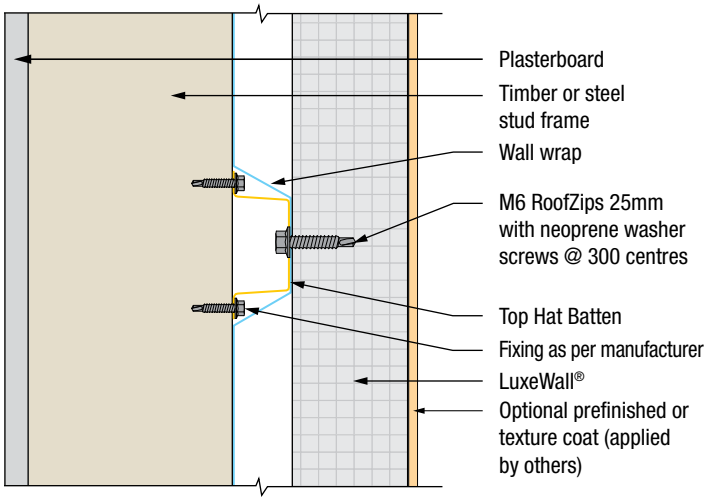
Fixings between Top Hat Battens and LuxeWall® are to be M6 RoofZips 25mm screws @ 300mm centres. These are to be fastened into the reverse side of the LuxeWall® through the Batten. The framing manufacturer and/or engineer is responsible for specification of fixings between Top Hat Battens and any framing. Apply wall wrap tape from the wrap to top face of batten.

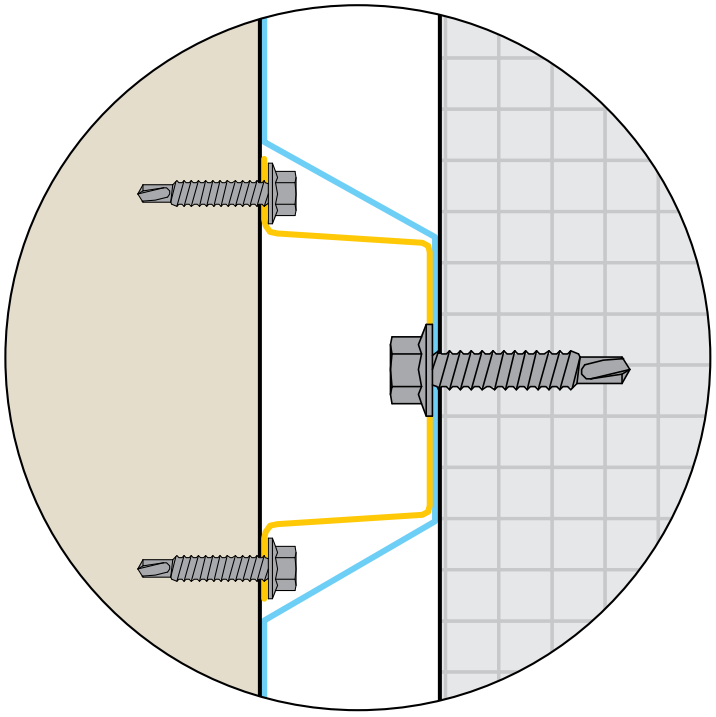




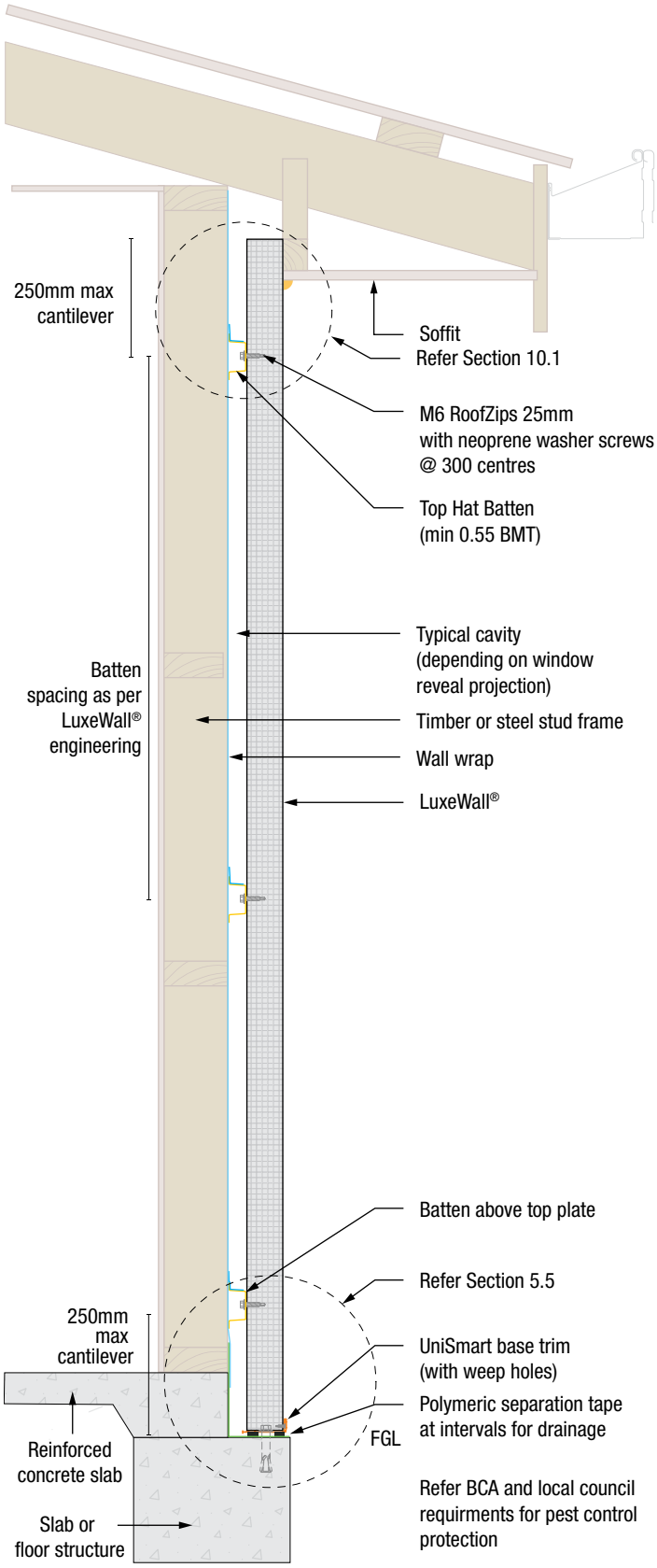
Wall Wrap over Top Hat Batten

Fixings between Top Hat Battens and LuxeWall® are to be M6 RoofZips 25mm screws @ 300mm centres. These are to be fastened into the reverse side of the LuxeWall® through the Batten. The framing manufacturer and/or engineer is responsible for specification of fixings between Top Hat Battens and any framing.





5.1 Single Storey - Panel supported at base



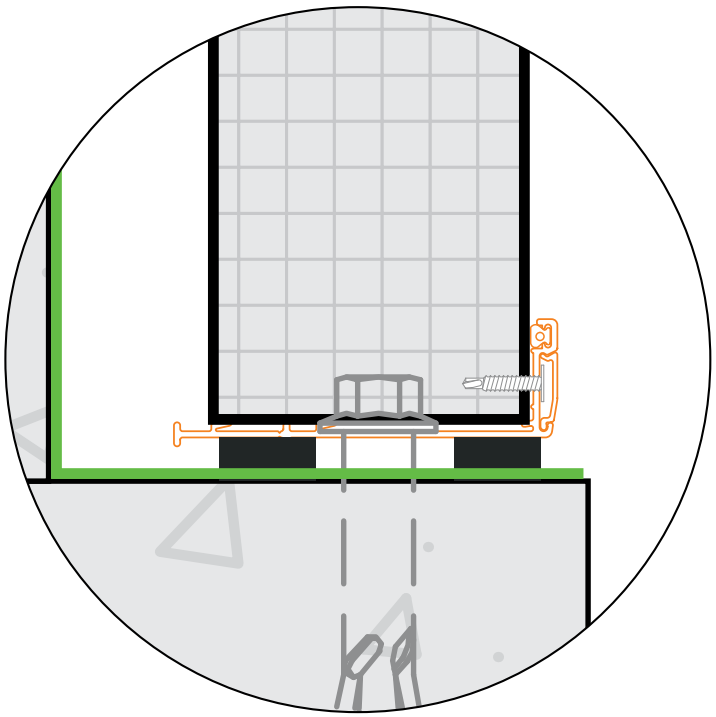
There are two installation methods for LuxeWall®.

Option 1: UniSmart Trim.

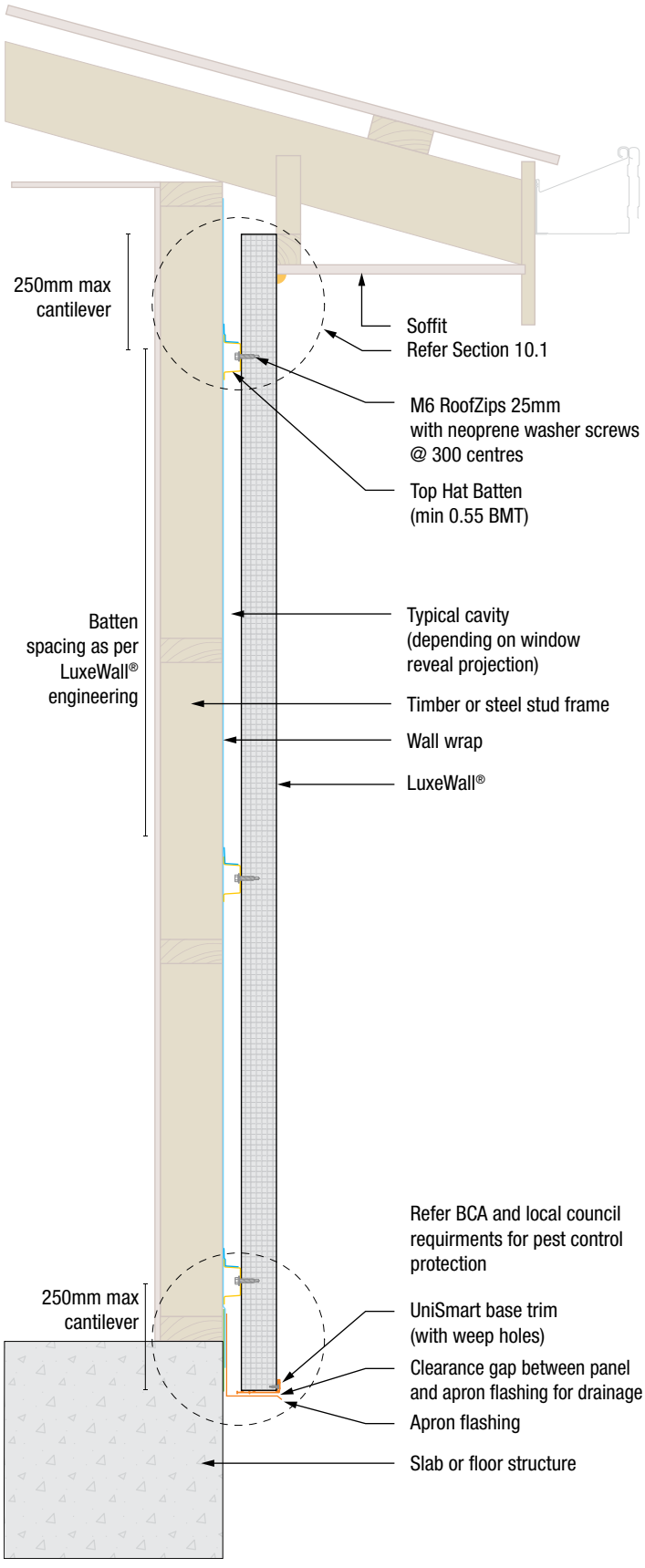
An innovative aluminium capping with inbuilt seal and hidden fasteners. A universal design for windows, doors and panel joins creates a seamless appearance. This premium option creates a striking and unique visual.

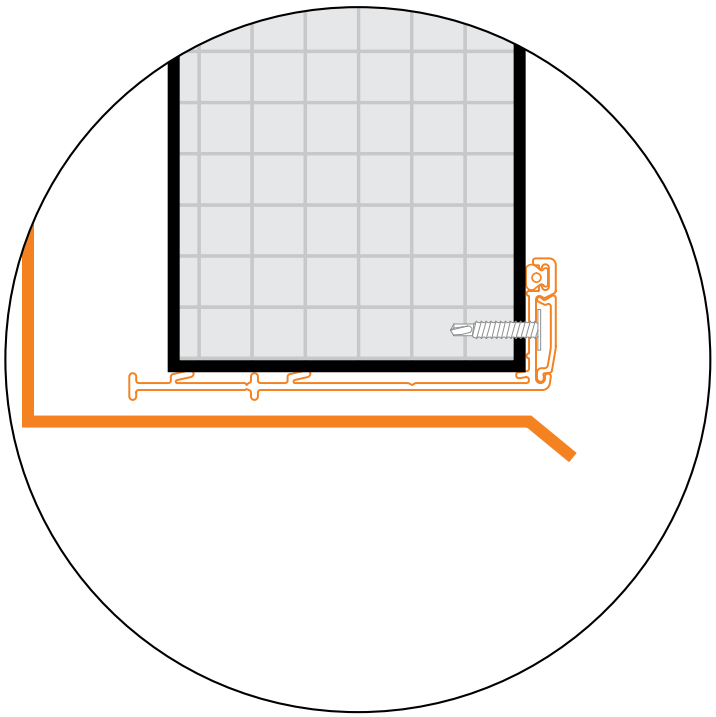
Option 2: Colorbond® Trim.

With the renowned durability of Colorbond® Steel, this option provides a sleek and long lasting solution to your LuxeWall® build.

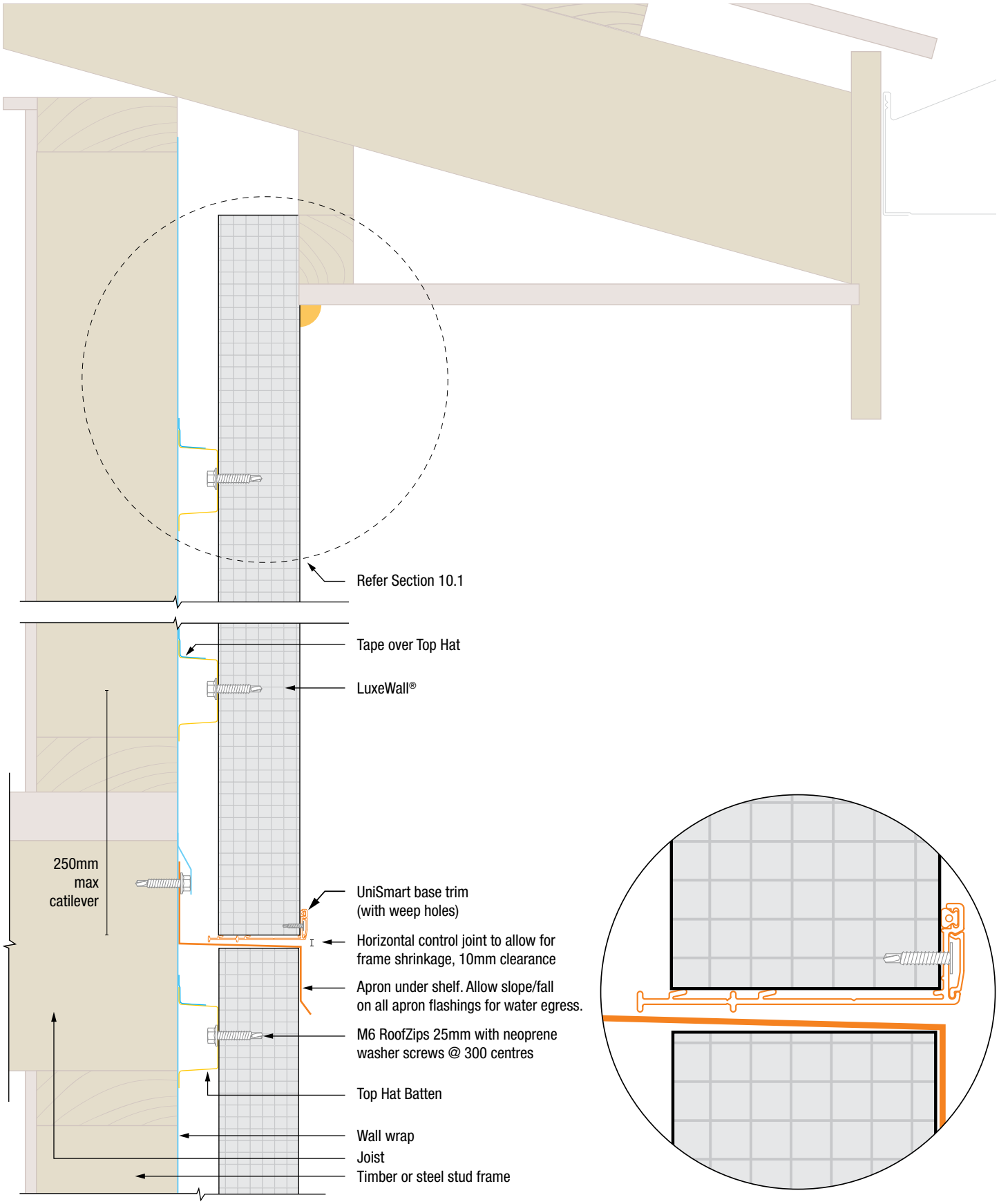


5.2 Single Storey - Panel suspended

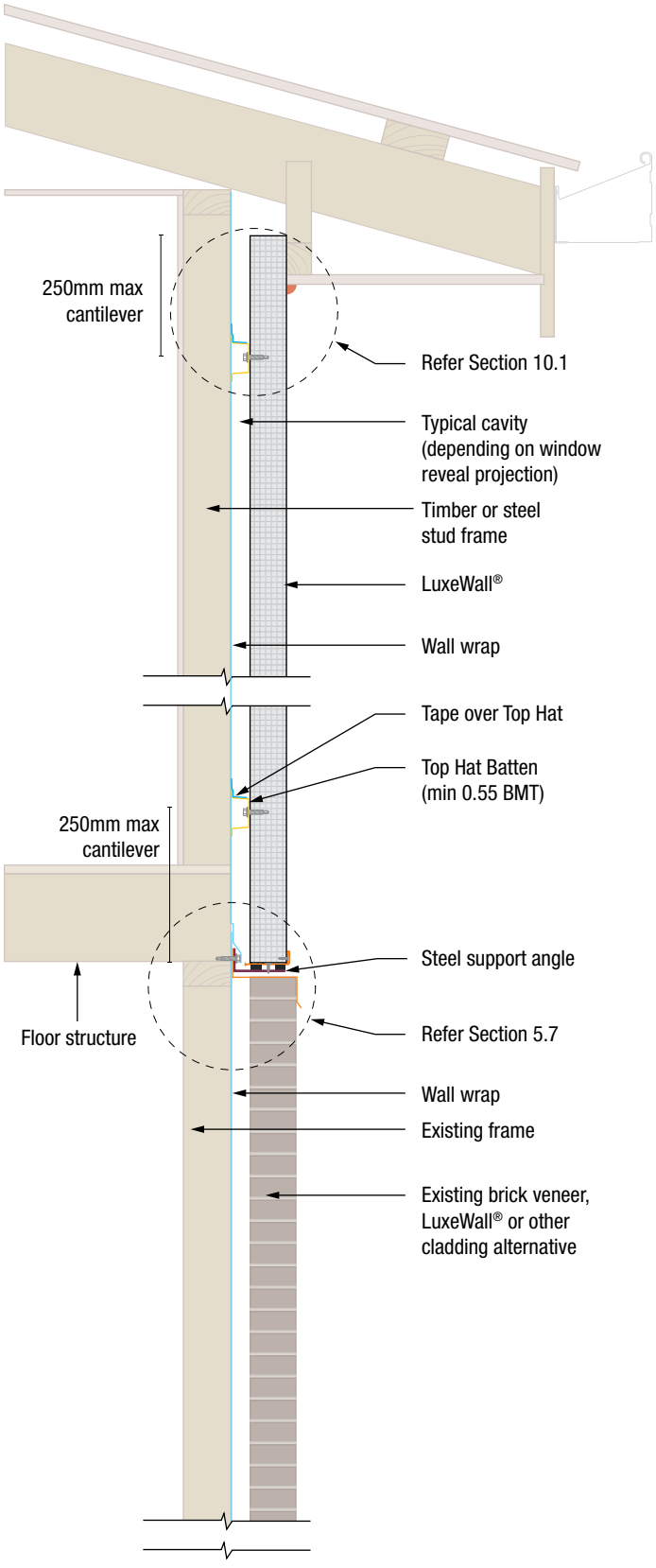


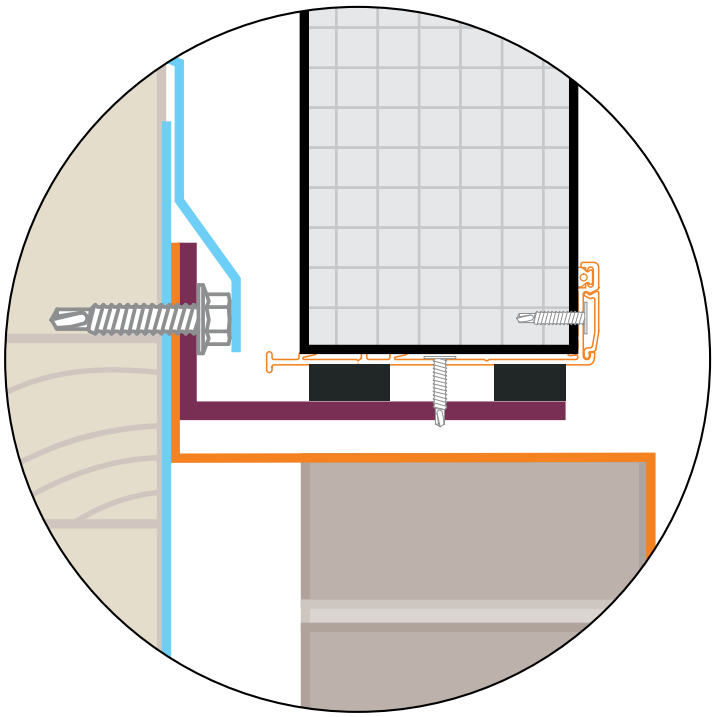


5.3 Two Storey Construction with Capping Cover & Clip

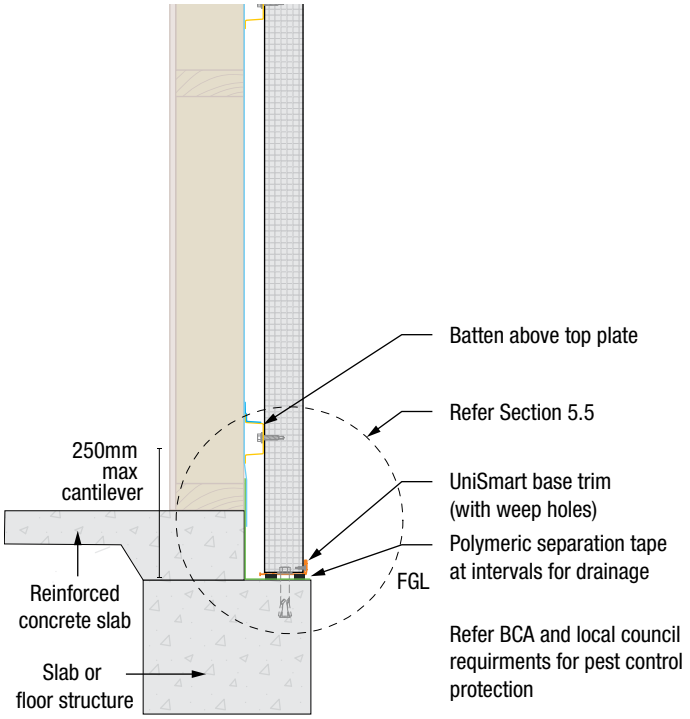


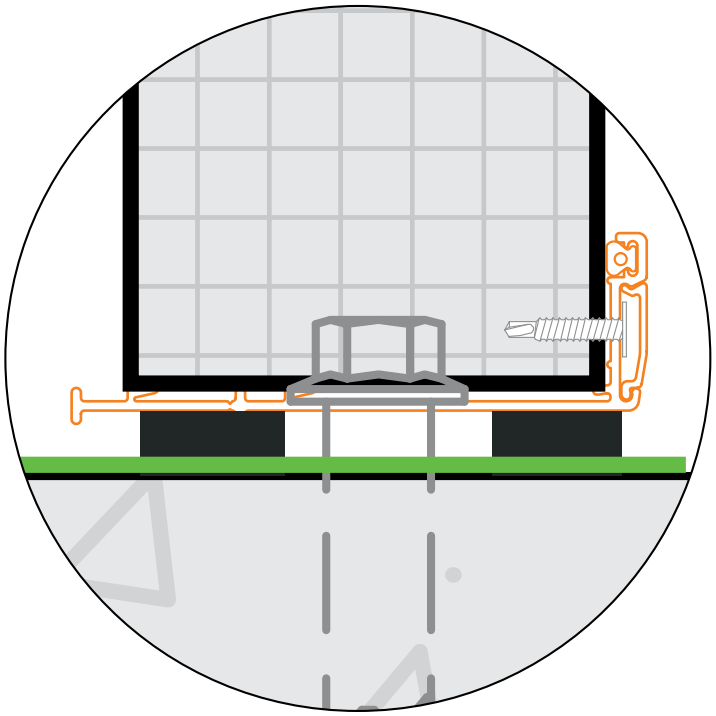
5.4 Two Storey Addition with Capping Cover & Clip



