

Plantation Bamboo X-treme Cladding System with hidden fixing system

TECHNICAL MANUAL WITH DRAWINGS



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Table of Contents

- 1. GENERAL DESCRIPTION 3**
- 2. SCOPE OF USE & LIMITATIONS 3**
 - 2.1 SCOPE OF USE 3
 - 2.2 LIMITATIONS 3
 - 2.3 MANAGEMENT OF RISKS 3
- 3. COMPLIANCE WITH THE BUILDING CODE 4**
 - 3.1. NZBC COMPLIANCE 4
 - 3.2. B1 STRUCTURE 4
 - 3.3. B 2 DURABILITY 4
 - 3.4. E2 EXTERNAL MOISTURE 4
 - 3.5. F2 HAZARDOUS BUILDING MATERIALS 4
- 4. LIST OF SPECIFIED COMPONENTS 5**
- 5. MAINTENANCE & WARRANTY 6**
- 6. CONSTRUCTION DETAILS 7**
 - 6.1 FRAMING & FRAME PROTECTION REQUIREMENTS 7
 - 6.2. CONSTRUCTION GUIDANCE 7
- 7. QUALITY MANAGEMENT 9**
 - 7.1. BUILDING PRODUCT QUALITY PLAN 9
- 8. ONSITE CHECKLIST A 10**
- 8. ONSITE CHECKLIST B 11**
- 9. CONSTRUCTION DRAWINGS 13**

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10 January 2023	1.0a	First completed version	SR+CP
2 March 2023	1.2	Added drawings plus new window details	CP
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1 June 2023	1.3	Added 20mm cavity drawings and wording changes	SR+CP
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10 May 2024	2.0	Wording enhancements and drawing revisions	SR+DB

1. GENERAL DESCRIPTION

The Bamboo X-treme Cladding System supplied by Plantation Bamboo, is an exterior wall cladding utilising either vertical and or horizontal bamboo weatherboards, box corners, and fascia boards, or coloured aluminium angles, installed over 10mm or 20mm cavity battens, that provides a light weight, highly durable cladding solution suited for residential housing and light commercial buildings.

This technical manual outlines the typical installation details of the Bamboo X-treme Cladding System. If specifiers require additional details, please contact Plantation Bamboo.

The Bamboo X-treme Cladding System utilises 18mm manufactured bamboo x-treme weatherboards (1850mm x 137mm x 18mm with effective 128mm cover), incorporating a tongue and groove style join on the ends of the boards. The clip and screw fixings provided ensure an even space between boards and enables quick and efficient installation.

The weatherboards are fixed to and through the cavity battens, through the watertight underlay or rigid air barrier to the timber framing by way of the proprietary clips that fit into the grooves on either side of the boards. Use of these clips provides a hidden fixing which enhances the aesthetics of the finished cladding.

For external corners, it is common to install a box corner or aluminium angles. For internal corners, a 60mm x 60mm folded stainless steel sheet angle is used (over cavity battens).

Reliance is made of a specified 'proprietary frame protection system' with tapes to seal windows and doors, to provide reliable weathertightness and protection of the timber framing. Refer to list of specified components p5.

2. SCOPE OF USE & LIMITATIONS

2.1 SCOPE OF USE

The Bamboo X-treme Cladding System is intended to be used as a weatherboard wall cladding installed over 10mm or 20mm cavity battens and a frame protection system onto treated timber framing, for residential and light commercial construction, in wind zones up to and including 'Extra High'. Timber framing shall be constructed as per NZS 3604.

The Bamboo X-treme Cladding System is designed and should be used according to NZS3617:1979 Specification of Profiles of Weatherboards, Fascia Boards, and Flooring.

2.2 LIMITATIONS

The Bamboo X-treme Cladding System is required to be designed and installed according to the details and drawings described in this technical and installation manual, by experienced building contractors.

2.3 MANAGEMENT OF RISKS

Plantation Bamboo manage potential risks leading to poor or non-performance, through the use of a product quality plan, known as a 'Building Product Quality Plan' (BPQP).

The BPQP covers risks concerning the purchase of components, proper labelling of supplied components, use of a third-party technical and installation manual, installer training, as well as on-site quality checklists and taking of photos.

3. COMPLIANCE WITH THE BUILDING CODE

3.1. NZBC COMPLIANCE

The Bamboo X-treme Cladding System complies with the following clauses of the New Zealand Building Code:

B1 - Structure

B2 - Durability

E2 - External Moisture

F2 - Hazardous Building Materials

3.2. B1 STRUCTURE

The Bamboo X-treme Cladding System when installed as per this manual is able to withstand up to and including Extra High wind zones as described in NZS 3604:2011. The weatherboard system, if installed as per this manual will meet the requirements of NZBC Clause B1.

3.3. B2 DURABILITY

The Bamboo X-treme Cladding System when installed as per this manual will meet the requirements of NZBC Clause B2 of 15 years.

3.4 E2 EXTERNAL MOISTURE

The Bamboo X-treme Cladding System contributes to the requirements of NZBC Clause E2 relating to the resistance of water penetration, providing the integrity of the Bamboo X-treme Cladding System is maintained to protect the underlying watertight underlay or rigid air barrier.

The nominal 10mm or 20mm cavity is provided to:

- Allow excess moisture to run down the inside of the cavity and escape through the cavity closer.
- Provide air space permitting air to circulate within the cavity to dry out any accumulated dampness of the weatherboards.

3.5 F2 HAZARDOUS BUILDING MATERIALS

In reference to NZBC Clause F2 regarding Hazardous Building Materials, the Bamboo X-treme Cladding System is non-hazardous.

4. LIST OF SPECIFIED COMPONENTS

Bamboo X-treme Weatherboards	The system includes the following: - Bamboo X-treme Weatherboards (137mm x 18mm) incorporating hidden fixing grooves on both edges of the weatherboard
Hidden Fixing System	- 40 x 3.93mm stainless steel screws (for 10mm cavity) or 50 x 3.93mm stainless steel screws (for 20mm cavity), plus - 37mm x 29mm stainless steel clip system – powder-coated black
Either a ‘flexible air barrier system’, or,	- The specified proprietary ‘flexible air barrier system’ (such as from Proclima or Rothoblaas, or similar) shall include a watertight underlay, compatible and durable seam tapes, window and door opening sealing tape, and pipe gaskets.
a ‘rigid air barrier system’ (RAB)	- A proprietary rigid air barrier (RAB) compliant with the NZBC shall be installed in accordance with the manufacturer’s instructions
Cavity Battens	- 10mm or 20mm x 45mm wide fluted plastic (draining) or timber cavity battens
Cavity Batten Fixings	- Either 8g x 45mm galvanized clouts or, where available, cavity battens with self-adhesive.
Sealing Tapes	- The selected Rothoblaas or Proclima flashing tape(s) (or similar) should be minimum 60mm wide designed for adequate sealing around penetrations in exterior walls. The sealing tapes must comply with NZBC Clauses B1.3.2, B2.3.1(a), E2.3.2 & F2.3.1.
Pipe sealing gaskets	- The selected pipe sealing gaskets (Proclima or Rothoblaas or similar) that comply with NZBC Clauses B1.3.2, B2.3.1(a), E2.3.2 & F2.3.1.
Scribers used around NZ profile windows	- Generally, 20mm x 18mm scribers are produced from the 137mm x 18mm weatherboard material.
Corner flashing	- Quickflash 50mm x 50mm External and Internal Corner Flashings, or similar
Corner flashing Fixing	- 30mm galvanised or stainless-steel clouts
Plantation Bamboo cavity closers– 1mm thick aluminium))	- Option 1 – (19mm) for horizontal weatherboards (for 10mm cavity): U shape (product code PB1H) - Option 2 – (18mm) for either horizontal or vertical weatherboards (for 10mm cavity): L shape (product code PB2V) - Option 3 – (29mm) for horizontal or vertical weatherboards (for 20mm cavity): U shape (product code PB3H) - Option 4 – (28mm) for either horizontal or vertical weatherboards (for 20mm cavity): L shape (product code PB4V)
Screws for direct fixing vertical cladding (bottom board)	- A 12g x 75mm stainless steel screw, fixed through the centre of the cladding board on first batten only, above cavity closer. Stainless steel screw may be substituted with an antique bronze colour to match the cladding colour if preferred.

5. MAINTENANCE & WARRANTY

The Bamboo X-treme Cladding System shall be:

- regularly cleaned and inspected
- where an oil has been applied, periodically re-coated to maintain appearance and protection (if desired)

The Bamboo X-treme Cladding System and specified components, when installed and maintained as per this manual, are warranted for a minimum life period of 25 years (from date of completion). Failure to correctly maintain the system may void any warranties offered with the system.

NOTE: Such a warranty shall not be provided until copies of completed site checklists have been received by Plantation Bamboo. Refer Sections 8A & 8B.

6. CONSTRUCTION DETAILS

6.1 FRAMING & FRAME PROTECTION REQUIREMENTS

To ensure compliance with NZBC Clause E2.3.2 (weathertightness) and Clause H1.3.1 (energy efficiency), either a proprietary 'rigid air barrier' (RAB) or, a proprietary 'flexible air barrier' (FAB) will need to be installed over the framing.

Timber framed wall studs should be placed at centres of not more than 600mm and are to be constructed to NZS3604:2011.

The proprietary RAB or FAB system shall be installed over the exterior wall framing and have openings to windows and door frames as well as penetrations for pipes, vents and the like sealed. Only the specified proprietary weathertight gaskets should be used to seal any water pipe and or conduit penetrations through the wall.

6.2 CONSTRUCTION GUIDANCE

Storage of Bamboo X-treme Cladding:

Store the cladding in a cool dry place away from direct sunlight, on a pallet (or similar) and protected from weather influences, dirt and dust.

Installation Checklist:

A pre-installation check is required to be completed: the builder / LBP installing the cladding needs to complete the Bamboo X-treme Cladding System pre-cladding check list.

