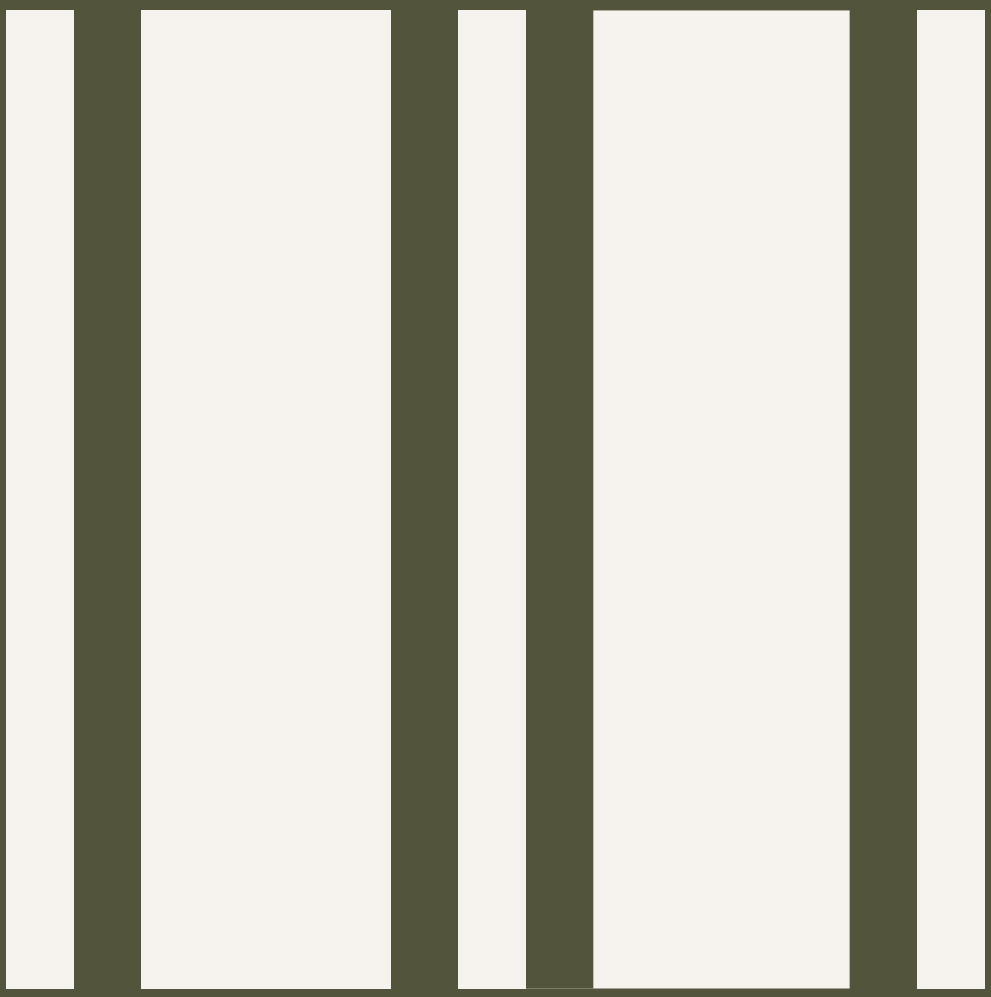
Forté

DESIGN GUIDE

Envello Vertical Cladding System

FOR USE WITH THE ENVELLO SHADOW LINE+ & BOARD & BATTEN+ CLADDING



ISSUE 2026.Q3

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1.0 RESPONSIBILITY AND DISCLAIMER

Important Information - Read before specifying

This Design Guide is provided as a general reference to assist architects, engineers and other building professionals. It has been developed based on the testing conducted by Forté on Millboard Envello Cladding and the knowledge and consideration of the current construction practises being followed in the industry. It is not an exhaustive specification.

The specifier (or other party responsible for the project) must:

— Verify that Millboard Envello Cladding is suitable for the intended use and site conditions.

— Ensure the final design complies with the **New Zealand Building Code (NZBC), CodeMark certificate and all other applicable laws and standards**.

— Ensure that all fixings, flashings and other components used meet the durability requirements of Clause B2 of the New Zealand Building Code (NZBC).

— Complete any additional detailing required for aspects outside the scope of this guide. Advice on this is available from Forte.

Failure to comply with the above, or to use the most up-to-date technical literature, may compromise façade performance, breach statutory obligations and void the Millboard Envello product warranty.

Responsibility for the design lies with the specifier or responsible party for the project to ensure the final design meets the requirements of the intended application and the New Zealand Building Code (NZBC).

Limitation of Liability

Except for the express terms of any written Envello warranty that cannot be excluded by law, Forte disclaims all warranties, conditions and liabilities (whether direct, indirect, consequential or otherwise) arising from the use of, or reliance on, this document. To the maximum extent permitted by law, Forte is not liable for loss, damage or injury whatsoever resulting from such use or reliance. Independent professional advice should be obtained for any design matters not expressly covered here.

PRODUCT OVERVIEW





The Envello cladding range is handmoulded from selected natural oak timber to achieve a distinctly organic appearance. Beneath the surface, the core is composed of natural minerals combined with a polymer resin and reinforced with long fibres, while the exterior is finished with a Lastane elastomer coating and a durable 2K UV-stable finish.

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2.1 SHADOW LINE+

Shadow Line+ Shiplap cladding system prefinished in eight colours with dual-tone hand finished surface layer.



LIMED OAK



SMOKED OAK



ASHWOOD



GOLDEN OAK



COPPERED OAK



ANTIQUE OAK



EBONY GREY



BURNT CEDAR

DIMENSIONS	18 T x 200 W x 3600mm L
WEIGHT	7.5kg/board and 11.6kg/m2
FORMAT	Board



2.2 BOARD & BATTEN+

Envello Board & Batten+ cladding system is prefinished in eight colours with a dual-tone hand finished surface layer



LIMED OAK



SMOKED OAK



ASHWOOD



GOLDEN OAK



COPPERED OAK



ANTIQUE OAK

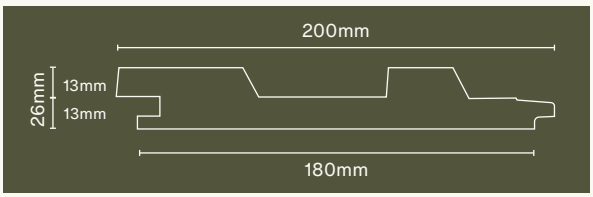


EBONY GREY



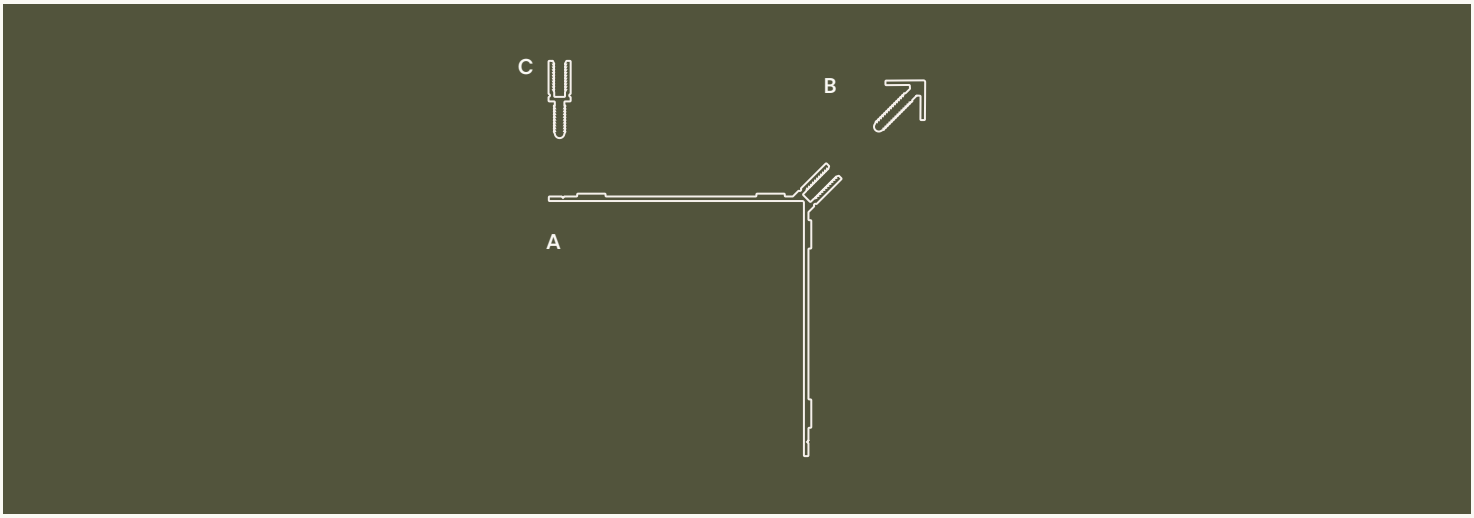
BURNT CEDAR

DIMENSIONS	26 T x 200 W x 3600mm L
WEIGHT	7.8kg/board and 12kg/m2
FORMAT	Board



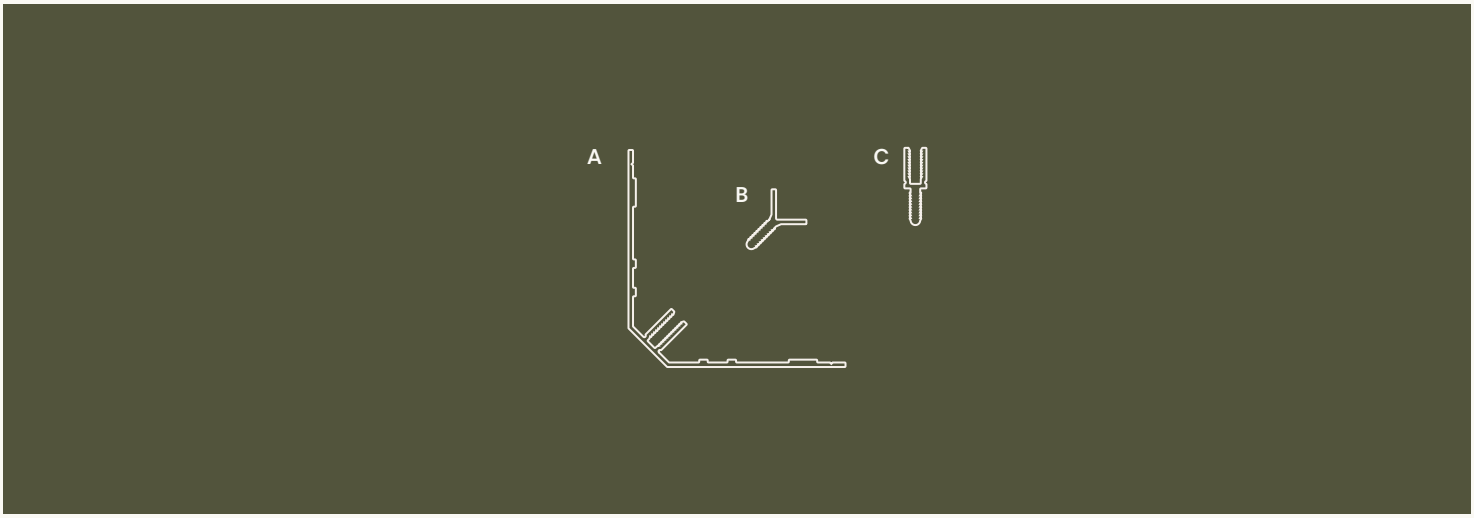
2.3 TENONTRIM+ ACCESSORIES

2/3pc External Corner Flashing



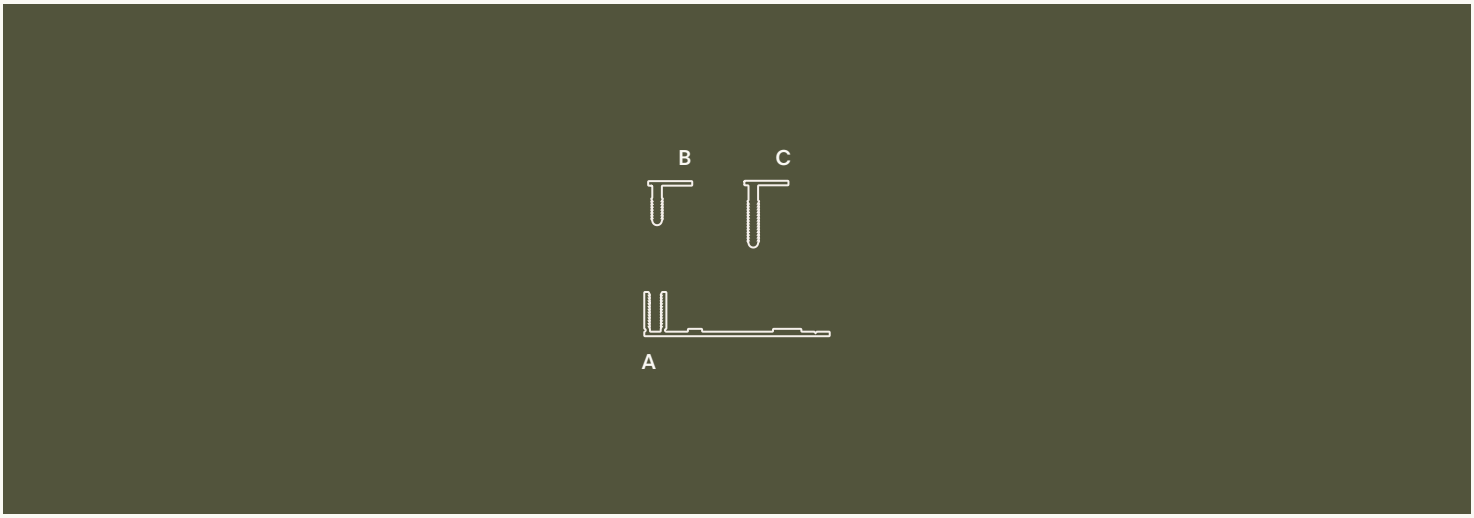
	[A] TENONTRIM+ EXTERNAL CORNER BASE FLASHING	[B] TENONTRIM+ EXTERNAL CORNER CAP	[C] TENONTRIM+ FLASHING EXTENDER
APPLICATION	Shadow Line+, Board & Batten+	Shadow Line+, Board & Batten+	Board & Batten+
THICKNESS	1.6mm	1.6mm	1.6mm
COVERAGE	90mm x 90mm	14mm x 14mm	26mmx8mm
LENGTH	3.7m	3.7m	3.7m
FINISH	Monument Powdercoated	Anotec Mid Bronze (Powdercoated) Desert Sand (Powdercoated) Monument (Powdercoated) Unfinished (Mill Finish)	Monument (Powdercoated)
PRODUCT CODES	TTR-ECBF-MM	Anotec Mid Bronze TTR-ECC-AB Desert Sand TTR-ECC-DS Monument TTR-ECC-MM Unfinished TTR-ECC-UF	TTR-FE-MM

2/3pc Internal Corner Flashing



	[A] TENONTRIM+ INTERNAL CORNER BASE FLASHING	[B] TENONTRIM+ INTERNAL CORNER CAP	[C] TENONTRIM+ FLASHING EXTENDER
APPLICATION	Shadow Line+, Board & Batten+	Shadow Line+, Board & Batten+	Board & Batten+
THICKNESS	1.6mm	1.6mm	1.6mm
COVERAGE	75mm x 75mm	11mm x 11mm	26mmx8mm
LENGTH	3.7m	3.7m	3.7m
FINISH	Monument Powdercoated	Anotec Mid Bronze (Powdercoated) Desert Sand (Powdercoated) Monument (Powdercoated) Unfinished (Mill Finish)	Monument (Powdercoated)
PRODUCT CODES	TTR-ICBF-MM	Anotec Mid Bronze TTR-ICC-AB Desert Sand TTR-ICC-DS Monument TTR-ICC-MM Unfinished TTR-ICC-UF	TTR-FE-MM

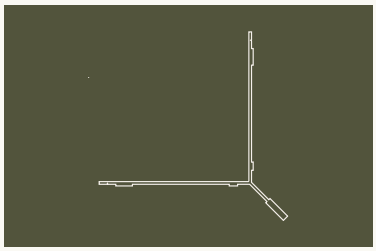
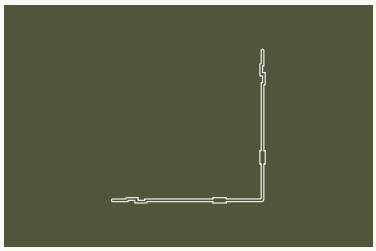
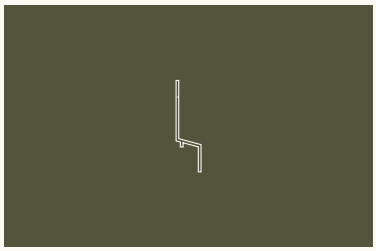
2pc Transition Flashing Base

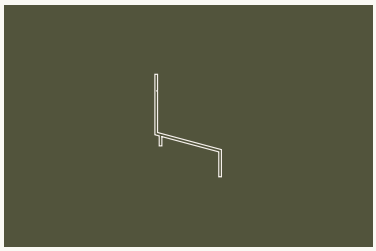
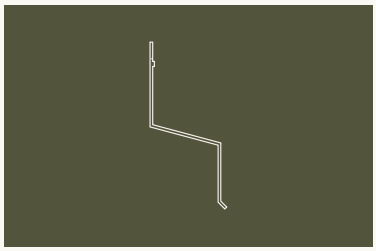
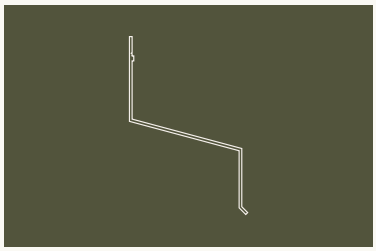


	[A] TENONTRIM+ TRANSITION FLASHING BASE	[B] TENONTRIM+ TRANSITION SHORT CAP	[C] TENONTRIM+ TRANSITION LONG CAP
APPLICATION	Shadow Line+, Board & Batten+	Shadow Line+,	Board & Batten+
THICKNESS	1.6mm	1.6mm	1.6mm
COVERAGE	65mm x 16mm	15mm x 15mm	15mm x 23mm
LENGTH	3.7m	3.7m	3.7m
FINISH	Monument (Powdercoated)	Anotec Mid Bronze (Powdercoated) Desert Sand (Powdercoated) Monument (Powdercoated) Unfinished (Mill Finish)	Anotec Mid Bronze (Powdercoated) Desert Sand (Powdercoated) Monument (Powdercoated) Unfinished (Mill Finish)
PRODUCT CODES	TTR-TFB-MM	Anotec Mid Bronze TTR-TSC-AB Desert Sand TTR-TSC-DS Monument TTR-TSC-MM Unfinished TTR-TSC-UF	Anotec Mid Bronze TTR-TLC-AB Desert Sand TTR-TLC-DS Monument TTR-TLC-MM Unfinished TTR-TLC-UF

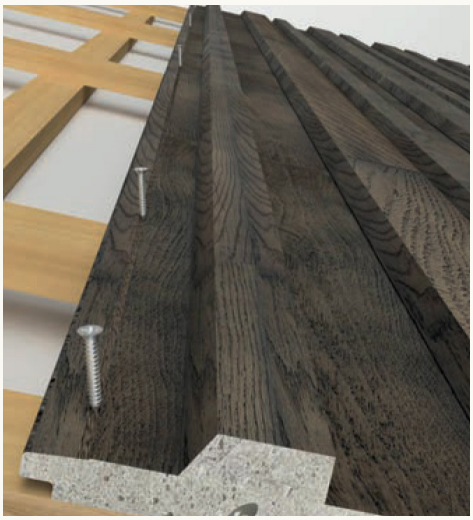


2.4 TENONTRIM ACCESSORIES

	TenonTrim External Corner Y Flashing	TenonTrim Multi Flashing (Internal & External)	TenonTrim Cavity Closer 20mm
DRAWING			
APPLICATION	Shadow Line+, Board & Batten+	Shadow Line+, Board & Batten+	Shadow Line+, Board & Batten+
THICKNESS	1.6mm	1.6mm	1.6mm
COVERAGE	90mm x 90mm	90mm x 90mm	60mm x 15mm
LENGTH	3.7m	3.7m	3.7m
FINISH	Monument (Powdercoated) Unfinished (Mill Finish)	Monument (Powdercoated)	Monument (Powdercoated)
PRODUCT CODES	Monument TTR-EXYF-MM Unfinished TTR-EXYF-UF	TTR-MF90-MM	TTR-CC20-MM

	TenonTrim Cavity Closer 45mm	TenonTrim Interstory Flashing 20mm	TenonTrim Interstory Flashing 45mm
DRAWING			
APPLICATION	Shadow Line+, Board & Batten+	Shadow Line+, Board & Batten+	Shadow Line+, Board & Batten+
THICKNESS	1.6mm	1.6mm	1.6mm
COVERAGE	60mm x 40mm	100mm x 45mm	100mm x 70mm
LENGTH	3.7m	3.7m	3.7m
FINISH	Monument (Powdercoated)	Unfinished	Unfinished
PRODUCT CODES	TTR-CC45-MM	TTR-IF20-UF	TTR-IF45-UF

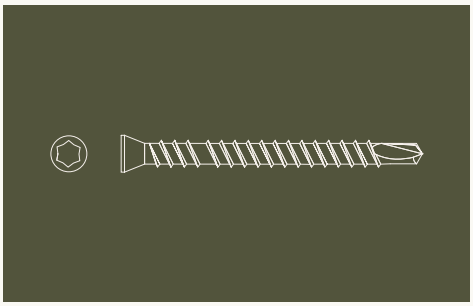
2.5 ACCESSORY - FIXINGS



TENONFIX FIXING SCREWS - CLADDING BOARDS

Envello Cladding boards should be fixed through the tongue using cladding fixings – one fixing at each batten intersection, and two fixings per batten where boards are joined. Fixings should be inserted through the guide groove on the tongue, angled slightly toward the board, with the head sitting flush with the surface.

	20MM CAVITY ON FLEXIBLE	20MM CAVITY ON RAB	45MM STRUCTURAL CAVITY
DIMENSIONS	4.2mm W x 65mm L	4.2mm W x 75mm L	4.2mm W x 45mm L
FORMAT	Box of 250	Box of 250	Box of 250
PRODUCT CODE	TFSC-65	TFSC-75	TFSC-45



TENONFIX SCREW APPLICATION

PRODUCT	APPLICABLE UNDERLAY
TenonFix 65mm screw	20mm with Flexible
TenonFix 75mm screw	20mm with Rigid
TenonFix 45mm screw	45mm with both underlay options

*All accessories available in matching colour profiles. Colour pairings available for Y Profiles.