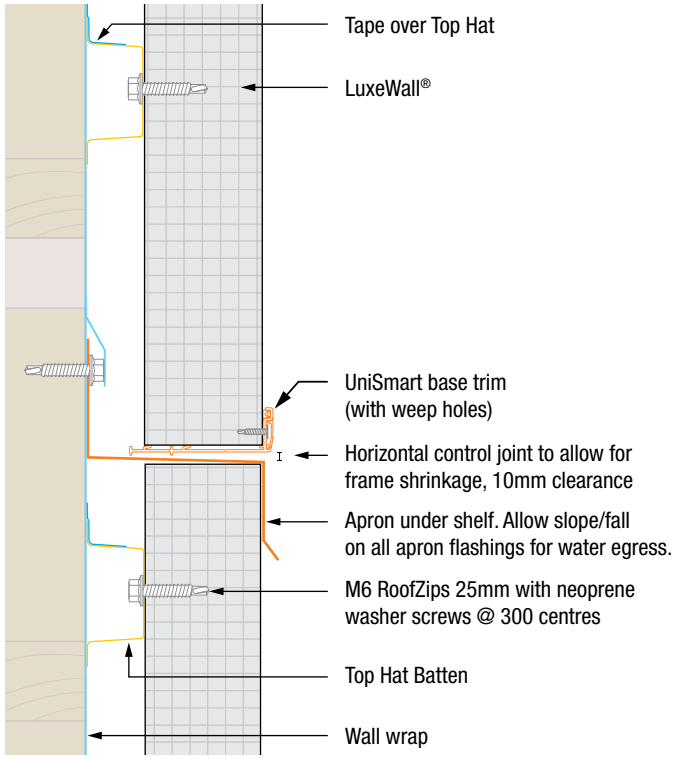


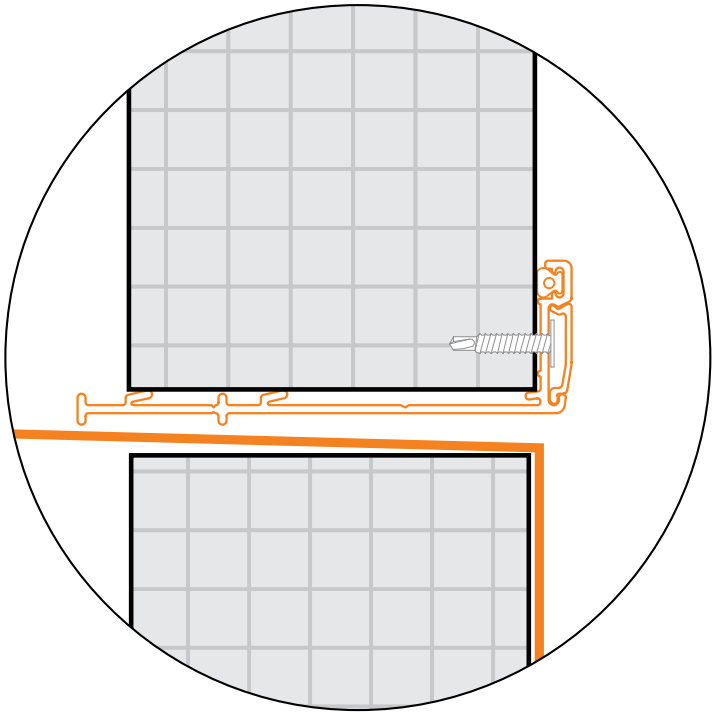
5.5 Single Storey Footing Junction



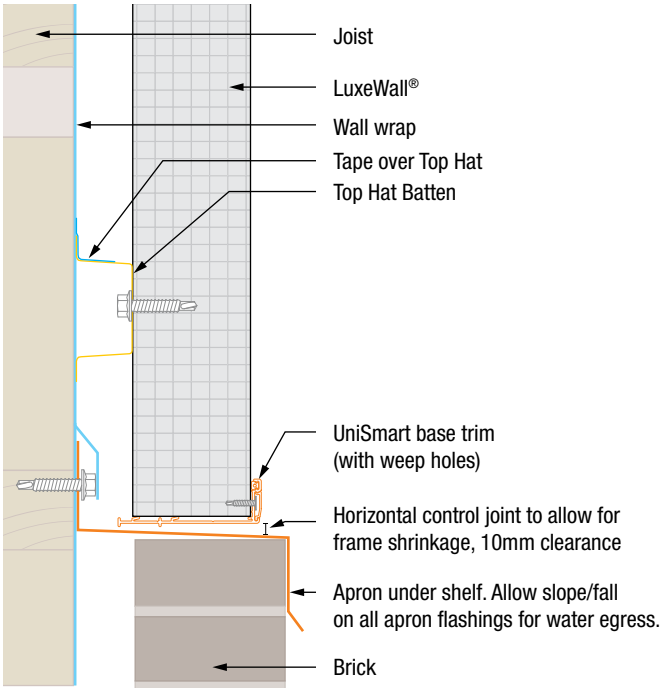


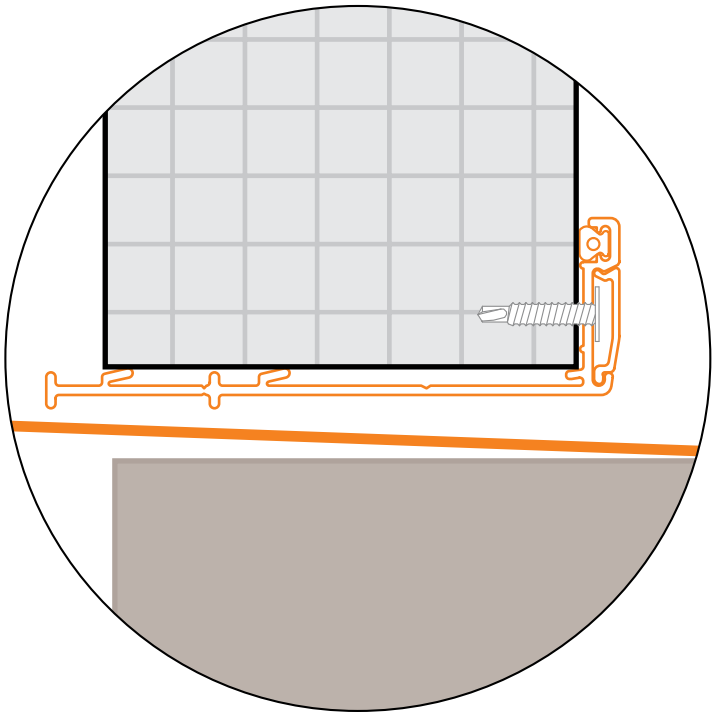
5.6 Two Storey Junction





5.7 Two Storey Addition

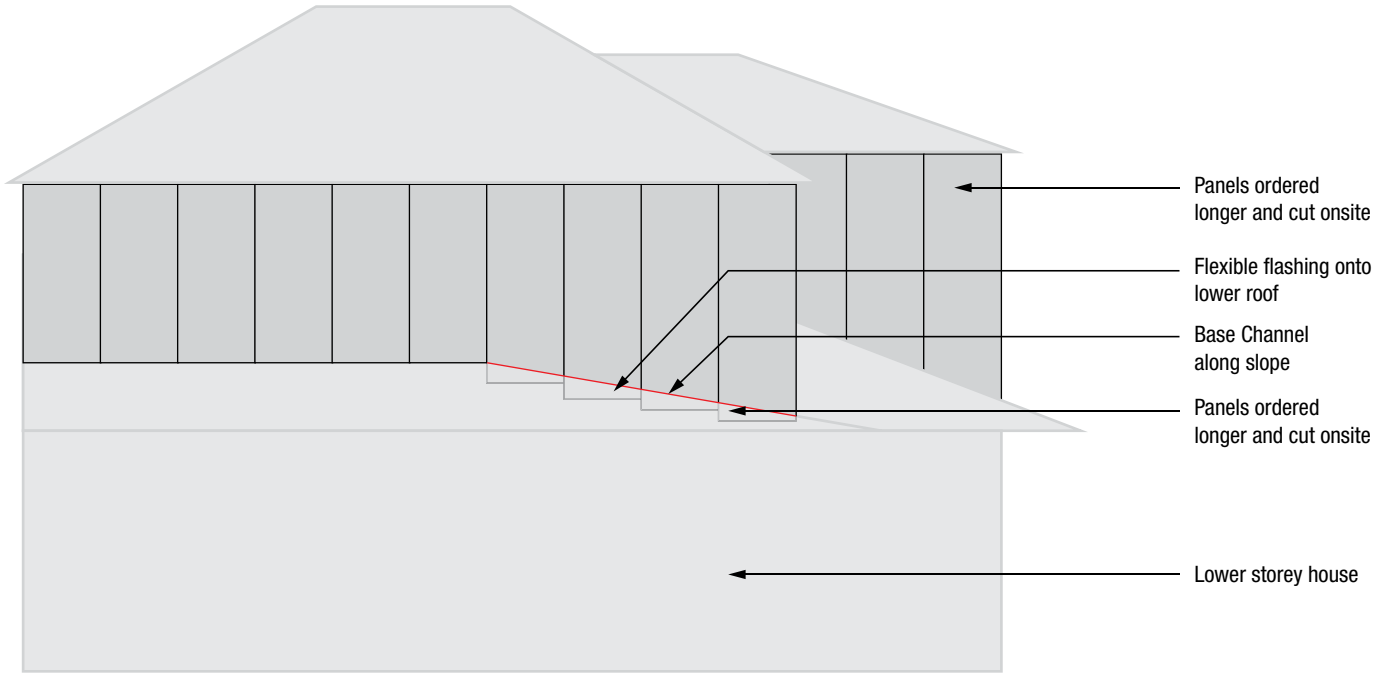


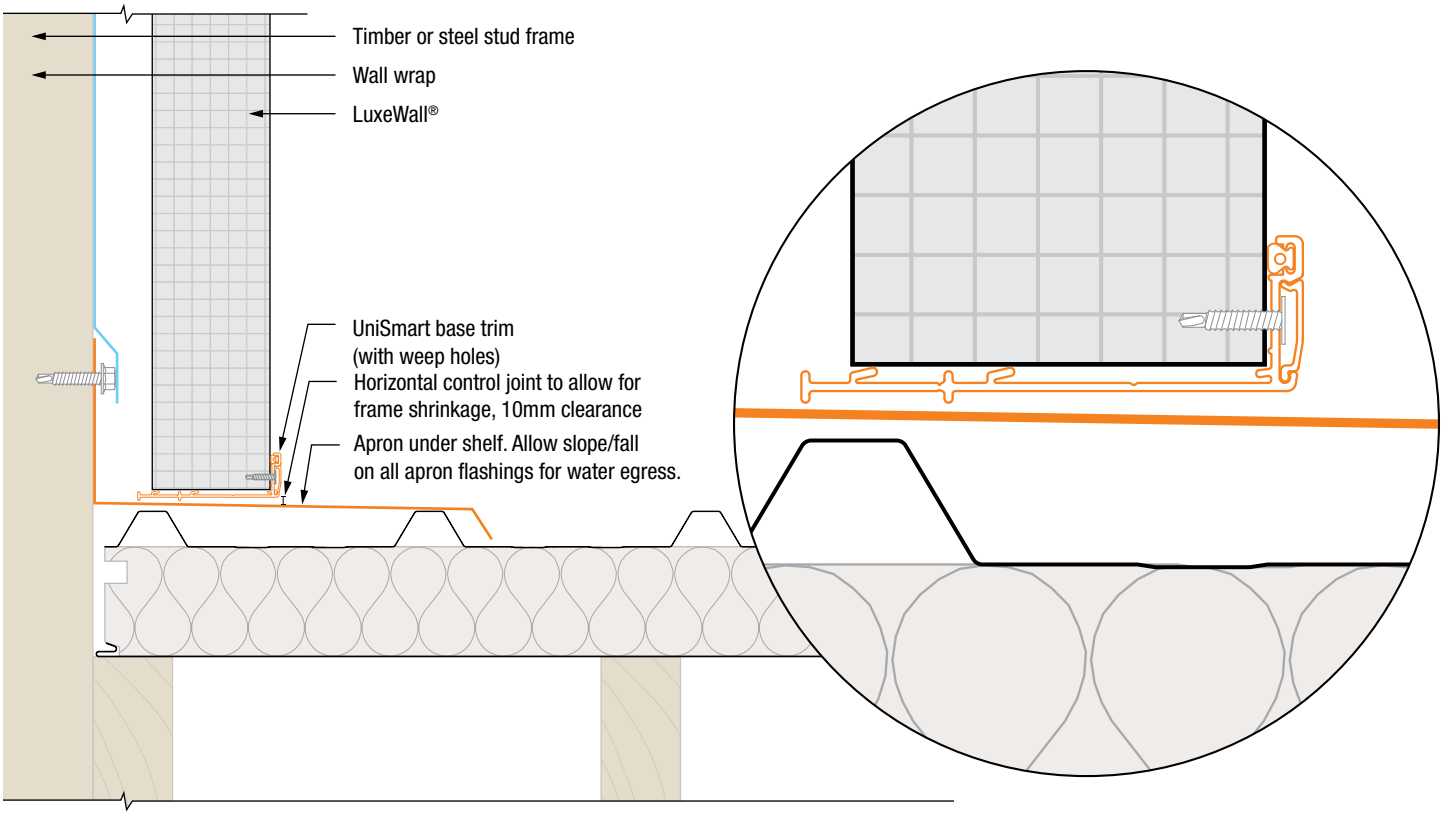


5.8 UniSmart Base Capping Detail

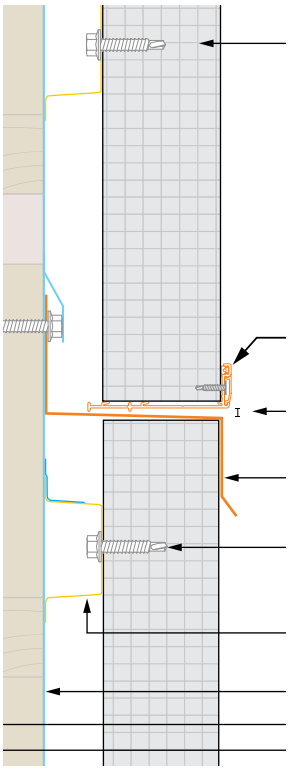
The UniSmart cap for LuxeWall® creates a streamlined and luxury appearance to match the LuxeWall® panel. Featuring an innovative inbuilt seal, the UniSmart cap offers the ultimate solution to weatherproofing the LuxeWall® construction. A clip-in cover maintains the streamlined appearance, hiding the fixings. Designed to be a universal fitting, the UniSmart cap can be used as a window sill, jamb and header, as well as a base capping and expansion joint solution. The UniSmart capping has been designed to accommodate both 50mm and 75mm LuxeWall, featuring a 'break-away' section to suit the thinner panel.

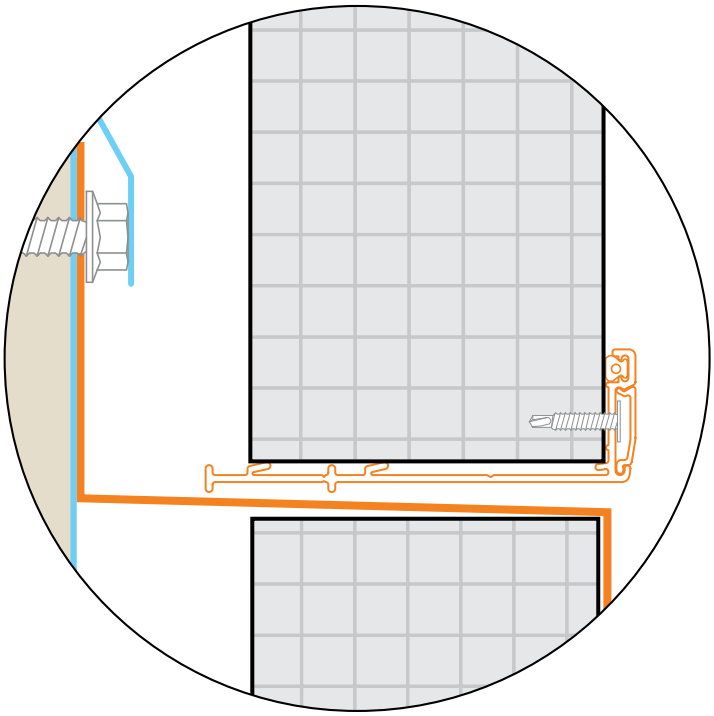
5.9 LuxeWall® to Lower Roof



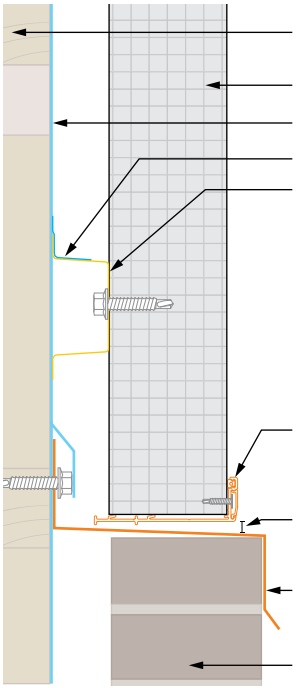


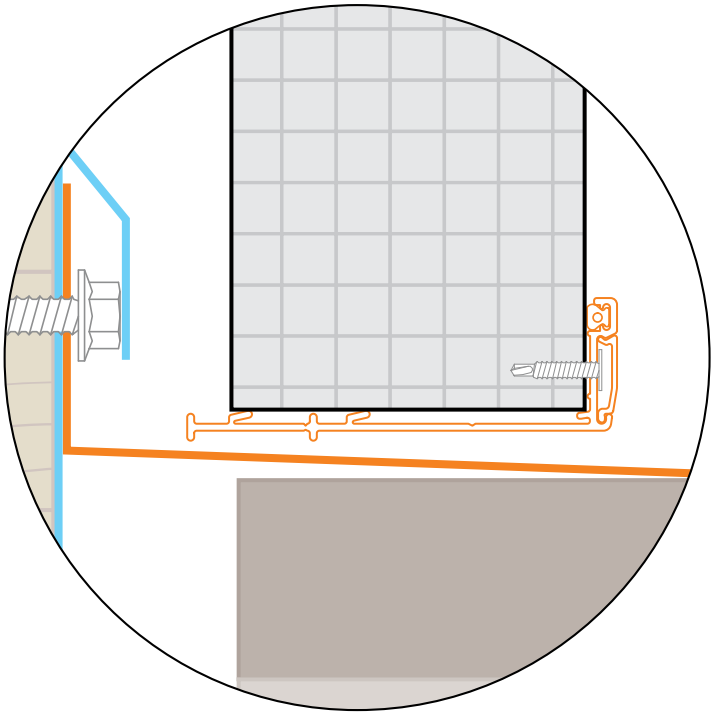
5.10 Single Storey Horizontal Control Joint



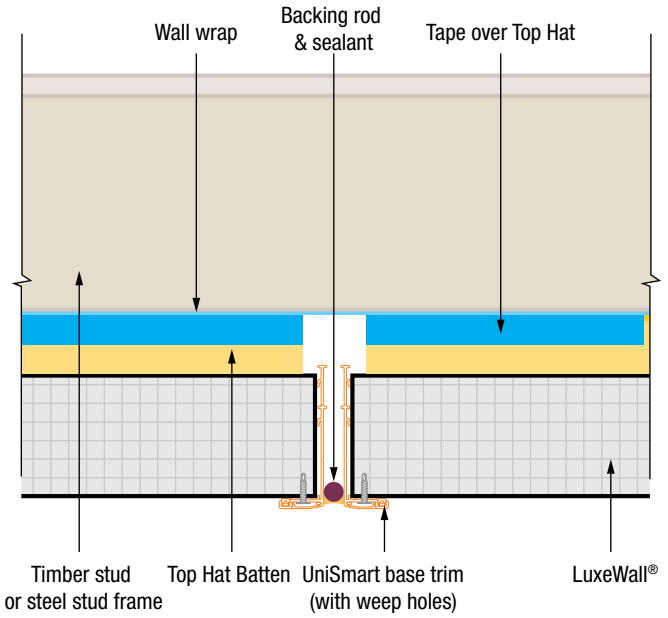


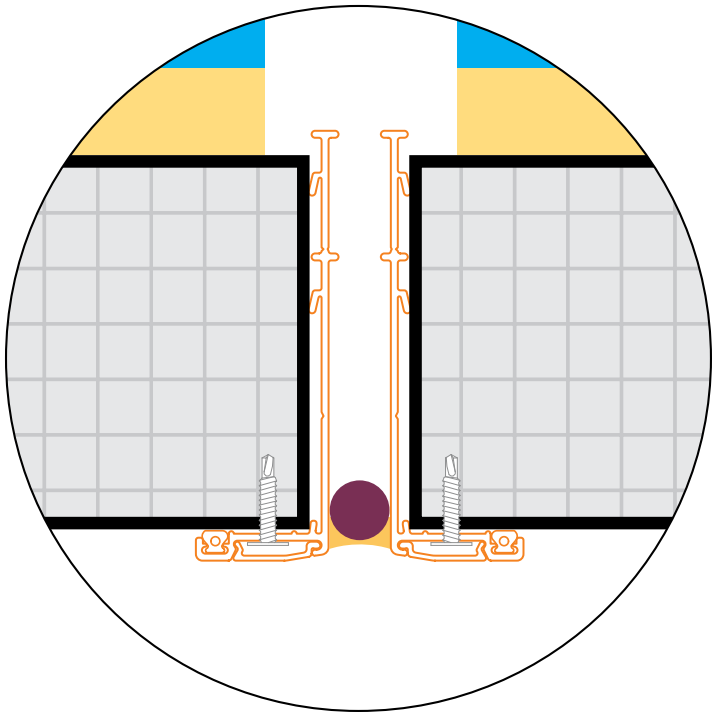
5.11 Two Storey Horizontal Control Joint





5.12 Vertical Control Joint

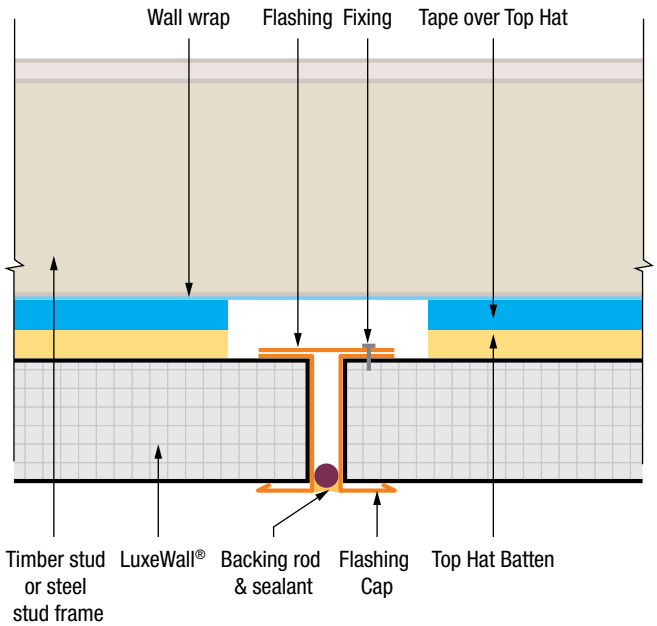




NOTE: Colorbond® trims and flashings can also be used as detailed below in 5.12.1 and 5.12.2. See page 38 for more details.