> Refer section 8 - 'Pre-Installation Checklist' for details

See drawings 21 and 22 for the detailed assembly process

Sequence for installation:

1. Ensure that the set-out for the slab edge is correct at the bottom junction where the wall frame and concrete floor meet. (Refer to drawing 7 for details)

> Where the set-out is not straight or correct, inform the owner in writing prior to commencing any installation of the Bamboo X-treme Cladding, that the set-out needs to be corrected.

2. Check framing for straightness by using a 2-3 metre straight edge, both in the horizontal and vertical plane. If the wall framing is out of plumb more than 10mm or the horizontal alignment of the stud wall is misaligned, then corrective action to fix the issue is required.

> Where the framing is not straight, the owner shall be informed in writing, that prior to commencing the installation of the Bamboo X-treme Cladding System, framing must be straightened to within the correct tolerance.

3. Once the above has been achieved, ensure that all back-blocking for any wall fixtures like pipe penetrations, downpipes, light fittings, clotheslines, or other item intended to be fixed to the cladding have been installed prior to the installation of the RAB or FAB system.

4. The RAB or FAB can now be installed in accordance with the manufacturer's instructions, to provide an air and moisture resistance barrier.

5. The selected 10mm or 20mm cavity battens can now be installed – either by way of collated 40/50mm clouts or, with the use of spray-applied adhesive when supplied with the cavity batten.

Example: <https://www.youtube.com/watch?v=o5zfErt37k4>

6. The preparation and installation of the Bamboo X-treme weatherboards complete with hidden fixing system, can now begin.
7. The bottom line of the cladding cover needs to be set out onto the RAB or FAB, for each side of the building where the weatherboards are to be installed.
8. A Plantation Bamboo cavity closer (used for horizontal or vertical weatherboard installation) – shall be installed. The cavity closer needs to be installed at least 10mm below the bottom edge of the RAB/ FAB. Refer List of Components p 5. (Also refer to the drawings for details).
9. The appropriate lengths of each weatherboard need to be measured – based on whether the weatherboards are installed vertically or horizontally. In some cases, the width of the weatherboards may need ripping down (reducing the width) to suit the required cover or situation.
10. The hidden fixing system comprises 37 x 29mm stainless steel clips powder-coated black, which uses 3.93mm x 40mm stainless steel screws (for 10mm cavity) or 50mm stainless steel screws (for 20mm cavity) to fix the clip through the cavity batten. Two screws are applied per clip through the RAB/ FAB to the timber studs or dwangs.
11. Direct fix the bottom cladding board (when installed vertically) with a 12g x75mm stainless steel screw through the middle of the cladding board on the first batten only, above the cavity closer.

Note that the actual width of the weatherboards is 137mm x 18mm, but the cover is 128mm including radius edges.

In order to install vertical weatherboards behind the outer cover flange of the NZ manufactured windows, it may become necessary to install a weatherboard in two parts – one part from the top, the remainder from the bottom. The scarf joint would be cut at a 45 degree angle so that the actual join when installed is almost invisible.

11. Once the Bamboo X-treme weatherboards have been installed, a coloured oil can be applied, if desired. However, this is not necessary if a low maintenance cladding finish is preferred.

Installer requirements:

1. Installation of the Bamboo X-treme weatherboards shall only be undertaken by an experienced building contractor, in accordance with these installation instructions.

6.3 BUILDING CONSENT APPLICATION

To assist with the smooth and efficient processing of the building consent process (where required), please complete and submit the "Consent Compliance Form" (see APPENDIX 8C) with your building consent application to Council.

7. QUALITY MANAGEMENT

7.1 BUILDING PRODUCT QUALITY PLAN

All key risks associated with the Bamboo X-treme Cladding System, are managed through the use of on-site checklists, provided in section 8 of this technical manual and referred to in the Building Product Quality Plan (BPQP). The Company Building Product Quality Plan v1.0 is a separate document and is available from Plantation Bamboo on request.

7.2 UNLAWFUL CONSTRUCTION

Note that any penetration of the Bamboo X-treme Cladding System not in accordance with this technical and installation manual or approved by the supplier, will be deemed unlawful construction and the relevant party constructing the penetration shall be responsible for all consequential damages.

7.12 INFORMING BEAL OF ANY UNLAWFUL CONSTRUCTION

In the (unlikely) event that the appraisal certificate-holder becomes aware of any unlawful construction, the certificate-holder shall inform BEAL at its earliest opportunity and shall provide all relevant details and any photos or videos.

8. ONSITE CHECKLIST A



PRE-CLADDING INSTALLATION CHECKLIST

For LBPs, supervisors, and building inspectors

Consent No: _____

Site Address: _____

Builder: _____ Mobile: _____

Designer: _____ Mobile: _____

NOTE: Framing must be correctly constructed to enable the correct installation of the Bamboo X-treme Cladding System

Floor slab layout

Where the design of the weatherboard is to over-hang the slab, the bottom plate shall be flush with the slab

Framing including back-blocking

Studs shall be straight & back-blocking installed, ready for rigid air barrier or frame protection system installation

Wall frame protection / Rigid Air Barrier installation

Either one of the approved "frame protection systems" - incorporating a watertight underlay and tape system, or a "rigid air barrier system" shall be installed.

In both cases, tapes shall be used to make all joins and the exterior wall airtight around the perimeter. Refer to drawing 7.

Check that only weathertight gaskets and/or tape are used.

Windows

Window openings need to be between 7 and 10mm from timber reveals to opening. Refer to drawings 9,10 & 11.

Cavity Battens & Closers

Ensure 10mm or 20mm fluted plastic or timber (x 45mm wide) cavity battens will be installed, if not already. Ensure Plantation Bamboo cavity closers have been installed, as specified in the drawings

Variations/ Comments (attach notes if insufficient room):

Signed: _____ Date: _____

(Name of installer/LBP)

Note: This Checklist must be copied to Plantation Bamboo (info@plantationbamboo.co.nz) to be eligible for a warranty

8. ONSITE CHECKLIST B

POST-CLADDING INSTALLATION CHECKLIST

For LBPs, supervisors, and building inspectors

Consent No: _____

Site Address: _____

Builder: _____ Mobile: _____

Designer: _____ Mobile: _____

NOTE: Framing must be correctly constructed to enable the correct installation of the Bamboo X-treme Cladding System

- Has the specified hidden fixings been used?
- Are the hidden fixings located in accordance with the technical manual drawings?
- Are all installed weatherboards flush with each other, and joined over a cavity batten?
- Have the specified Plantation Bamboo cavity closer(s) been used?
- Has the specified tape been used to seal between window and door framing to either the frame protection system or rigid air barrier?
- Have all external and internal corner junctions been flashed in accordance with the technical manual and drawings?
- Have all window and door openings of the weatherboard cladding been constructed in accordance with the drawings?
- Have the specified pipe or conduit gaskets been installed around pipe or wire penetrations?
- Are all external corners flashed or boxed with internal corners straight and plumb from top to bottom?

Variations/ Comments (attach notes if insufficient room):

Signed: _____ **Date:** _____

(Name of supervisor)

Note: This Checklist must be copied to Plantation Bamboo (info@plantationbamboo.co.nz) to be eligible for a warranty



Applicant's Declaration of Compliance



Name of applicant: _____

LBP Registration: _____ BEAL Registered: _____

Name of owner: _____

Building Site Address: _____

Building Importance Level: _____ Detached or semi-detached: _____

Number of Stories or Height: _____ Wind Zone: _____

Name of BEAL Appraised Building Product/System: **The Bamboo X-treme Cladding System**

Appraisal # **C2248**



Applicable performance clauses:

B1 - Structure and or Mechanical Performance _____

B2 - Durability: 15yrs _____ 5 yrs _____ (where a coating is to be applied)

E2 – External Moisture: Walls _____

F2 – Hazardous Materials Not Used _____

Evidence and Supporting Information Relied Upon:

1. Compliance with the relevant performance clauses: Refer to Appraisal Certificate Para 2.1
2. Ease of Installation: Refer Para 8.5
3. Technical & Installation Manual, version #:2.0
4. Quality Plan, version#: 1.0
5. Structural Engineer's Report or Opinion (where applicable): Opinion from King & Dawson
6. Peer Reviews (where applicable): Completed by BEAL Staff
7. Evidence of In-Service History: Manufacturers literature
8. Comparison with a similar product: Nil
9. Referenced Code of Practice (if any): Nil
10. Any MBIE referenced document (if any): Nil
11. Other manufacturer's technical literature: Refer MSDS Sheet Supplied
12. Manufacturer or Supplier Supervisor Training Register/Certificate: Nil
13. Use of QR Code to access Onsite Quality Control: refer to onsite checklists 'A' & 'B' in the technical manual

Signed (applicant)

Date

9. CONSTRUCTION DRAWINGS

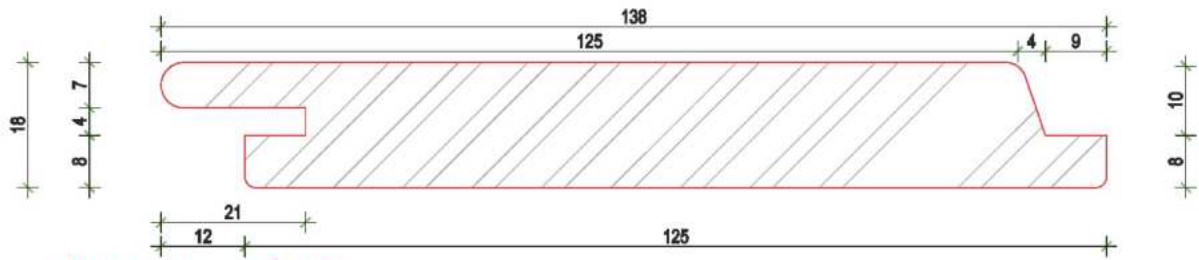
The construction drawings are included as part of this Technical Manual for:

- 20mm cavity horizontal installations
- 20mm cavity vertical installations

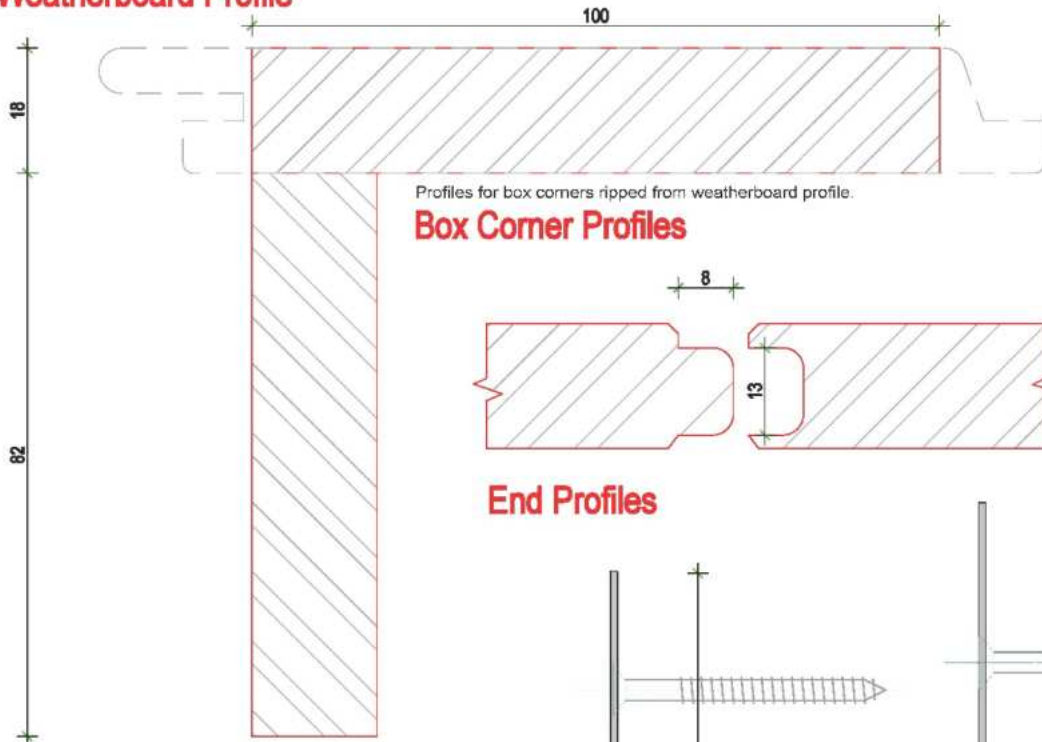
Drawings for 10mm cavity installation (both horizontal and vertical) are available on request.

CAD/DWG drawing files are available on request.

System Components

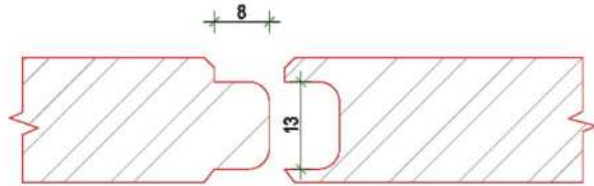


Weatherboard Profile

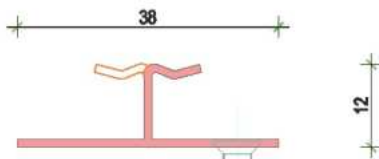


Profiles for box corners ripped from weatherboard profile.

Box Corner Profiles

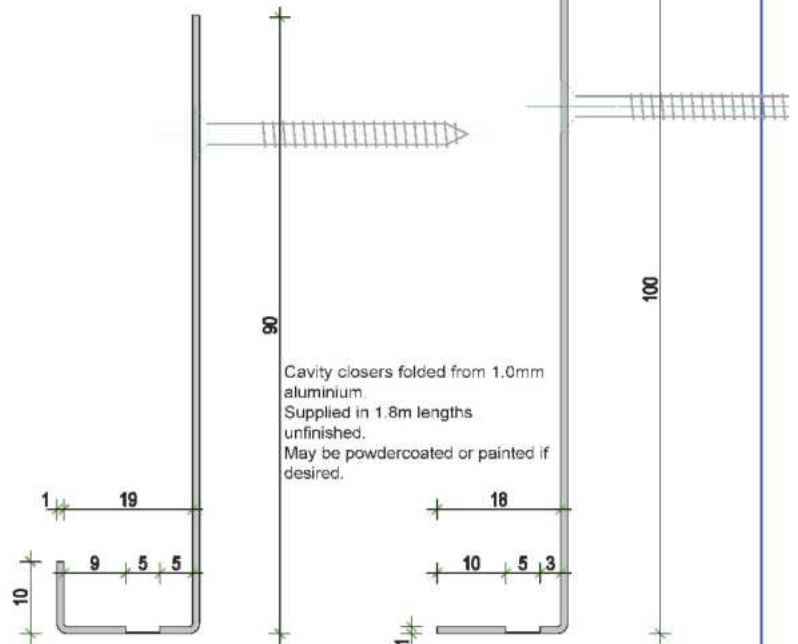


End Profiles



Stainless steel clip with black powder coating.
2/ 50 x 3.93 mm s/steel screws

X-treme Clip Profile



Cavity closers folded from 1.0mm aluminium.
Supplied in 1.8m lengths unfinished.
May be powdercoated or painted if desired.

X-treme Cavity Closer 3

X-treme Cavity Closer 4



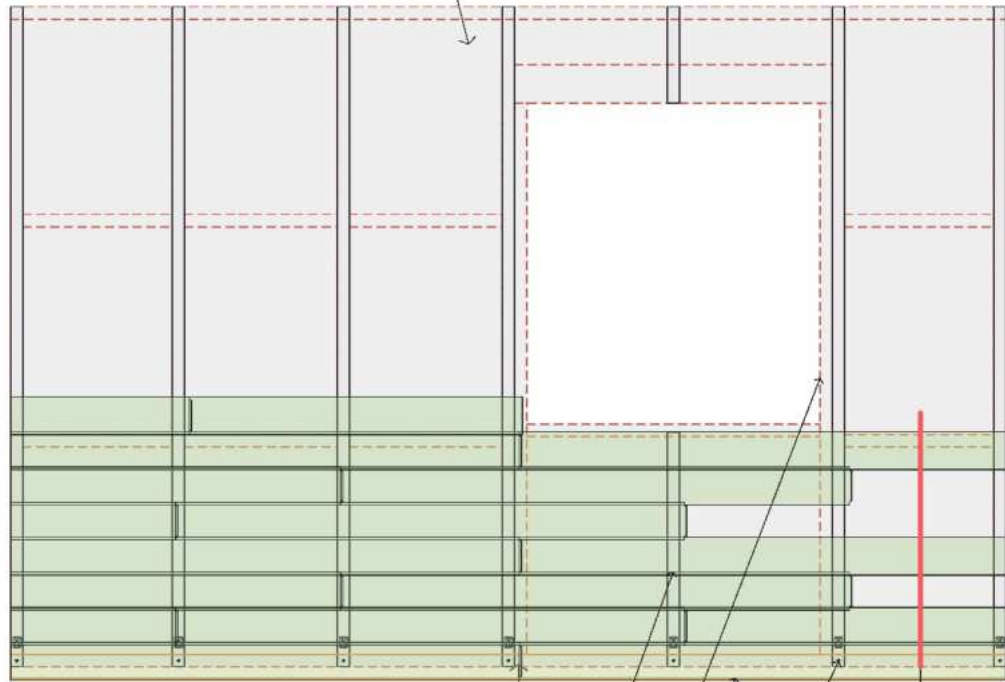
NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 May 2024 updates

JOB NO:	BTS 2248	DATE:	16/05/2024
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DRAWN:	DB	SCALE:	1:1
CHECKED:	CP	SHEET NO:	1H of 21

Wall Framing Layout for Horizontal Installation

Adjust upper height as required for soffit



Wall framing set out to NZS3604:2011 requirements with min. 90 x 45 studs @ max. 600mm crs. and nogs/ dwangs @ 800mm crs vertically.

Bamboo X-treme 38 x 28mm s/steel clips fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm fluted cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic.

Rigid/ flexible frame protection system over framing, window opening.

Bamboo X-treme horizontal weatherboards, set out for 50mm overhang to concrete slab or as required for suspended floor depth.

12g x 75mm s/steel screw fixing through centre of cladding board on first batten only above closer - s/steel may be substituted with silicon bronze where Exposure zone permits.

Refer to detail 3 for end jointing.
End joints may be staggered.