SCOPE & LIMITATIONS





The Forté Envello Vertical Cladding system is designed for use in low-rise residential and some commercial projects.

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3.3 FIre Rating 19

3.1 SCOPE & LIMITATIONS OF USE

The following guidance outlines where the Forté Envello Cladding System can be used, and any limitations or conditions that apply to ensure safe, compliant and long-lasting installations.

SCOPE	LIMITATIONS
Location — In wind zones up to and including extra high as defined in NZS 3604:2011 or to a design wind pressure (ULS) of 2.1 kPa. — In all exposure zones as defined in NZS 3604:2011. — Greater than 1m from a relevant boundary.	— For use in micro climatic conditions, as defined in NZS 3604:2011, contact Forté for technical advice. — Fixings must be stainless steel fixings or in accordance with Table C.3.1.1 of E2/AS1.
— The cladding system is designed for vertical orientation only on low-rise residential and some commercial projects. — The cladding system is designed for single board spans up to 3600mm. — In conjunction with a primary structure that complies with the NZ Building Code or existing buildings where the designer and/ or installer have satisfied themselves that the existing building is suitable for the intended building work. — On timber or lightweight steel-framing. — As an external cladding system.	— The cladding system can be used on two storey buildings with an interstorey junction. — A thermal break must be installed if the framing is lightweight steel. — The building must be within the scope of paragraph 1.1 of E2/AS1. — The building must be less than 10 m in building height and greater than 1m from the boundary. — The building must have a risk score of less than or equal to 20 when evaluated against the E2/AS1 risk matrix. — The cladding must be installed over a drained and ventilated cavity. — The cladding must be installed in conjunction with a flexible building wrap or rigid underlay in accordance with Clauses 9.1.4 to 9.1.6 of E2/AS1 that meet the requirements of Table C.2.1.1 or installed with a proprietary product with a current Product Certificate. — Joinery must meet the requirements of NZS 4211. Where FRR is required, Envello Cladding must be used and the external wall is subject to specific fire design.

3.2 COMPLIANCE

CodeMark

CodeMark is a voluntary product certification scheme. It proves that a building product or method meets the rules of the New Zealand Building Code. Local building authorities must accept a valid CodeMark certificate as proof of compliance.

CodeMark
CMNZ70204

VM1

Verification Method E2/VM1 is a standard New Zealand Building Code test procedure used to prove that exterior wall and roof claddings keep buildings dry. It tests weathertightness on buildings up to 10 meters high by exposing test panels to water sprays, static air pressure, and cyclic air pressure

VM1 provides evidence of compliance to obtain CodeMark.

NZ BUILDING CODE CLAUSE	COMPLIANCE PATHWAY
B1 STRUCTURE (2ND EDITION) B1.3.1, B1.3.2, B1.3.3 (a, f, h, j, q), B1.3.4	Codemark CMNZ70204
B2 DURABILITY (3RD EDITION) B2.3.1, B2.3.2 (b)	Codemark CMNZ70204
E2 EXTERNAL MOISTURE (4TH EDITION) E2.3.2, E2.3.3, E2.3.5, E2.3.7	Codemark CMNZ70204
F2 HAZARDOUS BUILDING MATERIALS (1ST EDITION) F3.2.1	Codemark CMNZ70204

3.3 FIRE RATING

Envello cladding boards are crafted with fire retardants in the board composition.

They have been tested to BS EN 13501-1 and have a classification of D-s3, d0 - NZ Fire Rating Group 3 for use in low rise residential & some commercial projects that are below 10m in height and are more than 1m from the boundary.

SPECIFYING SUBSTRATE





The choice of substructure is crucial to the success of any cladding installation. This section outlines the key considerations when using wall underlays and framing with Envello cladding, including structural requirements, material compatibility, and common applications.

4.1 Wall Underlays 22
4.2 Structure and Framing 23

4.1 WALL UNDERLAYS

When used with Envello cladding wall underlays must be weather-resistant, correctly overlapped, and securely installed. Rigid options are needed in high-wind areas and certain unlined spaces for extra protection.

Flexible Wall Underlays

- Shall comply with E2/AS1 9.1.6.1 & Table C.2.1.1.
- Wall underlay, Pro Clima, Solitex Extasana or equivalent
- Be run horizontally.
- Have upper sheets lapped over lower sheets to ensure that direction of laps will allow water to be shed to outside of the wall underlay.
- Be lapped not less than 75mm at horizontal joints.
- Be lapped not less than 150mm over studs at vertical joints, and extend 35mm below bottom plate or bearer.
- Be restrained from bulging into a drained cavity. Refer to Base to Wall page 24.

Rigid Wall Underlays

Rigid wall underlays, in association with drained cavities (including direct fixed corrugated profiled metal), are required in Extra High wind zones. Refer to Table 3.1.3.2 and Table C.2.1.1 Clause 9.1.6.2 to 9.1.6.4. Rigid underlays are also required to external walls of attached garages that are unlined. Refer to paragraphs 1.1.2.2 and 9.1.2.7).

- Are required in extra high wind zones as Table C.2.1.1 Clause 9.1.6.2 to 9.1.6.4 and Table 3.1.3.2.
- Be minimum 7mm H3 plywood, or 6mm fibre cement sheet.
- Be installed with sheet edges fixed over solid framing.
- Be over-fixed with a flexible wall underlay from Table C.2.1.1 and installed as in Paragraph 9.1.6.1.
- Have flexible underlay folded into opening reveals as in Paragraph 9.1.4.
- Have cavity battens at 400mm centres.
- Be finish flushed with underside of bottom plate or bearer.
- Alternatively, a wall underlay with a Product Certificate (CodeMark) or BRANZ Appraisal are acceptable provided the scope of use and conditions comply.

4.2 STRUCTURE AND FRAMING

Envello Cladding can be easily installed over timber or steel framing that meets building standards. Cavity and jamb battens require specific dimensions, spacing, treatment, and fixing to support cladding and airflow.

Timber Framing

— The substrate to be within the framing tolerances of NZS 3604 Section 2 Table 2.1.

— Specific requirements refer to NZS3604 Sections 6 & 11.

Steel Framing

— Steel framing in accordance with NZS: 3404 Steel Frames Buildings & B1/AS or by specific design.

Cavity Battens

— As per E2/AS1 9.1.7.8 and be complaint with B2/AS1.

— Installed over wall underlay, either flexible of rigid compliant with E2/AS1 Table C.2.1.1.

— H3.2 MCA treated Castellated / D4S Cavity Battens.

— Recommended batten spacing of 400mm (480mm max.)

— High wind loading areas 1.0kN/m2 reduced to 400mm centres.

— Batten spacing at the bottom of the wall must have 2 cavity battens spaced 200mm apart, to ensure the cladding is properly supported.

— Vertical (D4S) Cavity Battens as per Detail Drawing sets

20mm Cavity

— Be nominal 20mm (between limits of 18mm and 25mm in thickness).

— Be a minimum 45mm wide.

— Be fixed, by the cladding fixings, through the wall underlay into the framing.

45mm Cavity

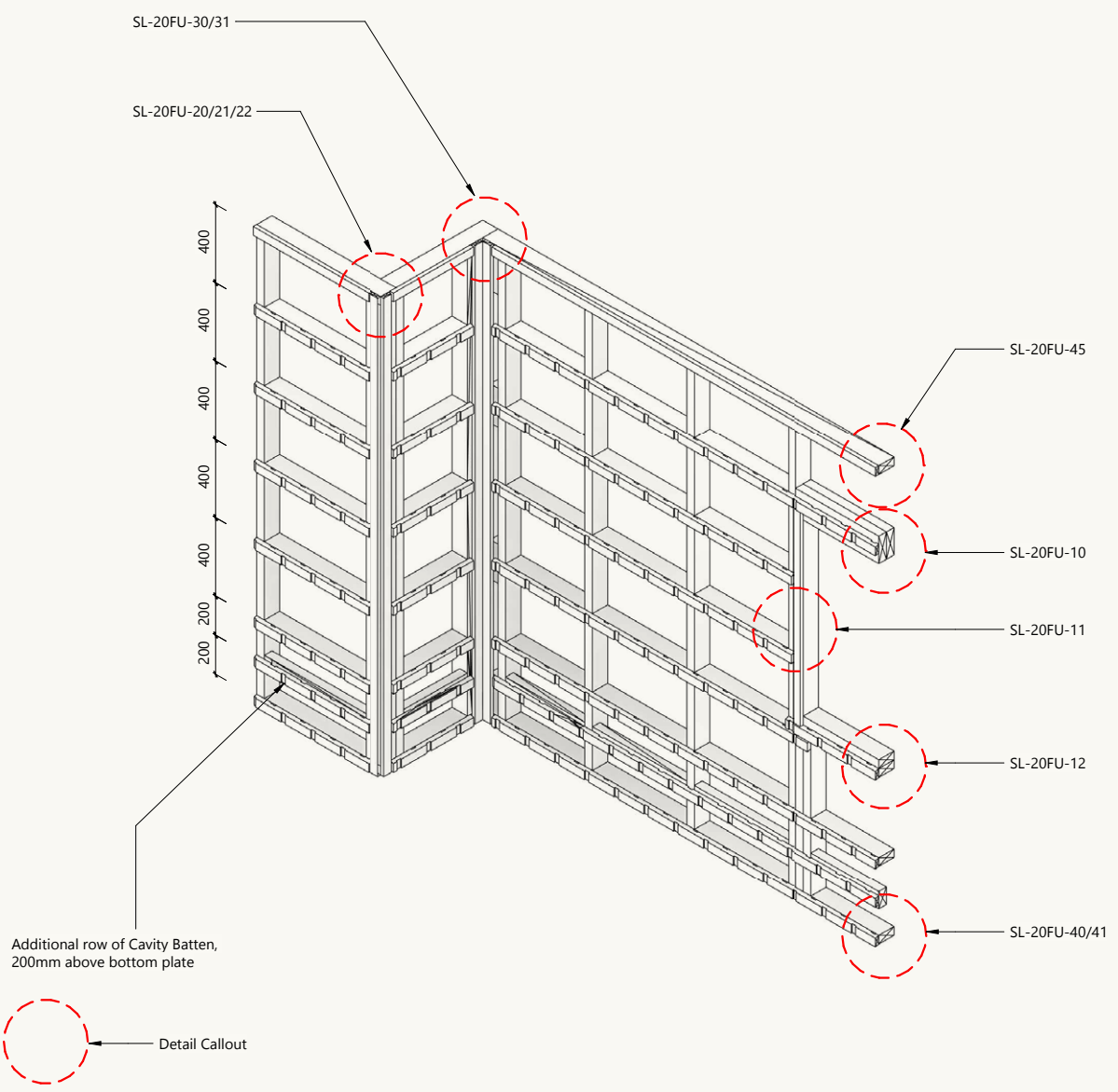
— Be nominal 45mm (between limits of 40mm and 45mm in thickness).

— Be a minimum 45mm wide.

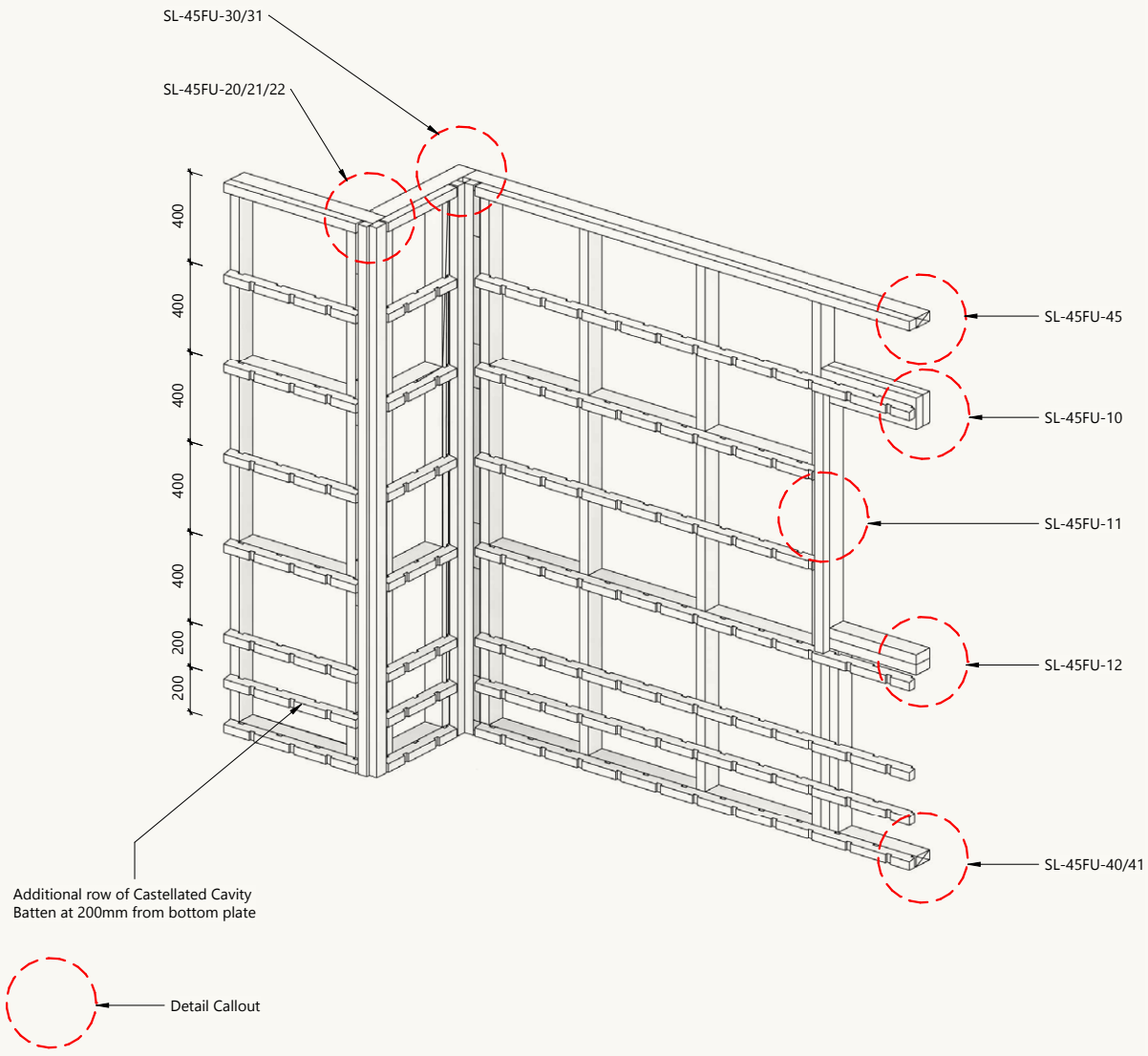
— Battens structurally fixed into the main framework of the building structure.

— Cladding fixings not to exceed thickness of the Cavity Batten.

BATTEN LAYOUT – 20MM



BATTEN LAYOUT – 45MM



45mm x 45mm cavity batten structurally fixed into framing with 90mm x 12g Stainless Steel Screw
Max. span 600mm centres

FINISHING DETAILING





Successful cladding design extends beyond board selection. This section outlines key Envello finishing details, including ground clearances, perforated closures, corners, window and wall head detailing, and other architectural features.

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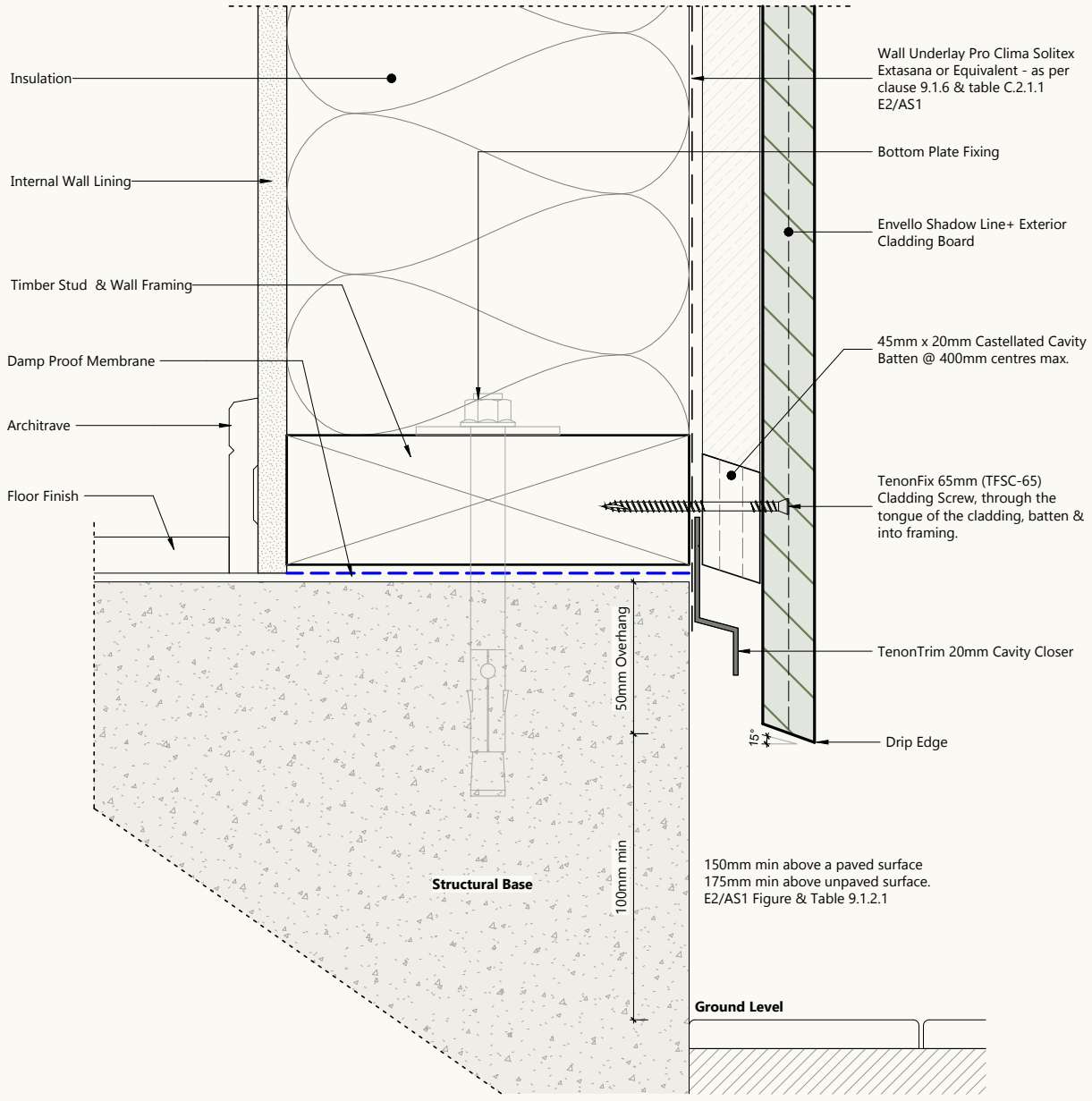
5.1 BASE TO WALL (CONCRETE FLOOR)

Clearance below Envello cladding prevents moisture damage, allowing drainage. Maintain required gaps above ground, paving, and decking for durability and code compliance.

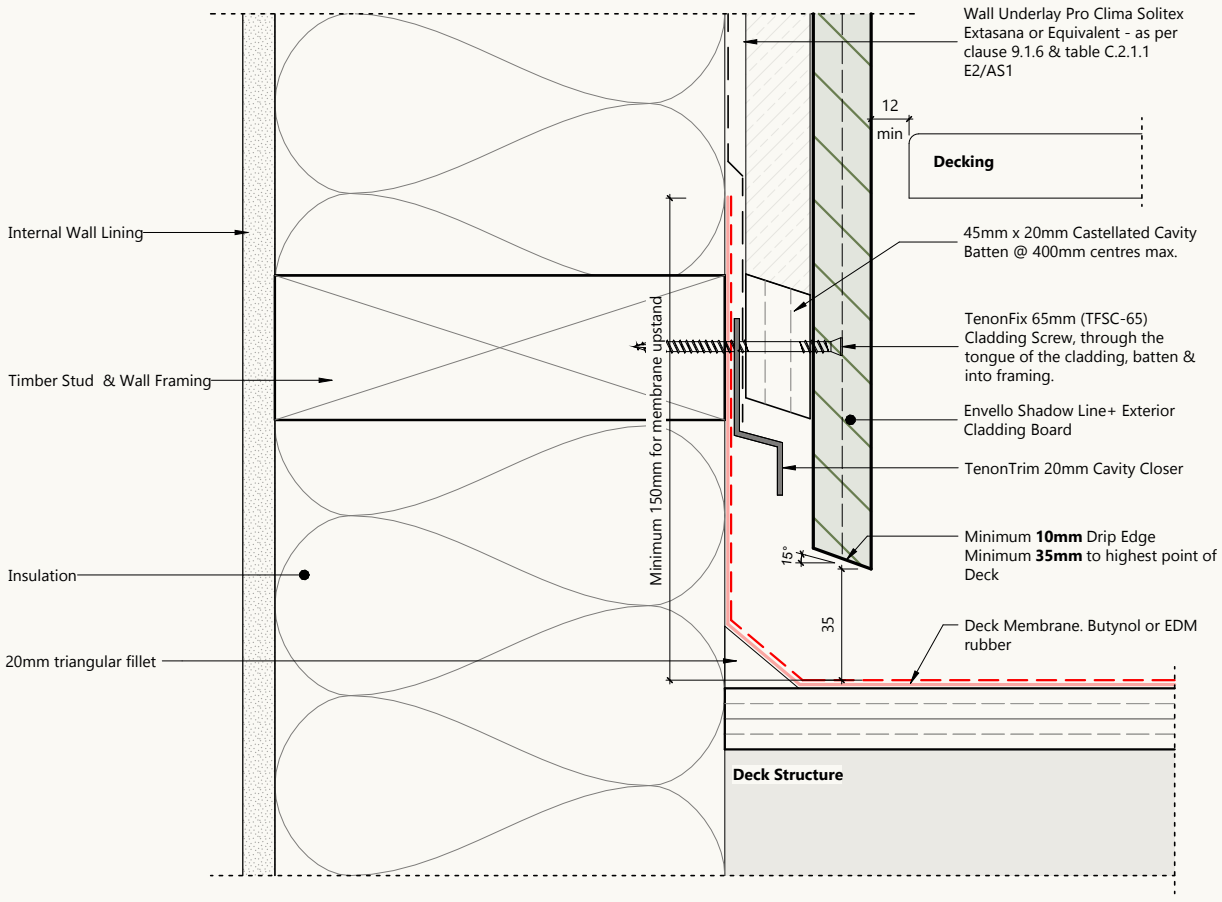
Clearance is required to create separation between the cladding and ground surface.