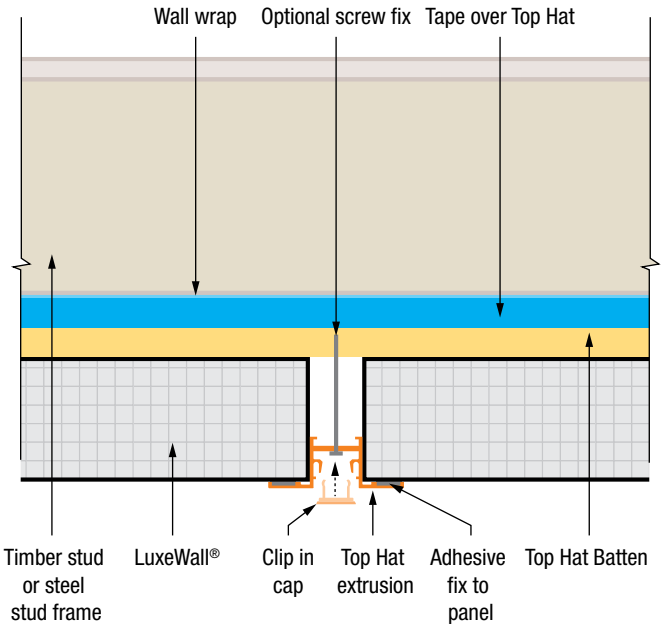
5.12.1 Vertical Control Joint - Option 1

For use with texture coating every 5m.



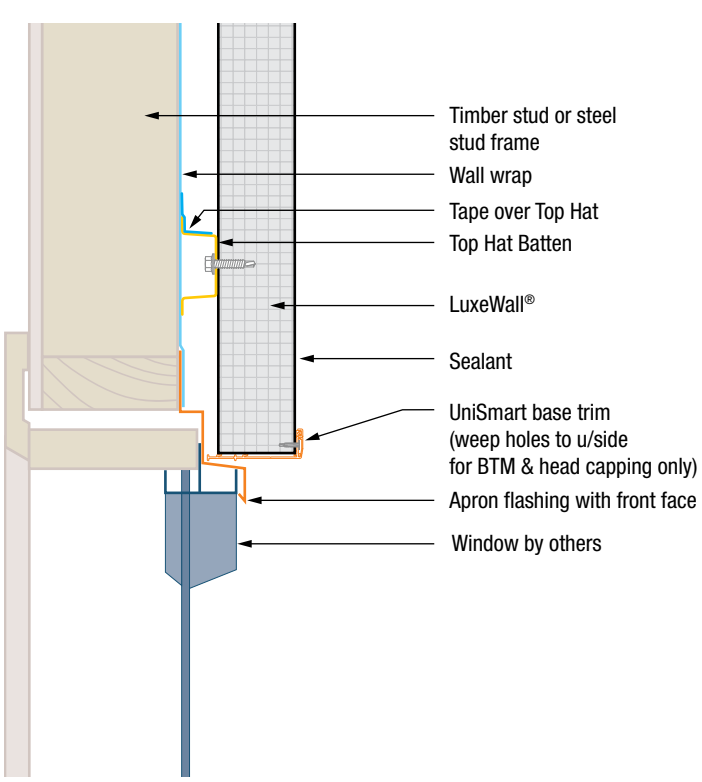
5.12.2 Vertical Control Joint - Option 2

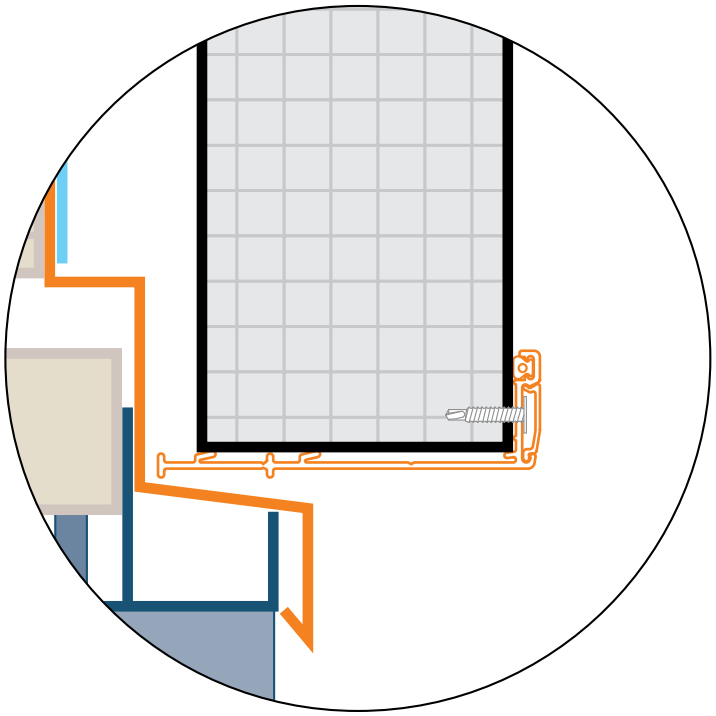
For use where odd size panels are used, e.g. towards a corner.



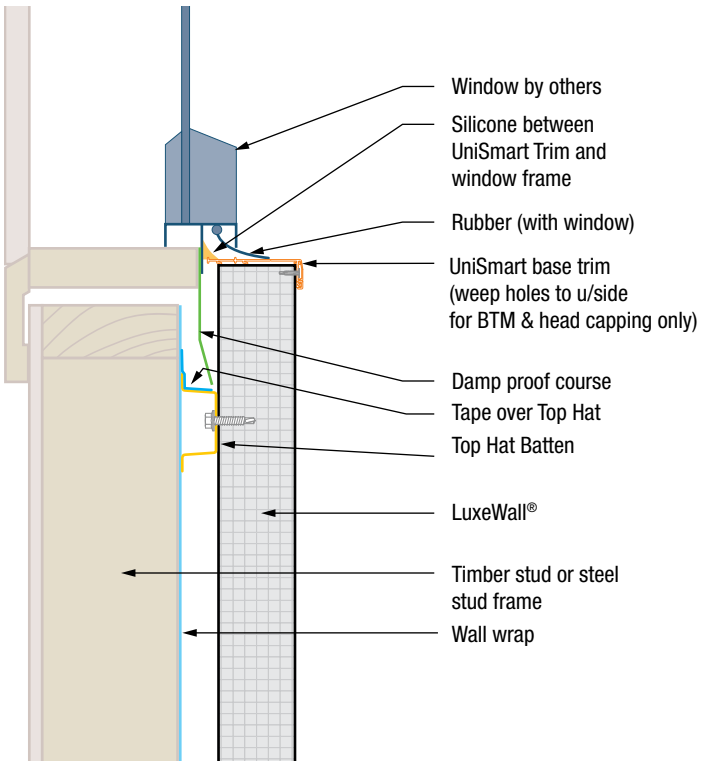
5.13 Door & Window Detail

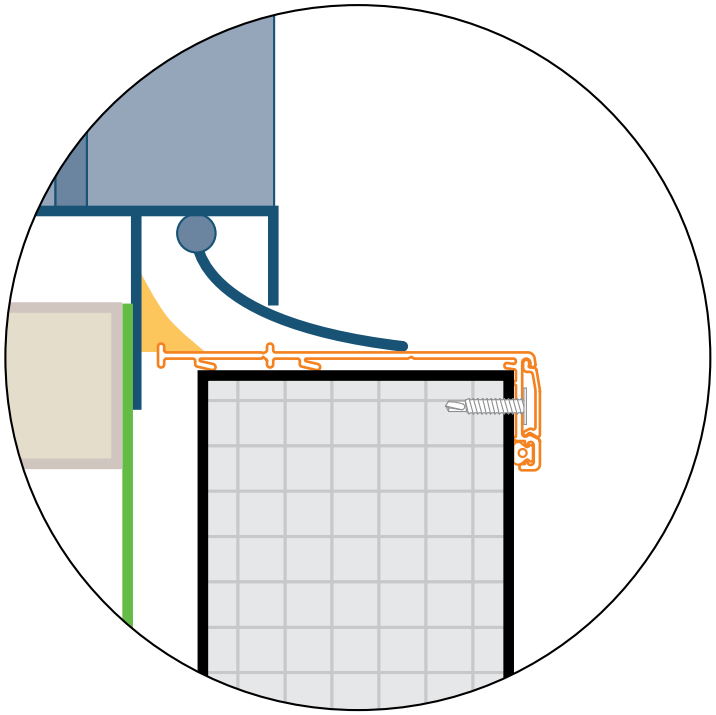
Typical Header Detail





Typical Sill Detail

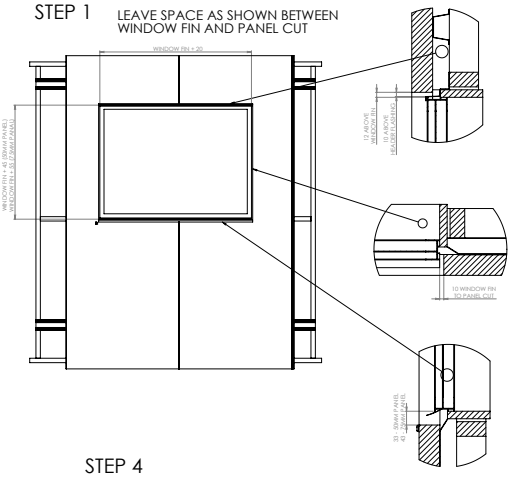




5.13 Door & Window Detail

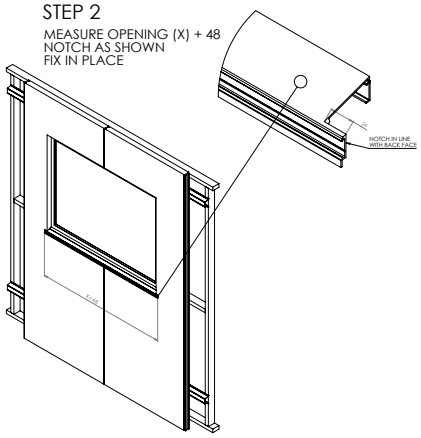
STEP 1

LEAVE SPACE AS SHOWN BETWEEN WINDOW FIN AND PANEL CUT



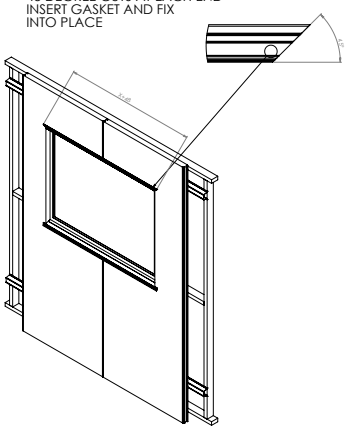
STEP 2

MEASURE OPENING (X) + 48
NOTCH AS SHOWN
FIX IN PLACE



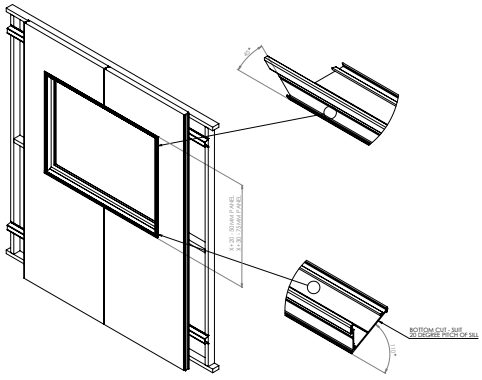
STEP 3

MEASURE OPENING (X) + 48
45 DEGREE CUTS AT EACH END
INSERT GASKET AND FIX
INTO PLACE



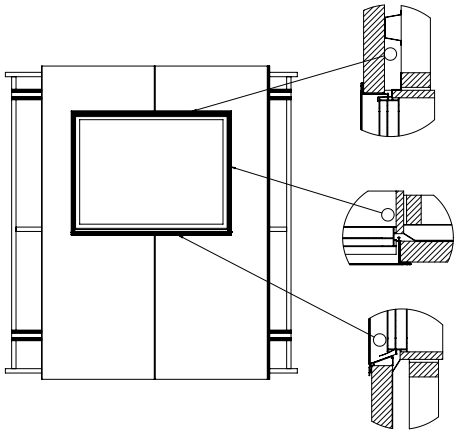
STEP 4

MEASURE OPENING (X) + 20 (50MM PANEL)
(X) + 30 (75MM PANEL)
MITRE AS SHOWN
INSERT GASKET AND FIX INTO PLACE



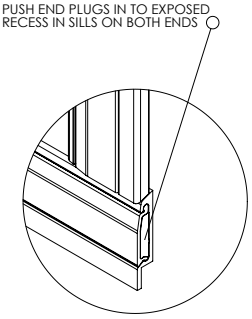
STEP 5

MITRE COVERS AND CLIP INTO PLACE



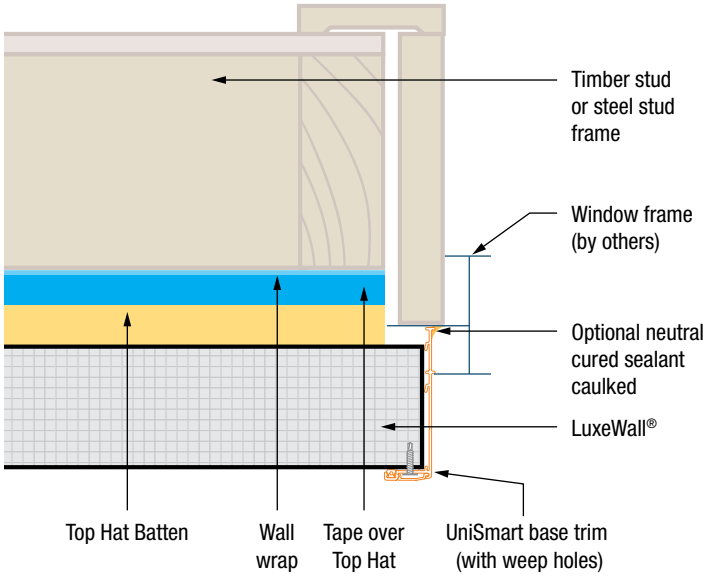
STEP 6

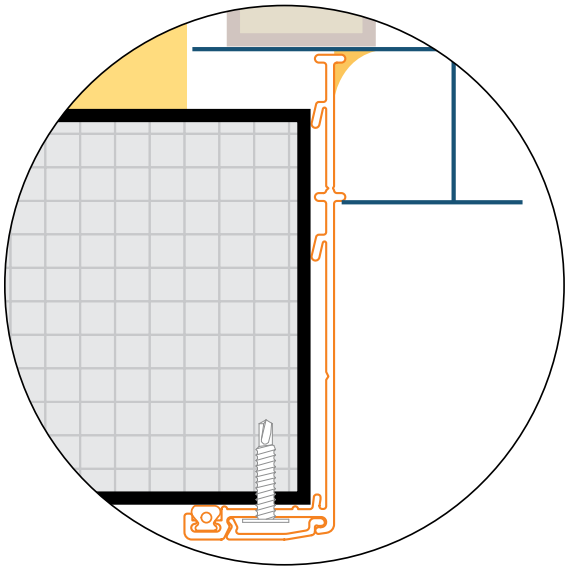
PUSH END PLUGS IN TO EXPOSED
RECESS IN SILLS ON BOTH ENDS



Assembly Instructions

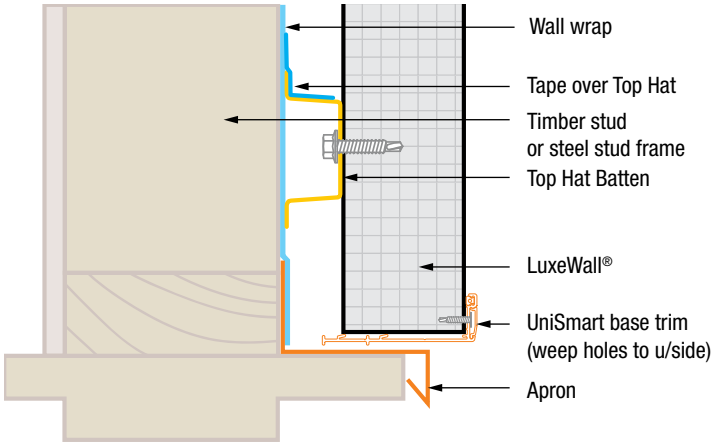
5.14 Typical Jamb Detail

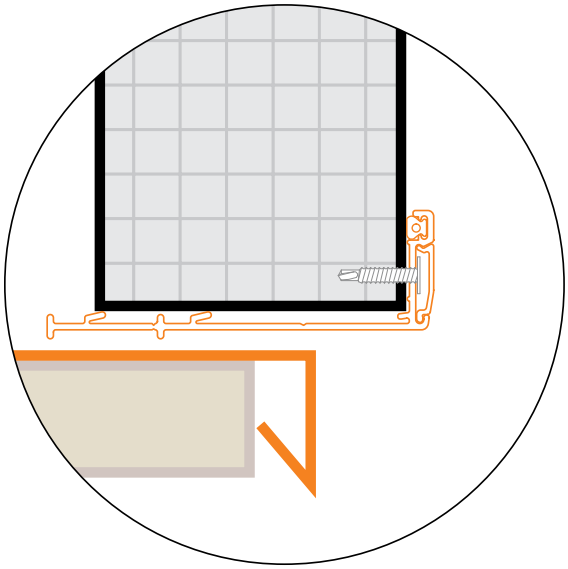




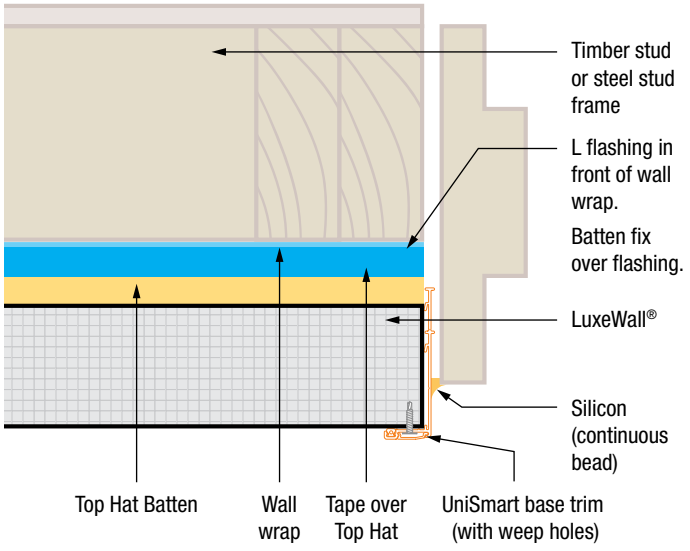
5.15 Timber Doors

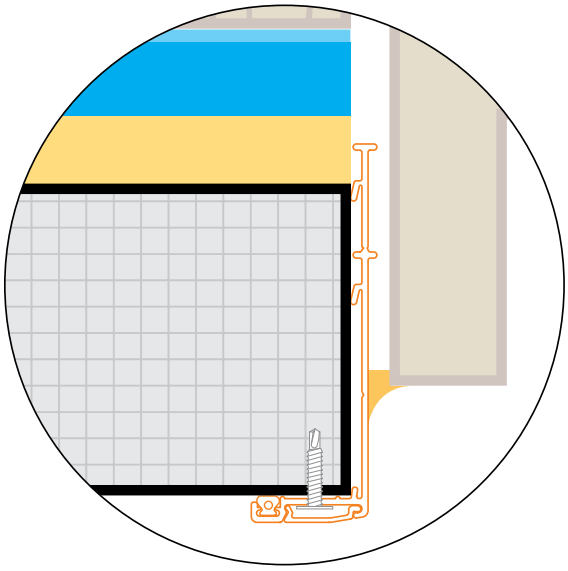
Typical Header Detail



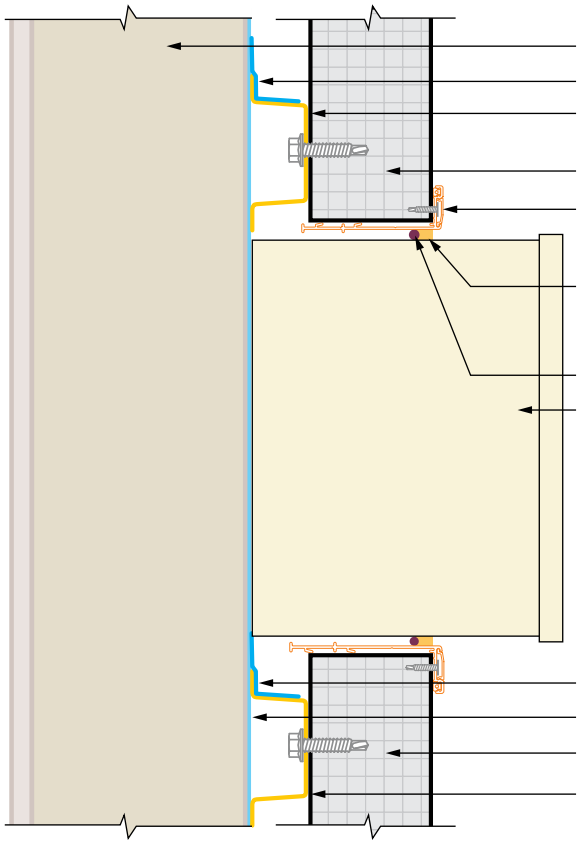


Typical Jamb Detail

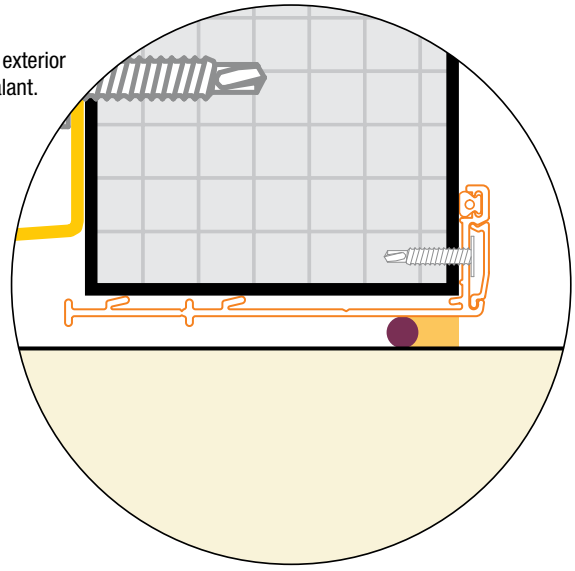


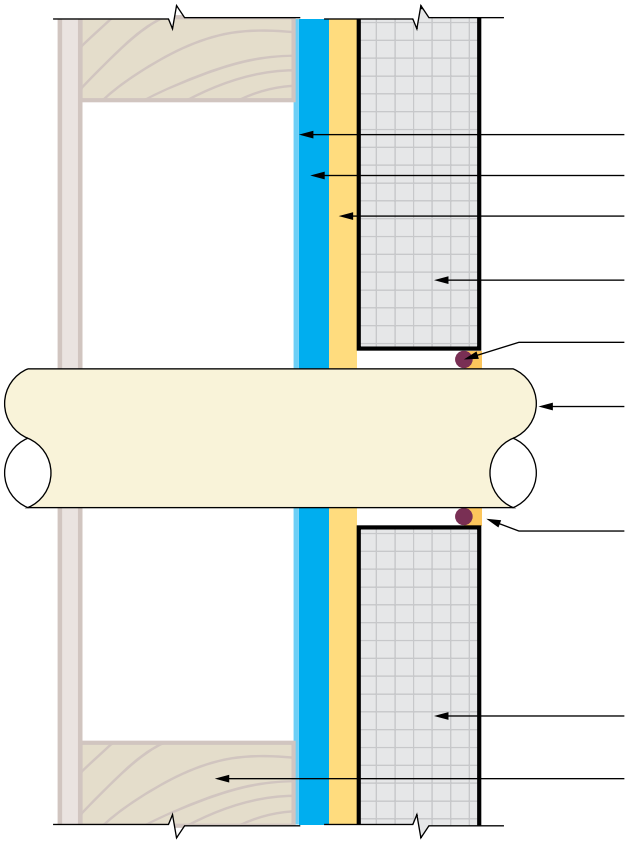


5.15 Electrical & Penetrations

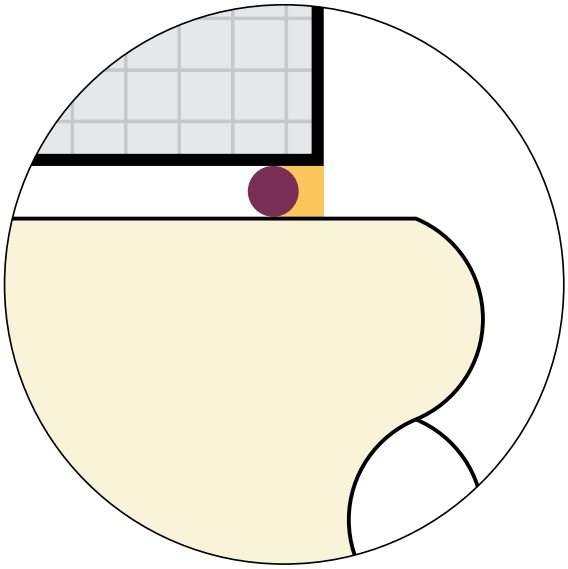


Timber stud or steel stud frame
Tape over Top Hat
Top Hat Batten
LuxeWall®
UniSmart base trim (with weep holes)
Gap 10mm Max. Continously fill gap with exterior grade weather proof sealant.
Backing rod
Meter Box
Tape over Top Hat
Wall wrap
LuxeWall®
Top Hat Batten