Vertical Section

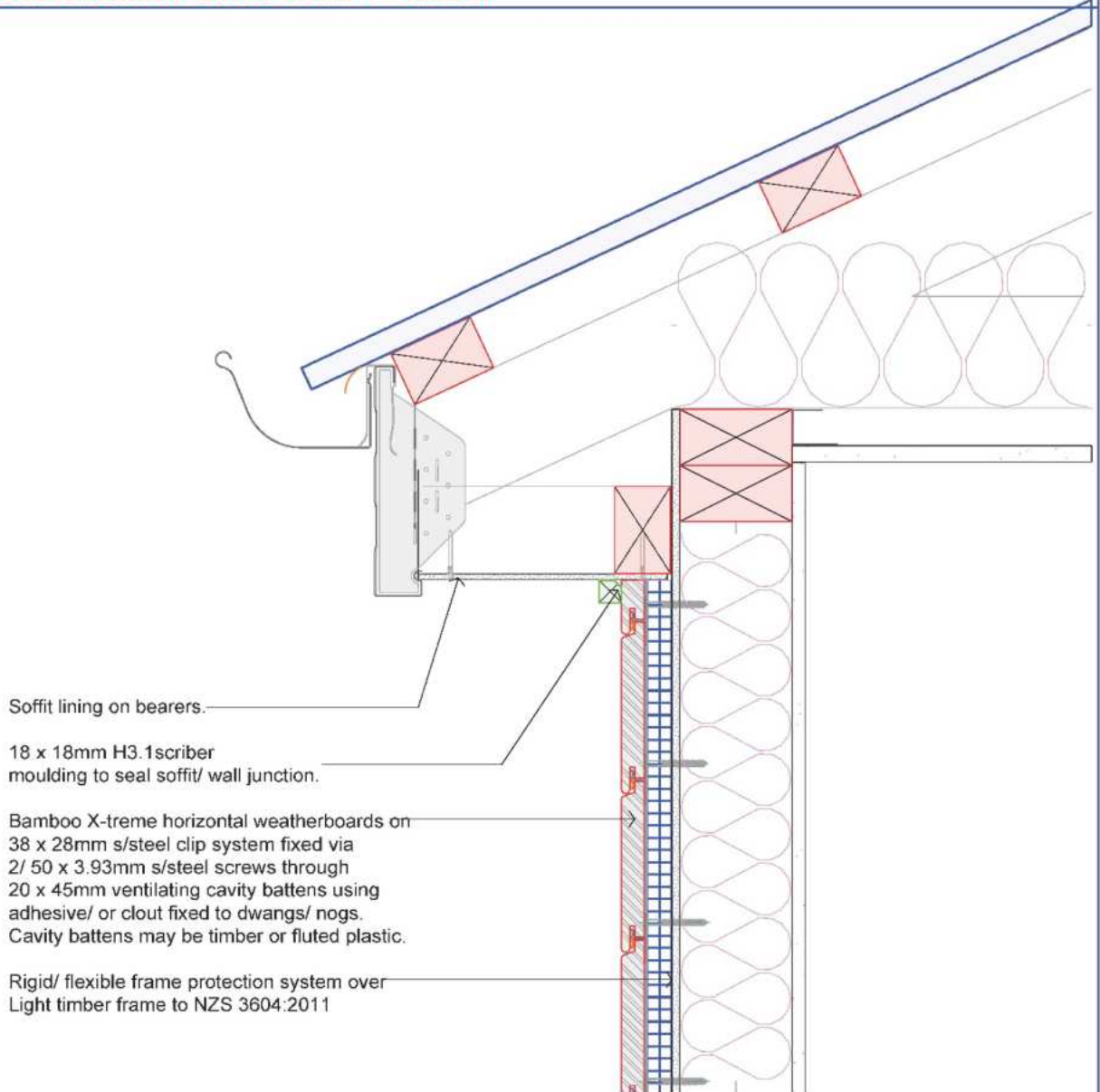


NOTE
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DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
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Weatherboard to Eaves Detail 1 - Scriber



- Soffit lining on bearers.
- 18 x 18mm H3.1 scriber moulding to seal soffit/ wall junction.
- Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic.
- Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011

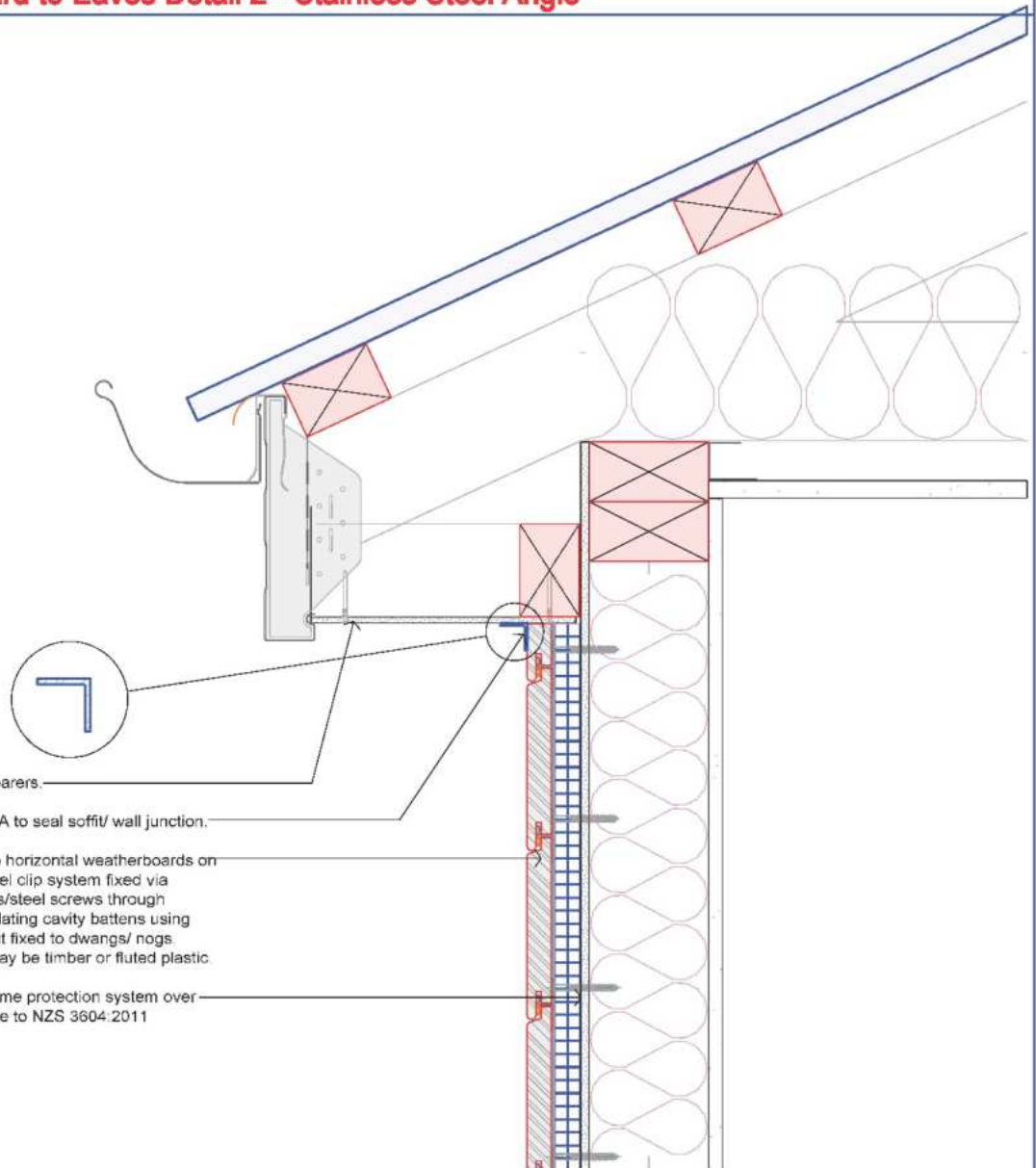


NOTE
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DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	3H OF 21

Weatherboard to Eaves Detail 2 - Stainless Steel Angle



- Soffit lining on bearers.
- 20 x 20 s/steel EA to seal soffit/ wall junction.
- Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic.
- Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011

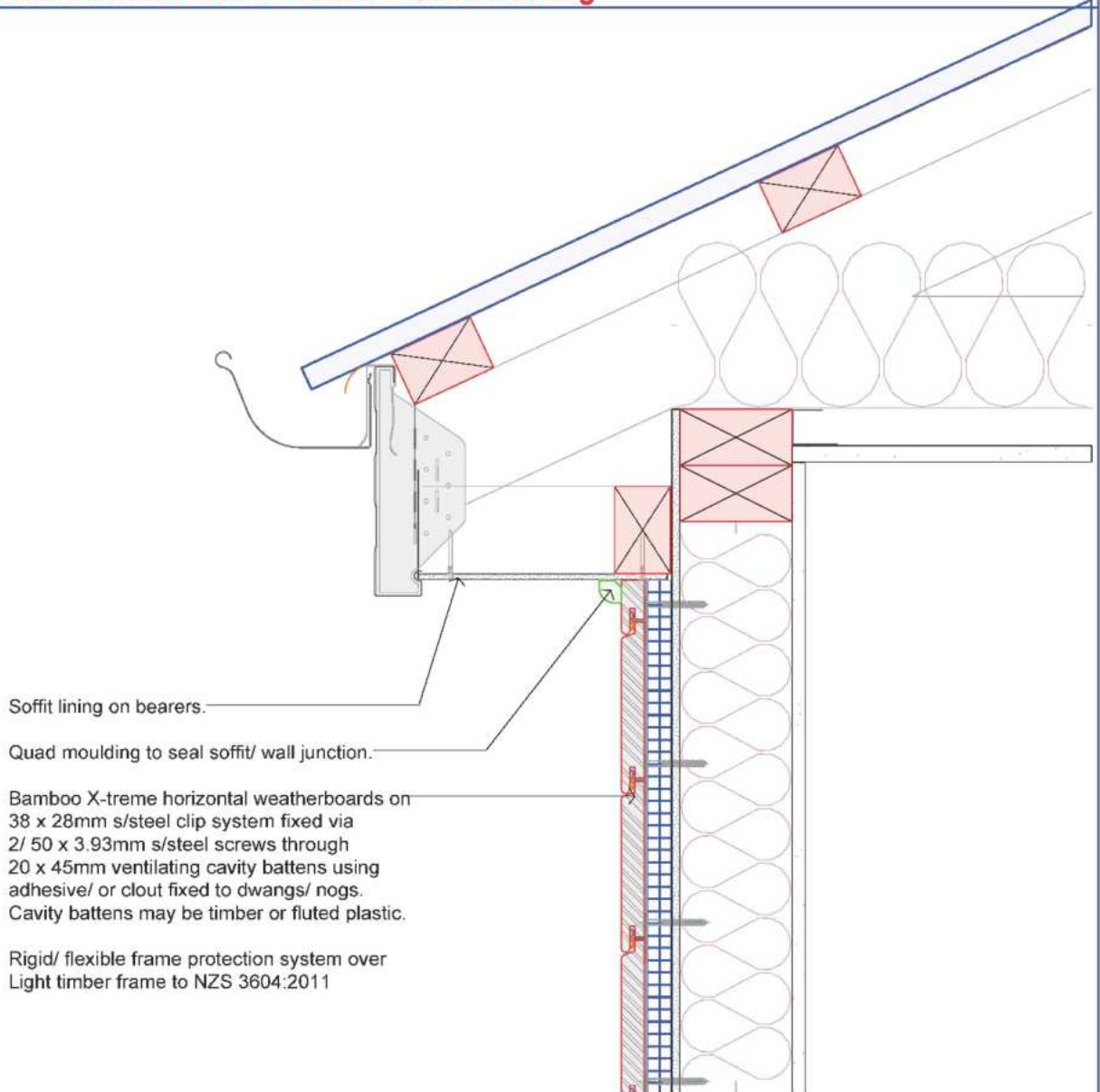


NOTE
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CHECKED:	CP	SHEET NO:	4H of 21

Weatherboard to Eaves Detail 3 - Quad Moulding



Soffit lining on bearers.