- As per E2/AS1 Paragraph 9.1.2 & Figure 9.1.2.1 and Table 9.1.2.1.
- Extend past the bottom plate by 50mm.
- Finish 35mm from bottom of cladding to highest point of decking.
- Finish a minimum of 175mm above unpaved ground.
- Finish a minimum of 100mm above paved ground.

BASE OF WALL – GROUND LEVEL
SHADOWLINE+, 20MM



BASE TO WALL – ENCLOSED DECK
SHADOW LINE+, 20MM



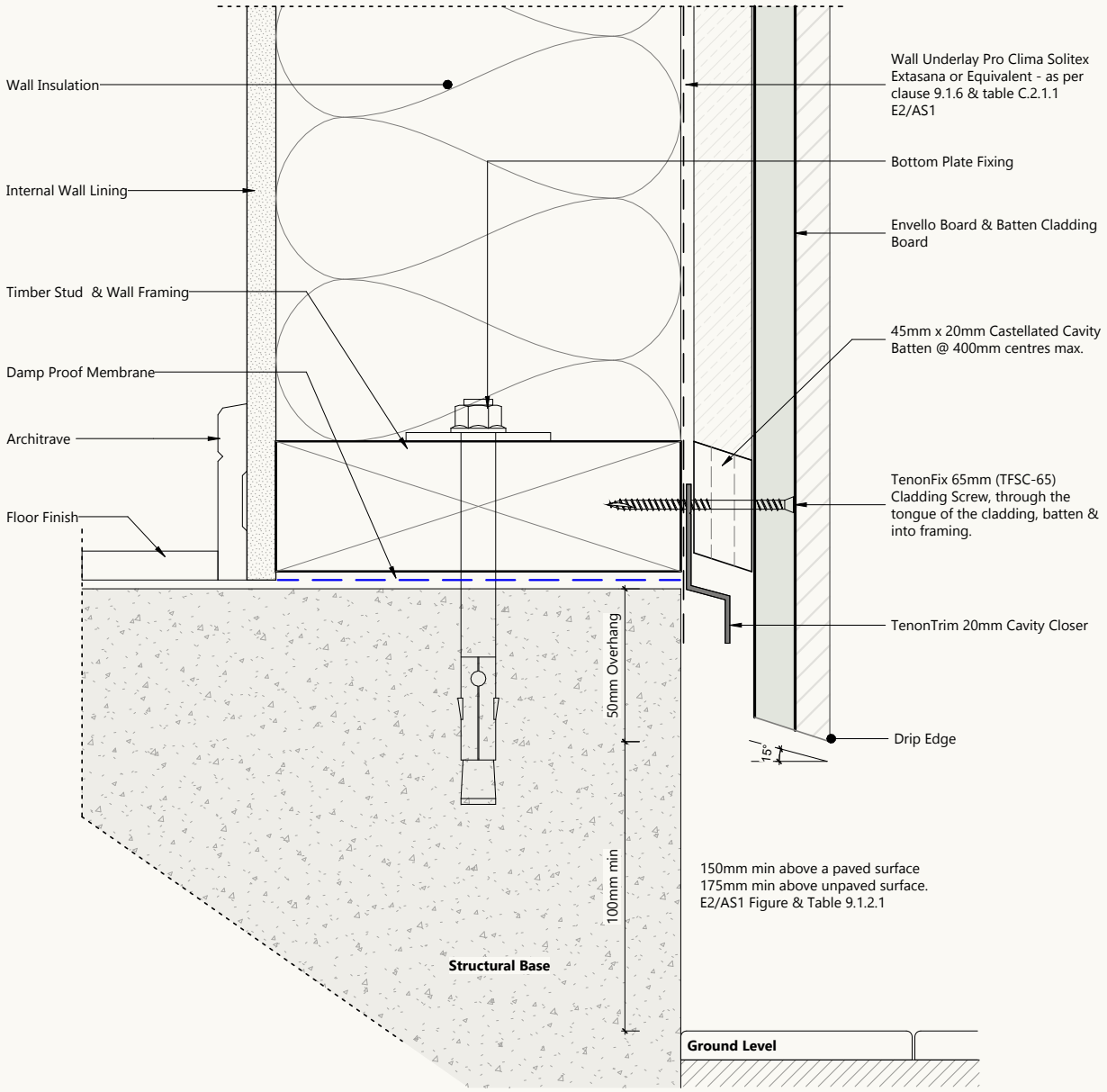
Drainage cavity for the control of moisture is a key element in the design and construction of cladding. It is a requirement (as per NZBC E2 AS1) not an option and should not be overlooked.

An 18mm minimum open cavity should always be provided behind the cladding and to dissipate any condensation or drainage at the bottom (see Fig.1 & Fig2).

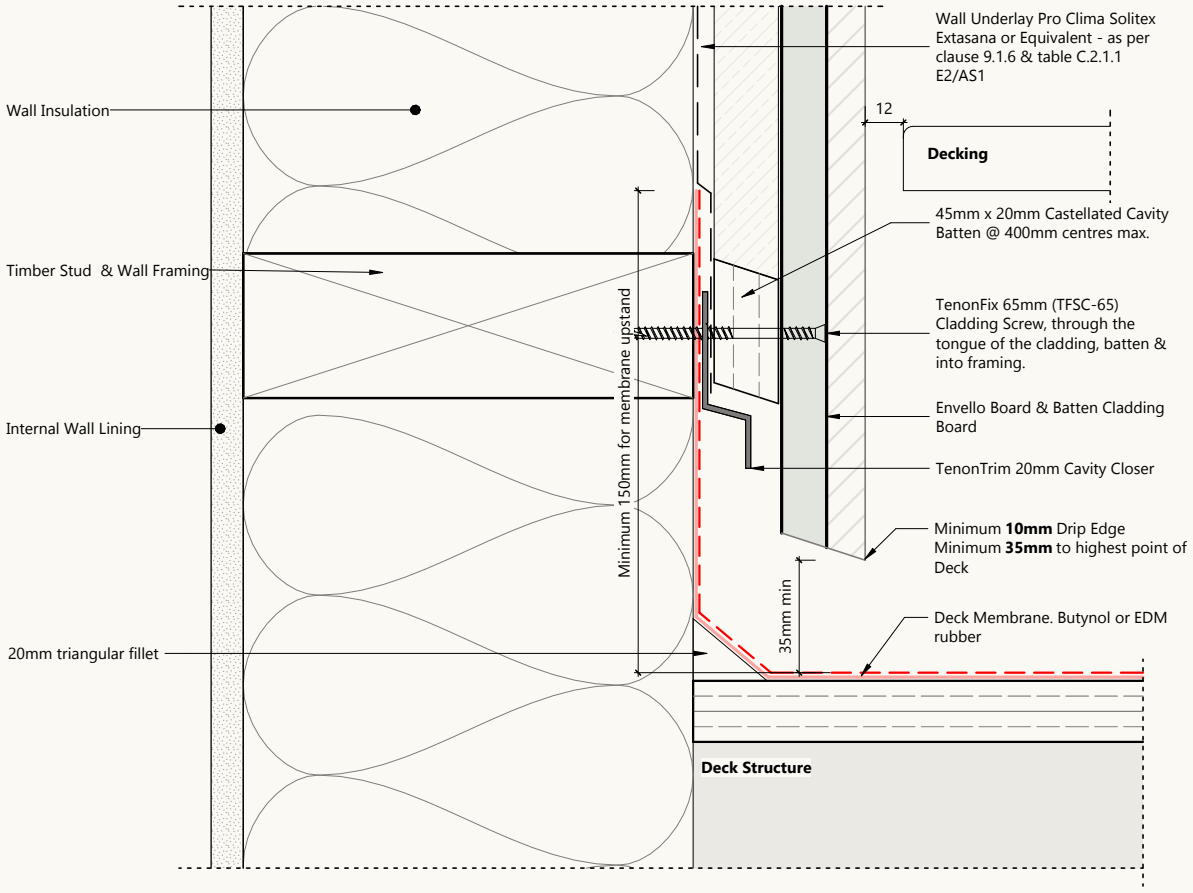
Drainage pathways for cavities should be provided at the bottom of the cavity and above the window head.

Insect and rodent invasion should also be considered, and a perforated cavity closure should be used to counter these threats where there is the required air gap, whilst still maintaining the required air flow.

BASE TO WALL – GROUND LEVEL BOARD & BATTEN+, 20MM



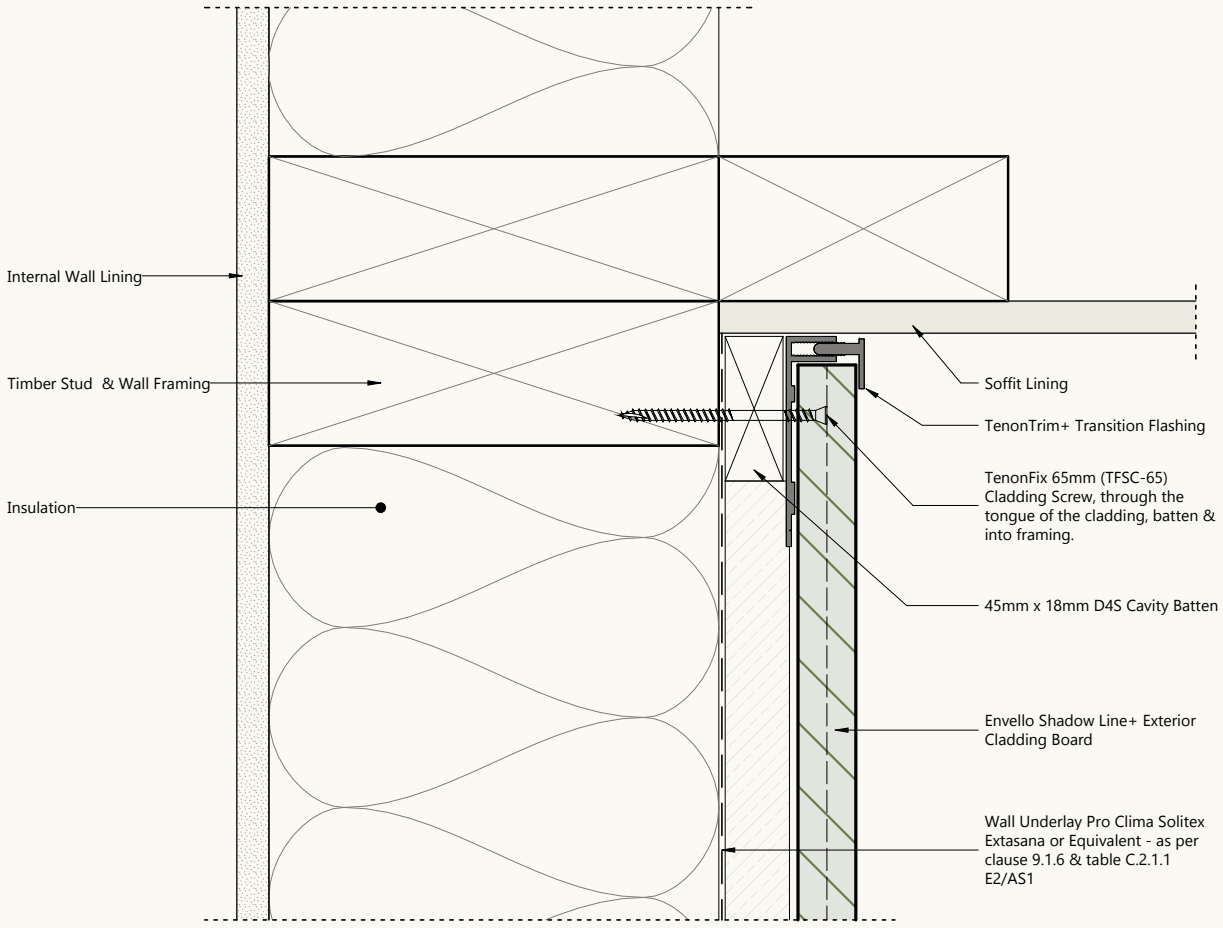
BASE TO WALL – ENCLOSED DECK
BOARD & BATTEN+, 20MM



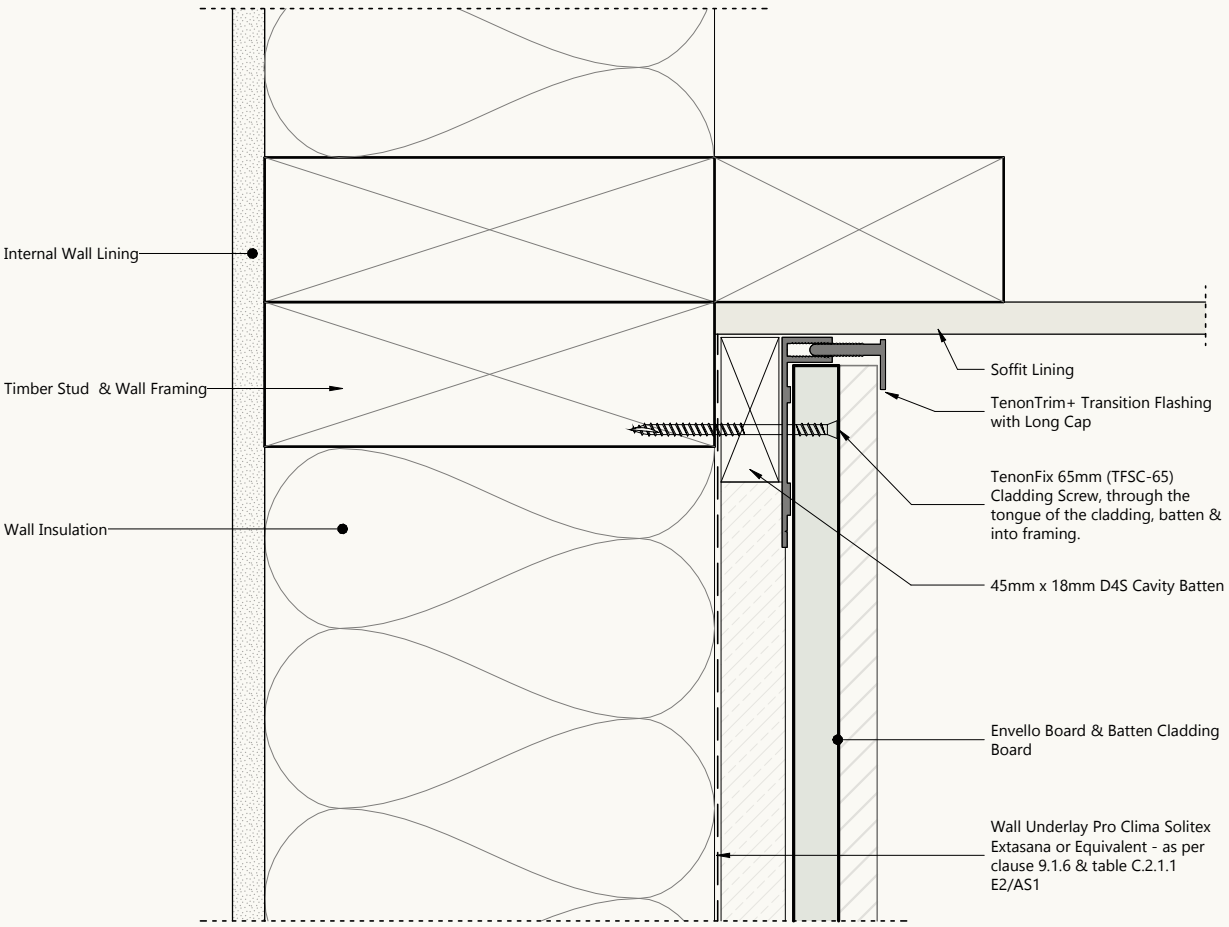


5.2 SOFFITS

WALL HEAD – WITH TENONTRIM+ TRANSITION FLASHING
SHADOW LINE+ 20MM



WALL HEAD – WITH TENONTRIM+ TRANSITION FLASHING BOARD & BATTEN+ 20MM



EXTERNAL CORNER Y FLASHING

The External Y Flashing is designed to create a clean, seamless, mitred finish on external corners.

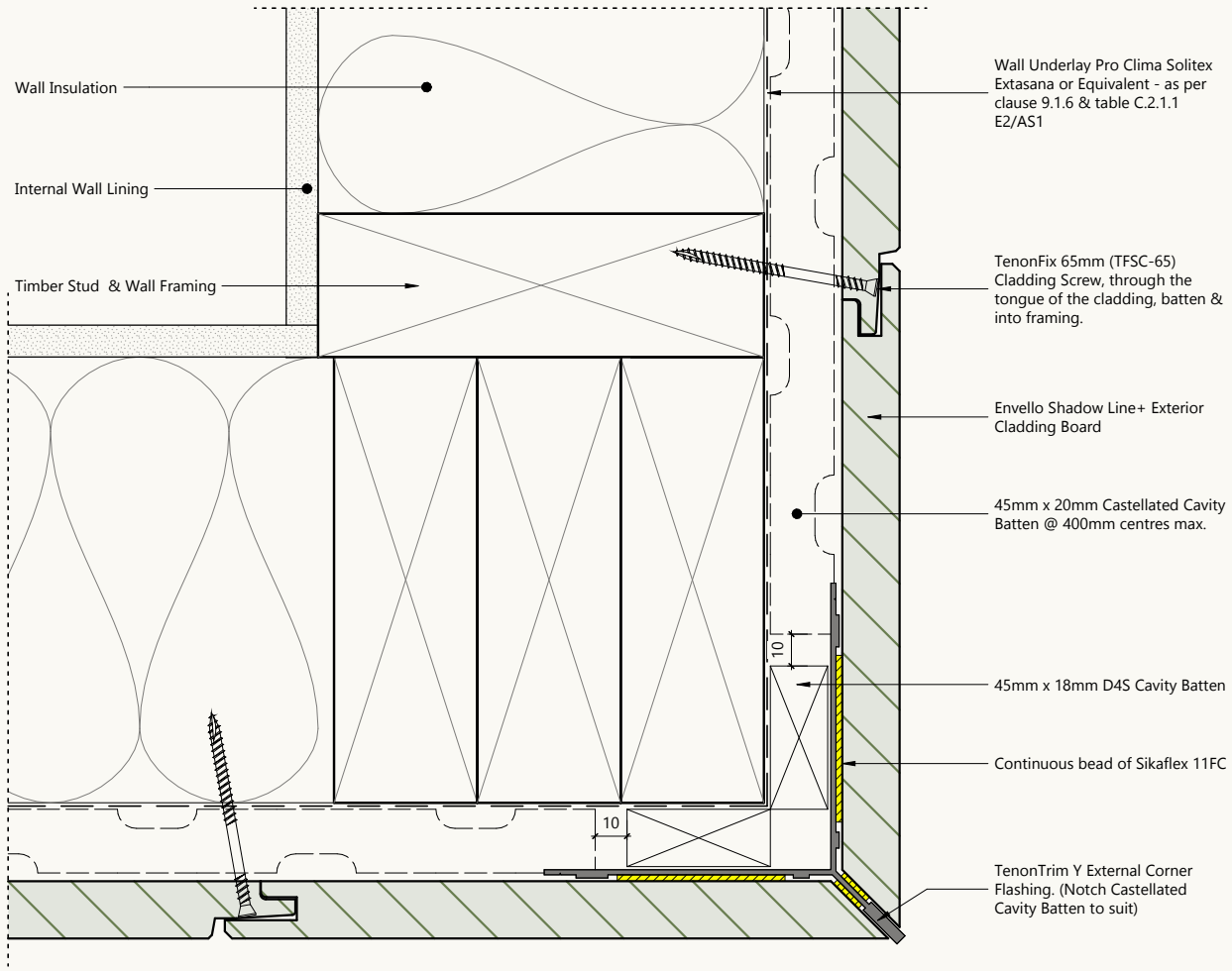
When installing the Y Flashings, ensure:

— Flashing is fixed with 20mm screws at 300mm centres on both sides of the Flashing.

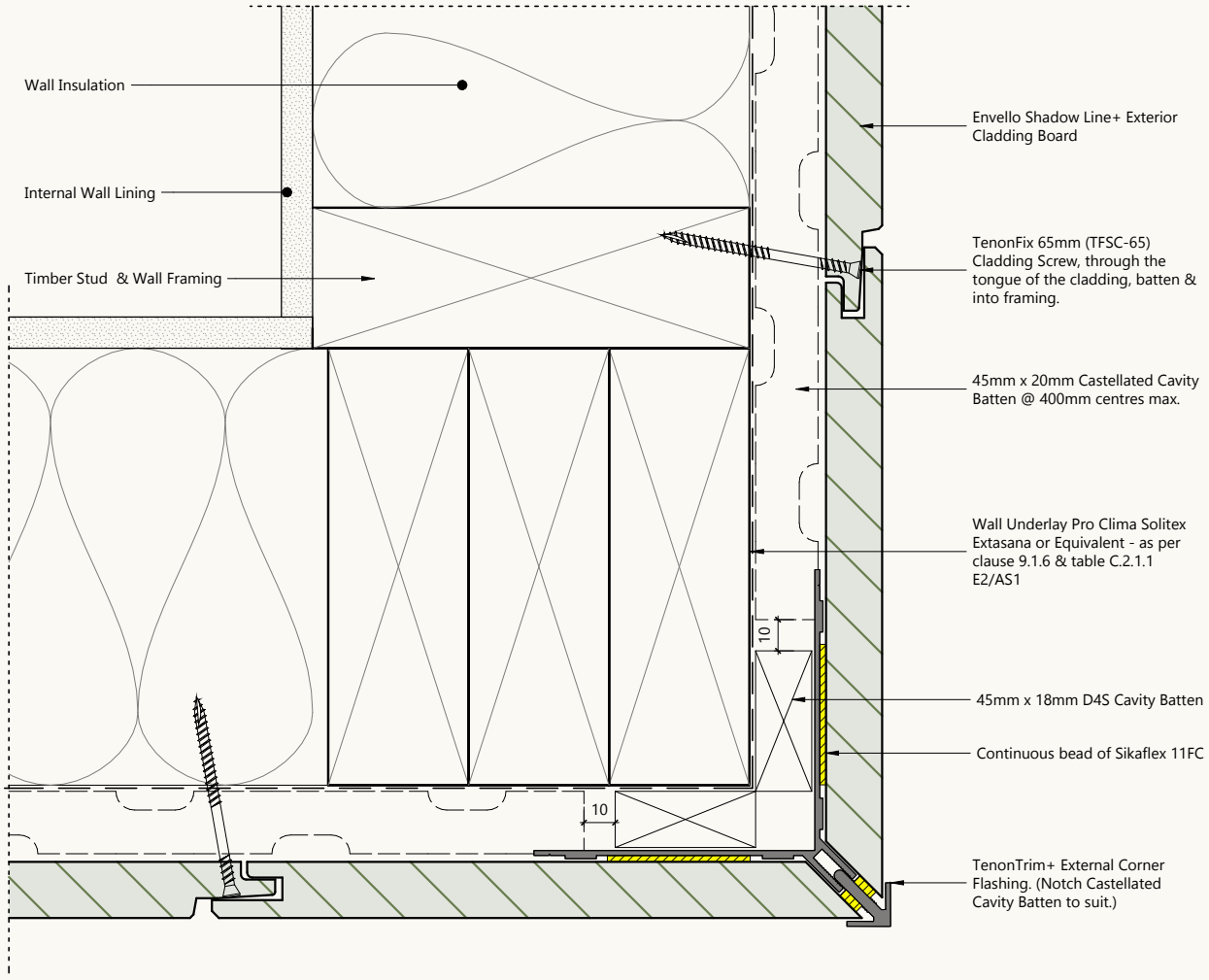
— For multi-storey installations, overlap the upper flashing by 20mm over the lower, securing both sides of the flashing with 20mm screws for a neat, continuous detail.