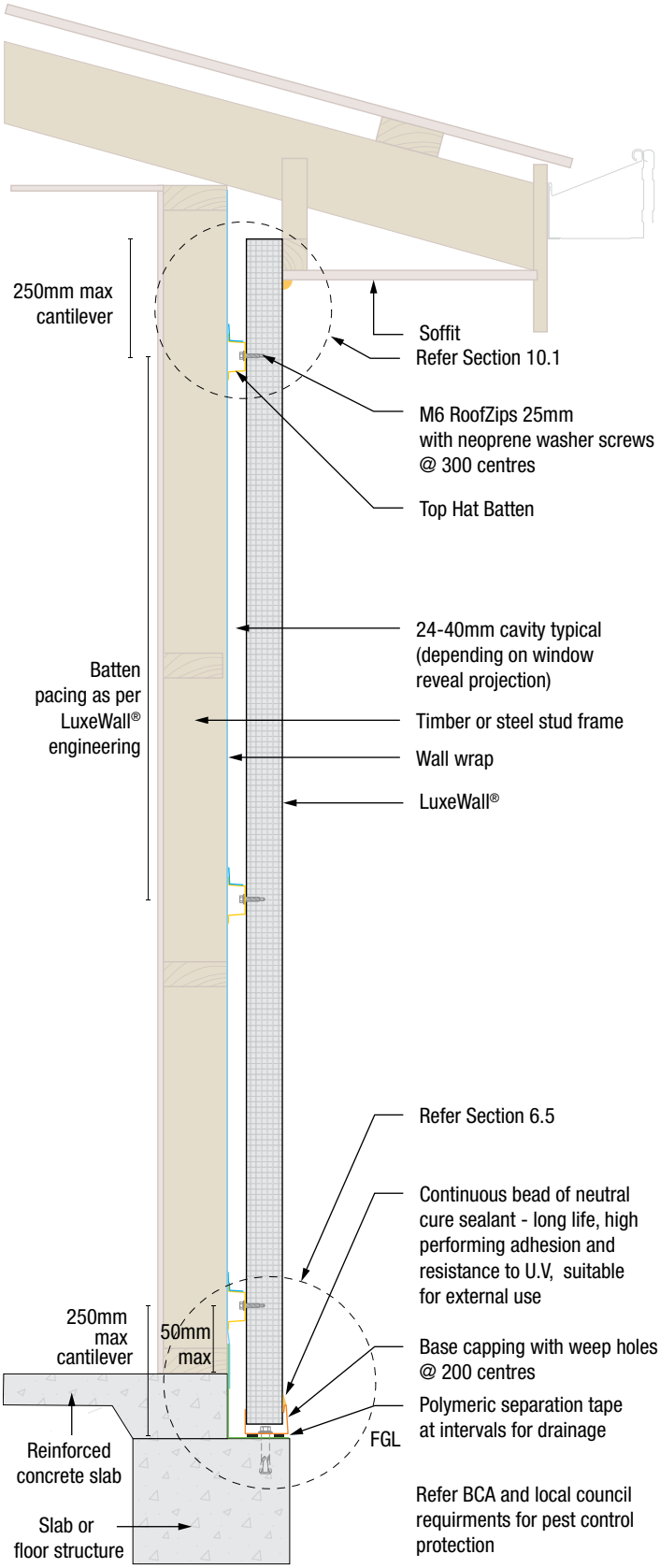


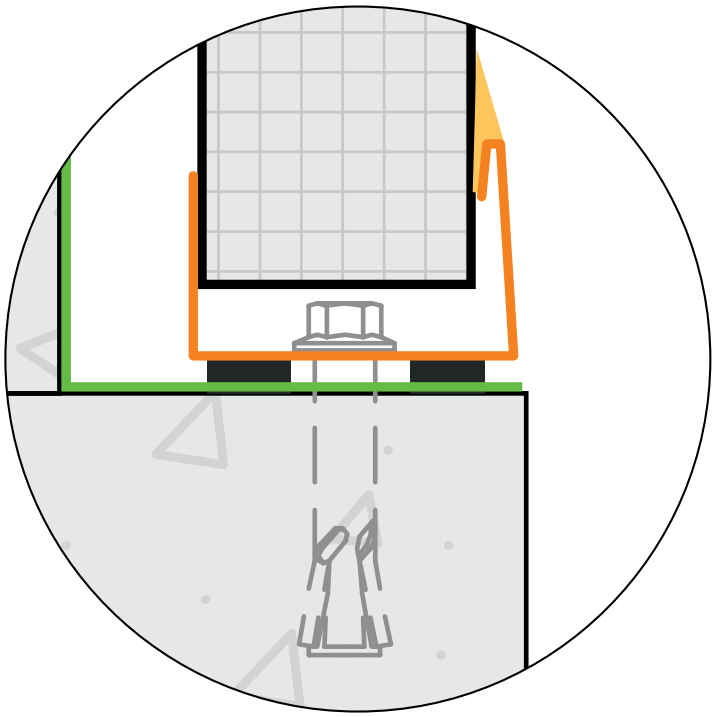


Wall wrap
Tape over Top Hat
Top Hat Batten
LuxeWall®
Backing rod
Pipe, wire or conduit
Gap 10mm Max. Continously fill gap with exterior grade weather proof sealant.
LuxeWall®
Timber stud or steel stud frame

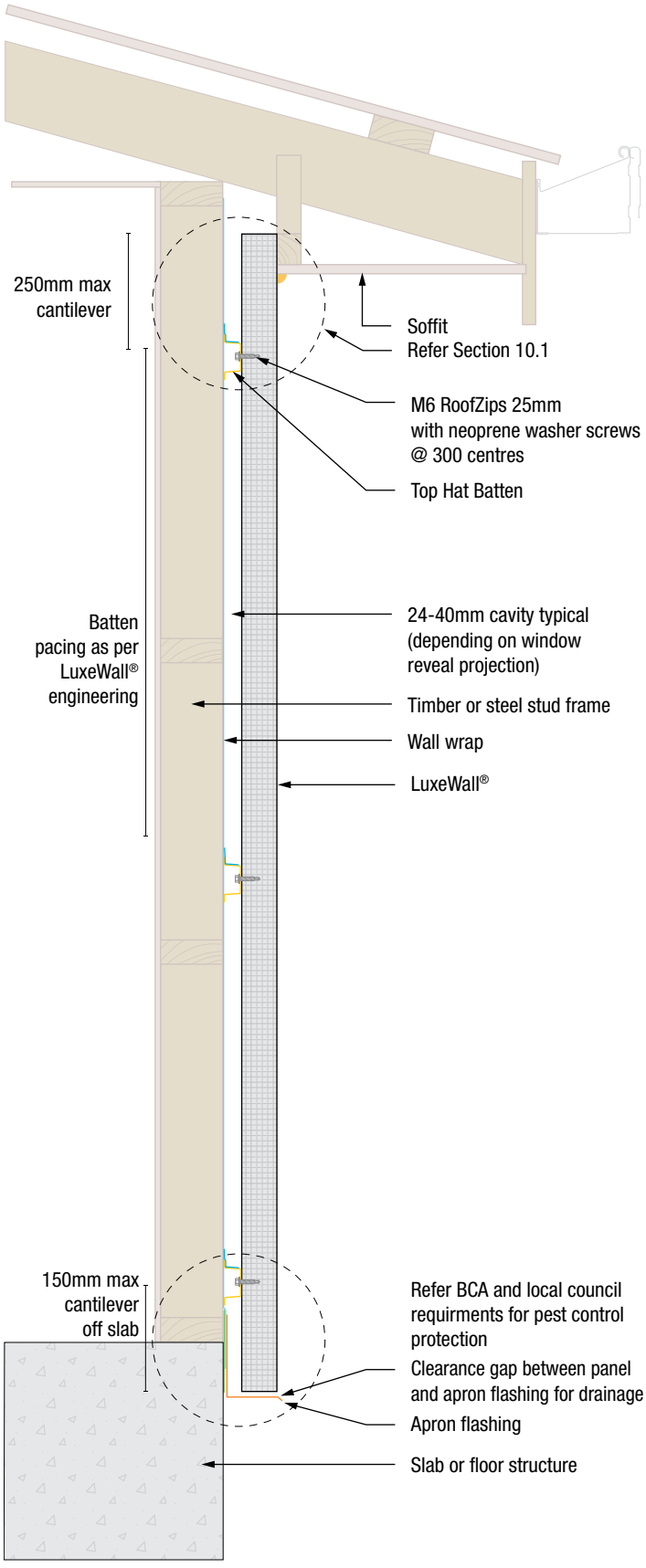


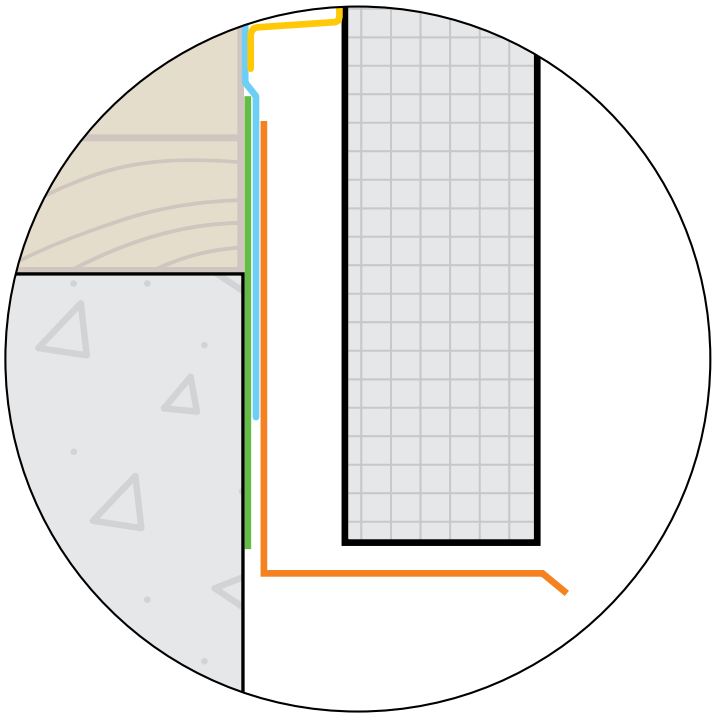
6.1 Single Storey - Panel supported at base



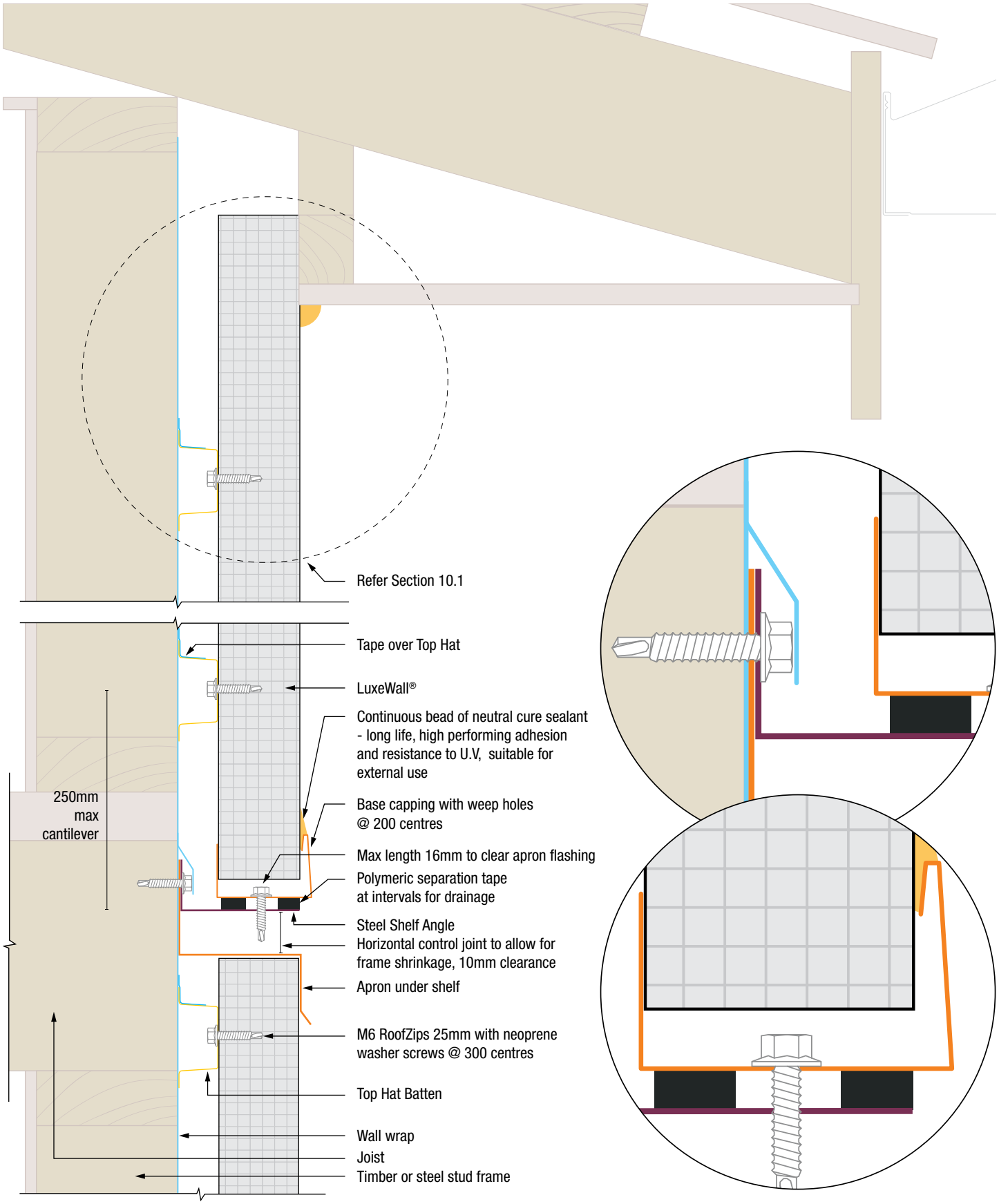


6.2 Single Storey - Panel suspended

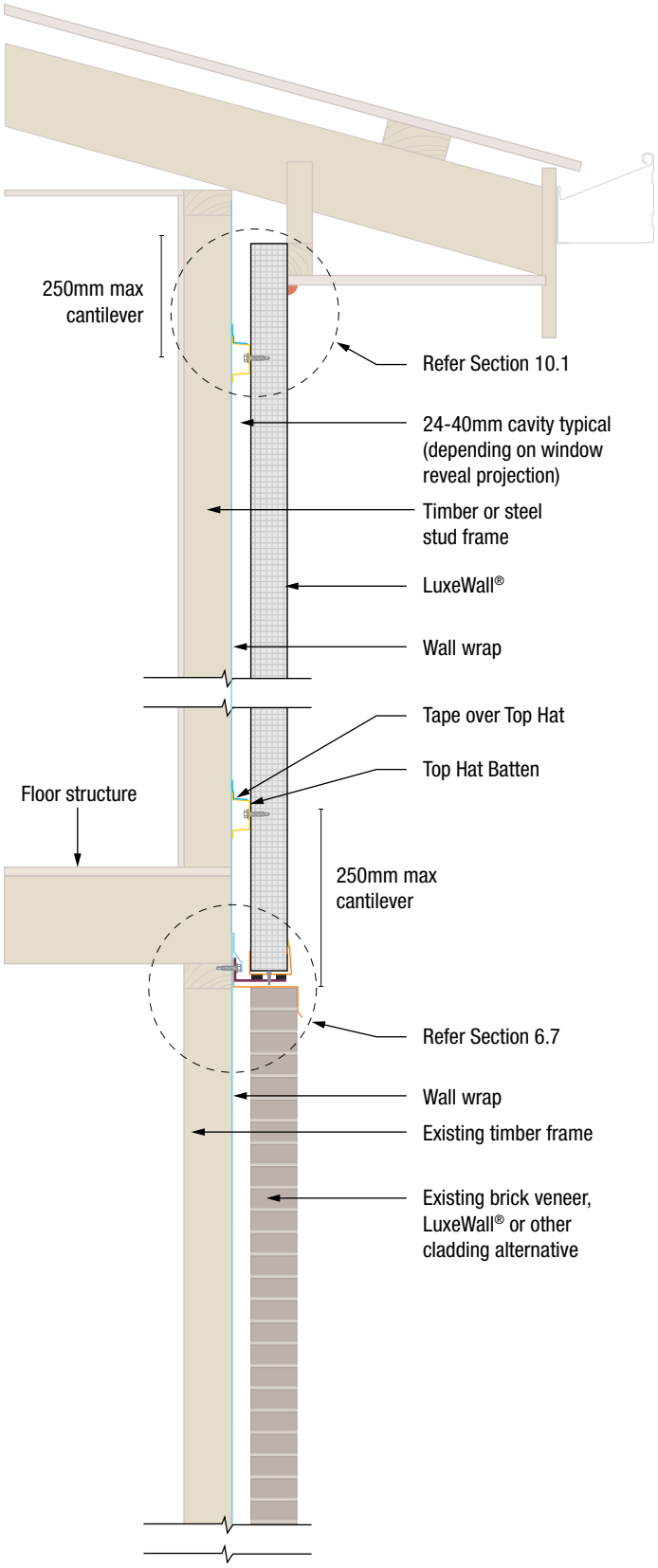


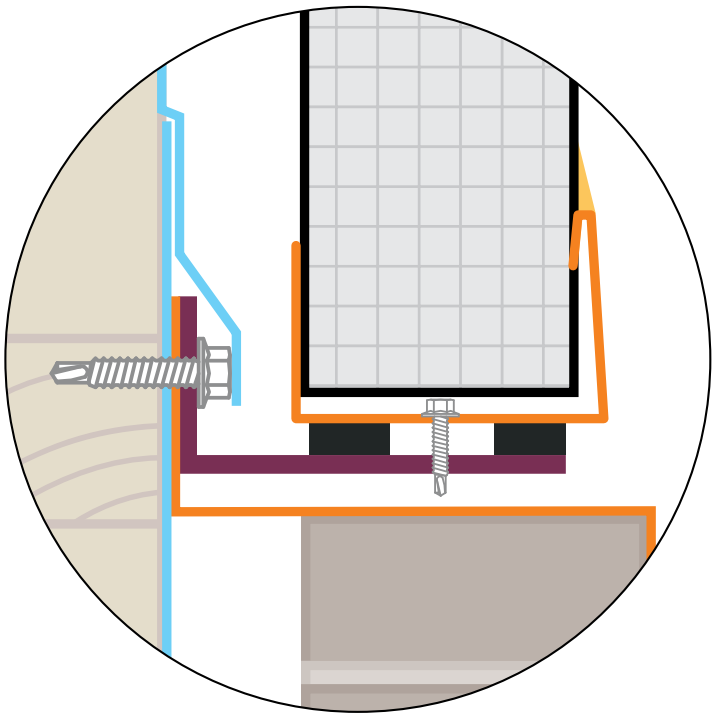


6.3 Two Storey Construction with Colorbond® Trims

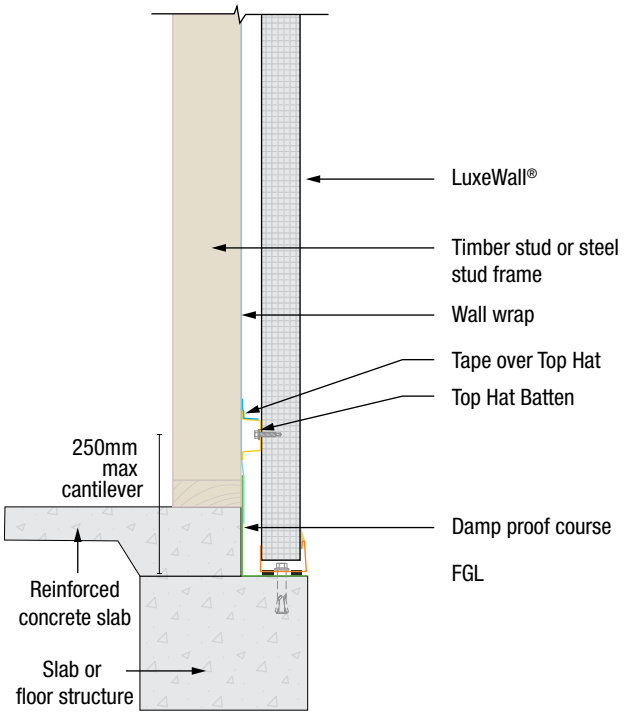


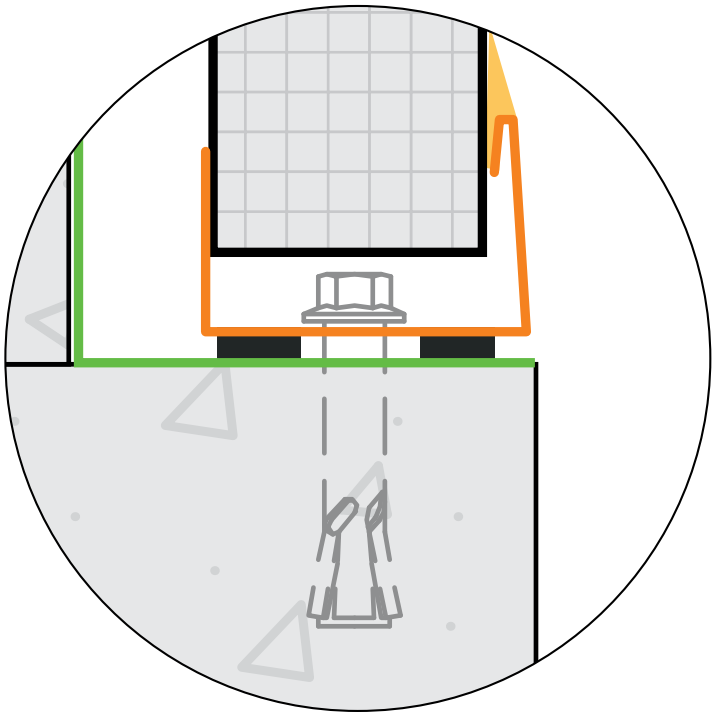
6.4 Two Storey Addition with Colorbond® Trims