Quad moulding to seal soffit/ wall junction.

Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic.

Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011



NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 May 2024 updates

JOB NO:	BTS 2248	DATE:	16/05/2024
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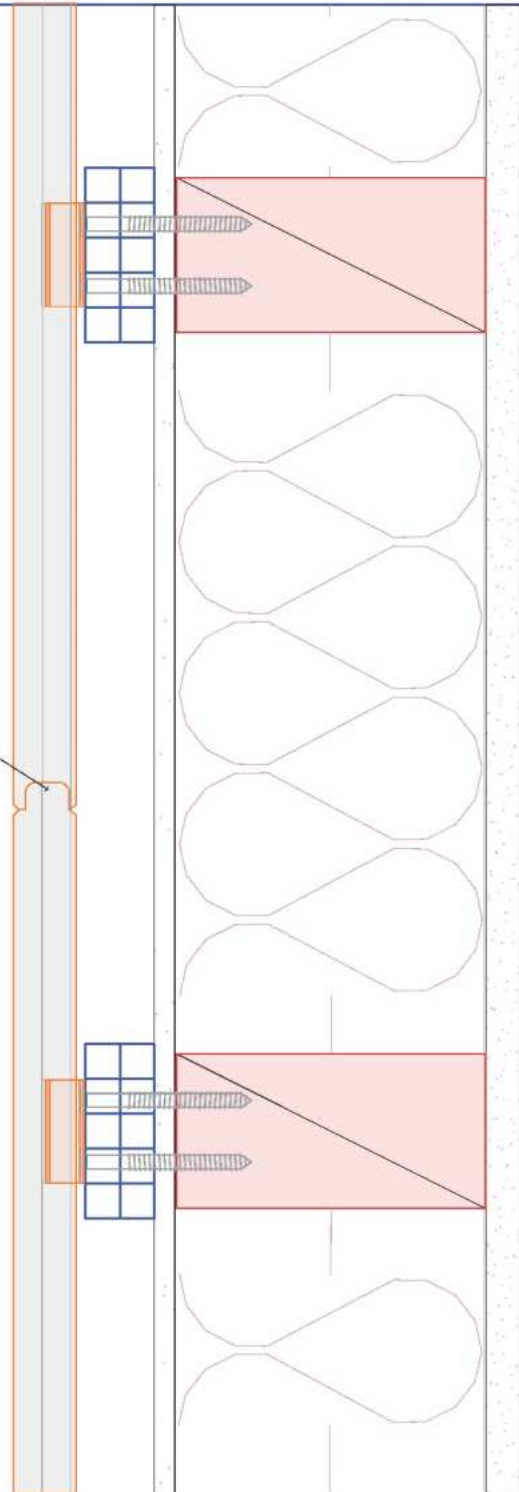
End Lap Joint

End profiles factory rebated

38 x 28mm s/steel clip system fixed via
2/ 50 x 3.93mm s/steel screws through
20 x 45mm ventilating cavity battens using
adhesive/ or clout fixed to dwangs/ nogs between
vertical sections.
Cavity battens may be timber or fluted plastic.

Rigid/ flexible frame protection system over
Light timber frame to NZS 3604:2011

Refer also to Detail A1.2 for the wall framing layout.

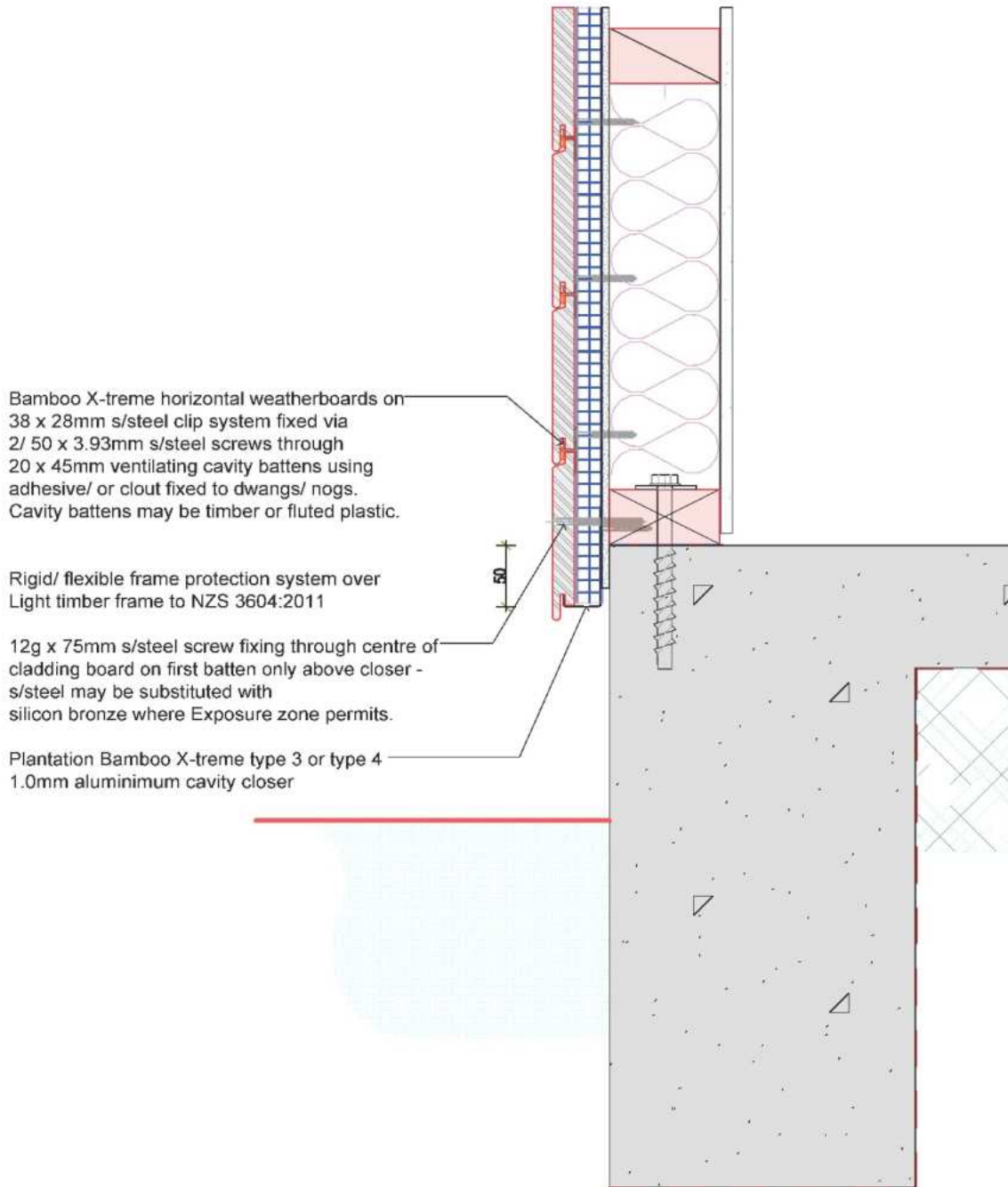


NOTE
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Technical Manual.

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CHECKED:	CP	SHEET NO:	6H of 21

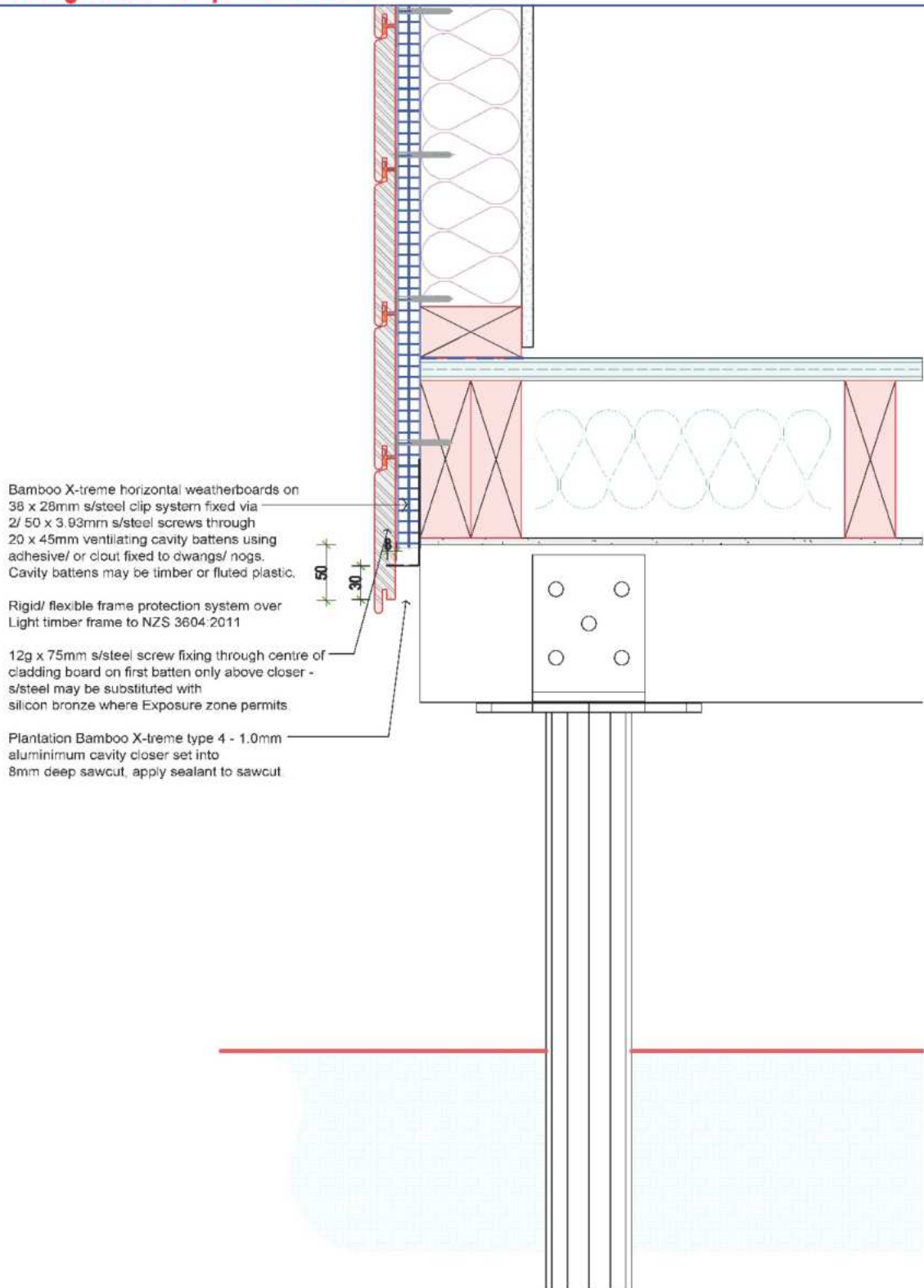
Cladding Base - Concrete Slab



NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 May 2024 updates

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DRAWN:	DB	SCALE:	1:5
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Cladding Base - Suspended Floor


Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic.

Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011

12g x 75mm s/steel screw fixing through centre of cladding board on first batten only above closer - s/steel may be substituted with silicon bronze where Exposure zone permits.

Plantation Bamboo X-treme type 4 - 1.0mm aluminium cavity closer set into 8mm deep sawcut, apply sealant to sawcut

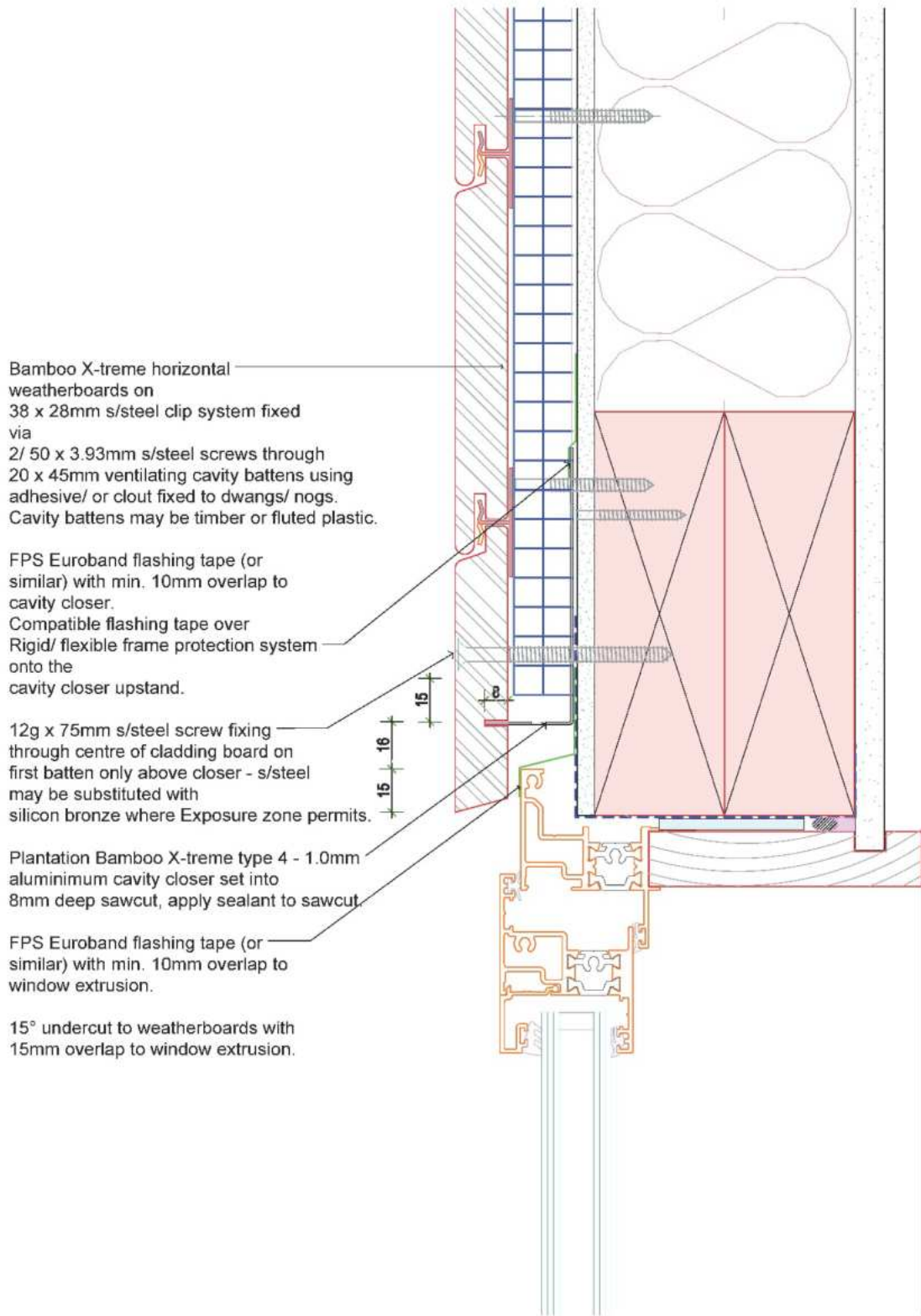


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JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO.:	8H of 21

Window Head



Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ noggs. Cavity battens may be timber or fluted plastic.

FPS Euroband flashing tape (or similar) with min. 10mm overlap to cavity closer. Compatible flashing tape over Rigid/ flexible frame protection system onto the cavity closer upstand.

12g x 75mm s/steel screw fixing through centre of cladding board on first batten only above closer - s/steel may be substituted with silicon bronze where Exposure zone permits.

Plantation Bamboo X-treme type 4 - 1.0mm aluminium cavity closer set into 8mm deep sawcut, apply sealant to sawcut.

FPS Euroband flashing tape (or similar) with min. 10mm overlap to window extension.

15° undercut to weatherboards with 15mm overlap to window extension.