— Ensure either side of the flashing is sealed using a continuous bead of Sikaflex FC11 sealant.

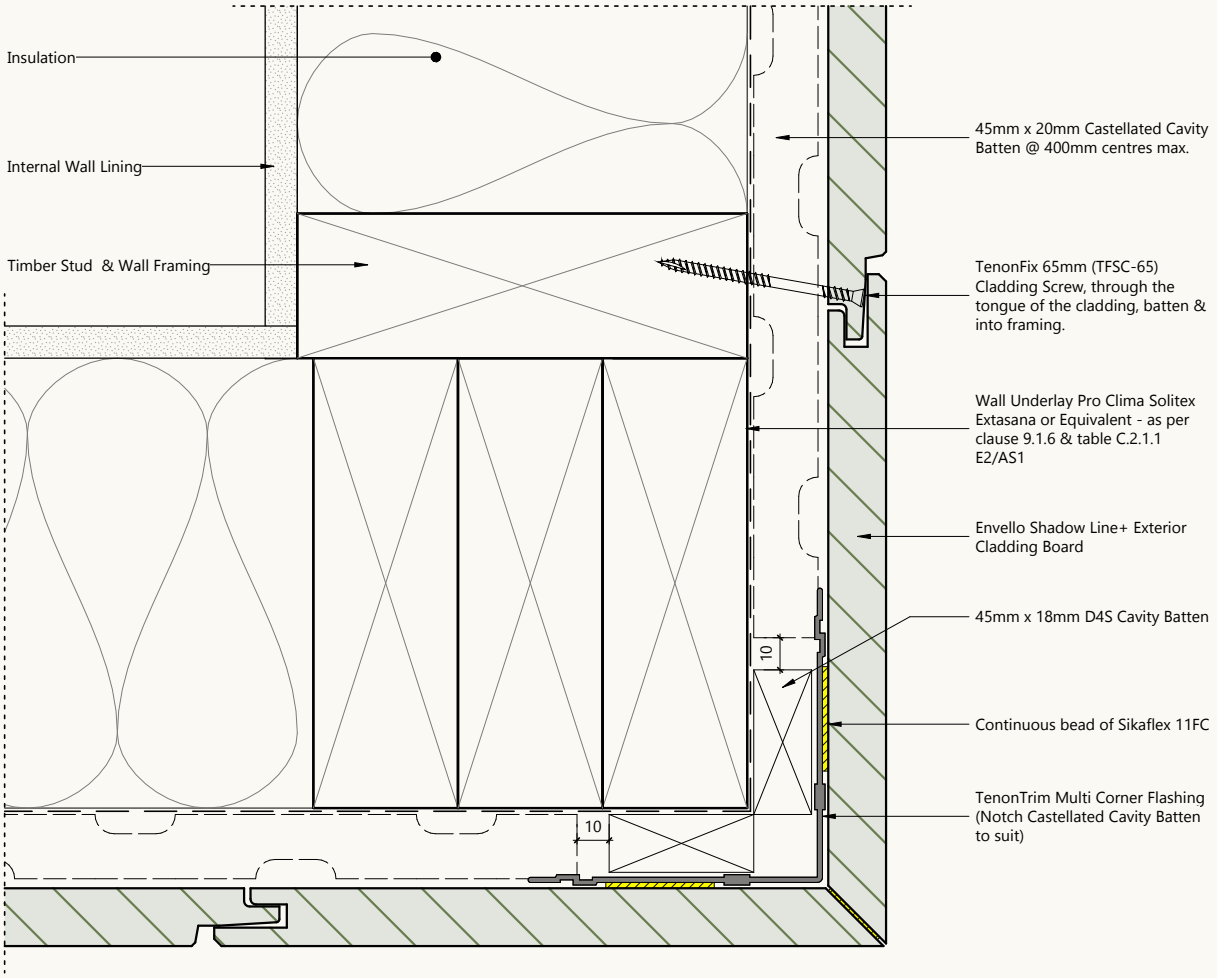
EXTERNAL CORNER – TENONTRIM Y EXTERNAL CORNER FLASHING SHADOW LINE+ 20MM



EXTERNAL CORNER – TENONTRIM+ EXTERNAL CORNER FLASHING SHADOW LINE+ 20MM



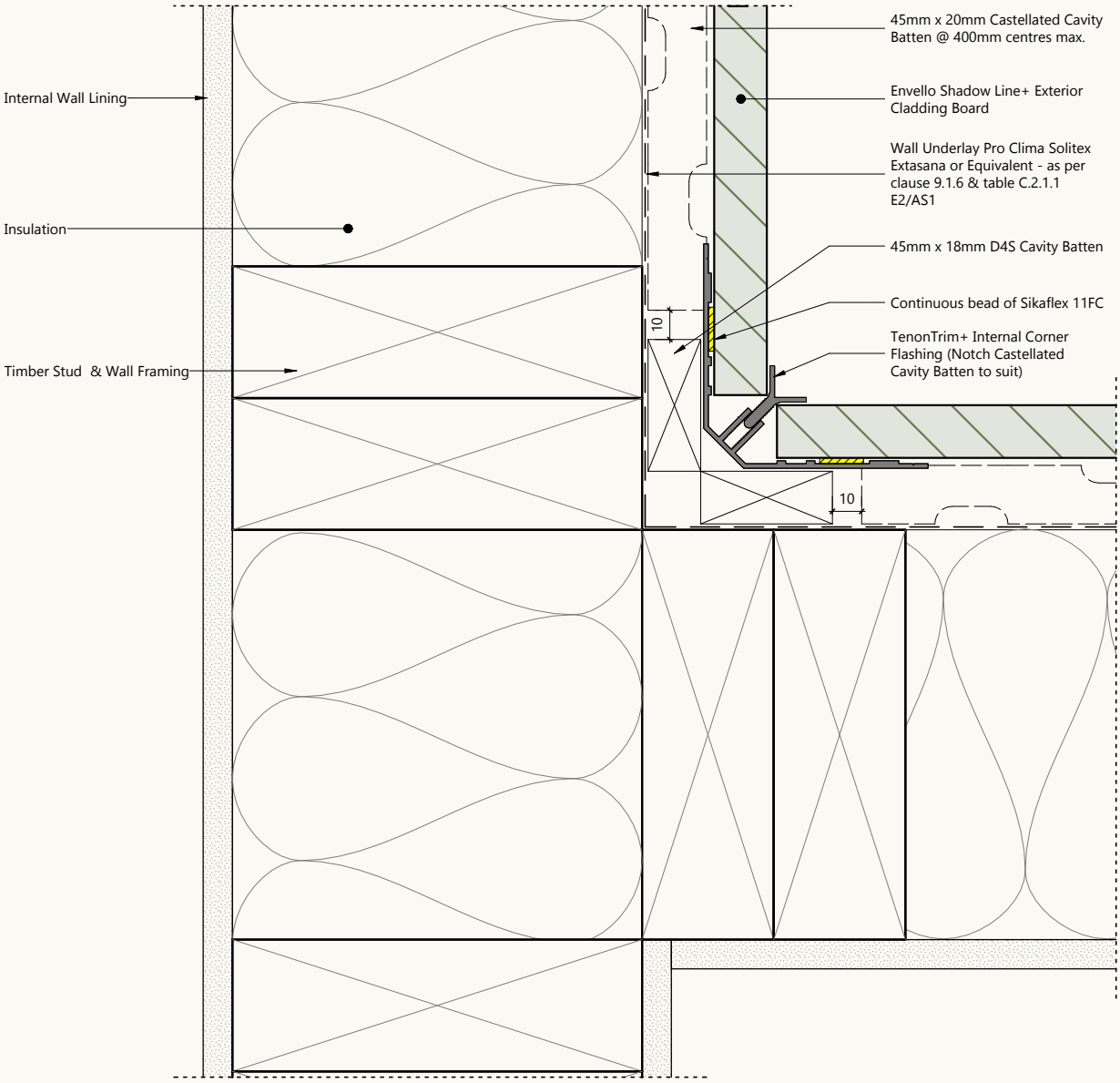
EXTERNAL CORNER – MITRE WITH TENONTRIM MULTI FLASHING SHADOW LINE+ 20MM



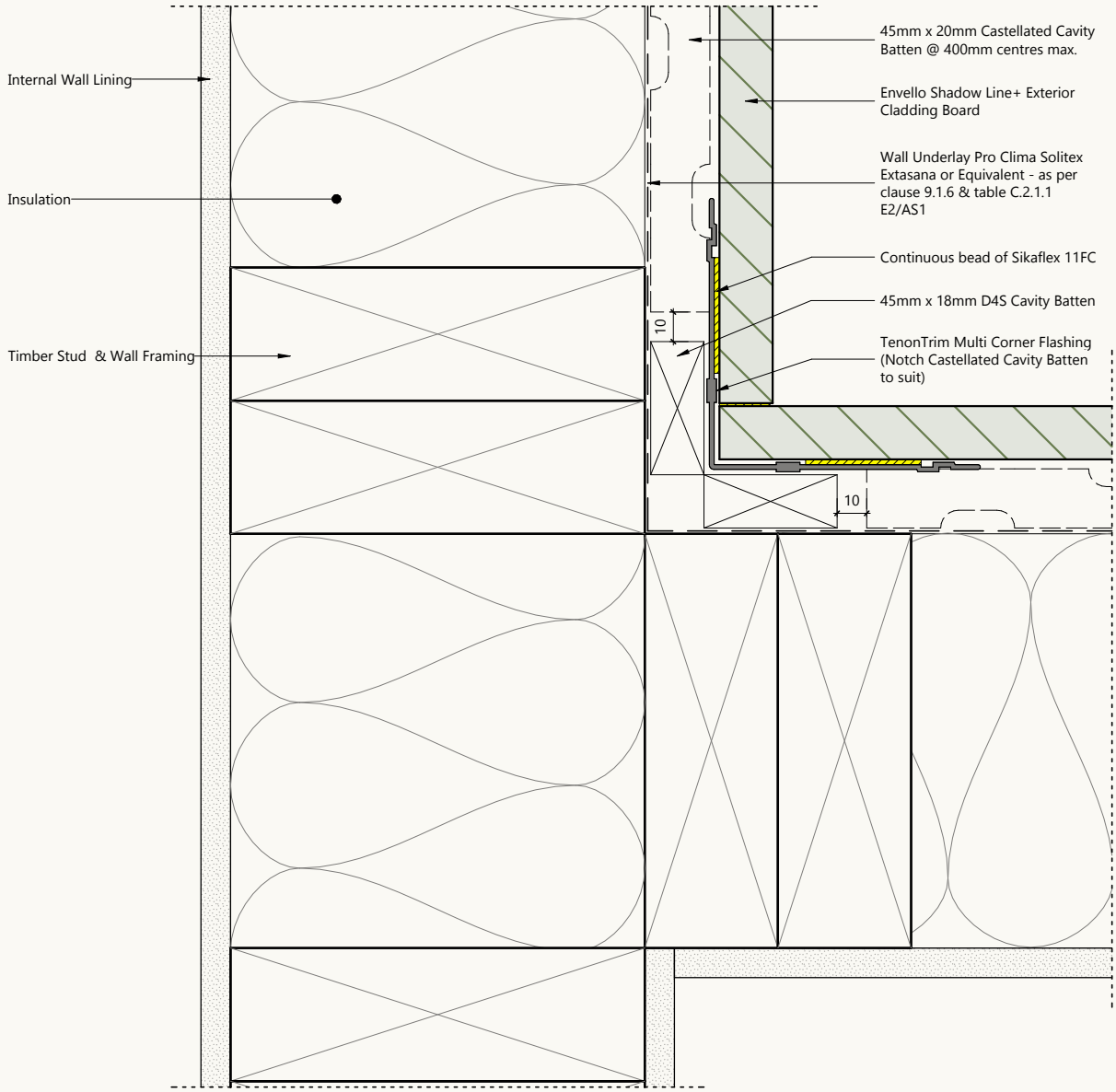
INTERNAL CORNER PROFILE

Internal corners can be finished by simply butting boards together.