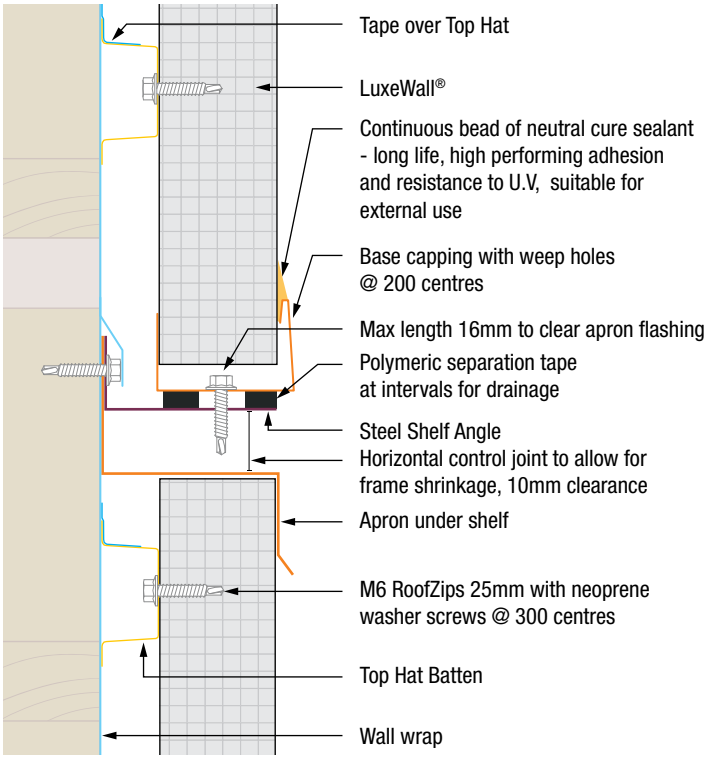


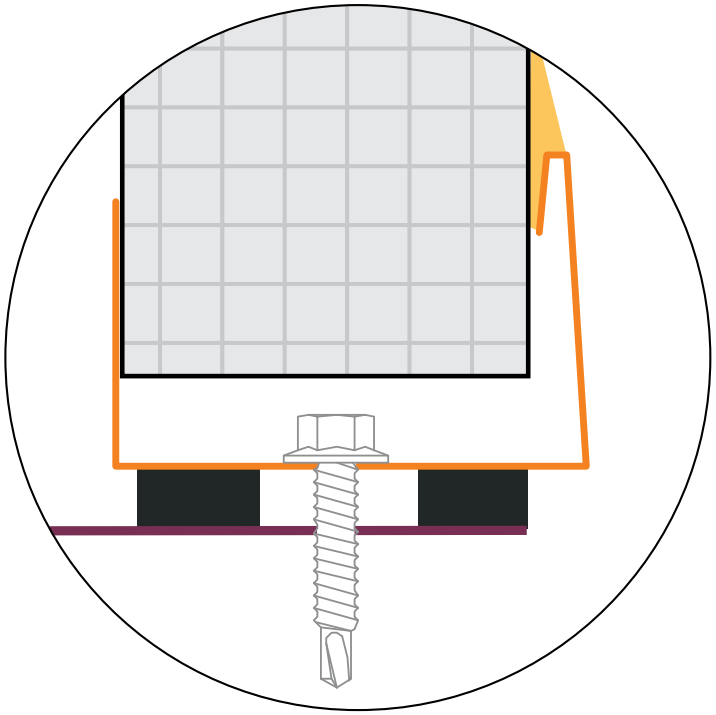
6.5 Single Storey Footing Junction



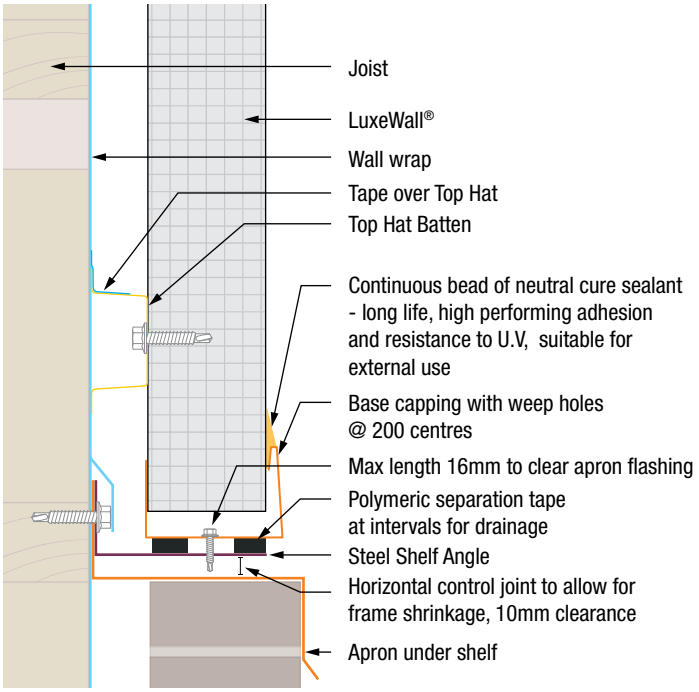


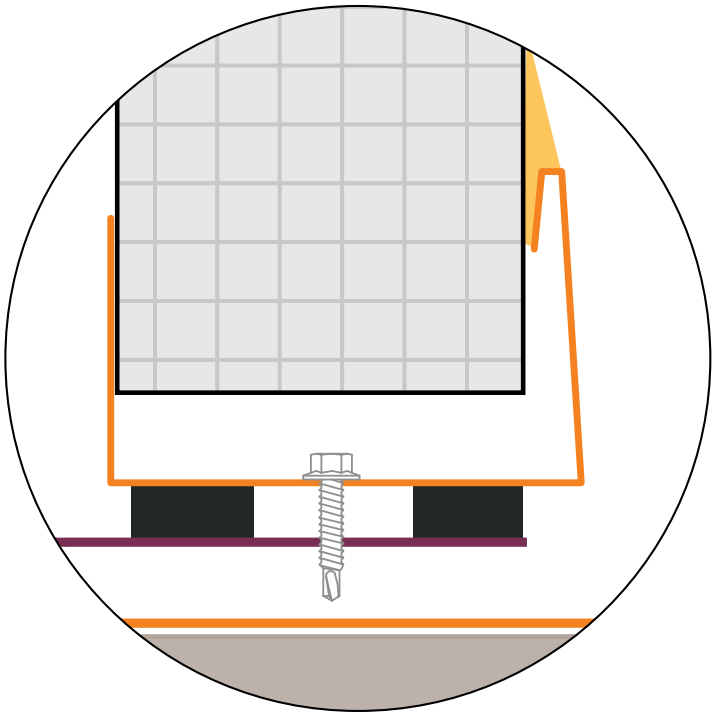
6.6 Two Storey Junction



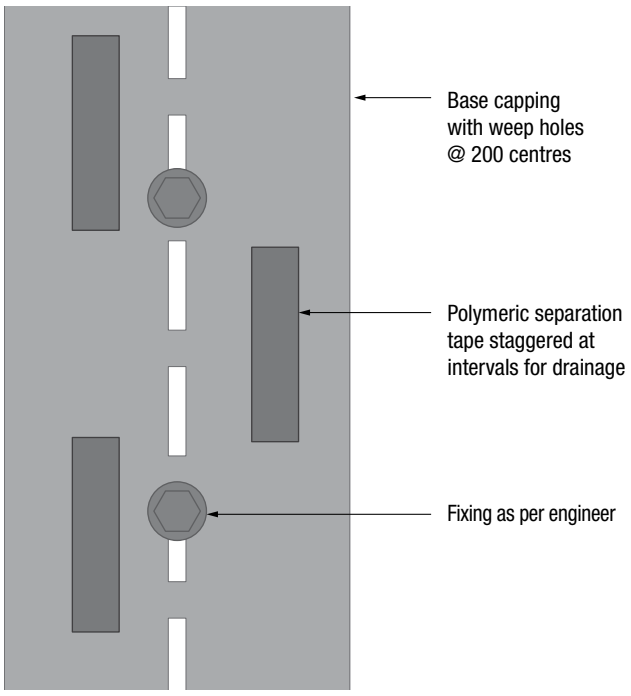


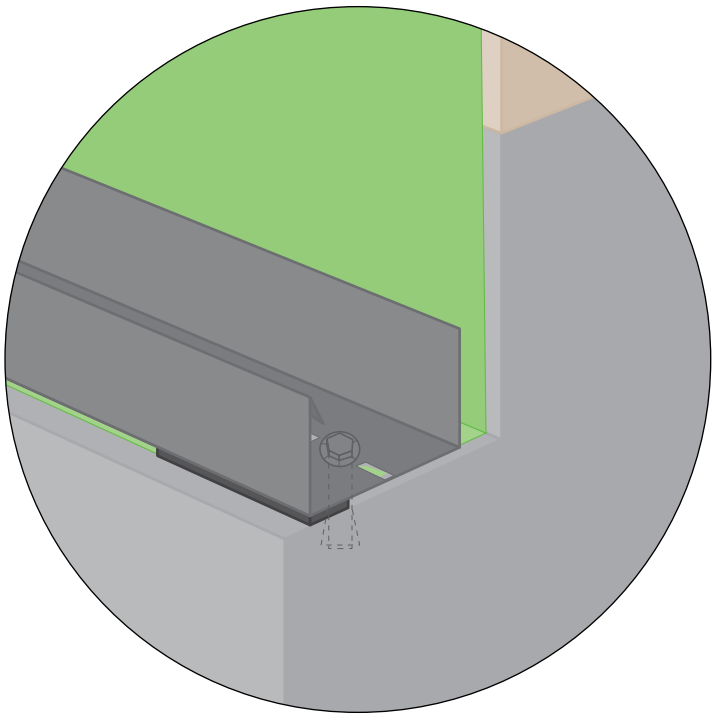
6.7 Two Storey Addition



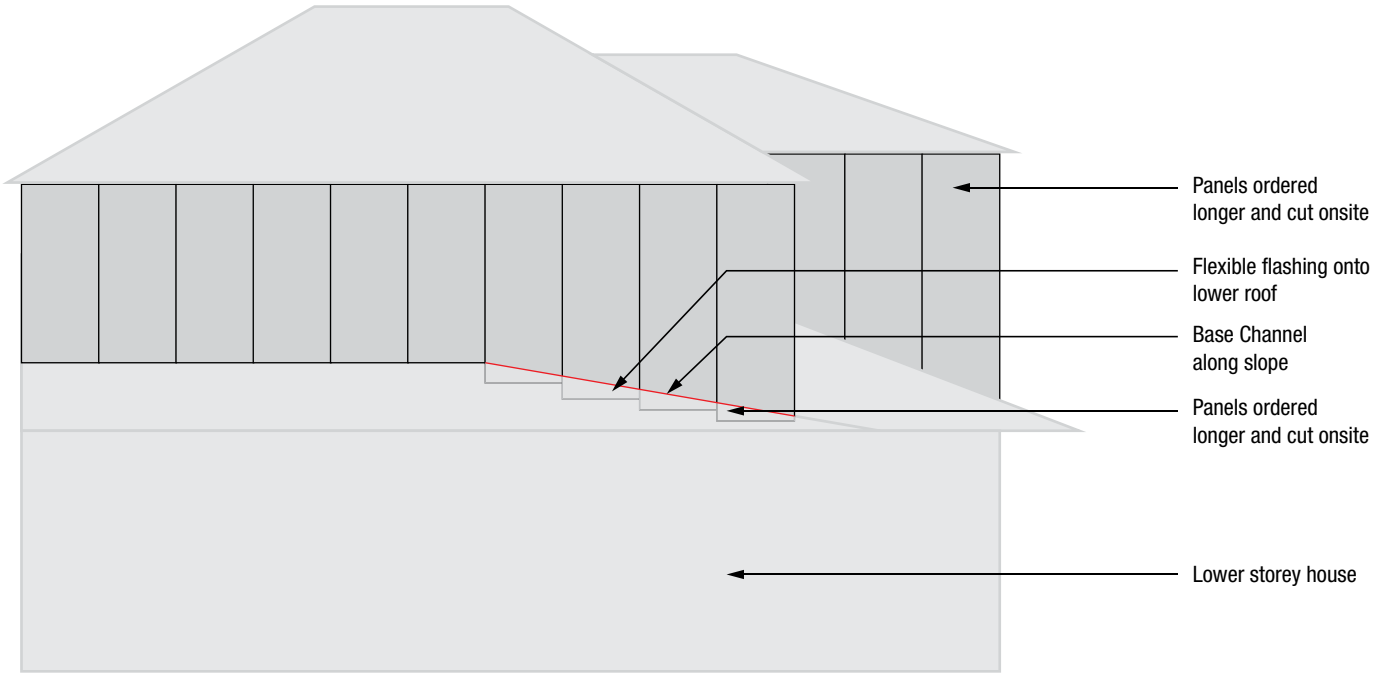


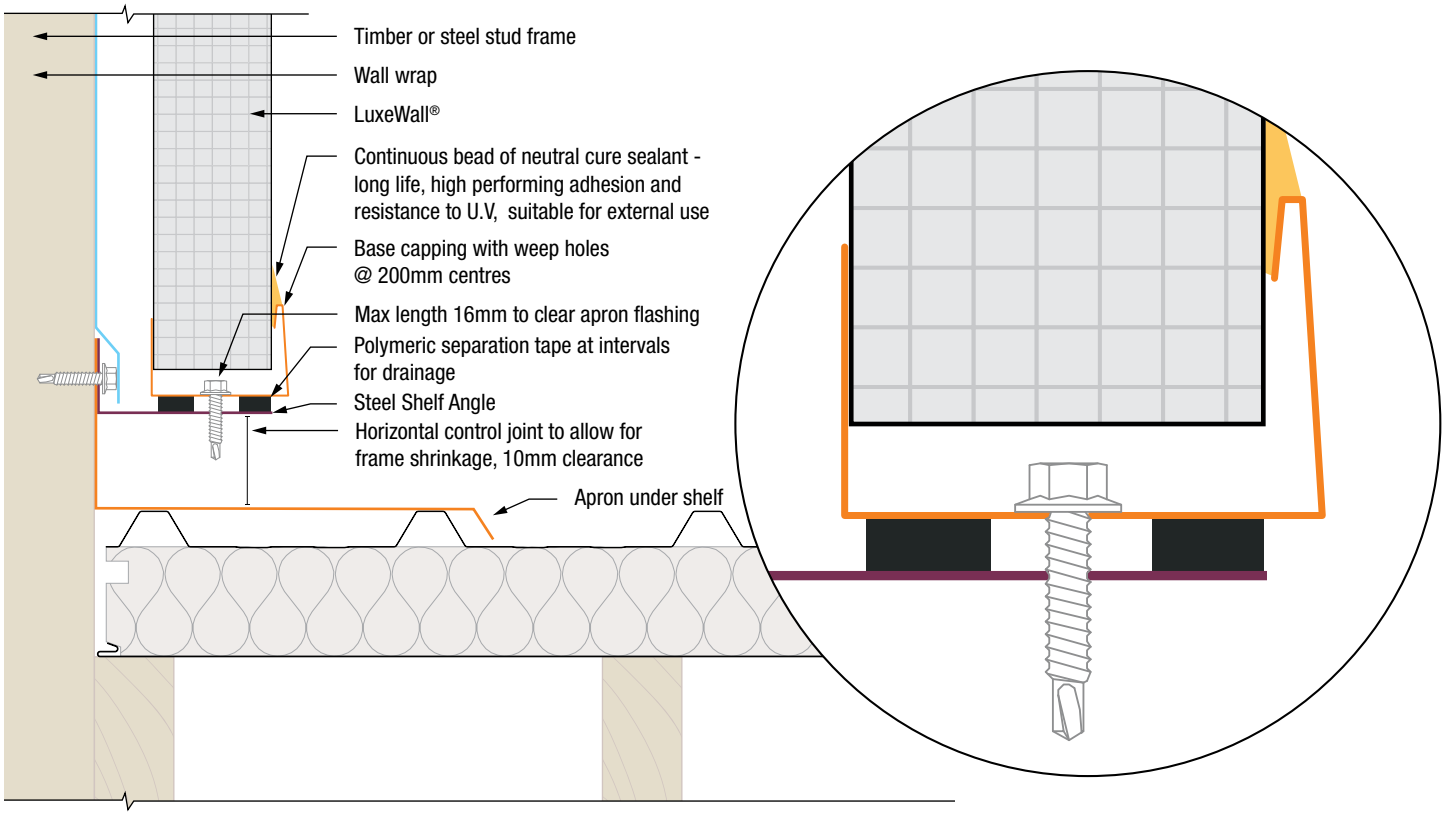
6.8 Flashing Base Capping Detail



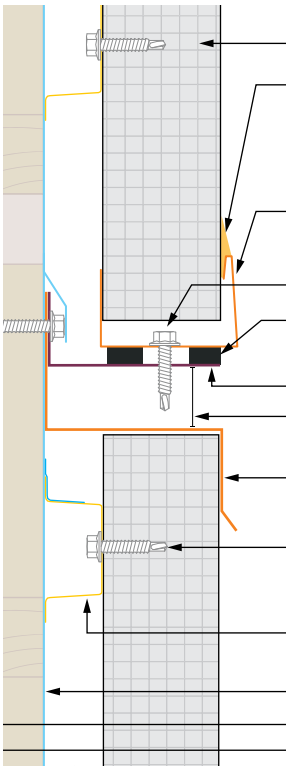


6.9 LuxeWall® to Lower Roof with Colorbond® Trims





6.10 Single Storey Horizontal Control Joint



LuxeWall®

Continuous bead of neutral cure sealant - long life, high performing adhesion and resistance to U.V, suitable for external use

Base capping with weep holes @ 200 centres

Max length 16mm to clear apron flashing

Polymeric separation tape at intervals for drainage

Steel Shelf Angle

Horizontal control joint to allow for frame shrinkage, 10mm clearance

Apron under shelf

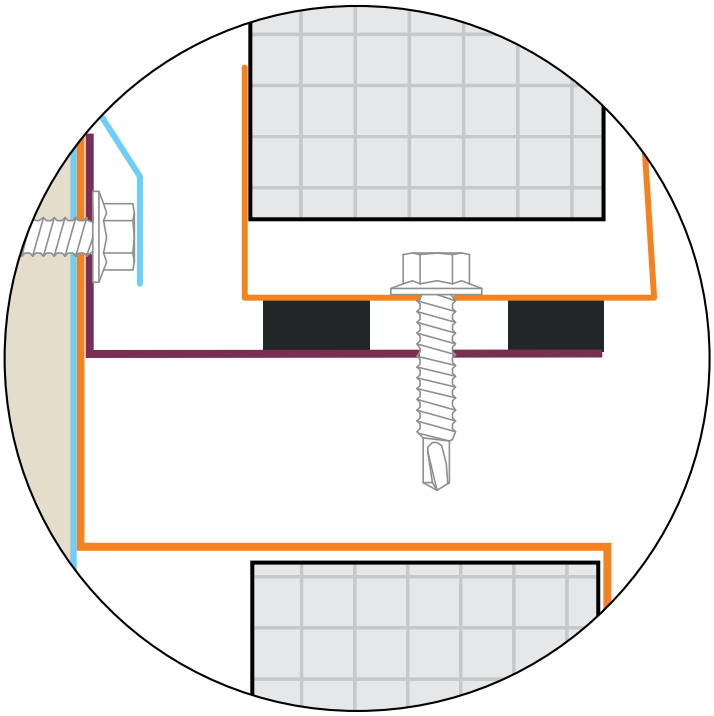
M6 RoofZips 25mm with neoprene washer screws @ 300 centres

Top Hat Batten

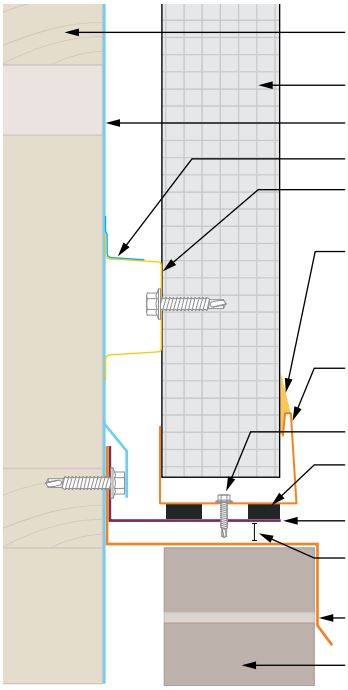
Wall wrap

Joist

Timber or steel stud frame



6.11 Two Storey Horizontal Control Joint



Joist

LuxeWall®

Wall wrap

Tape over Top Hat

Top Hat Batten

Continuous bead of neutral cure sealant - long life, high performing adhesion and resistance to U.V, suitable for external use

Base capping with weep holes @ 200 centres

Max length 16mm to clear apron flashing

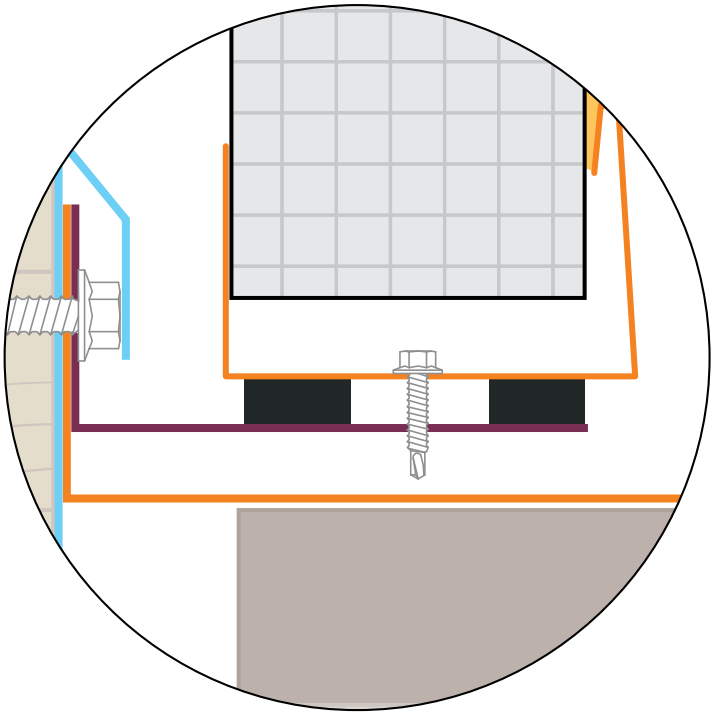
Polymeric separation tape at intervals for drainage