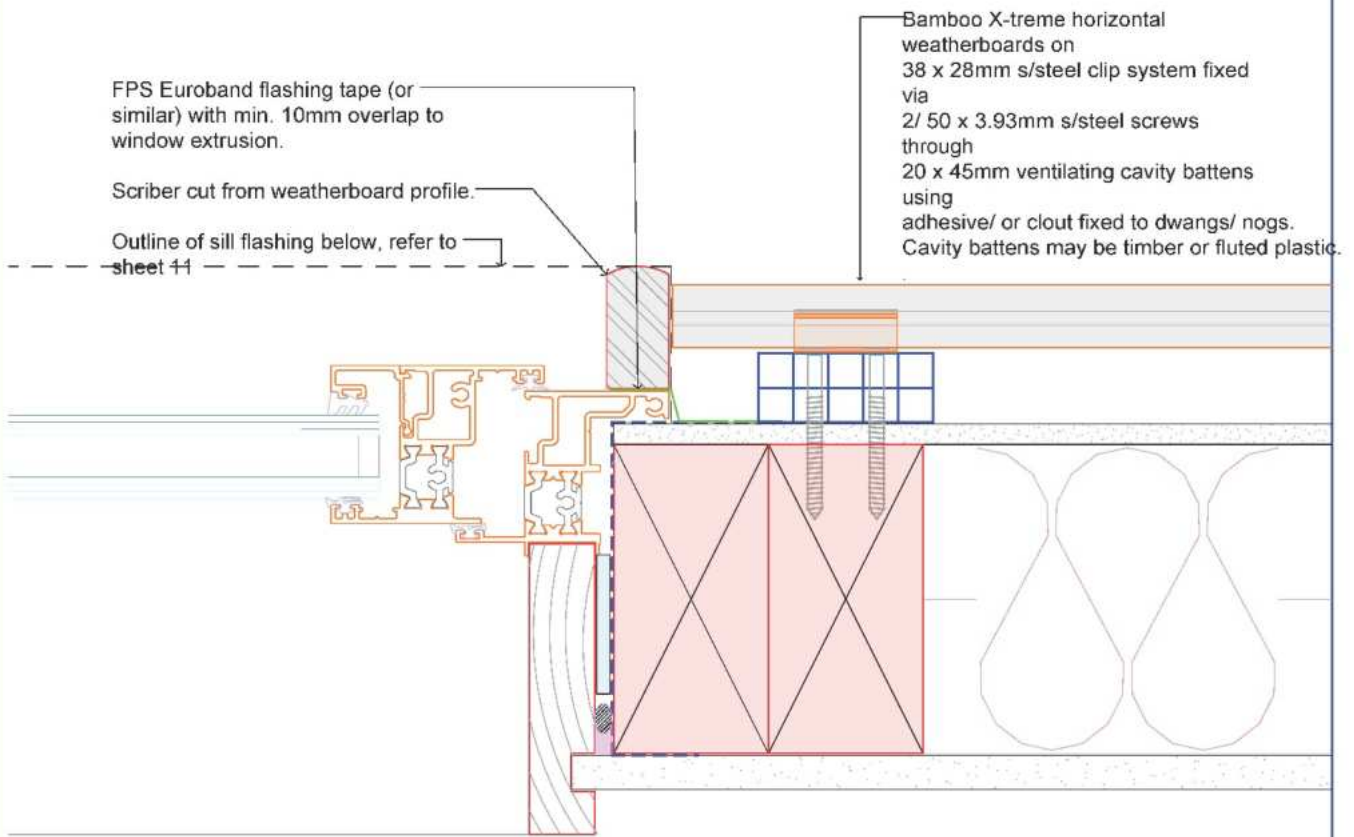


NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	9H of 21

Window Jamb

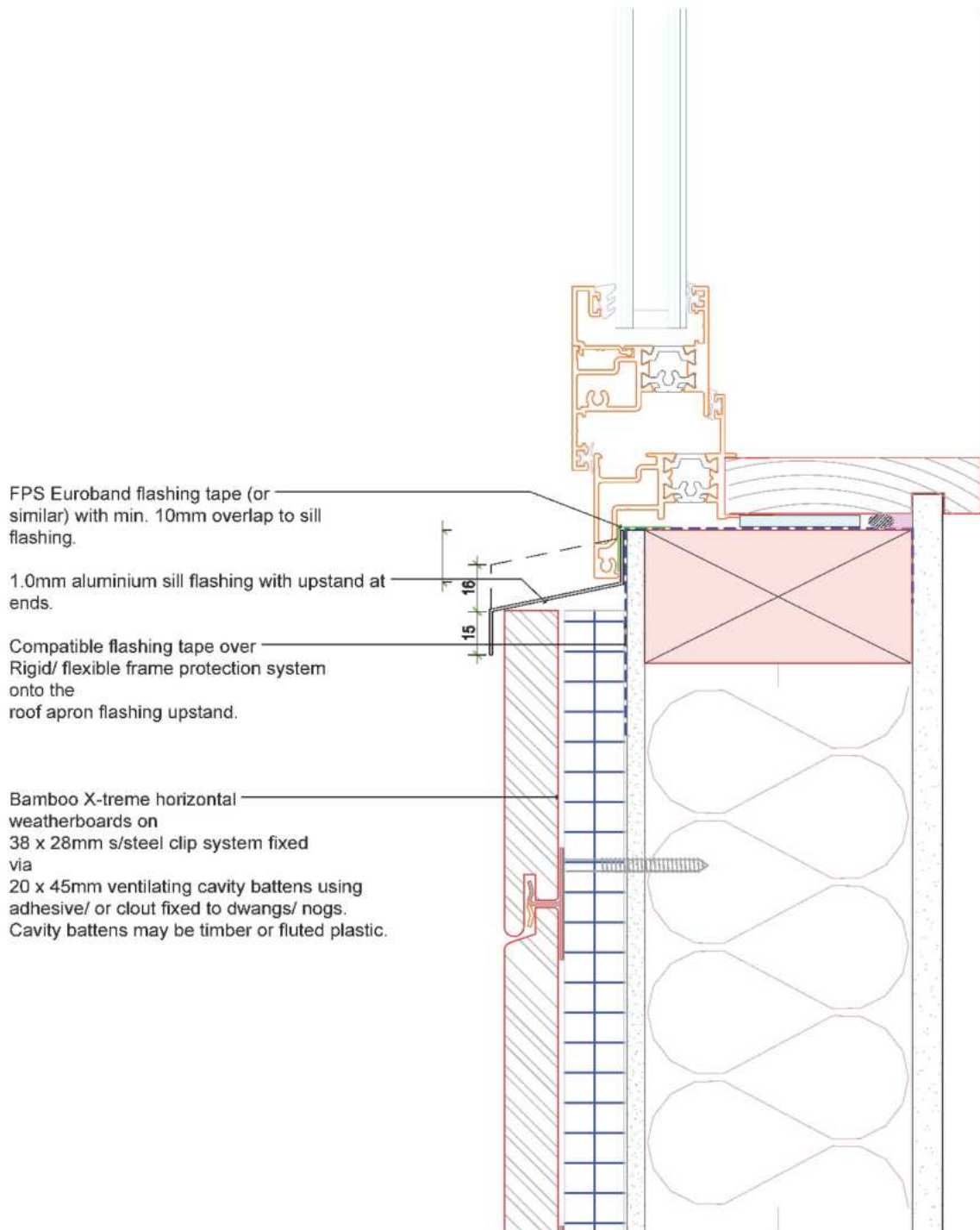


NOTE
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REVISION
V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	10H of 21

Window Sill



FPS Euroband flashing tape (or similar) with min. 10mm overlap to sill flashing.

1.0mm aluminium sill flashing with upstand at ends.

Compatible flashing tape over Rigid/ flexible frame protection system onto the roof apron flashing upstand.

Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic.



NOTE
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REVISION
V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	11H of 21

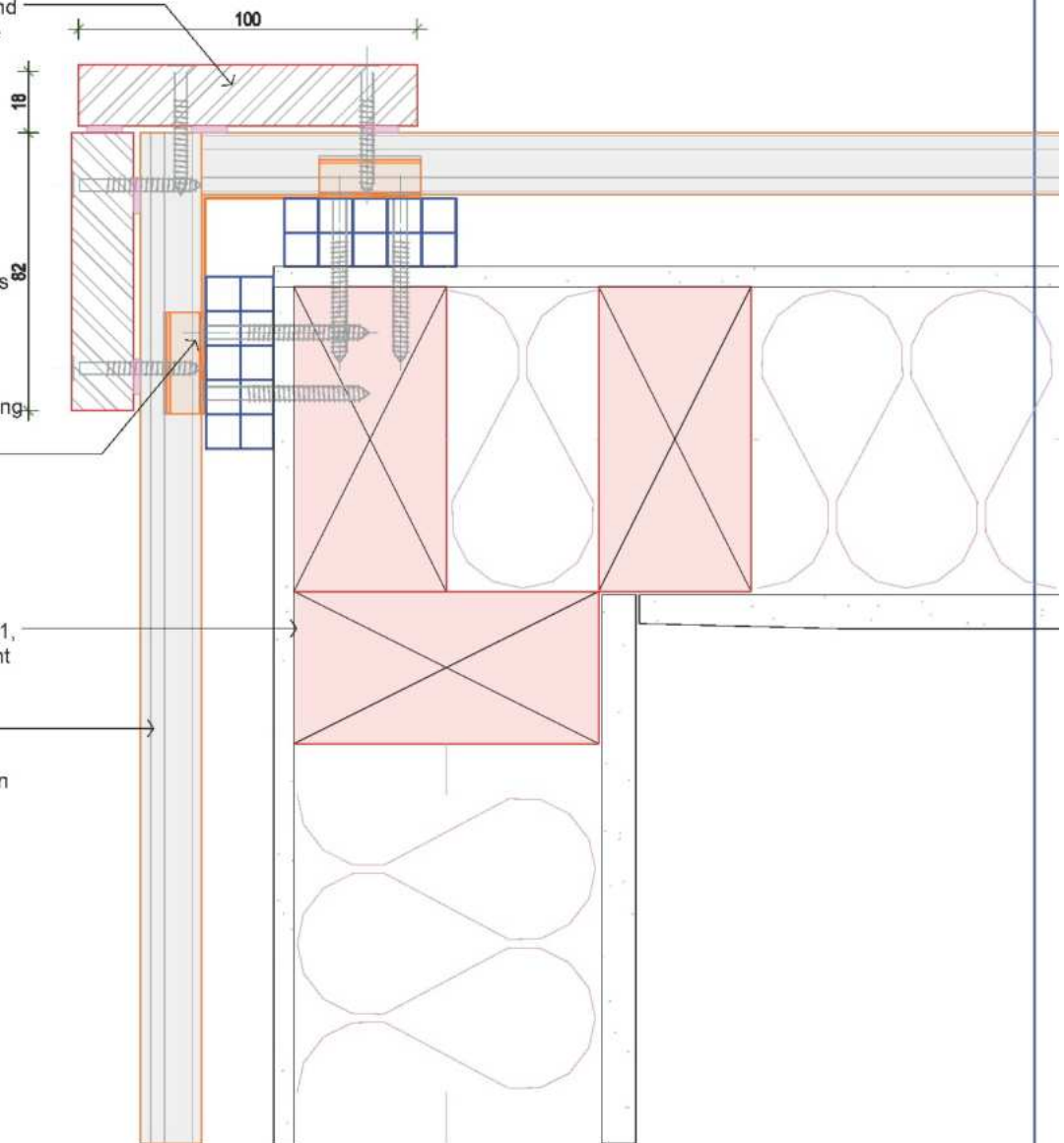
External Corner - Box Corner

Box corner facings 100mm and 82mm fixed using Gorilla glue premium or similar over pre-drilled 35mm x 3.5 (6g) s/steel 304 screws.

Face fix corner weatherboards through 50 x 50mm 0.55 BMT galvanised or 50 x 50mm 0.5 BMT s/steel vertical hemmed corner flashing to NZBC E2/ AS1 Table 20 for exposure zone.

Wall framing to NZS3604:2011, refer to NZBC B2 for treatment requirements.

Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic.



NOTE
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REVISION
V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO.:	12H of 21

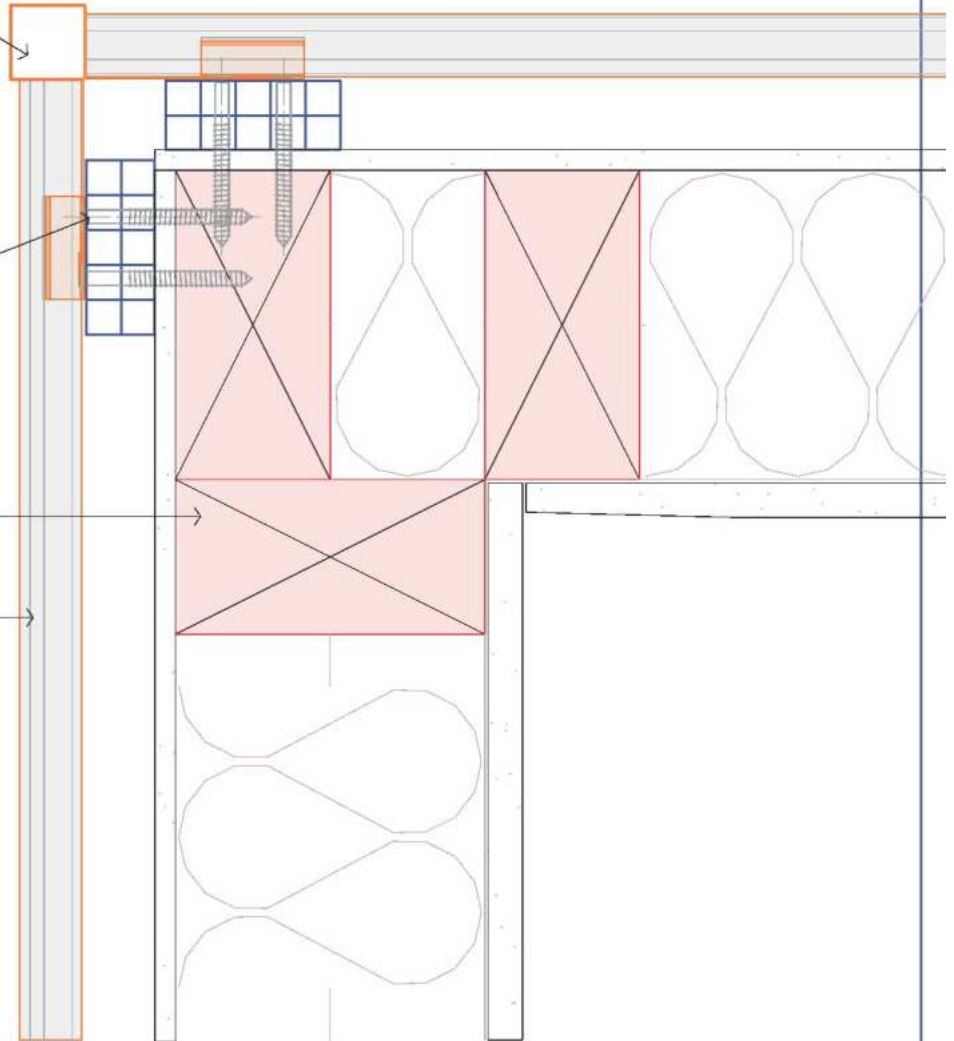
External Corner - Stainless Steel Corner Detail