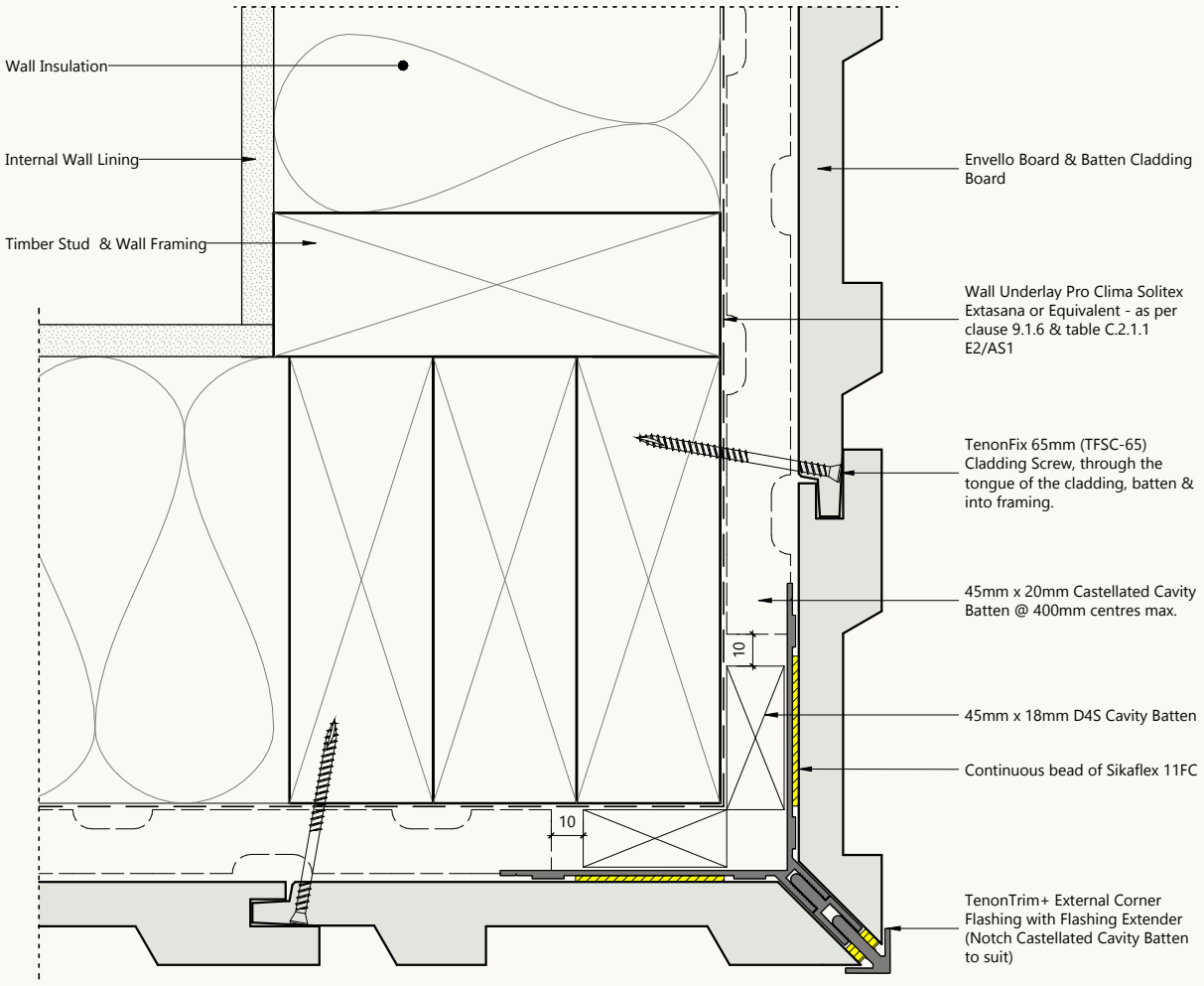
INTERNAL CORNER – TENONTRIM+ INTERNAL CORNER FLASHING SHADOW LINE+ 20MM



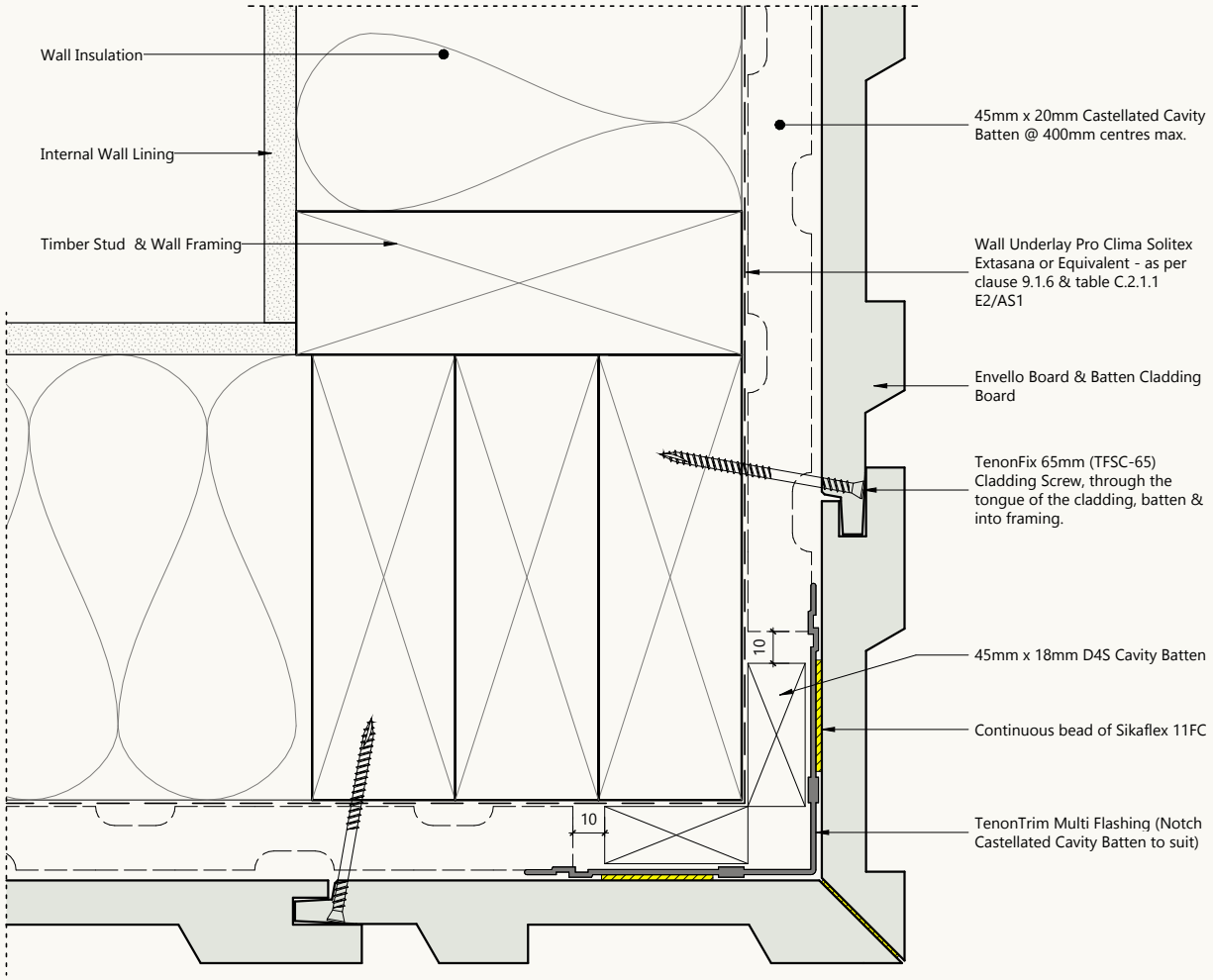
INTERNAL CORNER – BUTT JOIN WITH TENONTRIM MULTI FLASHING SHADOW LINE+ 20MM



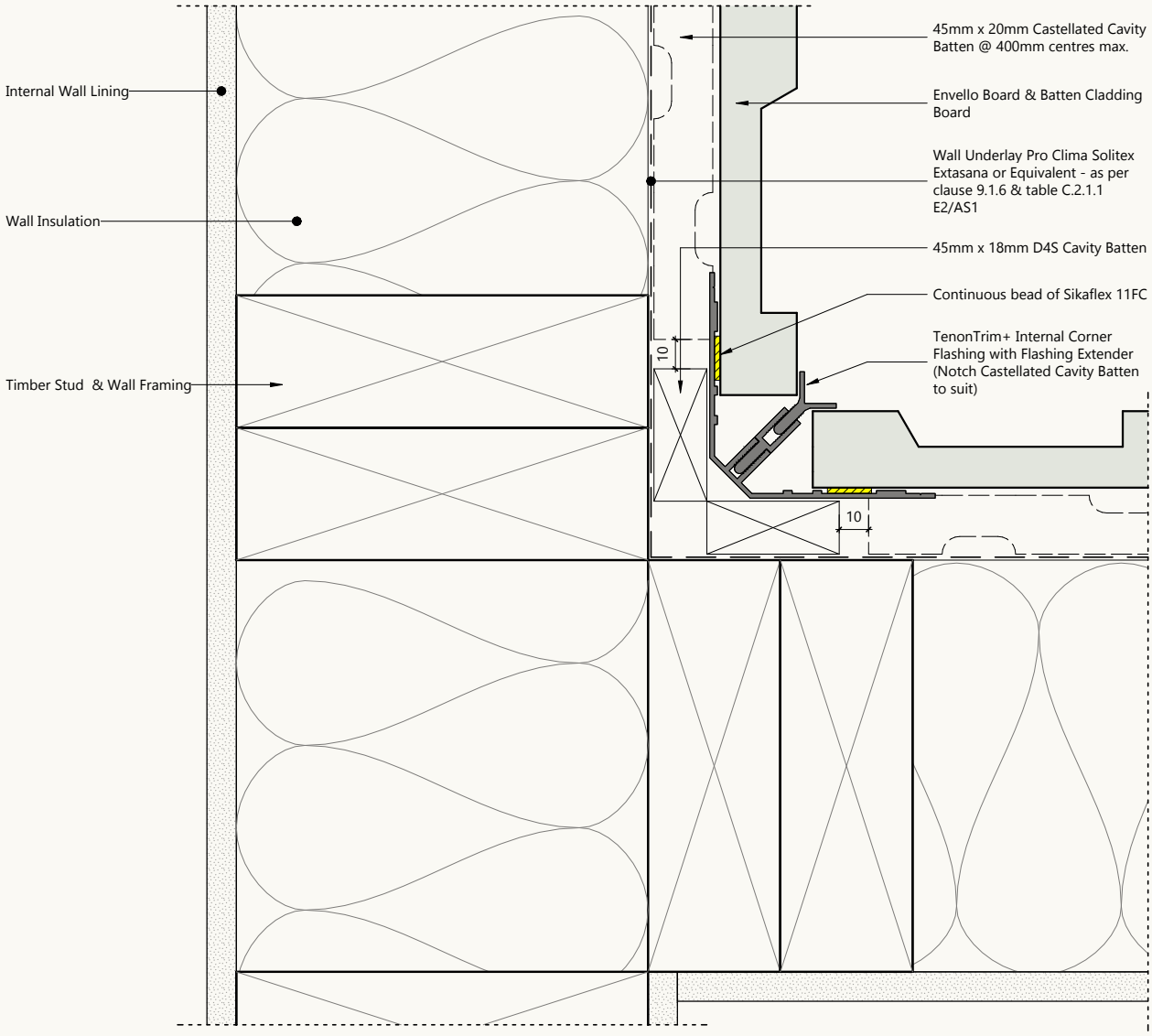
EXTERNAL CORNER – TENONTRIM+ EXTERNAL CORNER FLASHING BOARD & BATTEN+ 20MM



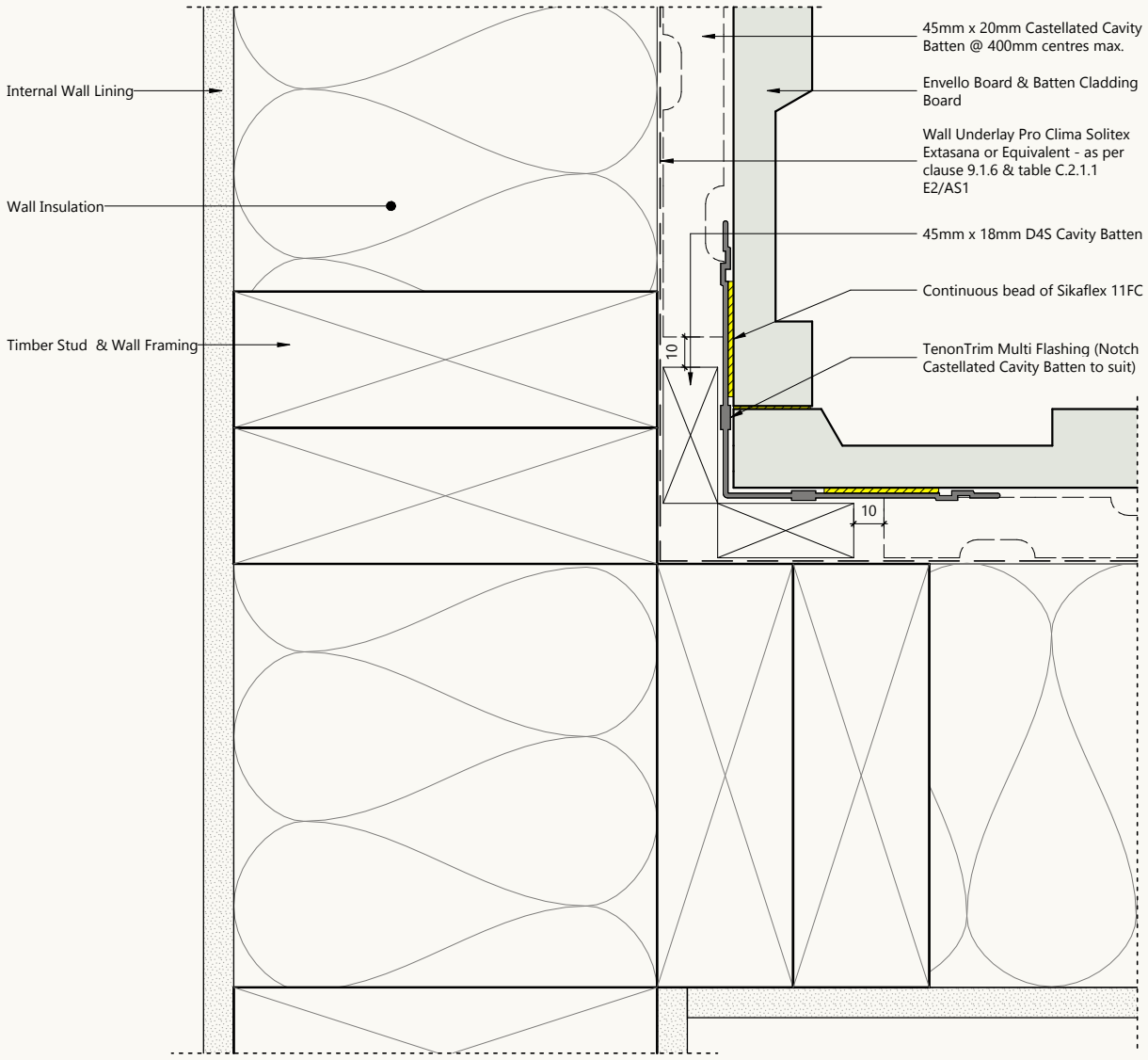
EXTERNAL CORNER – MITRE WITH TENONTRIM MULTI FLASHING BOARD & BATTEN+ 20MM



INTERNAL CORNER – TENONTRIM+ INTERNA CORNER FLASHING BOARD & BATTEN+ 20MM



INTERNAL CORNER – BUTT JOIN WITH TENONTRIM MULTI FLASHING BOARD & BATTEN+ 20MM

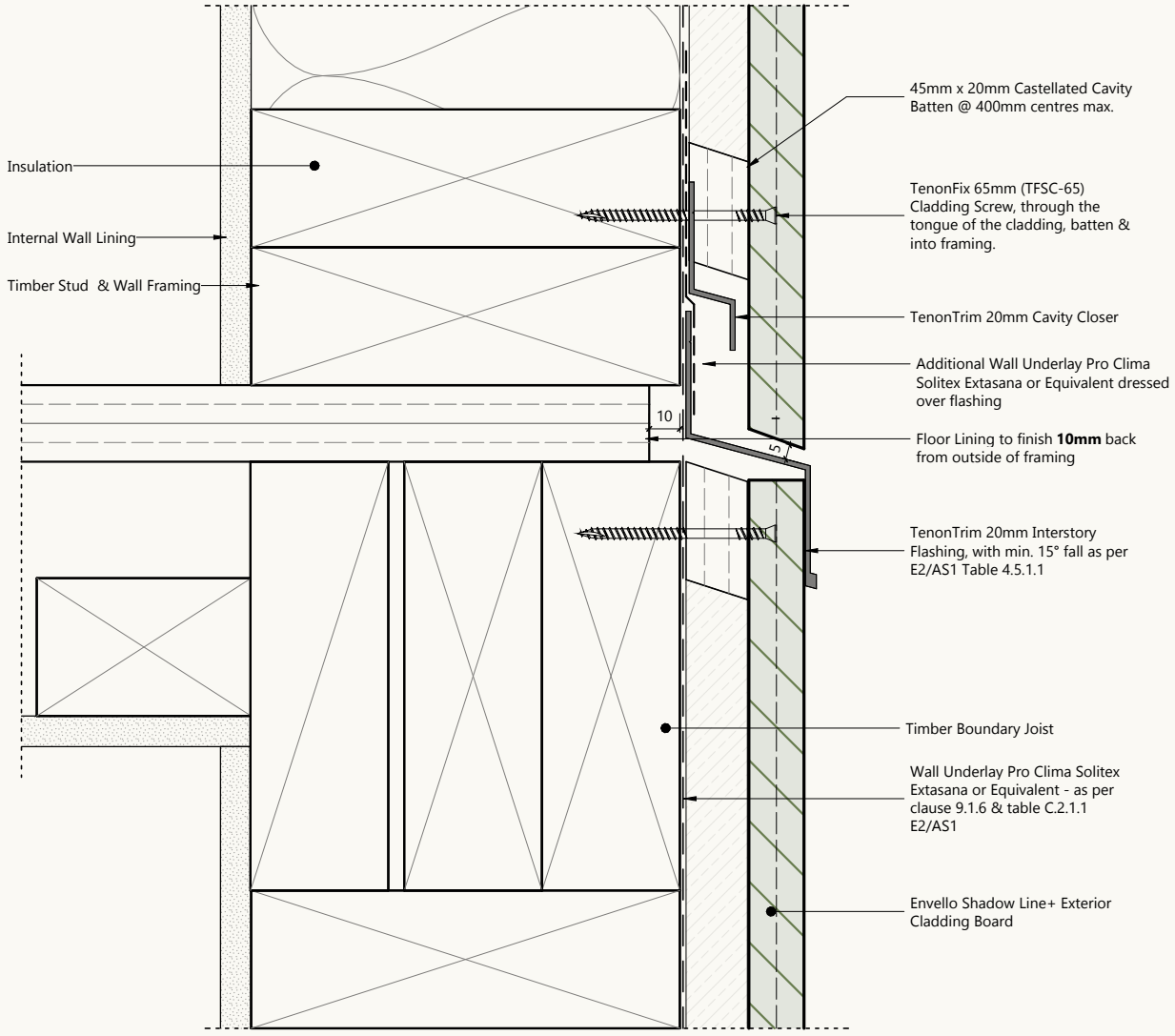


5.3 INTER-STOREY CAVITY JUNCTION

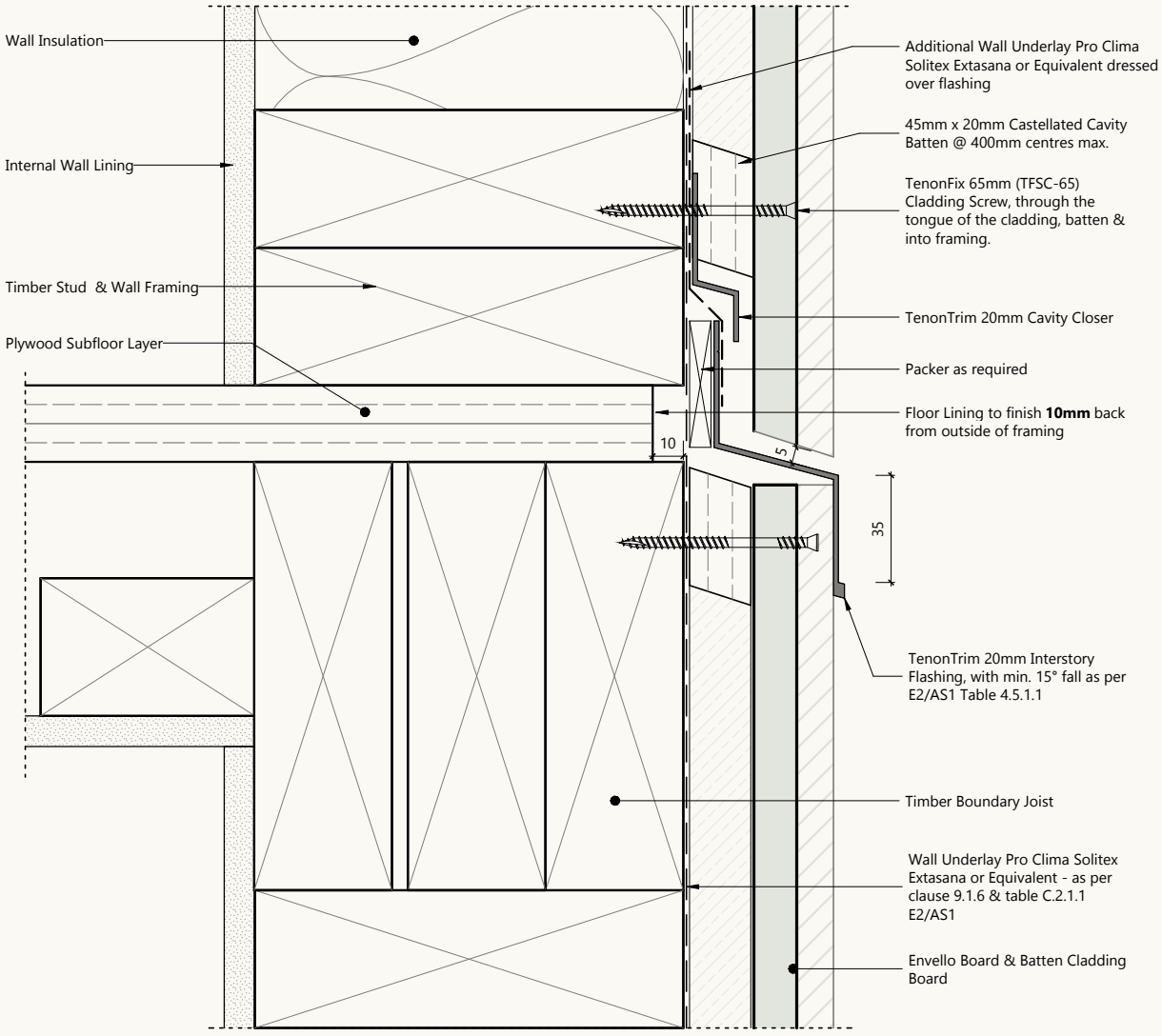
Horizontal cladding joints require a flashing detail to allow for building movement, protecting the boards and ensuring long-term stability of the Envello cladding system.

When there is a horizontal joint between cladding areas, a flashing detail should be used to ensure boards aren't affected by any building movement. As Envello cladding is made from a resin mineral composition, it is more stable in comparison to timber or resin mineral board based on timber, and therefore acceptable movement is up to 0.2%.

HORIZONTAL JOINT – SHADOW LINE+ 20MM



HORIZONTAL JOINT – BOARD & BATTEN+ 20MM



5.4 JOINING BOARDS

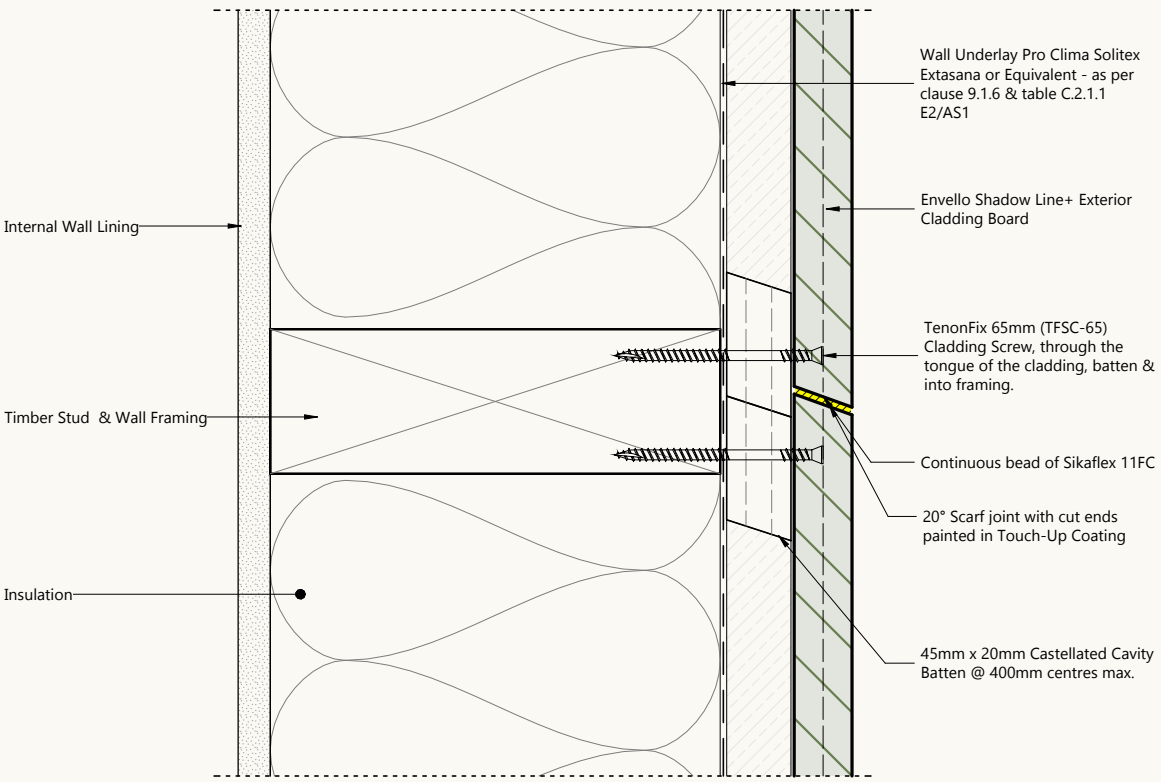
End-to-end board joins must be properly supported, staggered across the wall, and sealed for stability and a seamless appearance. Careful preparation ensures alignment and long-term performance.

When joining boards end-to-end, a batten must be used behind the boards to ensure both ends are supported equally. It is best to not have the joins all in one line, rather spread out across the cladding area.

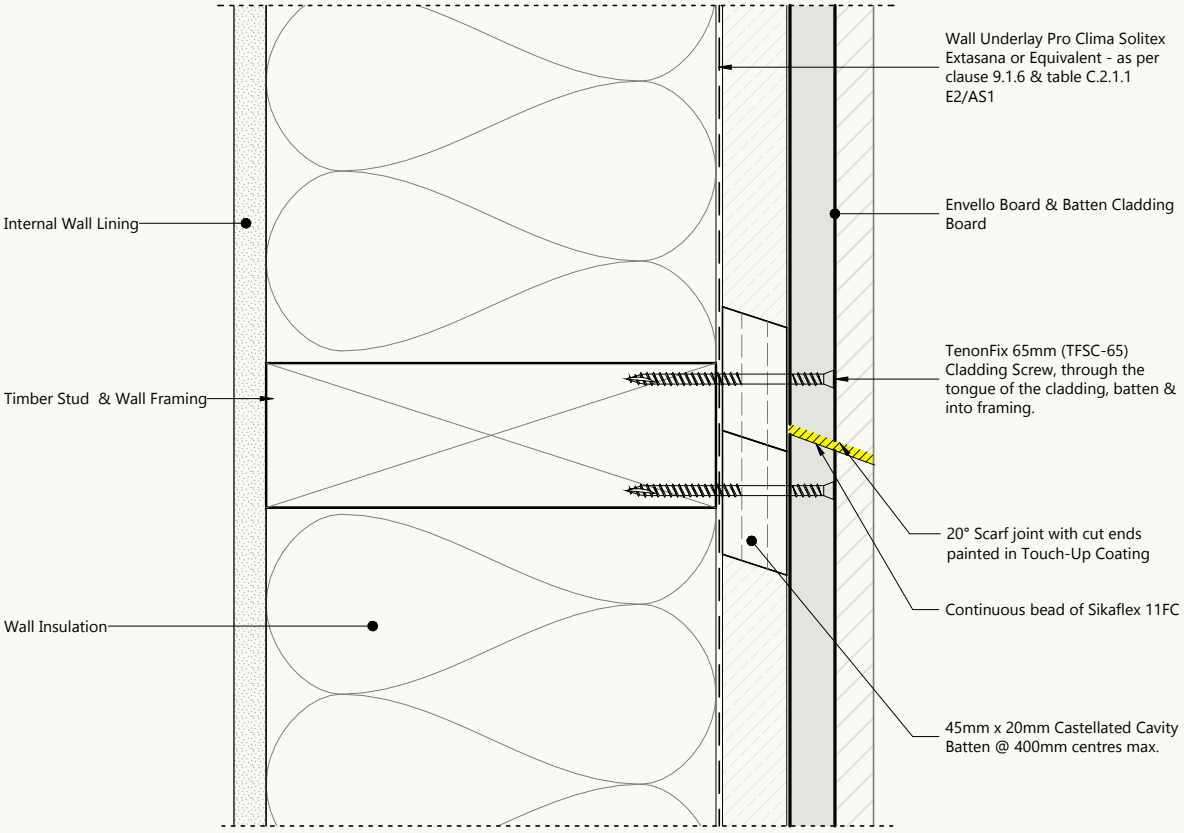
As the boards are manufactured through a moulding process, we recommend all ends are trimmed before they are installed. Dry fit the boards first to make sure they align, using boards that are of appropriate dimensions to ensure a consistent finish.

We recommend that the boards are joined with a 20˚ scarf joint with one overlapping the other. The cut ends should be painted with touch-up coating for the best finish and Sikaflex 11FC sealant applied to the join.