Steel Shelf Angle

Horizontal control joint to allow for frame shrinkage, 10mm clearance

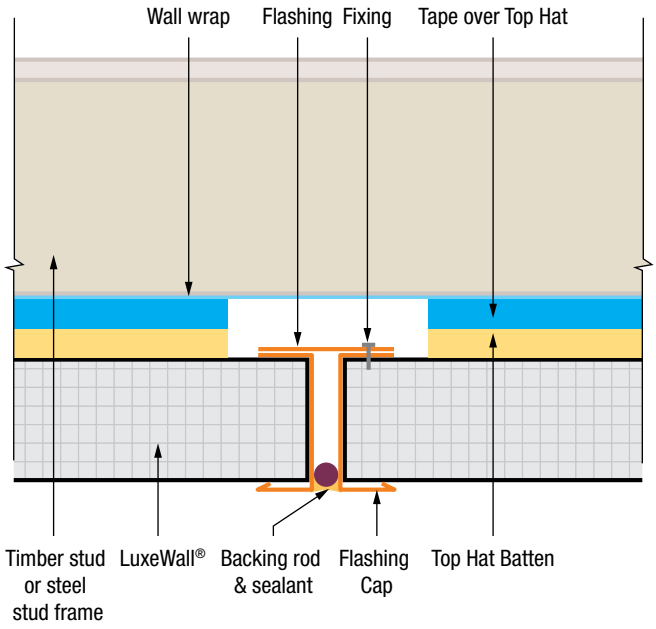
Apron under shelf

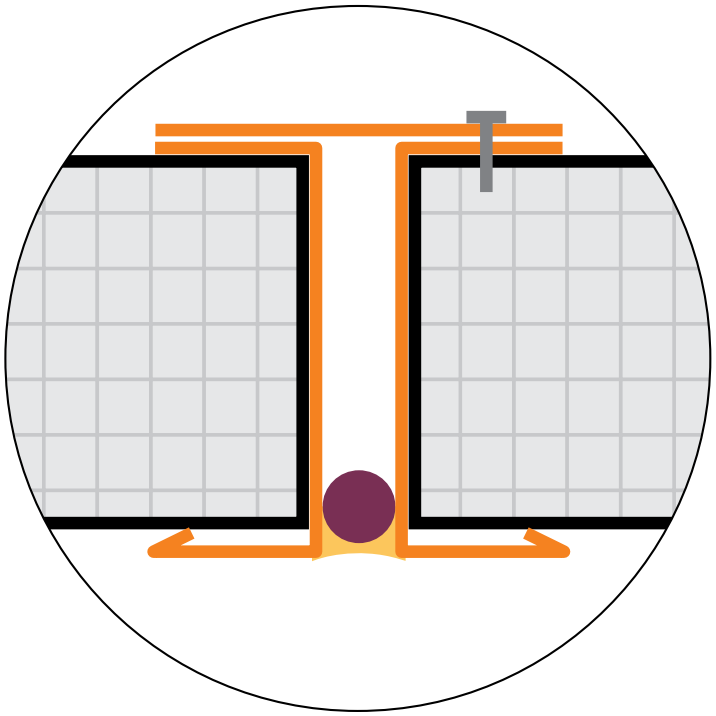
Brick



6.12 Vertical Control Joint - Option 1

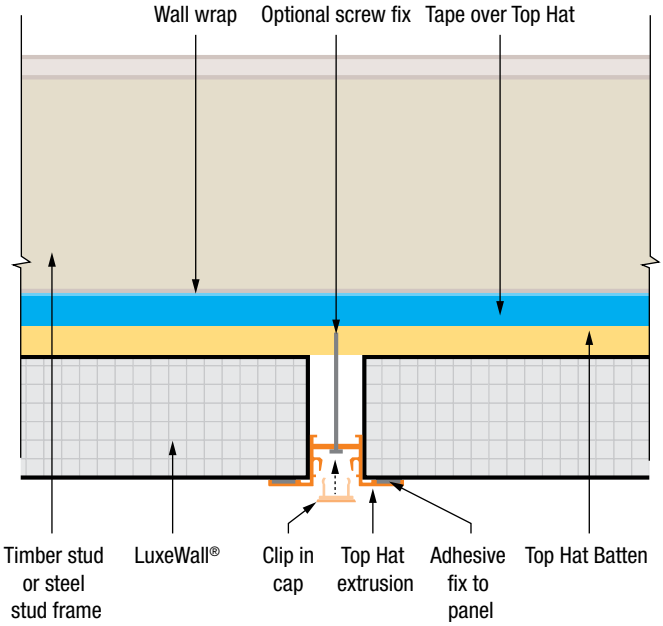
For use with texture coating every 5m.

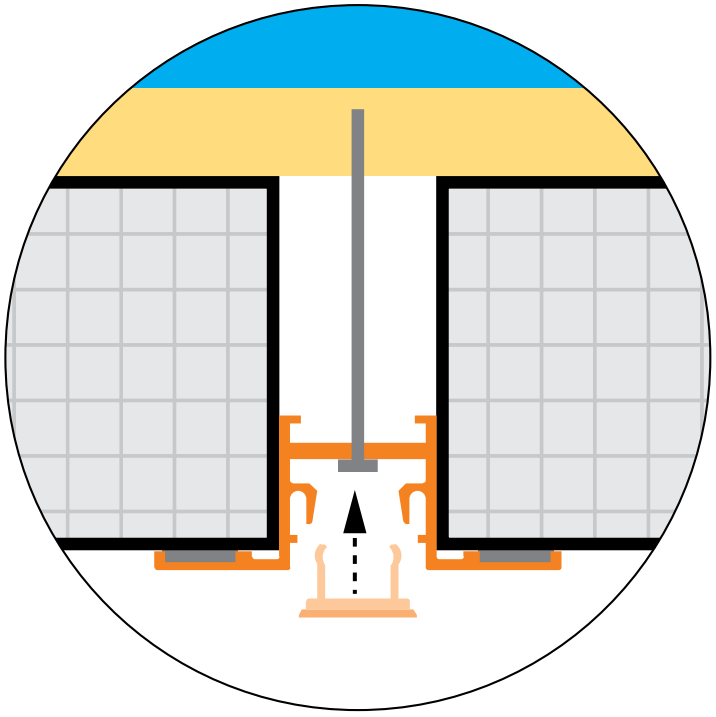




6.13 Vertical Control Joint - Option 2

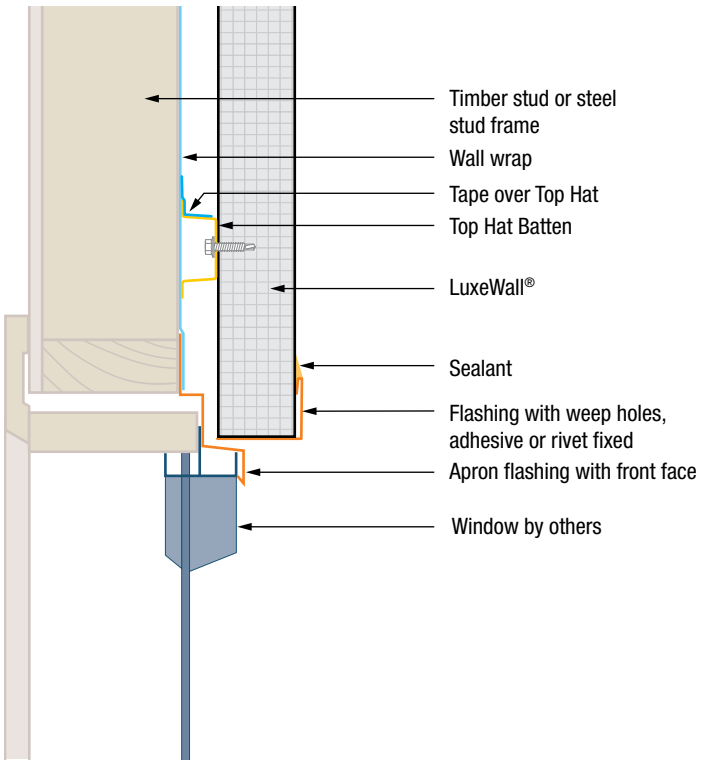
For use where odd size panels are used, e.g. towards a corner.

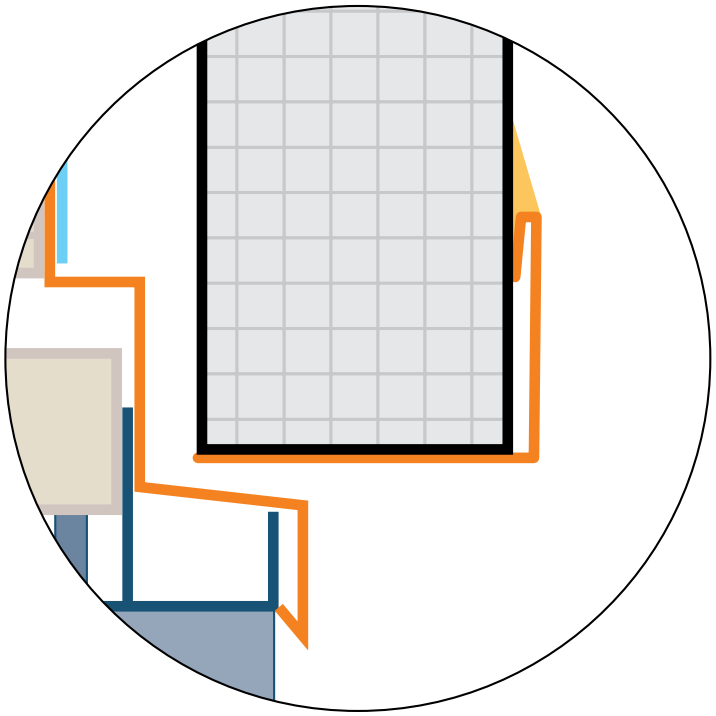




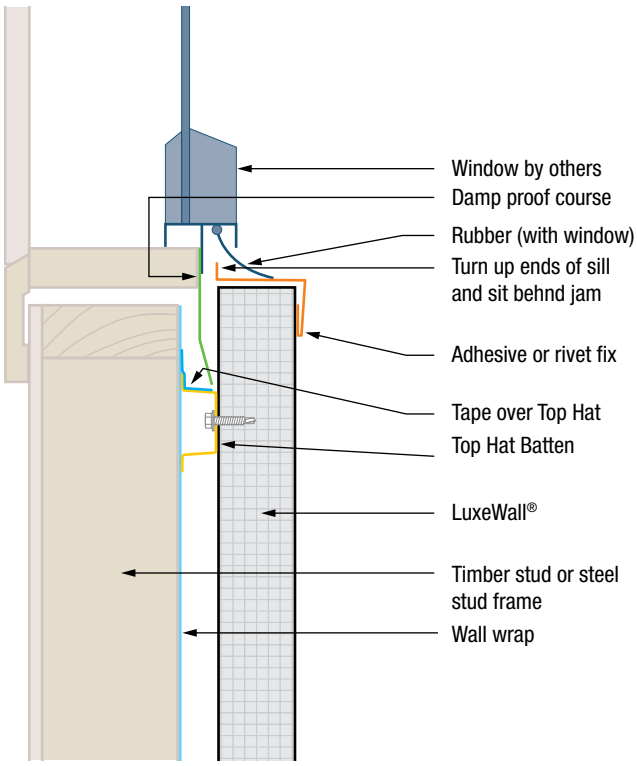
6.14 Door & Window Detail

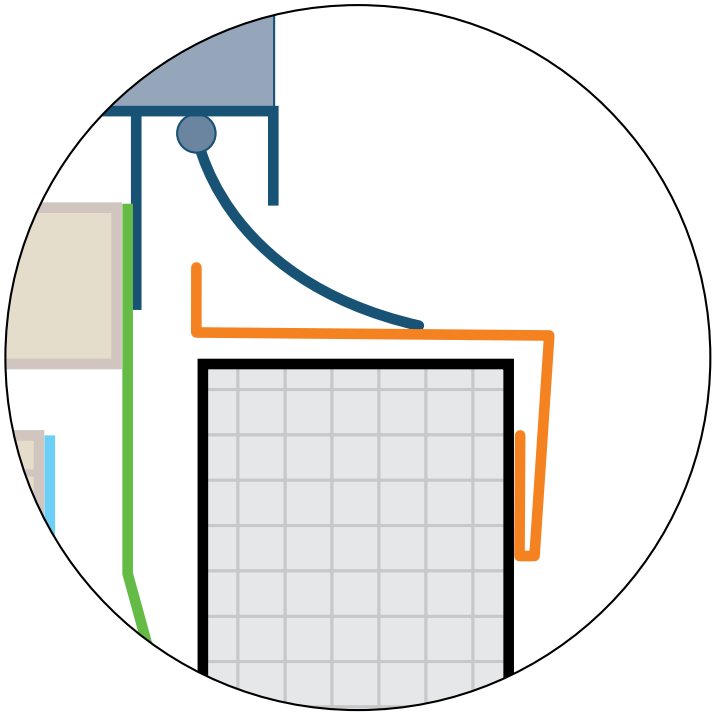
Typical Header Detail



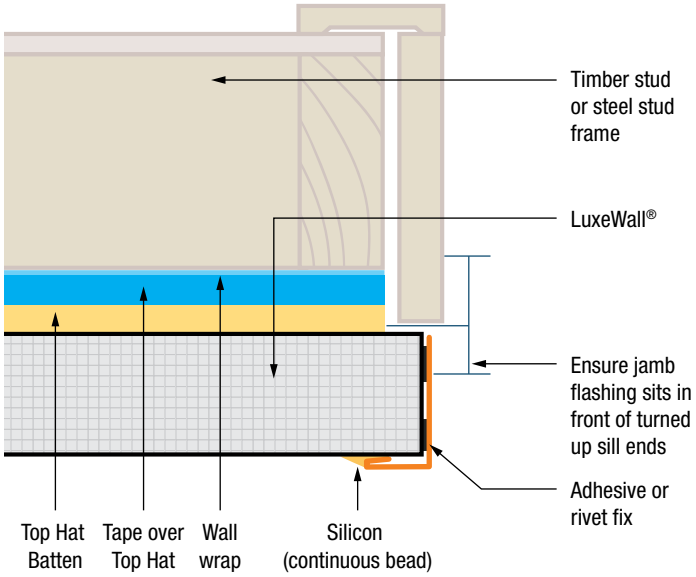


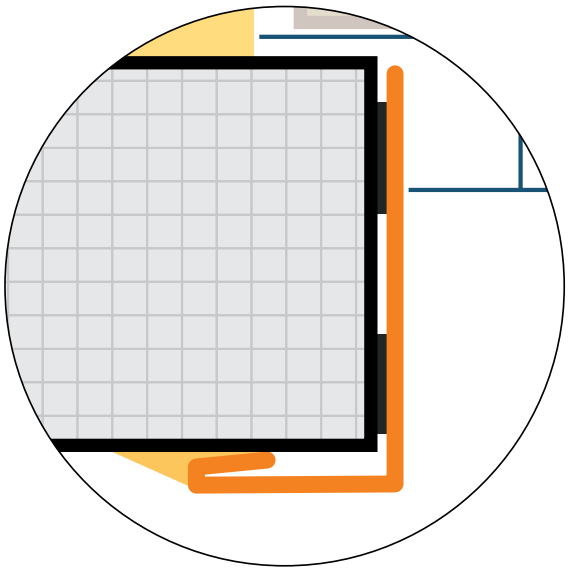
Typical Sill Detail





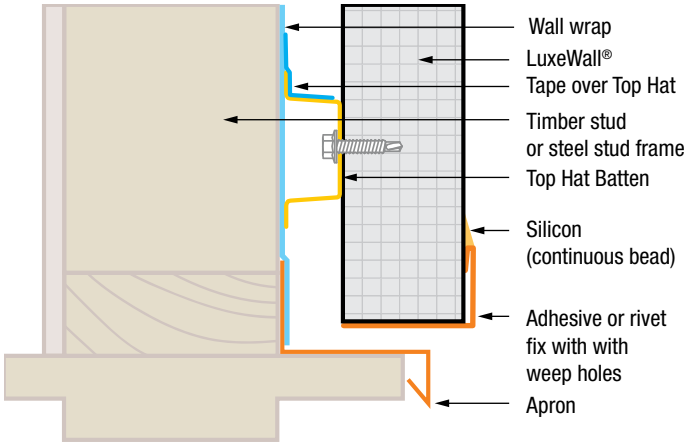
6.15 Typical Jamb Detail

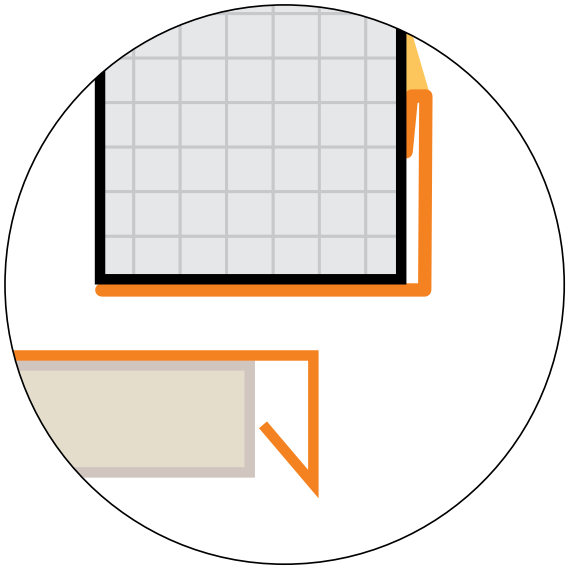




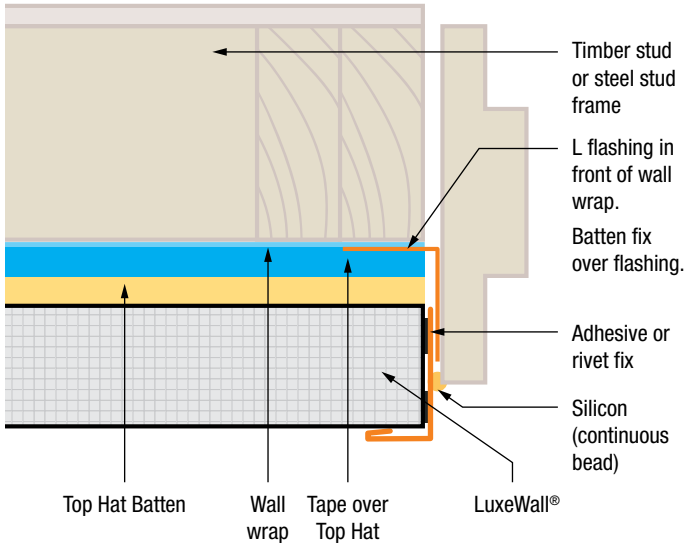
6.16 Timber Doors

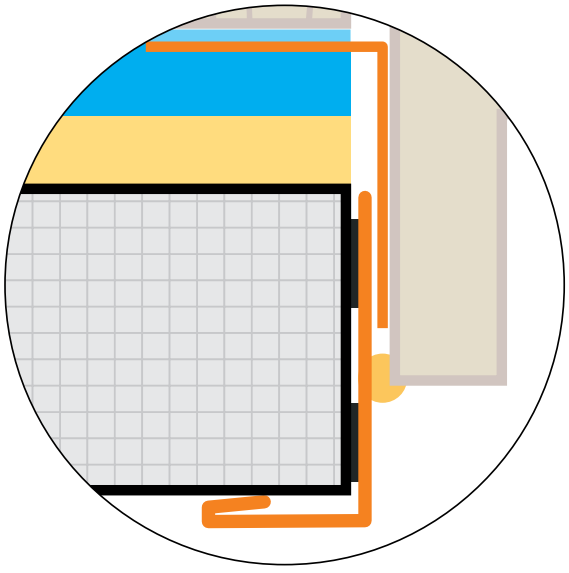
Typical Header Detail



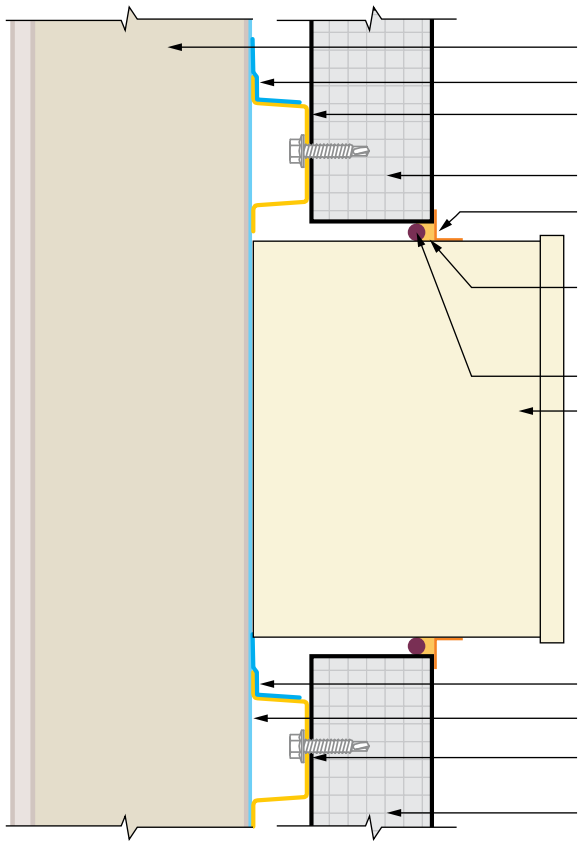


Typical Jamb Detail

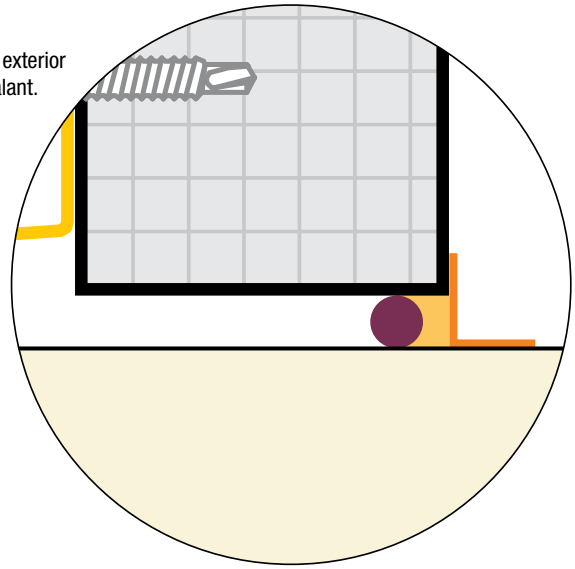


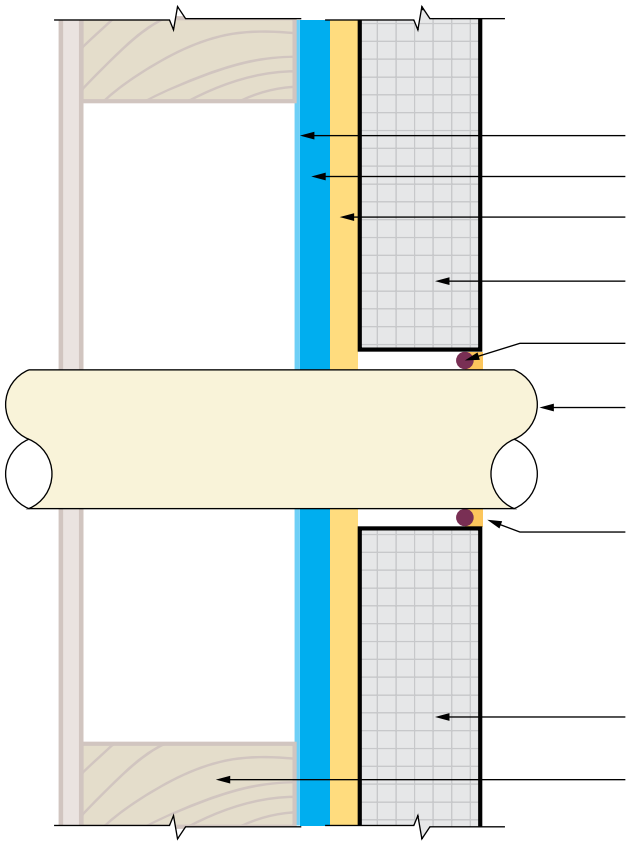


6.17 Electrical & Penetrations

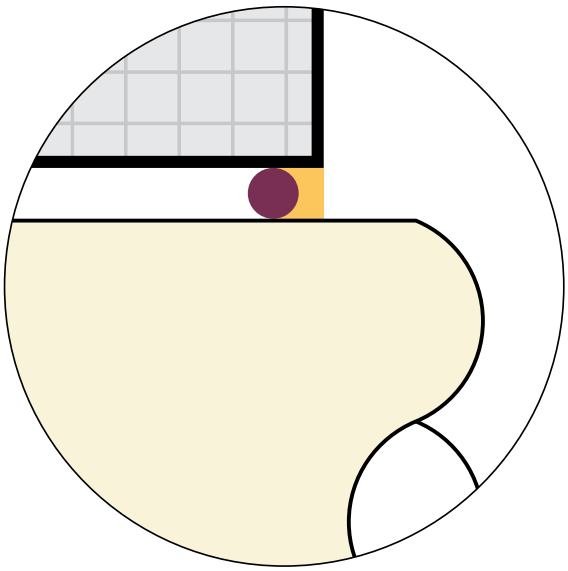


Timber stud or steel stud frame
Tape over Top Hat
Top Hat Batten
LuxeWall®
Flashing around perimiter, adhesive fixed
Gap 10mm Max. Continously fill gap with exterior grade weather proof sealant.
Backing rod
Meter Box
Tape over Top Hat
Wall wrap
Top Hat Batten
LuxeWall®