BOARD JOIN – SHADOW LINE+ 20MM



BOARD JOIN – BOARD & BATTEN+ 20MM



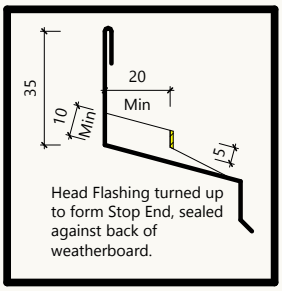
5.5 WINDOWS AND DOORS

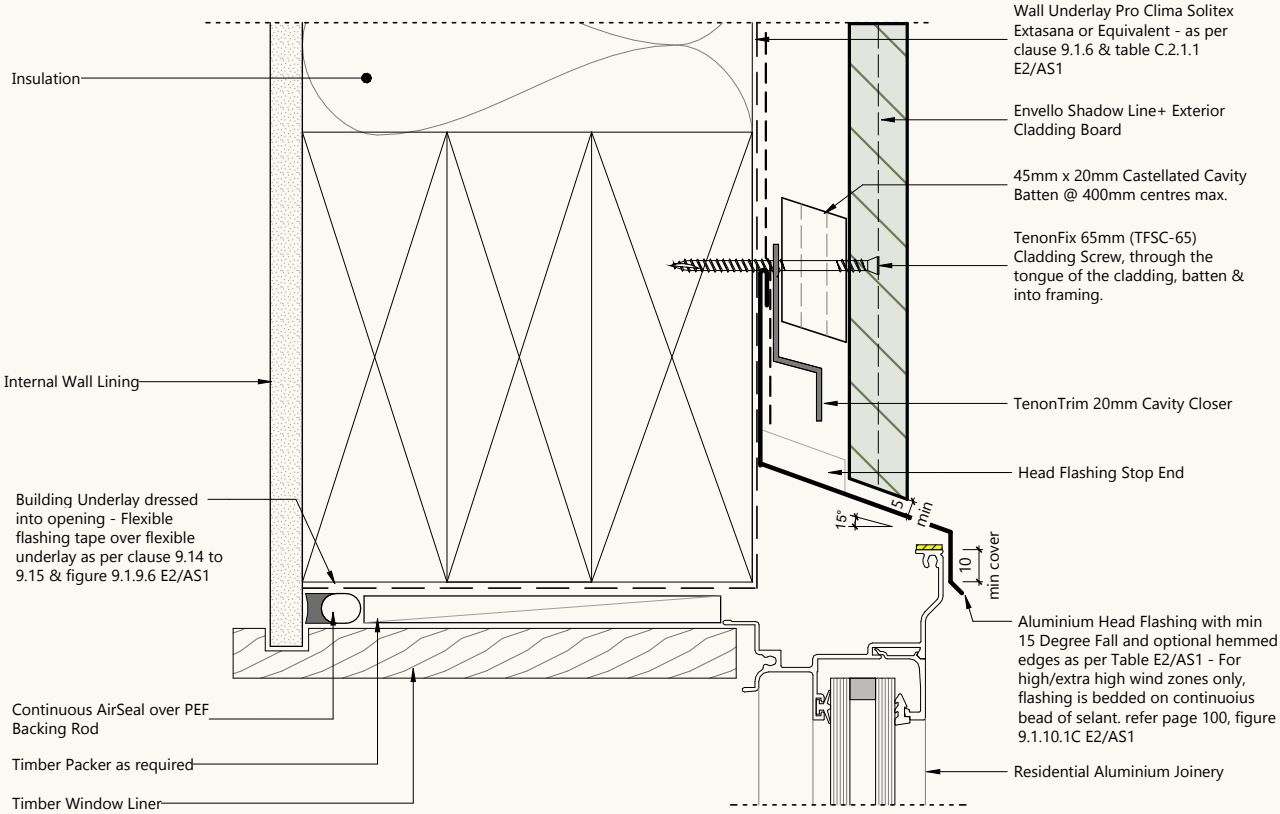
Flashings must be correctly specified and installed to suit the cladding depth and joinery. Sourced from specialist suppliers, they ensure effective water management and compliance with NZBC E2/AS1.

Flashing trims around windows and doors will need to be sourced from other suppliers (e.g. the window manufacturer or flashing manufacturer). They should be designed to work with the window or door joinery as well as the depth of cladding and battens used. All flashings must be of sufficient grading and should be installed in accordance with E2/AS1.

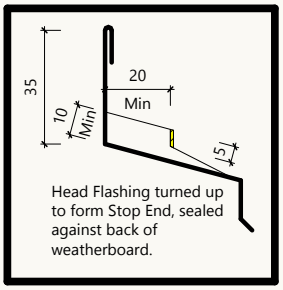
Other details that require flashings will also need to be sourced from other suppliers, such as the flashings around a meter box or inter-storey joining details. The flashings shown throughout this guide are indicative and need to be confirmed by the manufacturer.

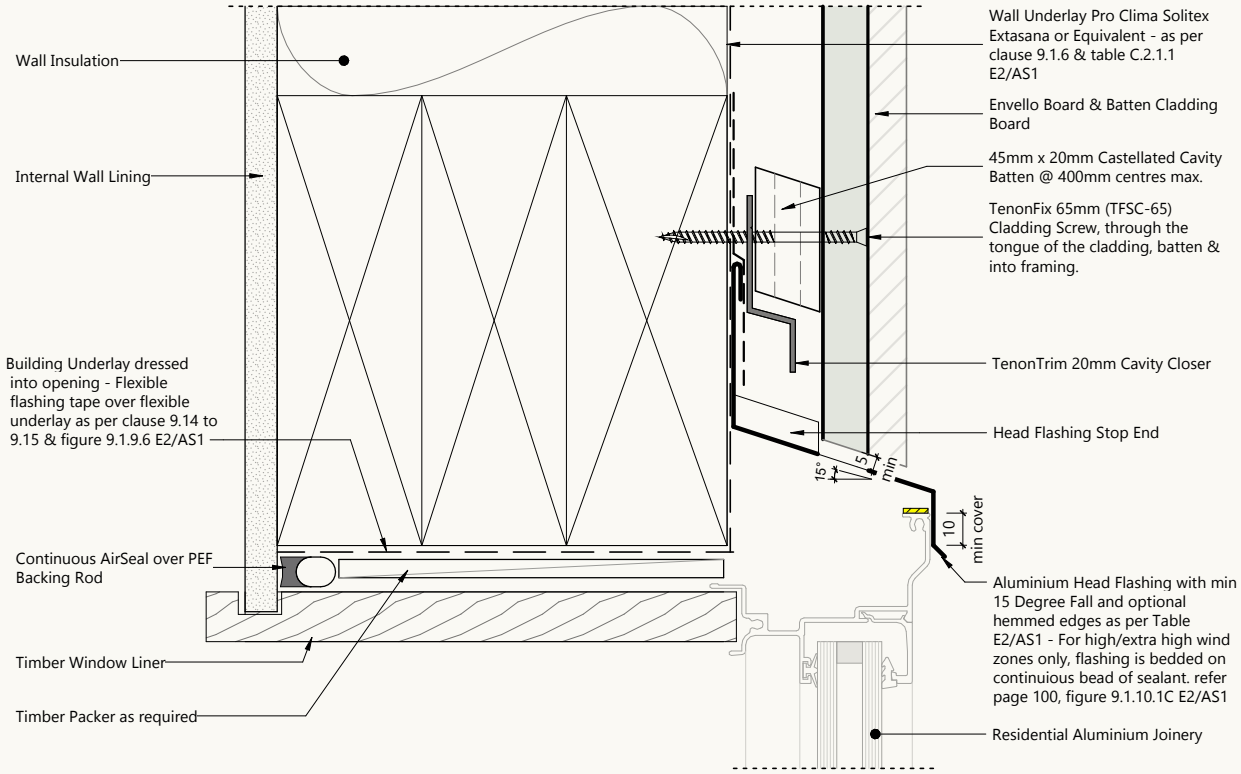
WINDOW HEAD - SHADOW LINE+ 20MM



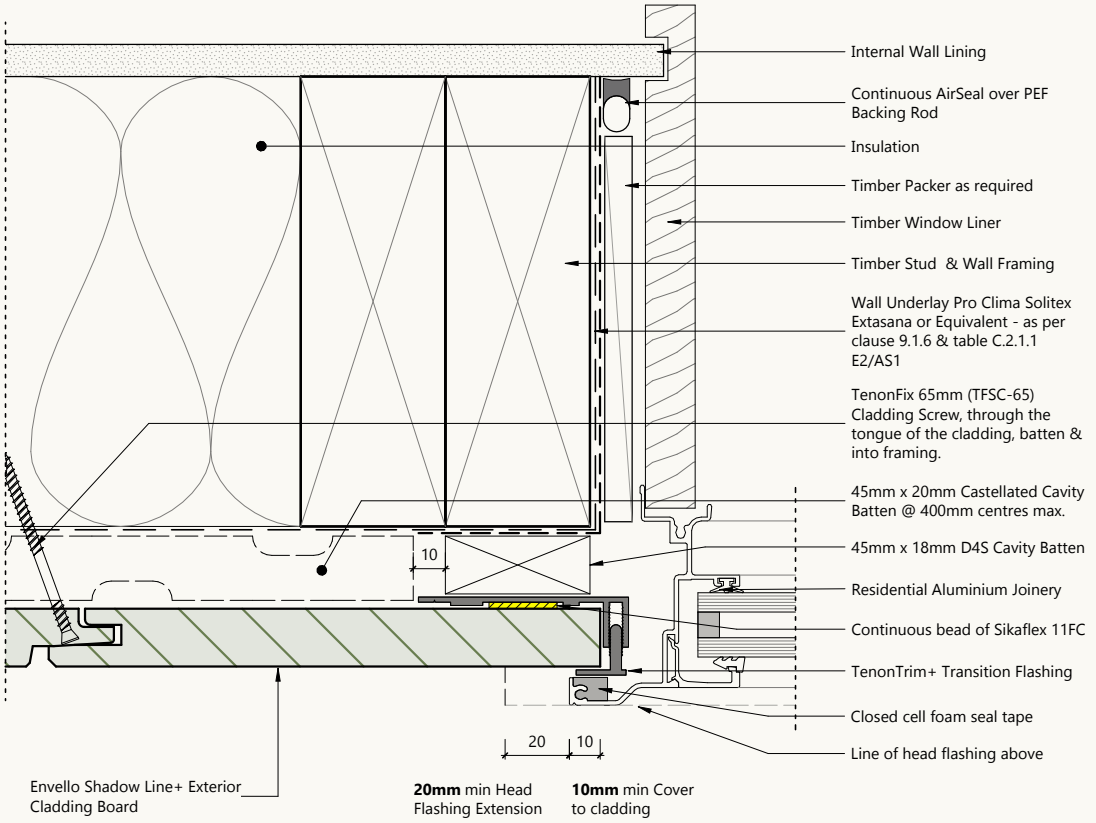


WINDOW HEAD - BOARD & BATTEN+ 20MM

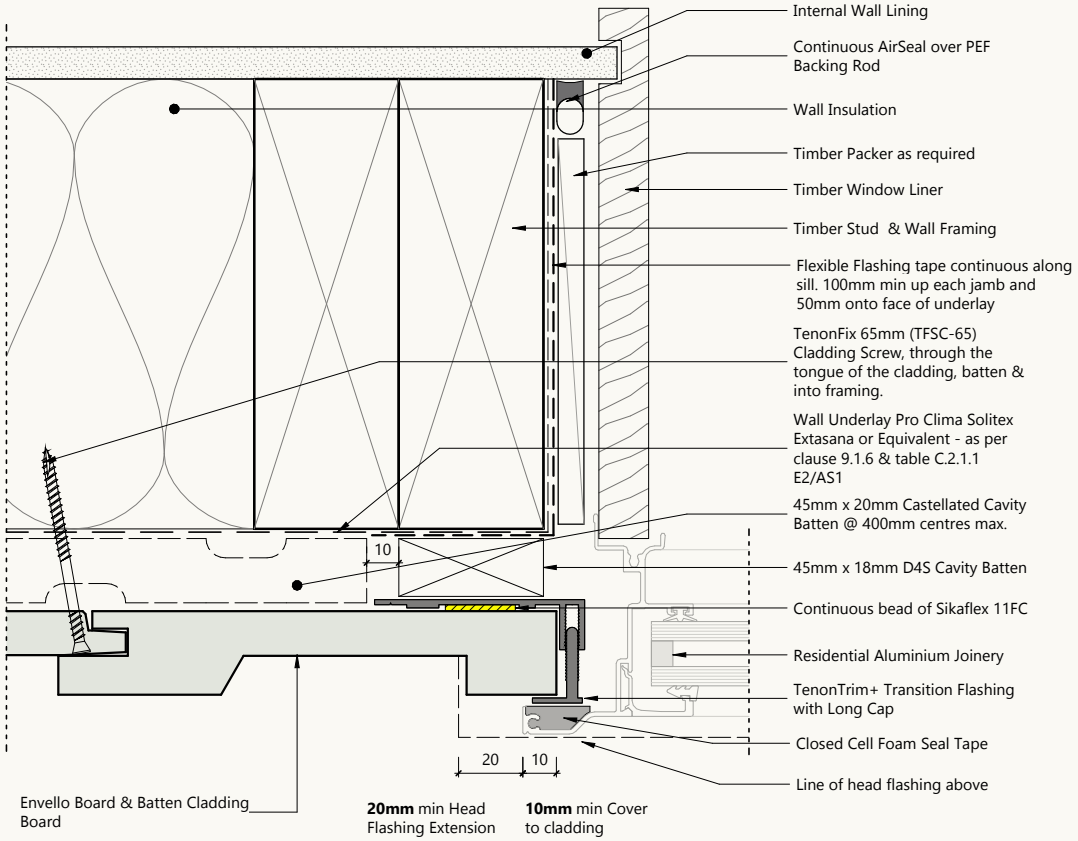




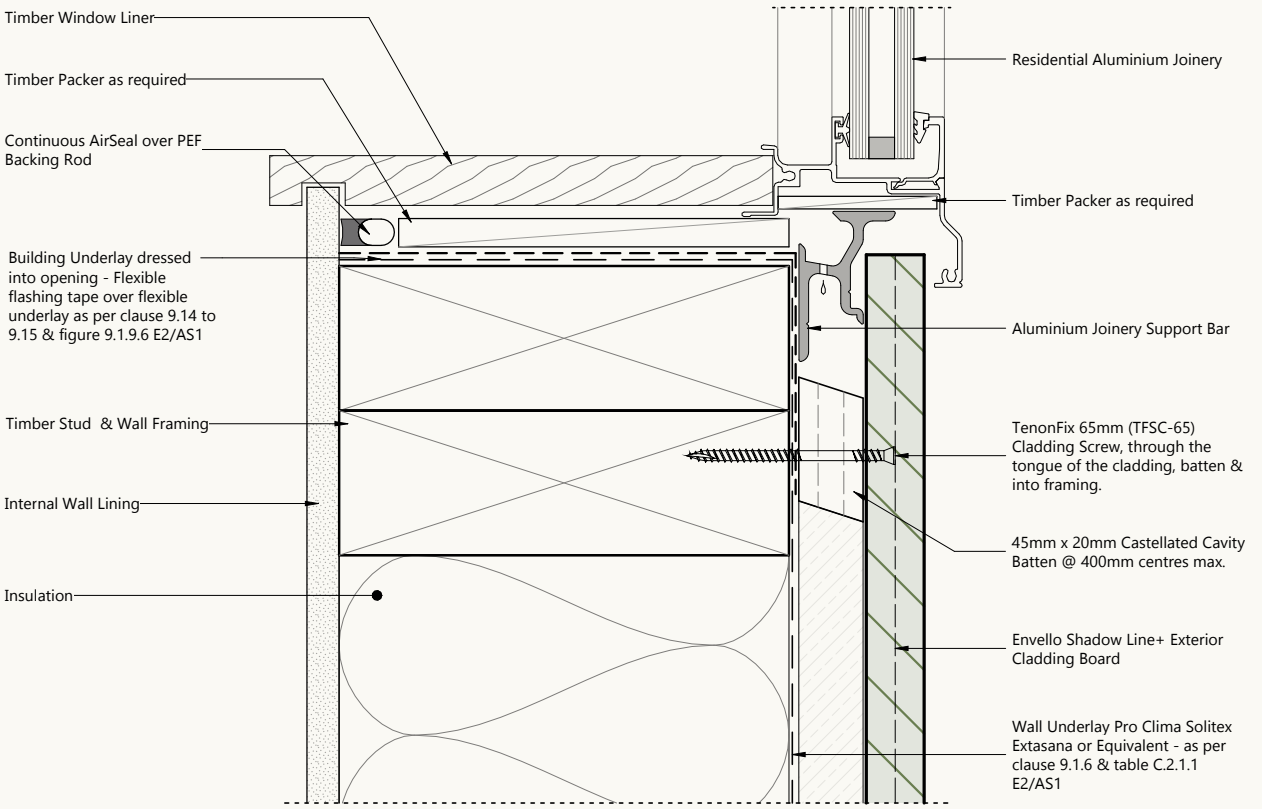
WINDOW JAMB - SHADOW LINE+ 20MM



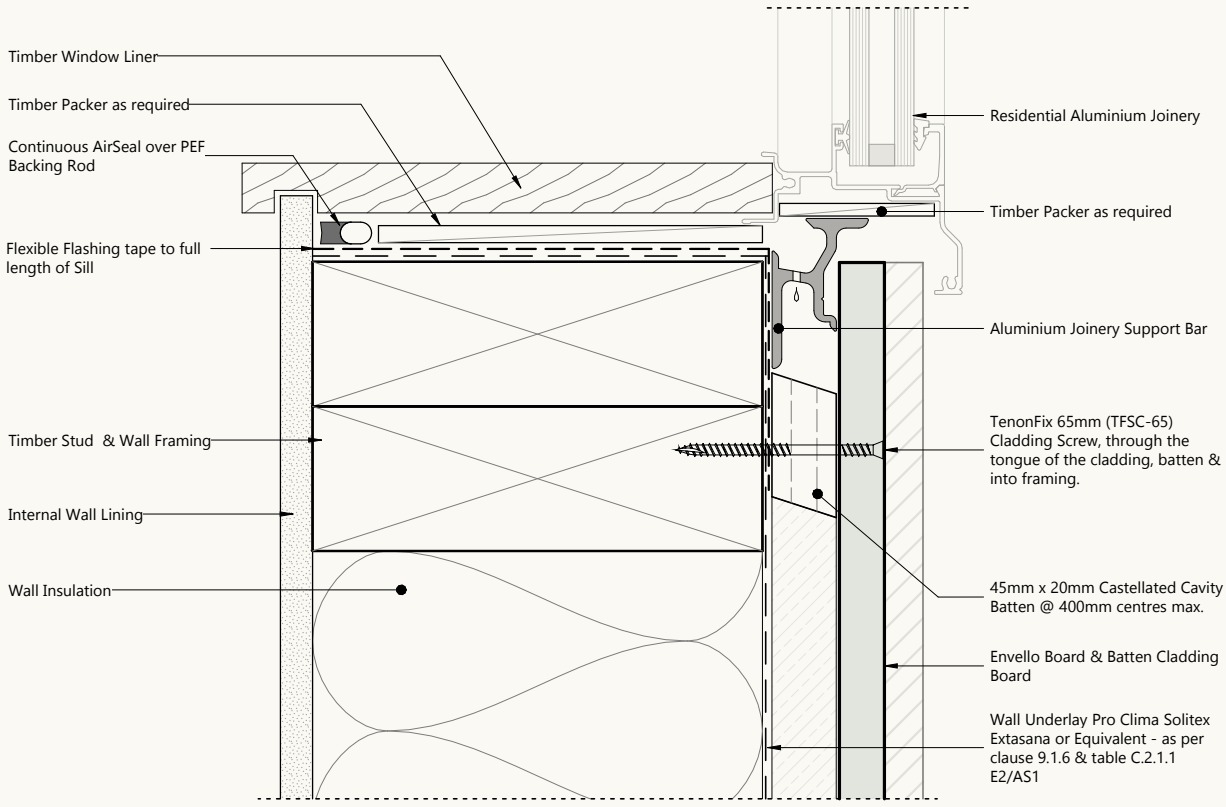
WINDOW JAMB - BOARD & BATTEN+ 20MM



WINDOW SILL - SHADOW LINE+ 20MM



WINDOW SILL - BOARD & BATTEN+ 20MM





5.6 WALL PENETRATIONS

Careful detailing around penetrations and parapets is essential to maintain water tightness, ensure structural fixing, and protect the cladding's integrity in all weather conditions.

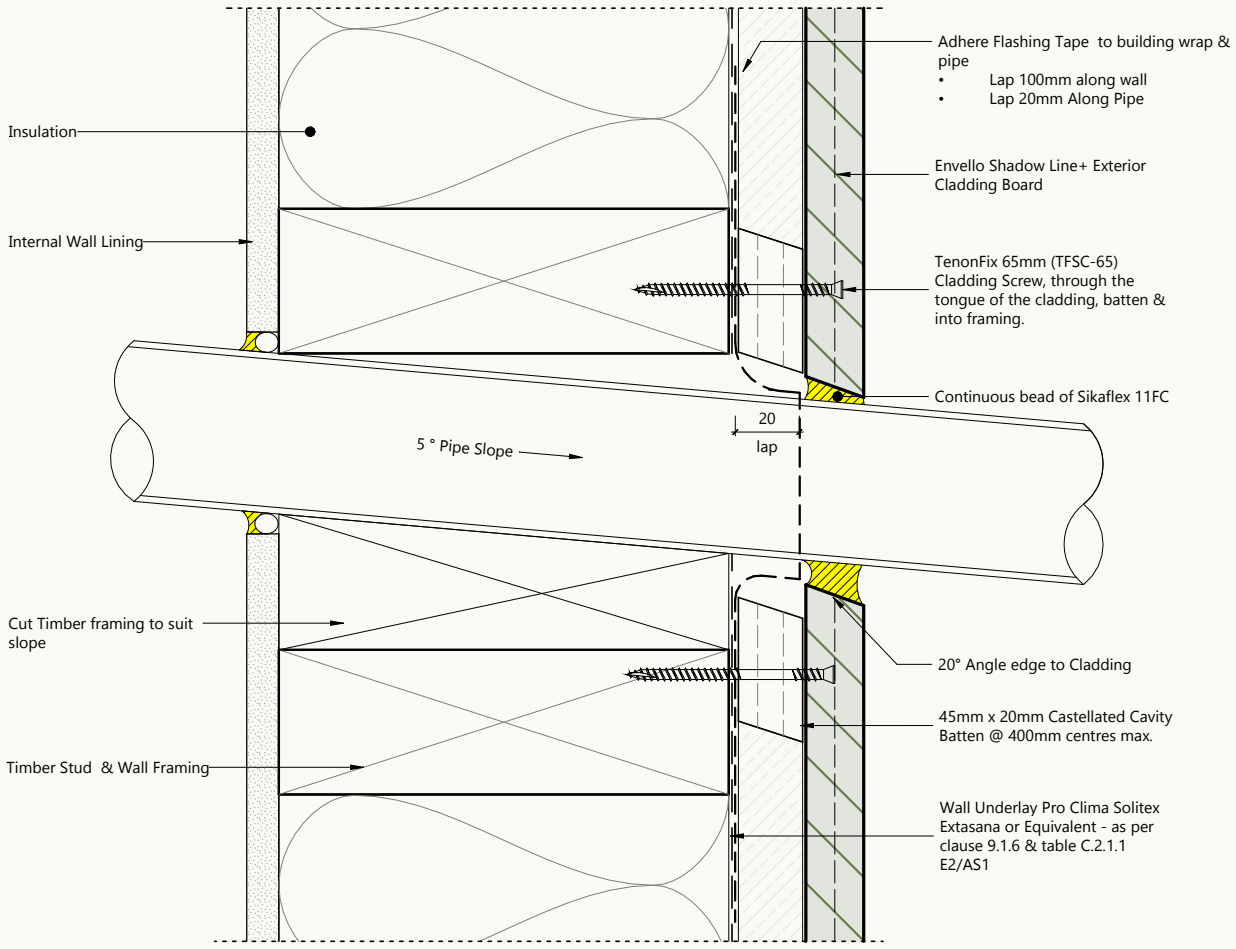
When installing around a metre box or other penetrations, the flashing detail must ensure a water and airtight seal whilst also allowing fixing points for the cladding boards. The cladding should be detailed so that the sealing around the meter box is not affected. Please note that the images shown are indicative and should be confirmed by the flashing manufacturer.

When installing cladding around pipes, please ensure the pipes are sufficiently sealed with backing rod and sealant, and that the cladding fixing doesn't affect the performance.

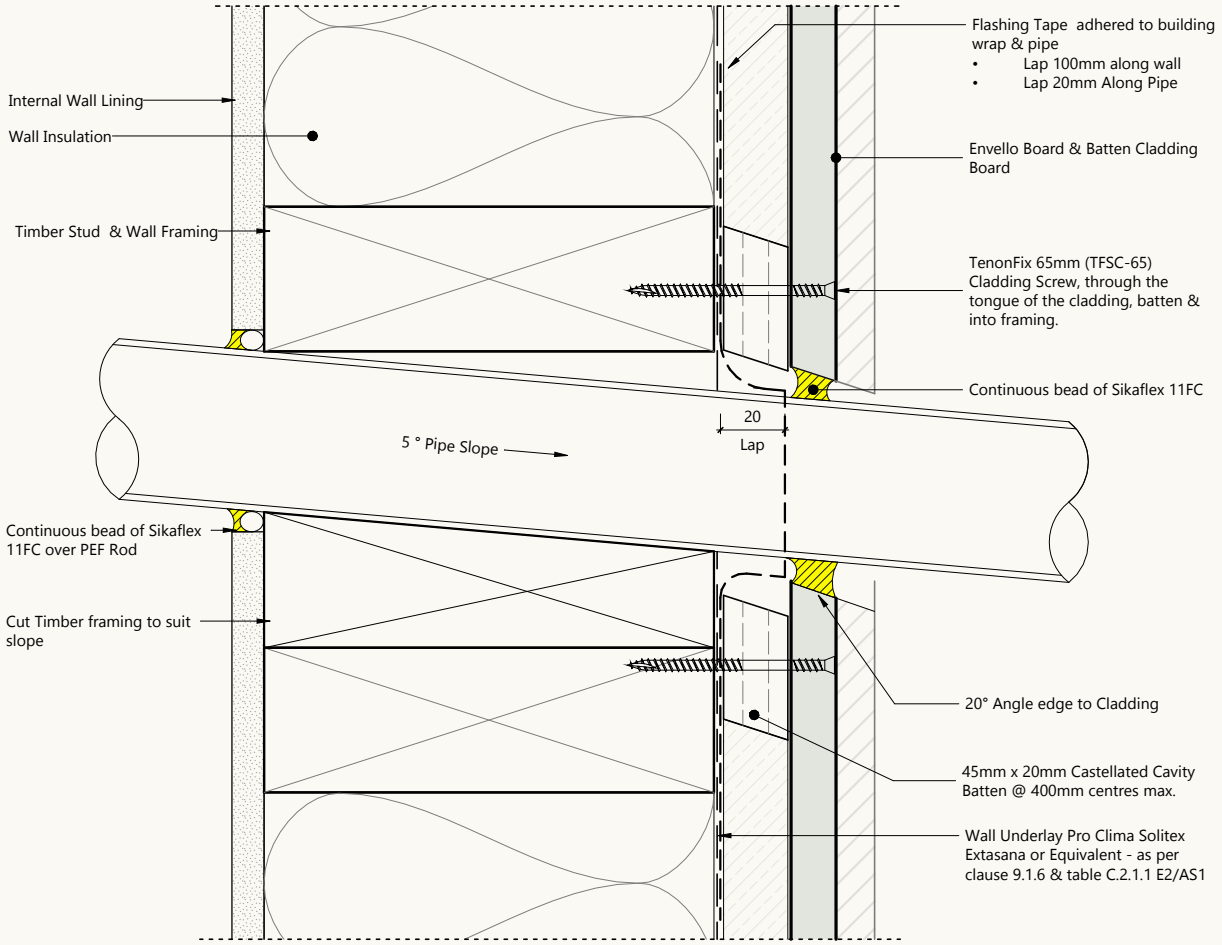
Where there is a parapet wall, the flashing on the parapet wall should be sealed and designed so that it allows for sufficient water runoff. The flashing needs to cover the cladding sufficiently for the wind zone according to NZBC E2/AS1.

Please note that anything that is fixed to the face of the cladding boards should not rely on the boards to be secure. The fixings should be fixed either into the structurally fixed battens or into the building structure, depending on the likely loads applied. If items are being fixed through the boards into the building structure, sufficient packing should be inserted behind the boards to help prevent any board deformation.

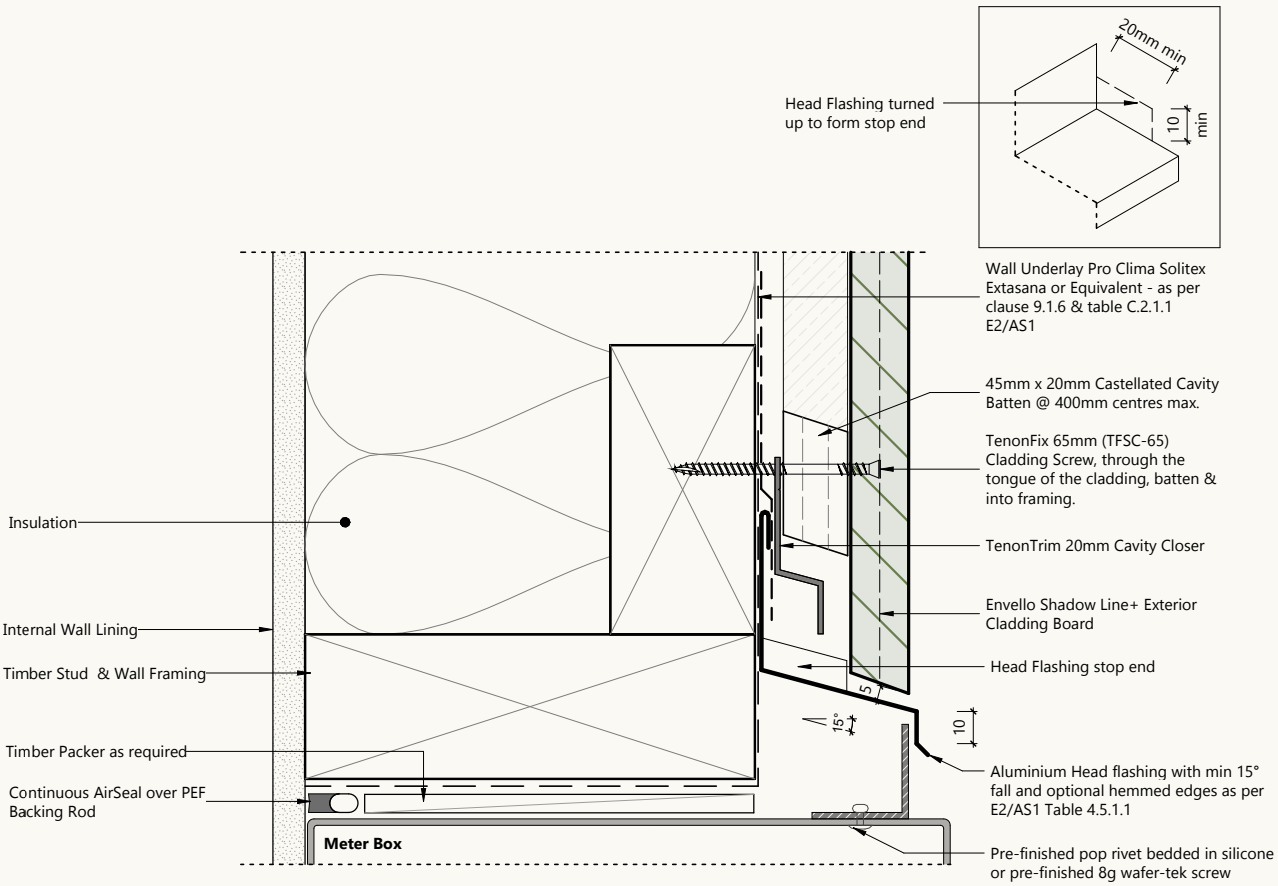
PIPE PENETRATIONS – SHADOW LINE+ 20MM



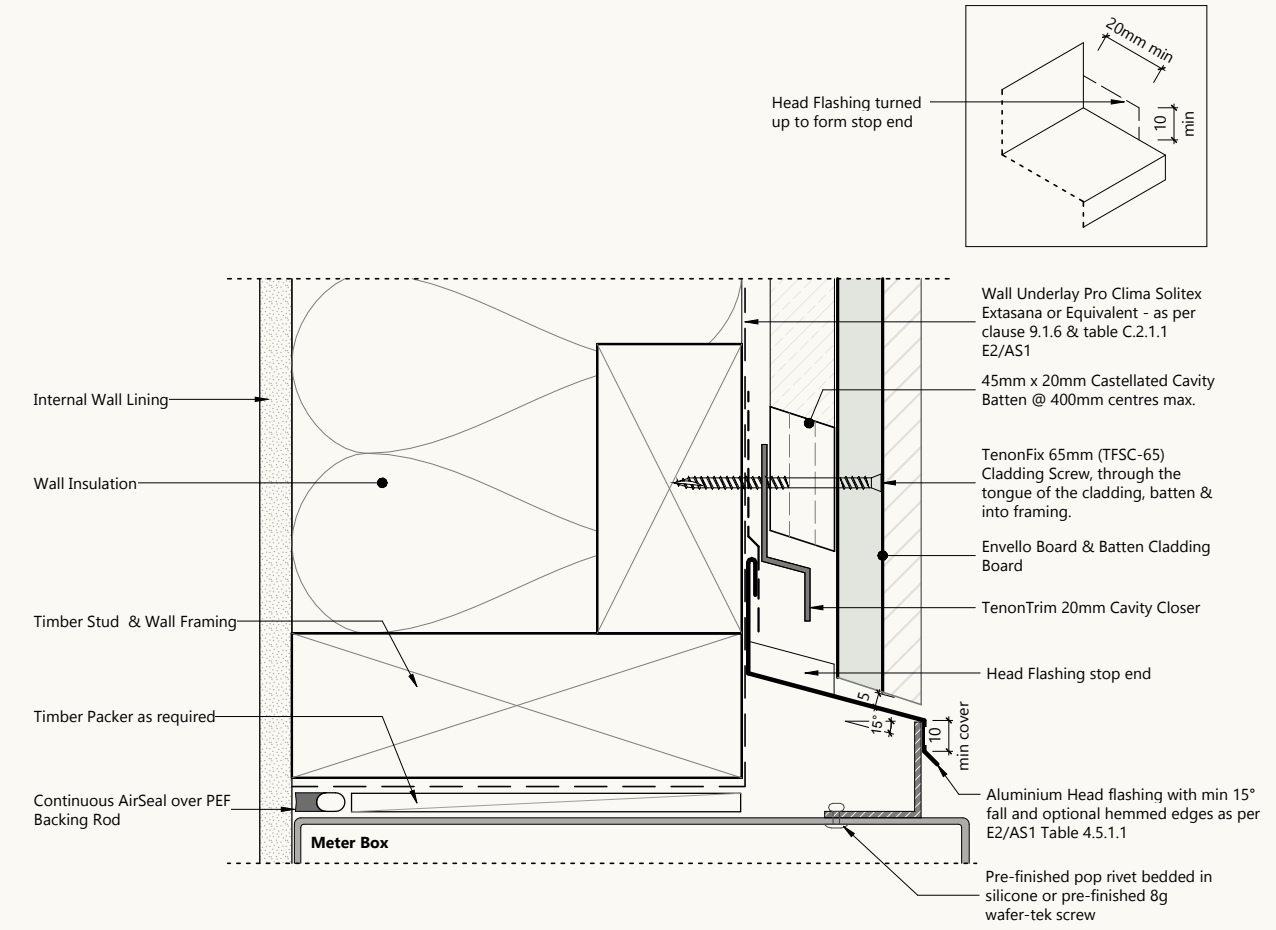
PIPE PENETRATIONS – BOARD & BATTEN+ 20MM