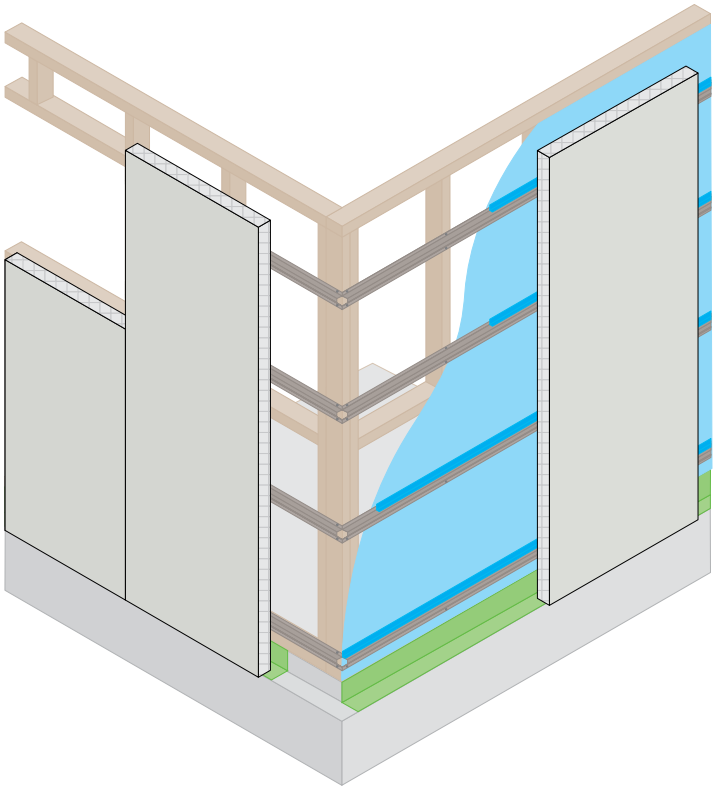


Wall wrap
Tape over Top Hat
Top Hat Batten
LuxeWall®
Backing rod
Pipe, wire or conduit
Gap 10mm Max. Continously fill gap with exterior grade weather proof sealant.
LuxeWall®
Timber stud or steel stud frame

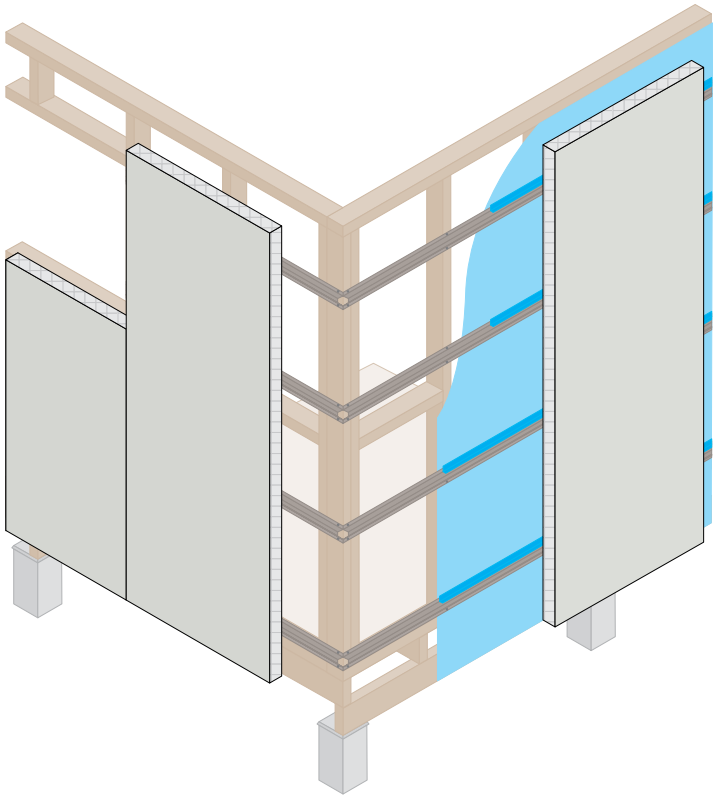


7.1 Single Storey & Corner Isometric Detail

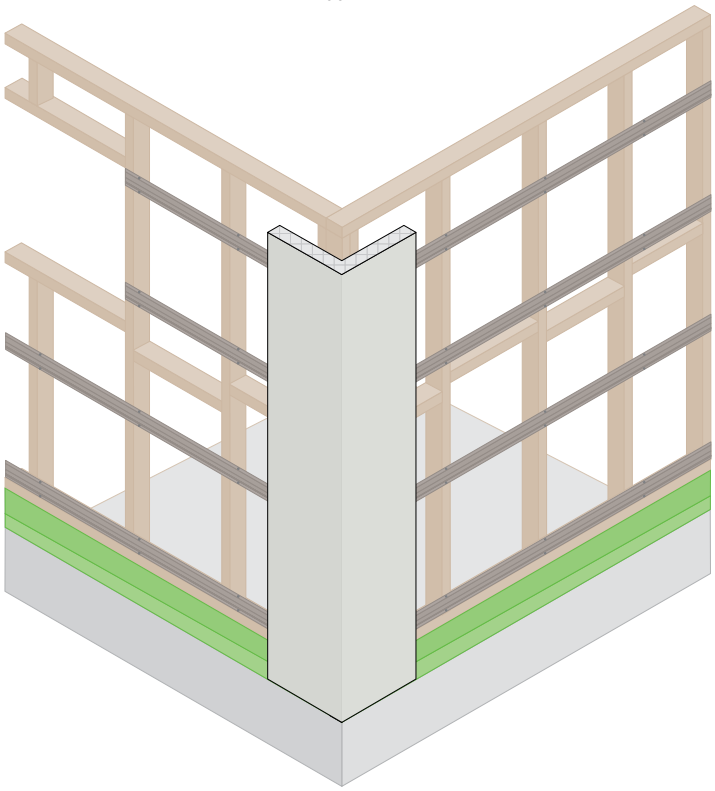
Single storey construction details - installing LuxeWall® (vertical)



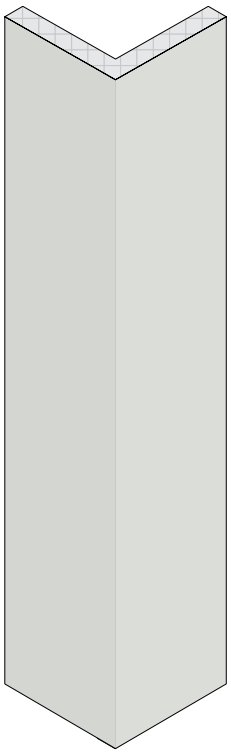
Single storey construction - isometric view detail
Panel supported at base



Single storey construction - isometric view detail
Panel suspended



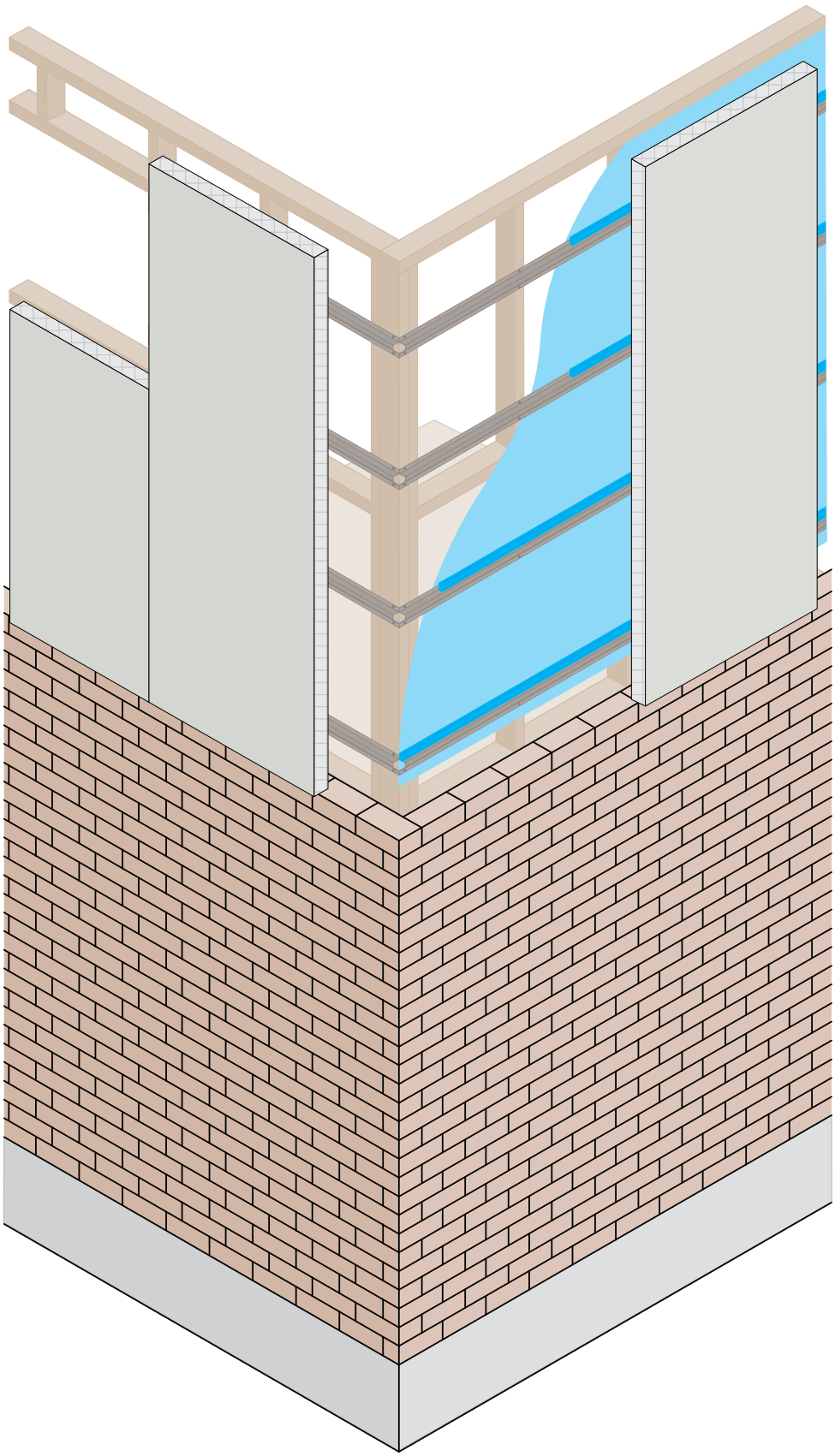
Corner detail.



LuxeWall® has a unique all-in-one corner panel, custom bent to a 90˚ angle, allowing for a smooth and continuous corner finish without flashings.

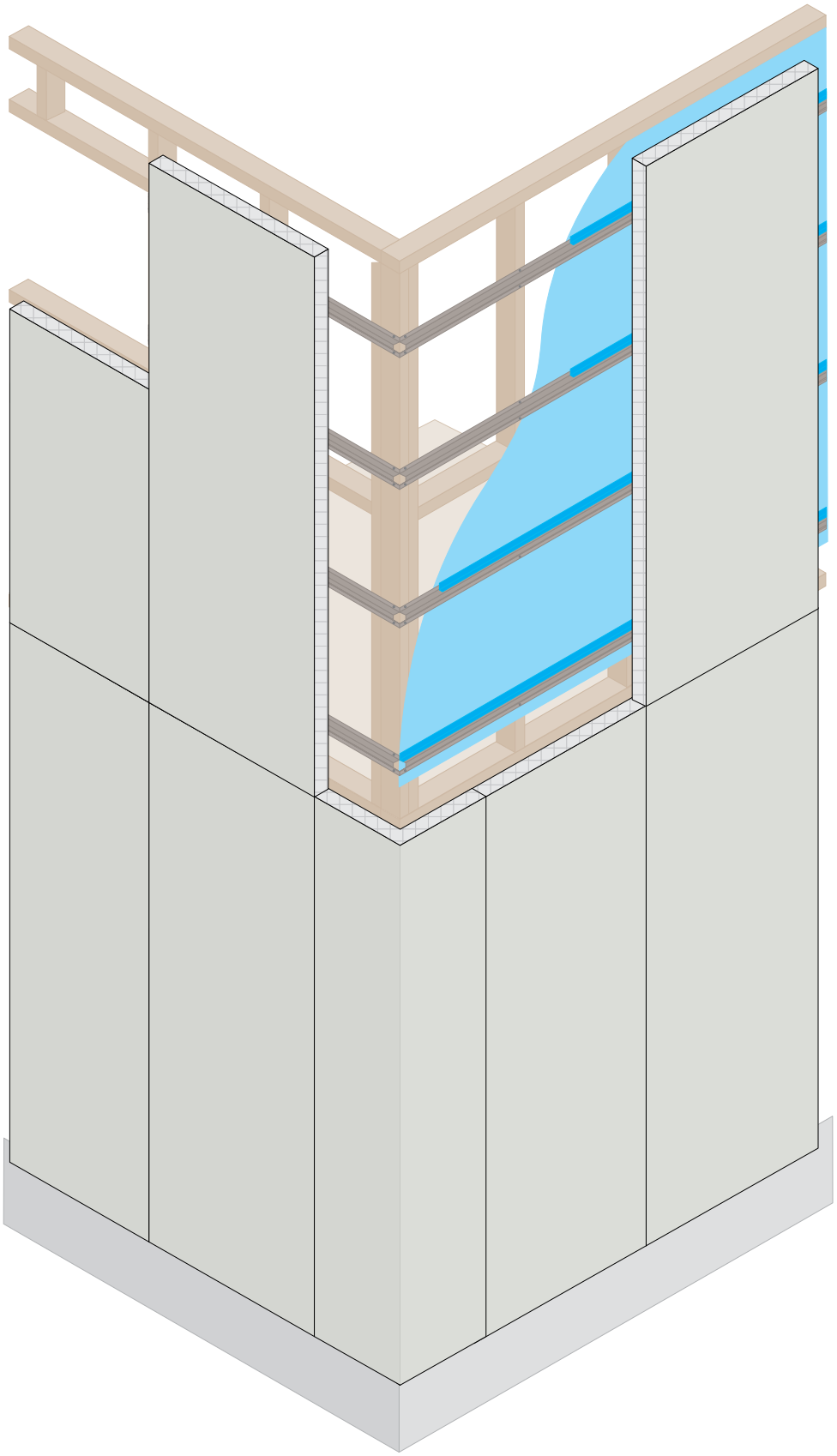
7.2 Two Storey Addition

Two storey addition allows for easy installation of the timber frame and LuxeWall® panels.



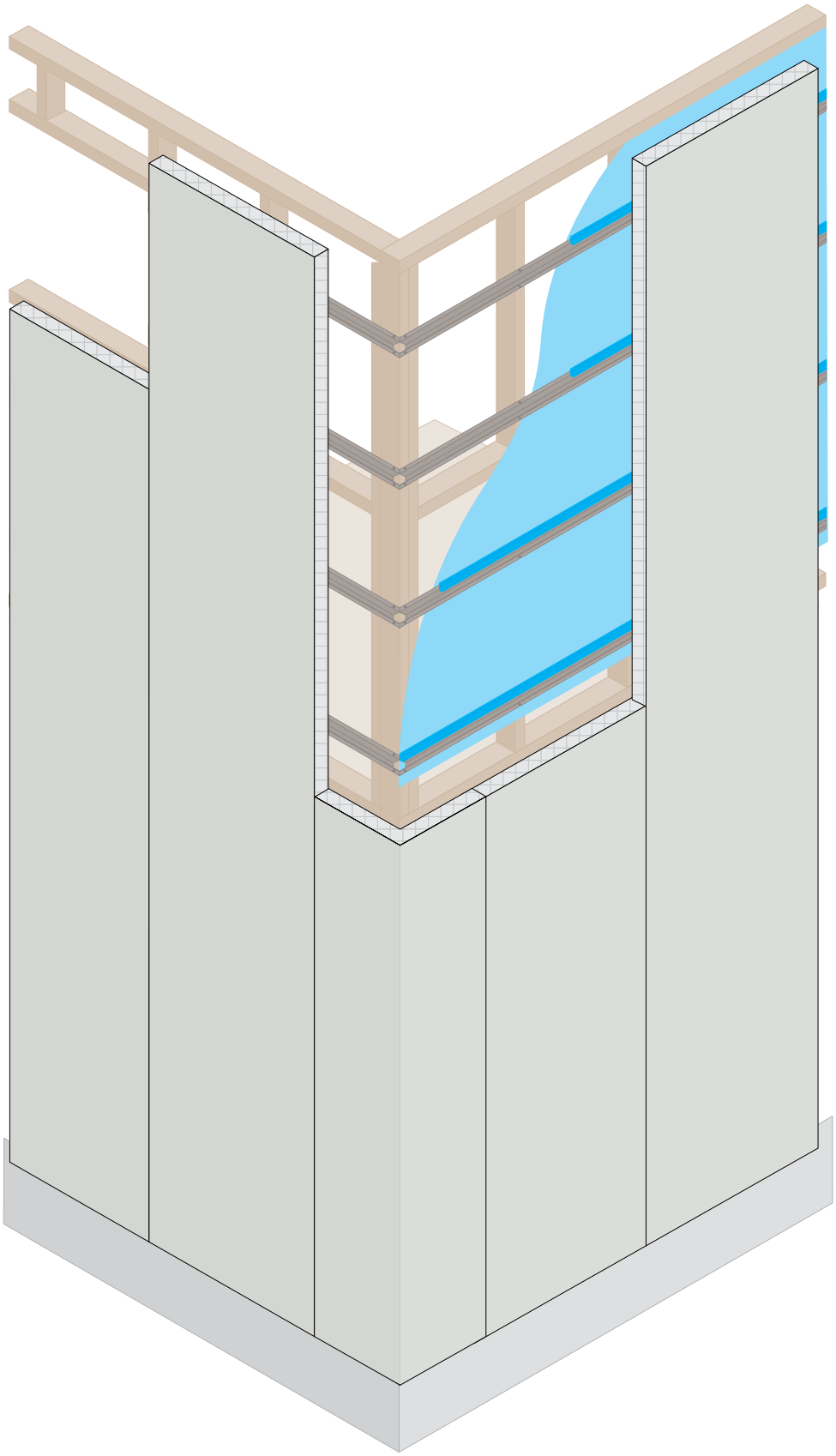
7.3 Two Storey Construction - 2 Panels per Storey

Two storey construction for texture coated finishes. Utilises 2 panels per storey with a control joint.



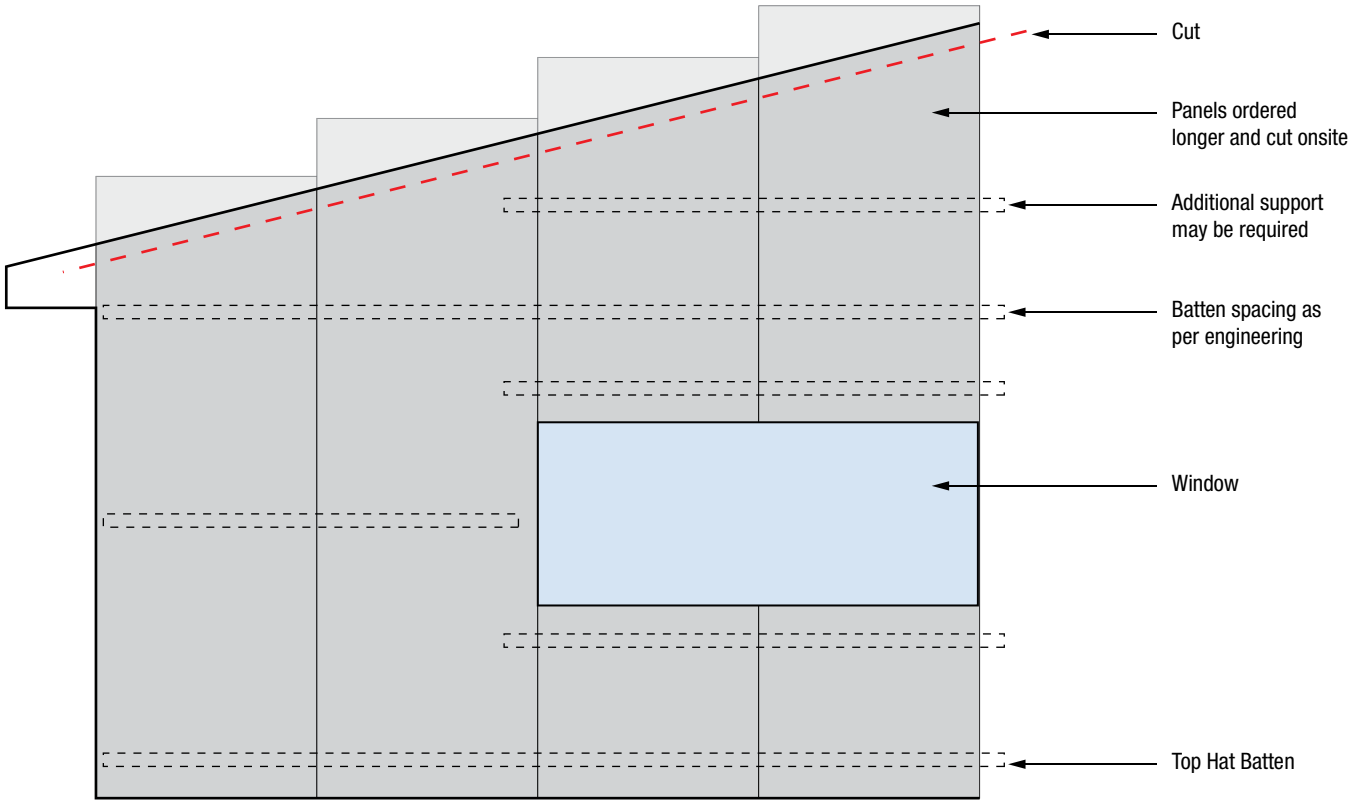
7.4 Two Storey Construction - Continuous Unbroken

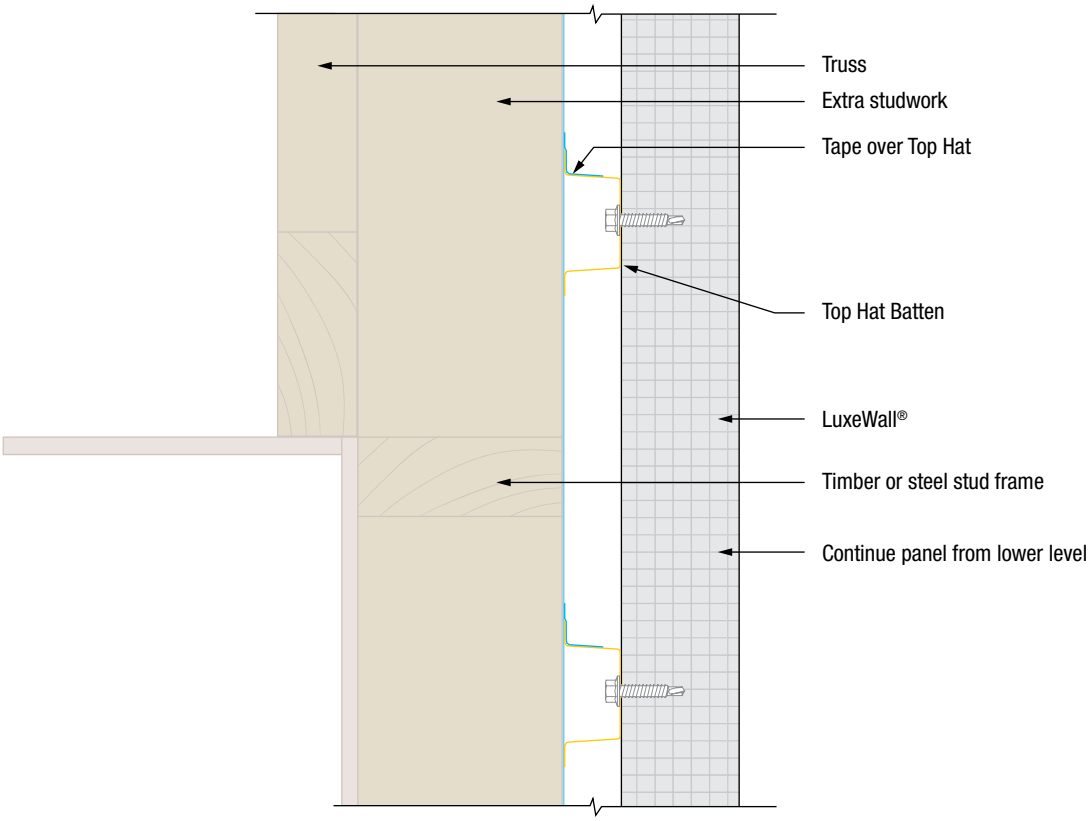
Two storey construction for pre-painted finishes allows for single panel lengths up to 6.5m, which provides a continuous unbroken finish.



9.0 Gable End Detail

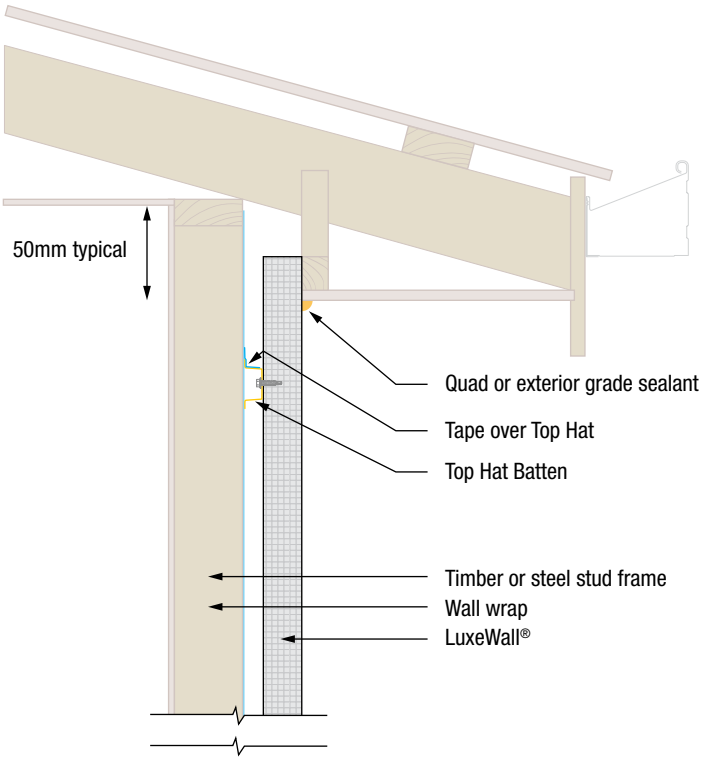
9.1 Gable End Detail & Batten Position



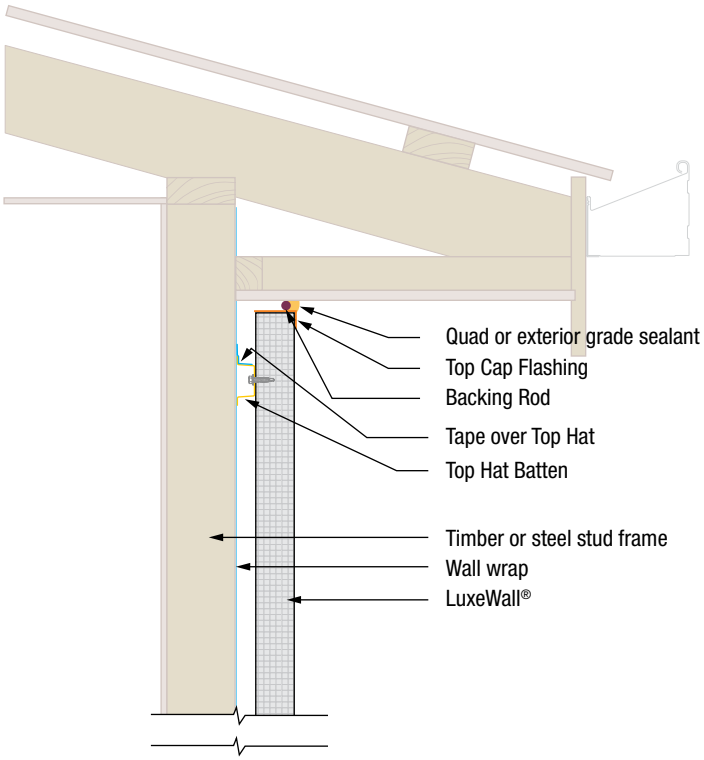


10.1 Wall Junction Options

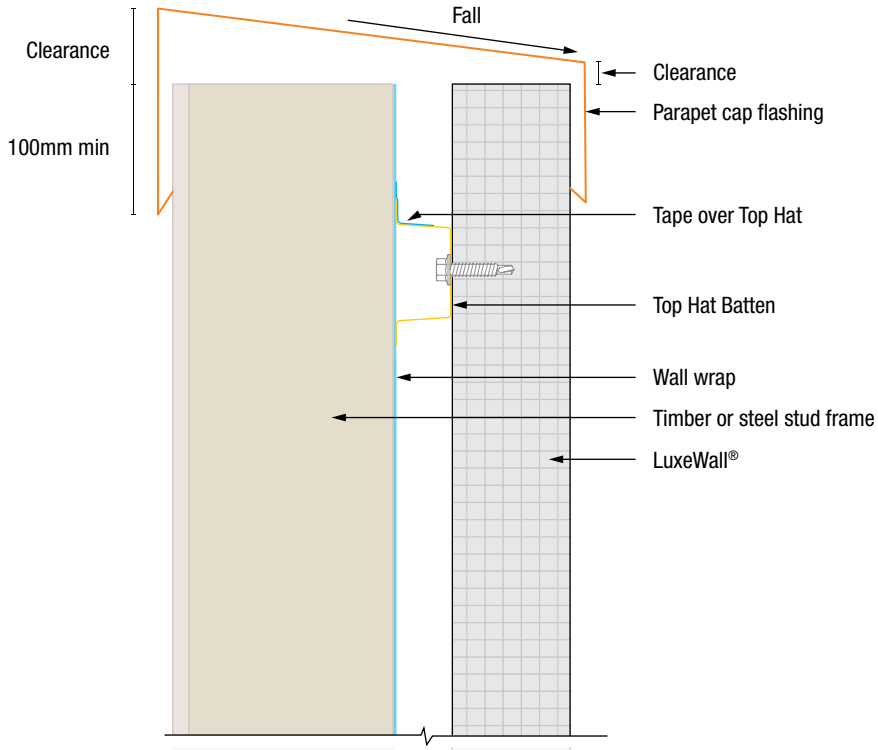
Option 1



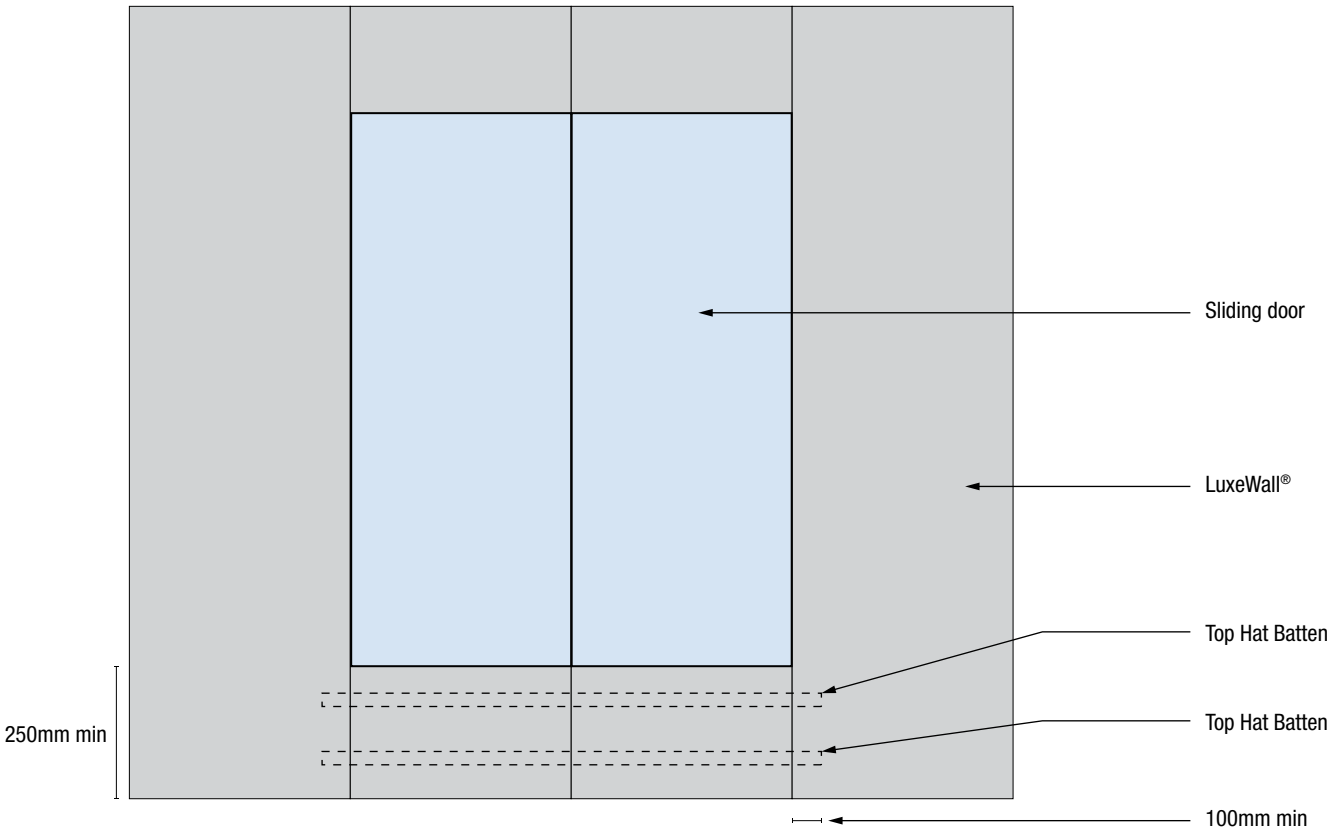
Option 2



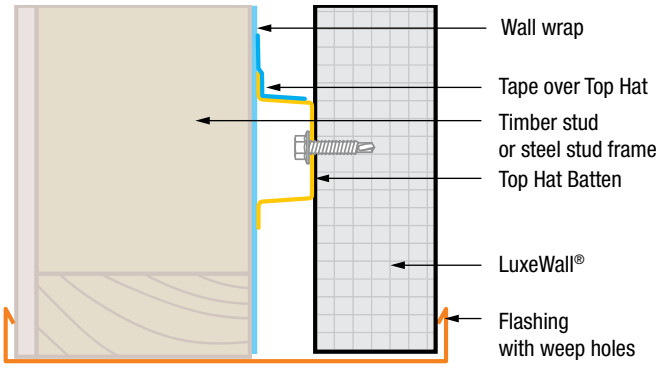
10.2 Parapet Capping

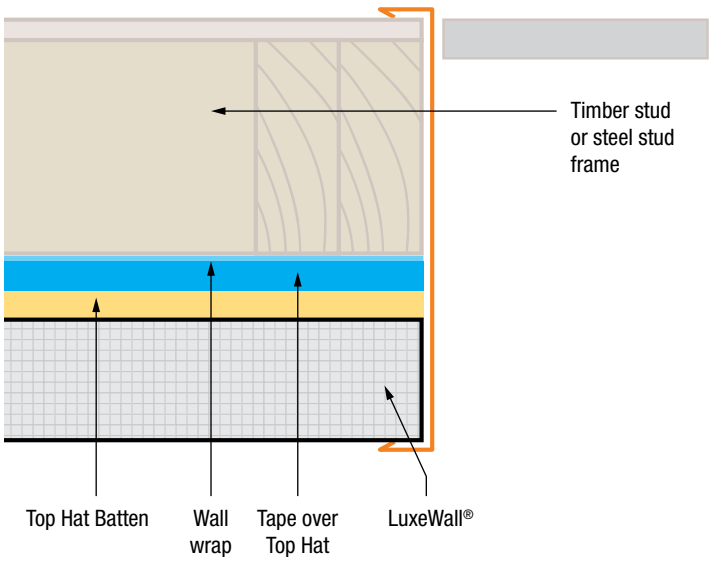


11.1 Sliding Door Detail



11.2 Garage Doors

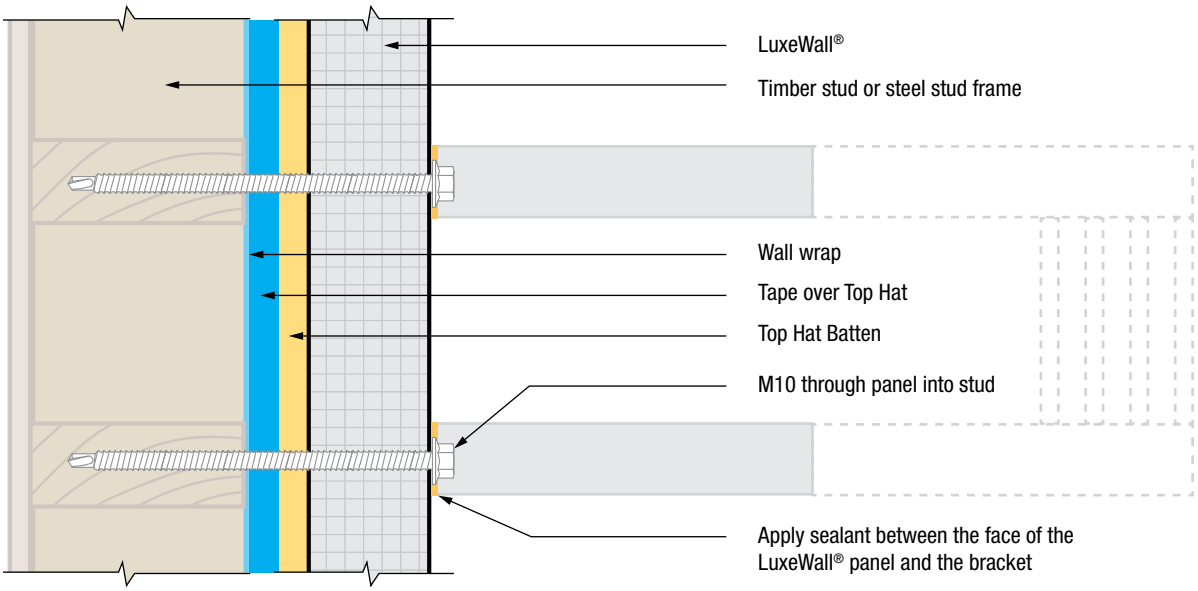




12.0 Accessories

12.1 Clothes Line or Similar

View from above



13.0 Finish Options

13.1 Pre-painted Finish Specification

13.1.1 Protective Plastic Removal

A protective plastic coating is adhered to the prefinished exterior facing surfaces (excludes primed) as a preventative measure from minor scratches. Similar to windows and other glazing products, the LuxeWall® protective plastic must be removed immediately as prolonged exposure to sunlight may increase adhesion and be more difficult to remove if left for prolonged periods. A sharp knife can be carefully used around crevices to remove the plastic cleanly. Absolute care must be taken to not damage the pre-finished surface beneath the plastic.

13.1.2 Maintenance

The LuxeWall® system has been designed to provide a durable external finish. Periodic maintenance is required to ensure that the system remains in good condition.

External surfaces should be examined for any damage or areas that may allow for water ingress, such as service penetrations. These should be inspected thoroughly, and sealed if necessary using the correct exterior, weatherproof sealant.

All pre-painted LuxeWall® panels are finished with a durable Colorbond® paint coating. Washing down of surfaces with clean water on a regular basis (every 6 months as a minimum) will maintain the surface finish and enhance the life of the product.

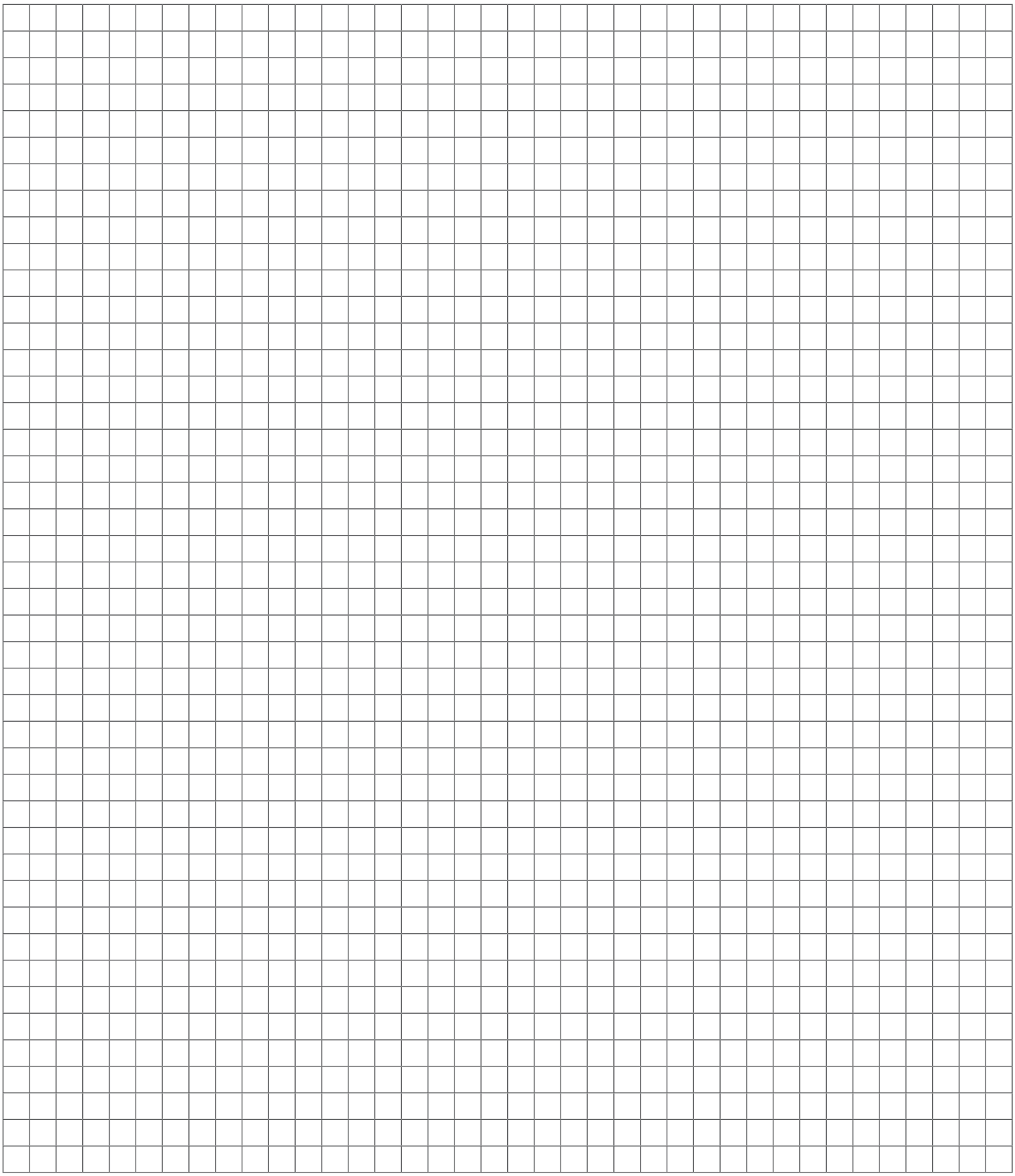
Unwashed areas are those that are sheltered and not washed naturally by rainwater (e.g. under eaves). It is of increased importance that these areas are washed down regularly with clean water. If water alone does not remove all dirt from the surface, a mild soap solution can be applied with a soft sponge, before being rinsed off the surface thoroughly with clean water.

Refer to the Bluescope Technical Bulletin 4 for further information regarding maintenance of Colorbond® surfaces.

13.2 Important Notes

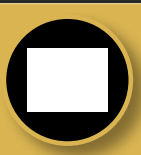
Failure to install, finish or maintain LuxeWall® in accordance with applicable building codes, regulations, standards and Bondor's written application instructions may lead to personal injury, violate local building codes, and void Bondor's product warranty. It is the builder's responsibility to ensure the product meets aesthetic requirements of the local council and design criteria of any developer covenants prior to installation.

Notes



Notes

When you only want the best

Performance Criteria				
Material	Brick Veneer	Weather Board	Autoclaved Aerated Concrete	LuxeWall® Panel
Finish	Monolithic	70's Retro	Stucco	Modern colours & finishes
Faster Construction Install rate compared to bricks	1 Brick	63 Bricks	75 Bricks	103 Bricks
Additional Trades Less is better	Optional render	Priming & painting required	Render required	None pre-finished

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