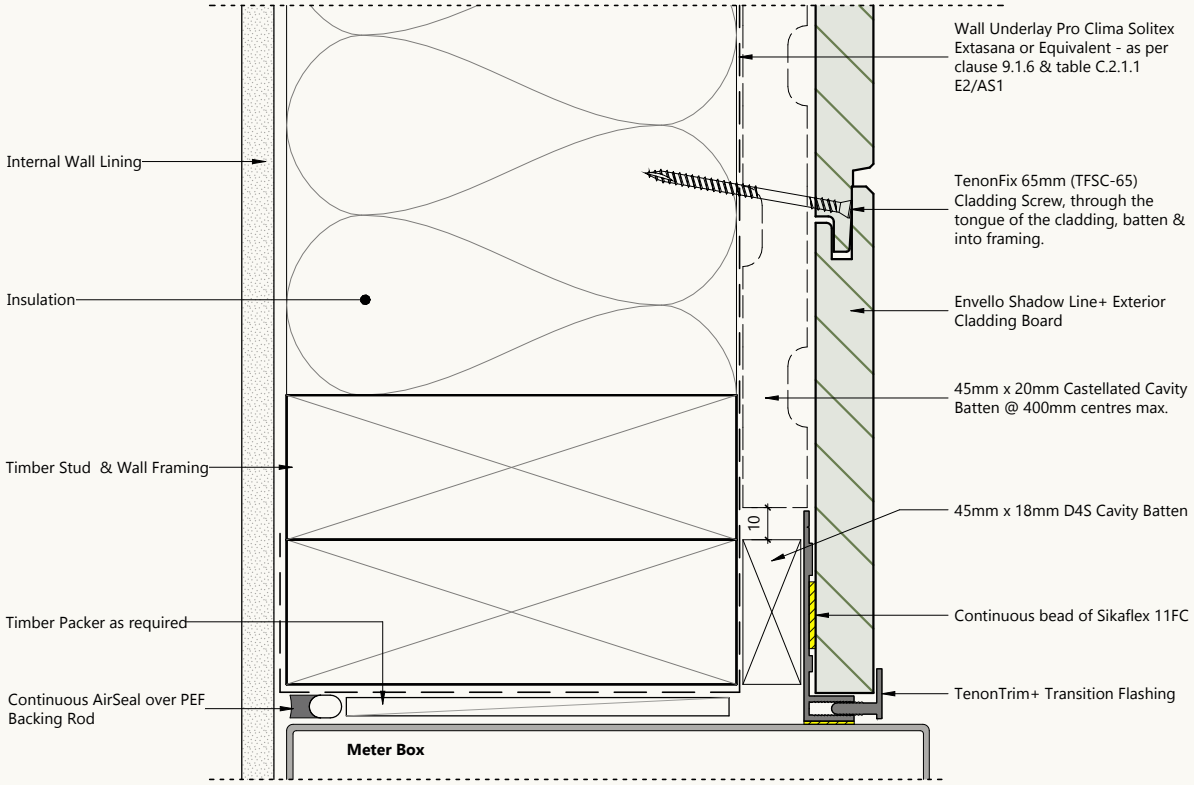
METER BOX HEAD – SHADOW LINE+ 20MM



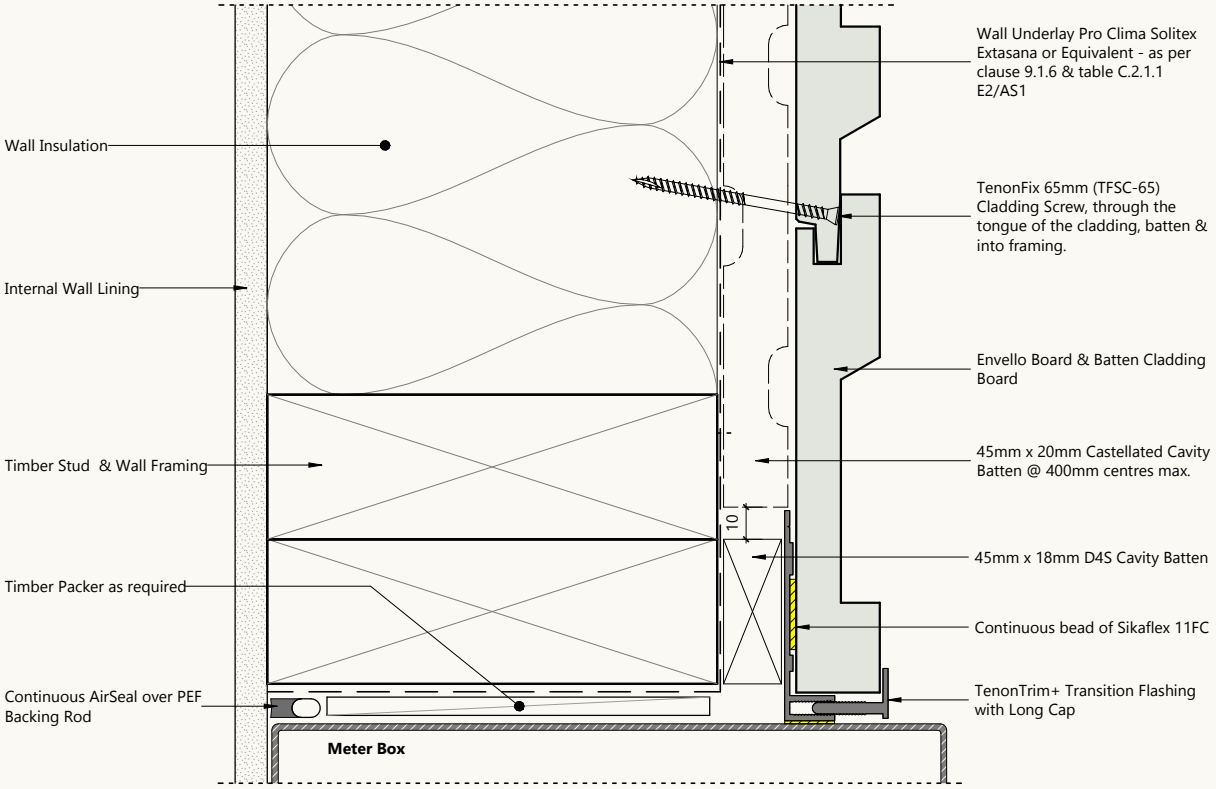
METER BOX HEAD – BOARD & BATTEN+ 20MM



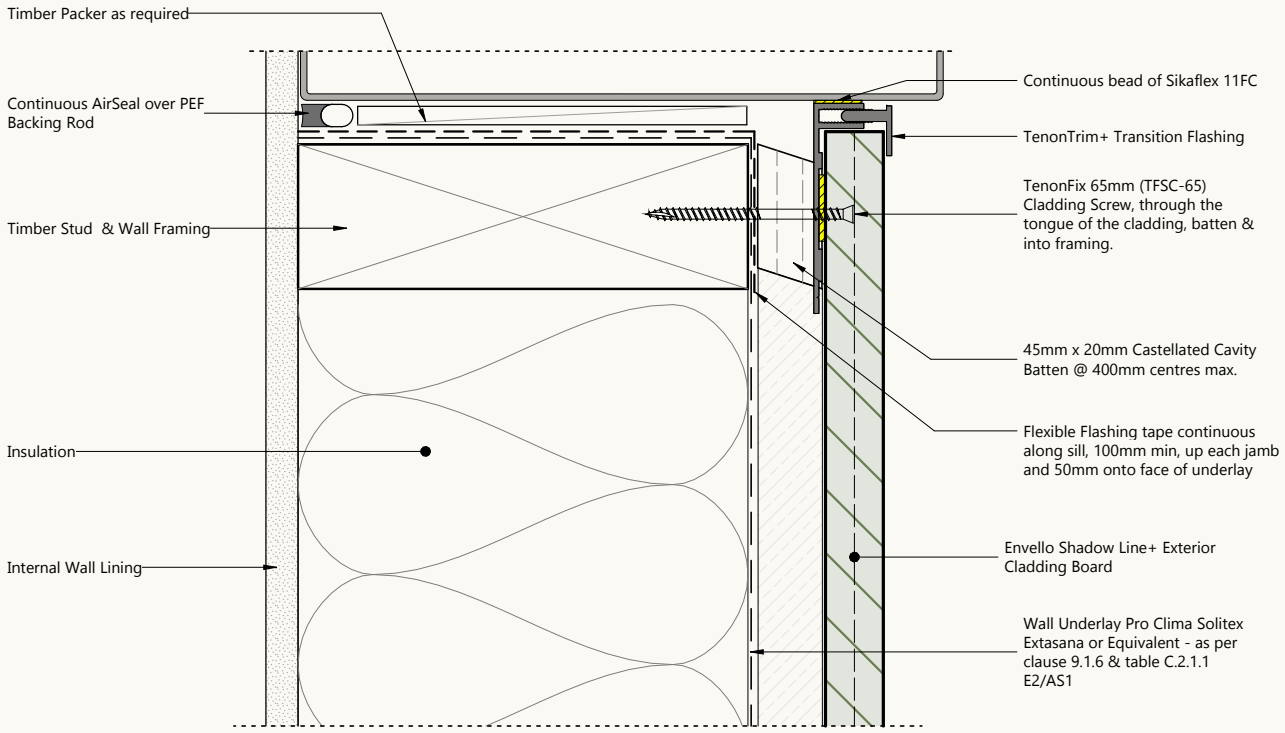
METER BOX JAMB – SHADOW LINE+ 20MM



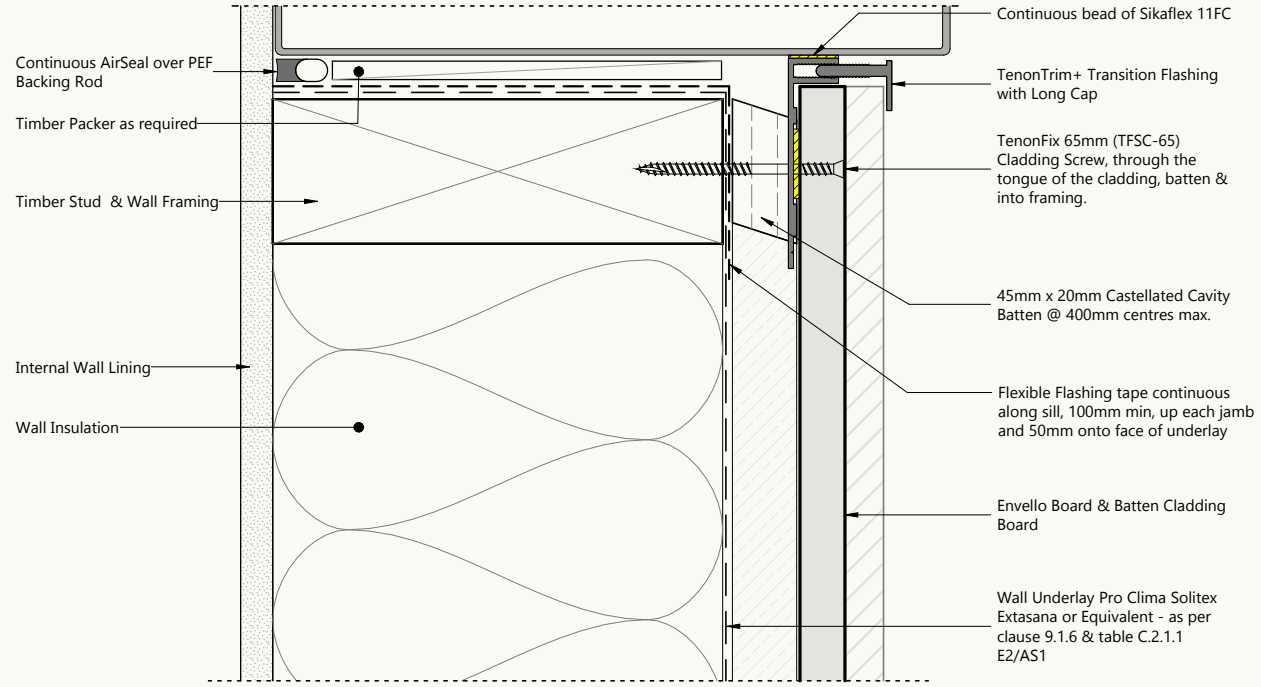
METER BOX JAMB – BOARD & BATTEN+ 20MM



METER BOX SILL – SHADOW LINE+ 20MM

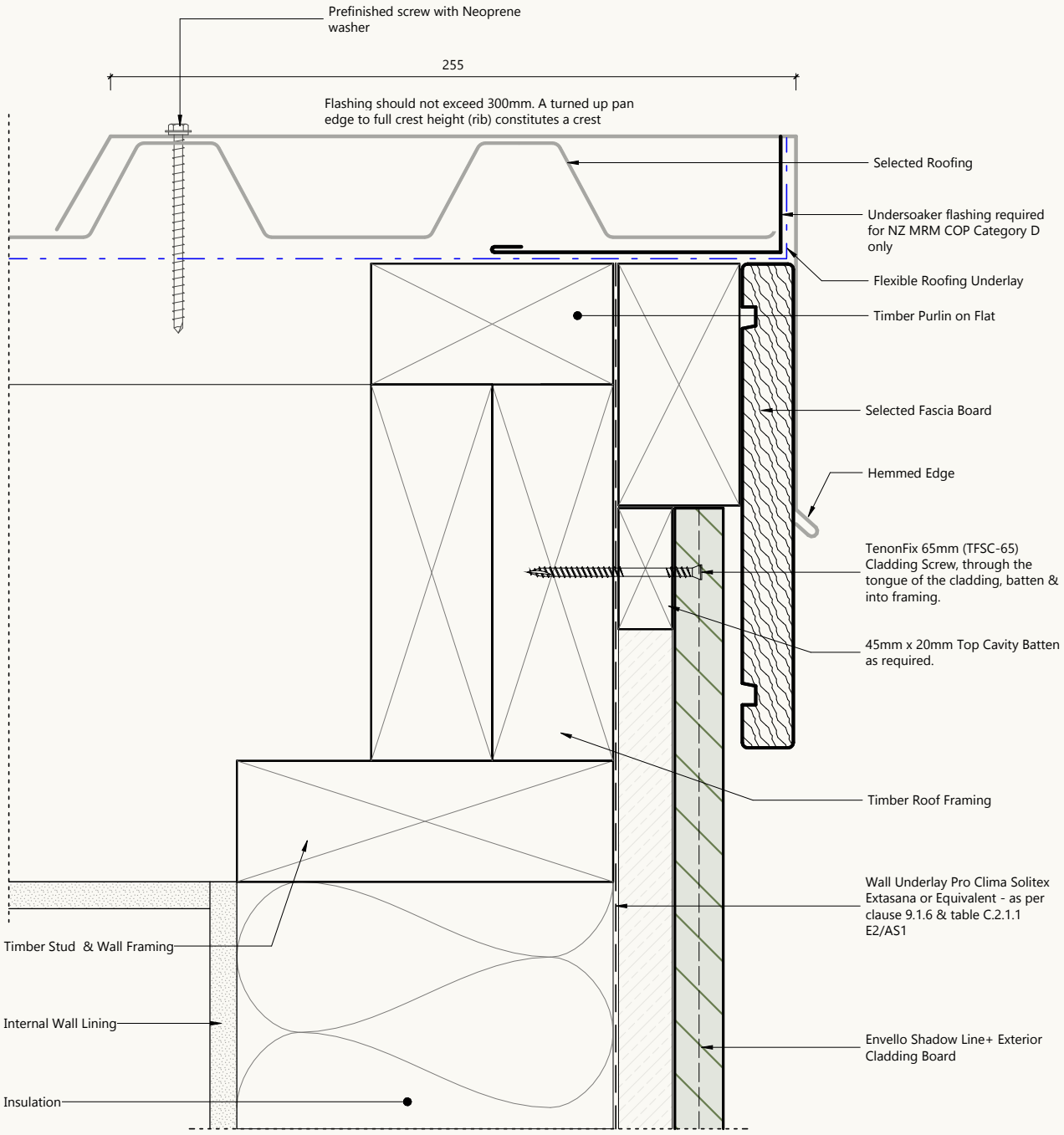


METER BOX SILL – BOARD & BATTEN+ 20MM

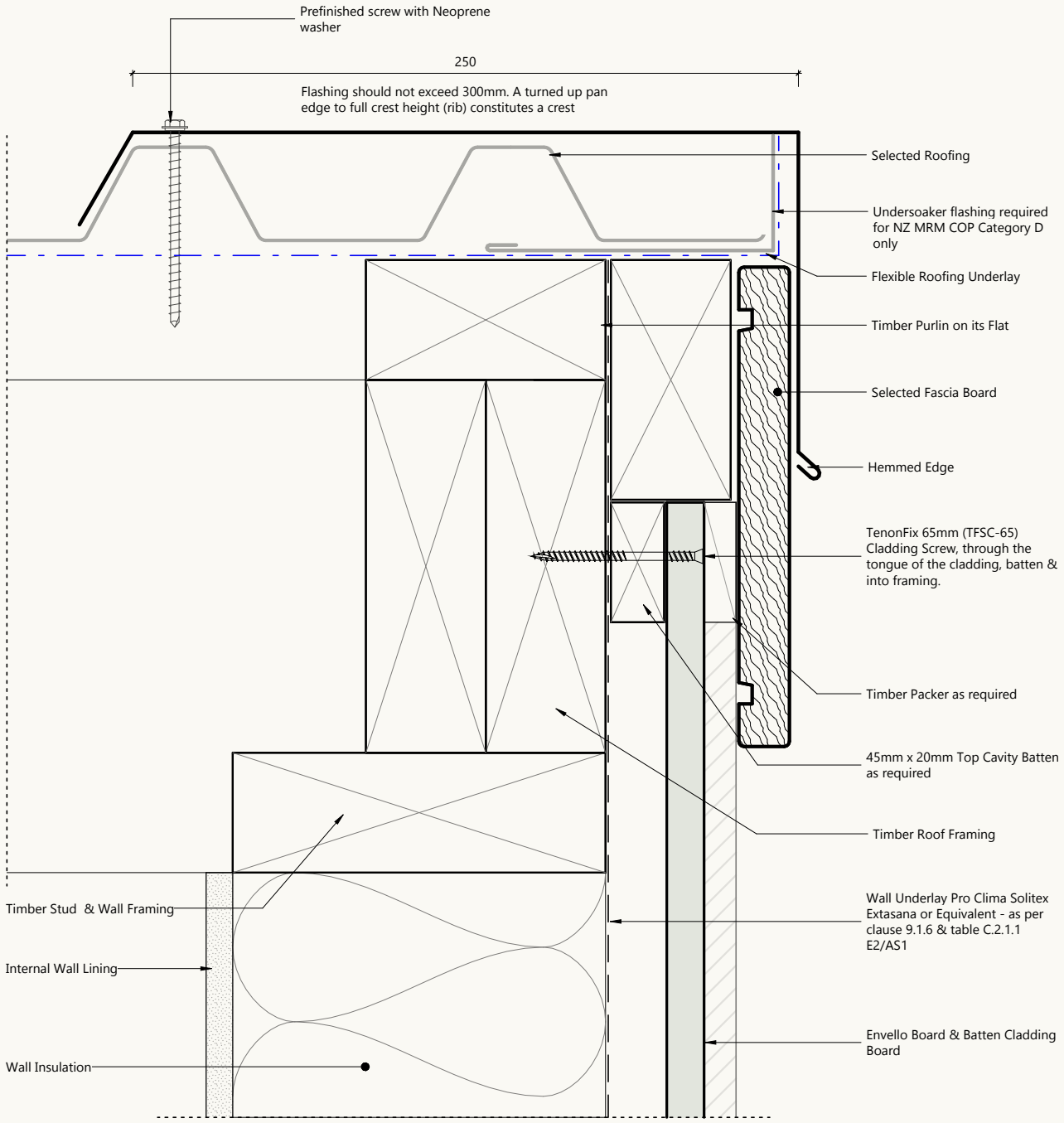


5.7 BARGE DETAIL

BARGE DETAIL - SHADOW LINE+ 20MM



BARGE DETAIL - BOARD & BATTEN+ 20MM



5.9 PARAPETS

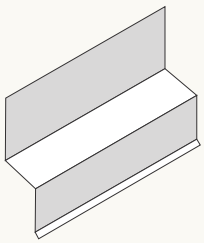
Flashings are designed to drain or deflect water back outside the cladding system as per E2/AS1 Section 4.

INTER-STOREY JUNCTIONS

Where a horizontal joint between cladding areas is required, a flashing is to be detailed to allow for building movement without effecting the cladding boards.

— As per E2/AS1 9.1.8.4 paragraph Figure 9.1.8.4.

— Up to maximum of two storeys or 7m in height.



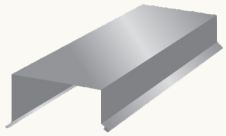
PARAPET FLASHINGS

Where there is a parapet wall, a flashing is to be detailed to allow for sufficient water run-off and to be sealed.

The flashing needs to sufficiently cover the cladding for the wind zone requirements of the property.

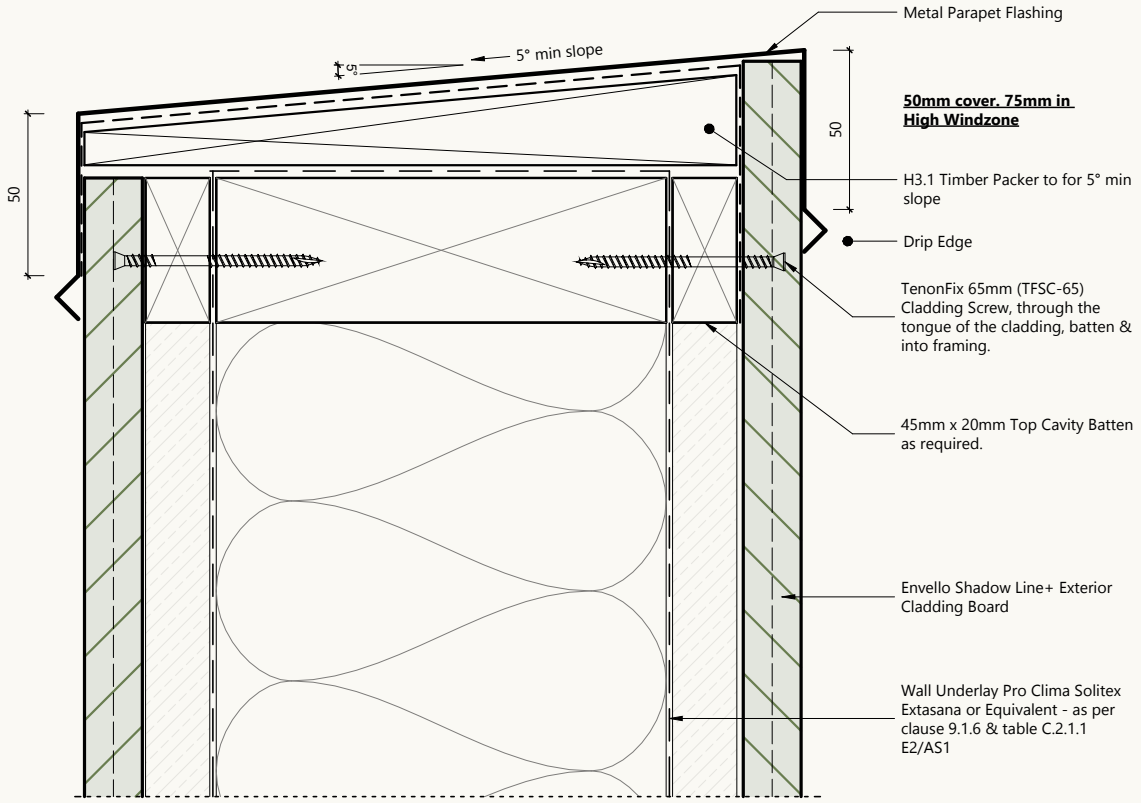
— As per E2/AS1 6.1.1.4 & Figure 6.1.1.4.A.

— Parapet to wall junctions are to be flashed to direct water clear of the outside of face of the cladding.

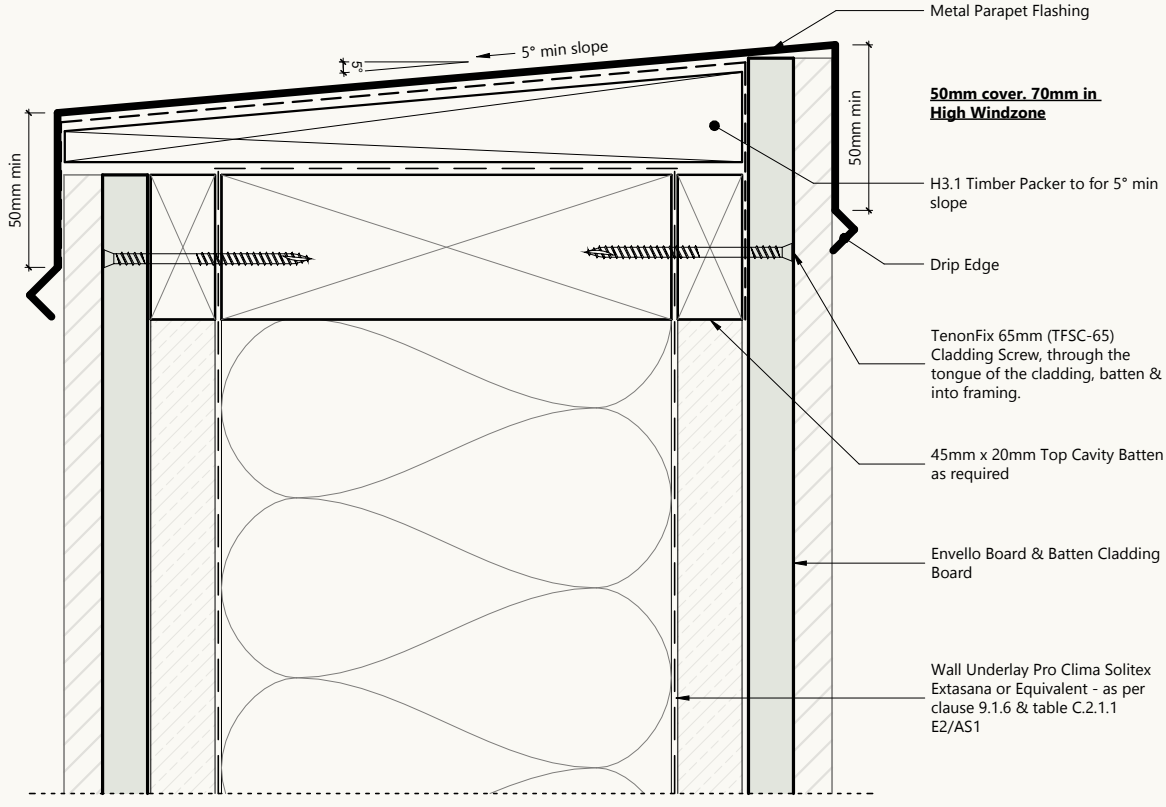




PARAPET FLASHING – SHADOW LINE+ 20MM



PARAPET FLASHING – BOARD & BATTEN+ 20MM



DESIGN CONSIDERATIONS





Envello cladding offers exceptional strength and versatility, adapting effortlessly to a variety of architectural styles and complex detailing. This section outlines considerations for achieving a seamless, durable and visually striking finish across a range of applications.

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6.2 Soffit Detailing 65
6.3 Garage Door Detailing 66
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6.5 Ceiling Detailing 70
6.6 Cladding to Decking Detailing 72

6.1 COLOUR CHARACTERISTICS

Envello cladding is crafted to reflect the tonal depth and natural variation of real timber, giving each board a unique and authentic appearance.

Each board is hand-moulded from selected timber samples, then individually hand-coloured using multiple pigments. This process creates subtle tonal shifts across the surface, ensuring no two boards are exactly the same. The result is a layered, authentic finish that mirrors the way real timber weathers and varies in nature. This deliberate variance in tone and grain pattern is what gives Envello its natural look.



Antique Oak boasts more tonal variation per individual board than the other colours in the Envello range.

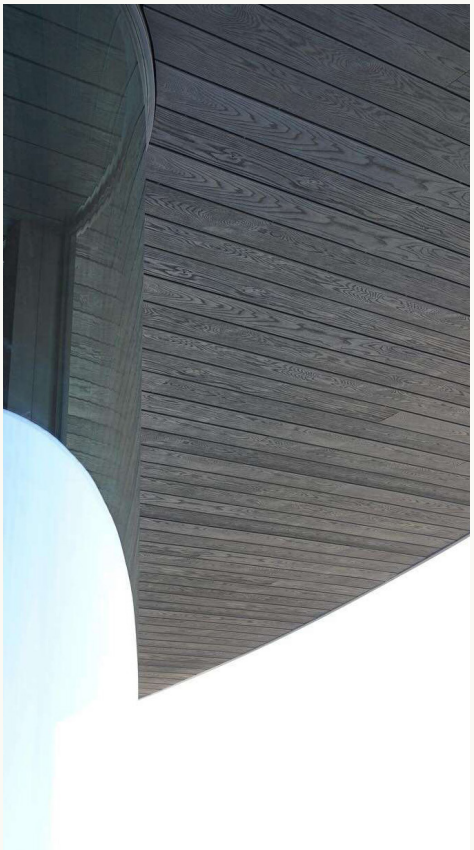


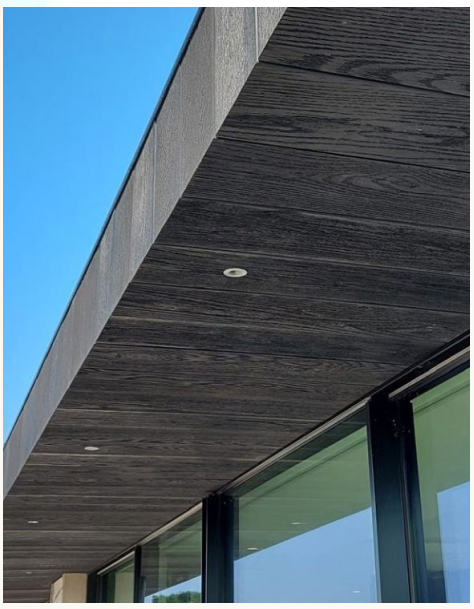
6.2 SOFFIT DETAILING

Elevate exterior architecture with bold detailing—Envello Cladding adds refined character and visual interest to unexpected applications like soffits and overhangs.

Envello's versatility extends beyond façades, with its lightweight yet robust composition making it ideal for overhead use on soffits. It delivers a seamless flow from exterior cladding to under-eave surfaces, enhancing architectural form with natural timber appeal—without the maintenance concerns of real wood.







6.3 GARAGE DOOR DETAILING

Create striking design features, such as statement garage doors or hidden doors that blend seamlessly into a building's façade.

Envello's lightweight construction makes it particularly well-suited for vertical installations, offering both visual continuity and practical ease of use without compromising on durability or aesthetic appeal.

Create a seamless, cohesive façade by continuing Envello Cladding across garage doors.



Achieve a clean, unified look that blends effortlessly into the surrounding wall for understated architectural impact.



Make a statement with Envello Cladding laid in a unique pattern across garage doors—adding depth, texture, and visual intrigue while maintaining a refined, architecturally integrated finish.



6.4 INTERIOR DETAILING

Bring the warmth of timber into a home by integrating exterior aesthetics into the interior design.

Envello's versatile, lightweight construction makes it easily adaptable for use in interior spaces, offering a practical and visually appealing alternative to traditional wall finishes. Its ease of handling and installation allows it to be integrated into a variety of interior applications, from feature walls and fireplace surrounds to hallway panelling and stairwells. In addition to its design flexibility, Envello's durability and resistance to moisture make it particularly suitable for areas such as bathrooms, kitchens, and high-traffic zones where conventional materials may wear or degrade over time.

Envello Cladding used as a feature wall adds natural texture and tonal warmth to interior spaces, with the durability and elegance of timber-look design.



Bring the warmth of timber into a home by integrating exterior aesthetics into the interior design.



Clad entire interior walls in Envello Cladding to create bold texture and architectural interest.



6.5 CEILING DETAILING

Design spaces that harness the texture and spirit of nature, with ceiling detailing that brings the outside in.

Envello's lightweight and versatile construction makes it an ideal choice for ceiling finishes, allowing for easy installation without the structural demands of heavier materials. Its durability and moisture resistance make it particularly suitable for areas like kitchens, bathrooms, and covered outdoor spaces where traditional ceiling materials may not perform as well.

Use Envello Cladding as cross beams, to frame ceilings or highlight architectural details to add layered texture and visual interest with a refined, timber-inspired finish.



Envello can be used seamlessly across soffits and internal ceilings, creating visual continuity and a cohesive finish that blurs the line between indoor and outdoor spaces with natural elegance.



Add an immersive atmosphere by using Envello cladding on interior ceilings—introducing texture, depth, and a refined timber-look finish that transforms overhead space into a design feature.



6.6 CLADDING TO DECKING DETAILING

Create a seamless transition, that flows between horizontal and vertical plains, with complimentary tones and profiles that take design to new levels.

With decking and cladding available in coordinated finishes, Envello makes it easy to carry a consistent material palette throughout a project. Alternatively, contrasting tones can be used to highlight form and elevate detailing.



LIMED OAK



SMOKED OAK



ASHWOOD



GOLDEN OAK



COPPERED OAK



ANTIQUE OAK



EBONY GREY



BRUSHED BASALT



BURNT CEDAR



Forté