Stainless steel corner flashing to suit.
 Rebate the back of the weatherboards as required to sit flush over flashing.

Face fix corner weatherboards through 0.5 BMT s/steel vertical hemmed corner back flashing with external profile.

Wall framing to NZS3604:2011, refer to NZBC B2 for treatment requirements.

Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs.
 Cavity battens may be timber or fluted plastic.

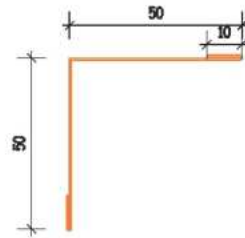


NOTE
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REVISION
 V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	13H of 21

External Corner - Mitred Corner

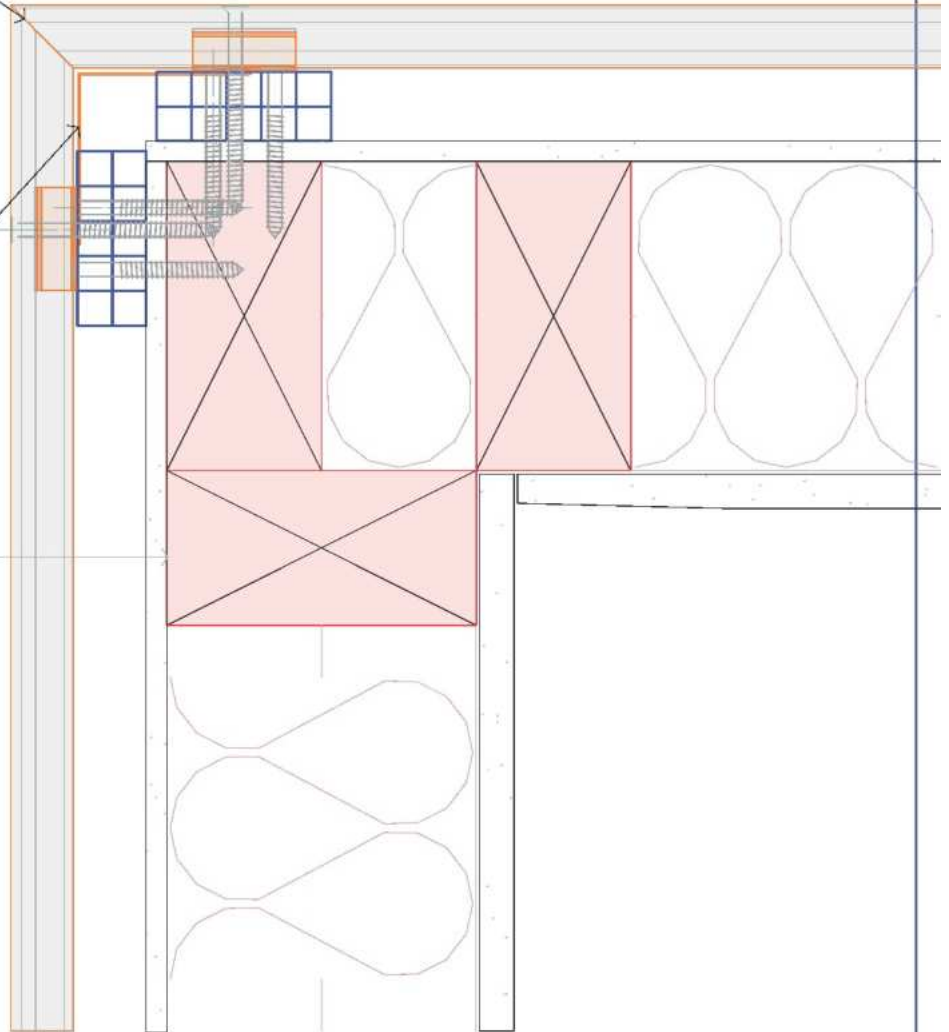


Corner boards mitred, run a continuous bead of construction adhesive between the meeting faces.

Face fix corner weatherboards through 50 x 50mm 0.55 BMT galvanised or 50 x 50mm 0.5 BMT s/steel vertical hemmed corner back flashing to NZBC E2/ AS1 Table 20 for exposure zone.

Wall framing to NZS3604:2011, refer to NZBC B2 for treatment requirements.

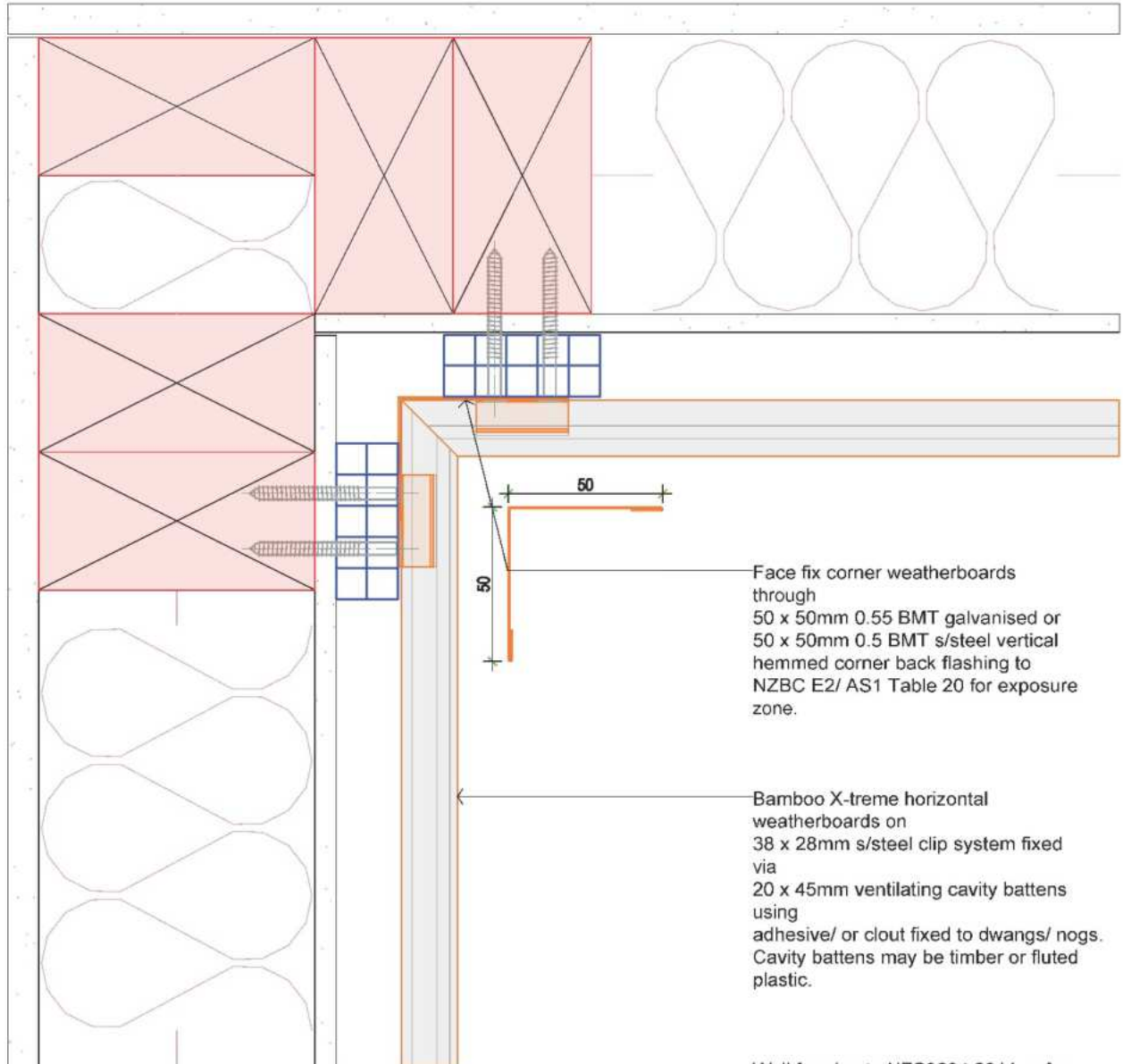
Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ noggs. Cavity battens may be timber or fluted plastic.



NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	14H of 21

Internal Corner - Timber Butt Joint


Face fix corner weatherboards through 50 x 50mm 0.55 BMT galvanised or 50 x 50mm 0.5 BMT s/steel vertical hemmed corner back flashing to NZBC E2/ AS1 Table 20 for exposure zone.

Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ noggs. Cavity battens may be timber or fluted plastic.

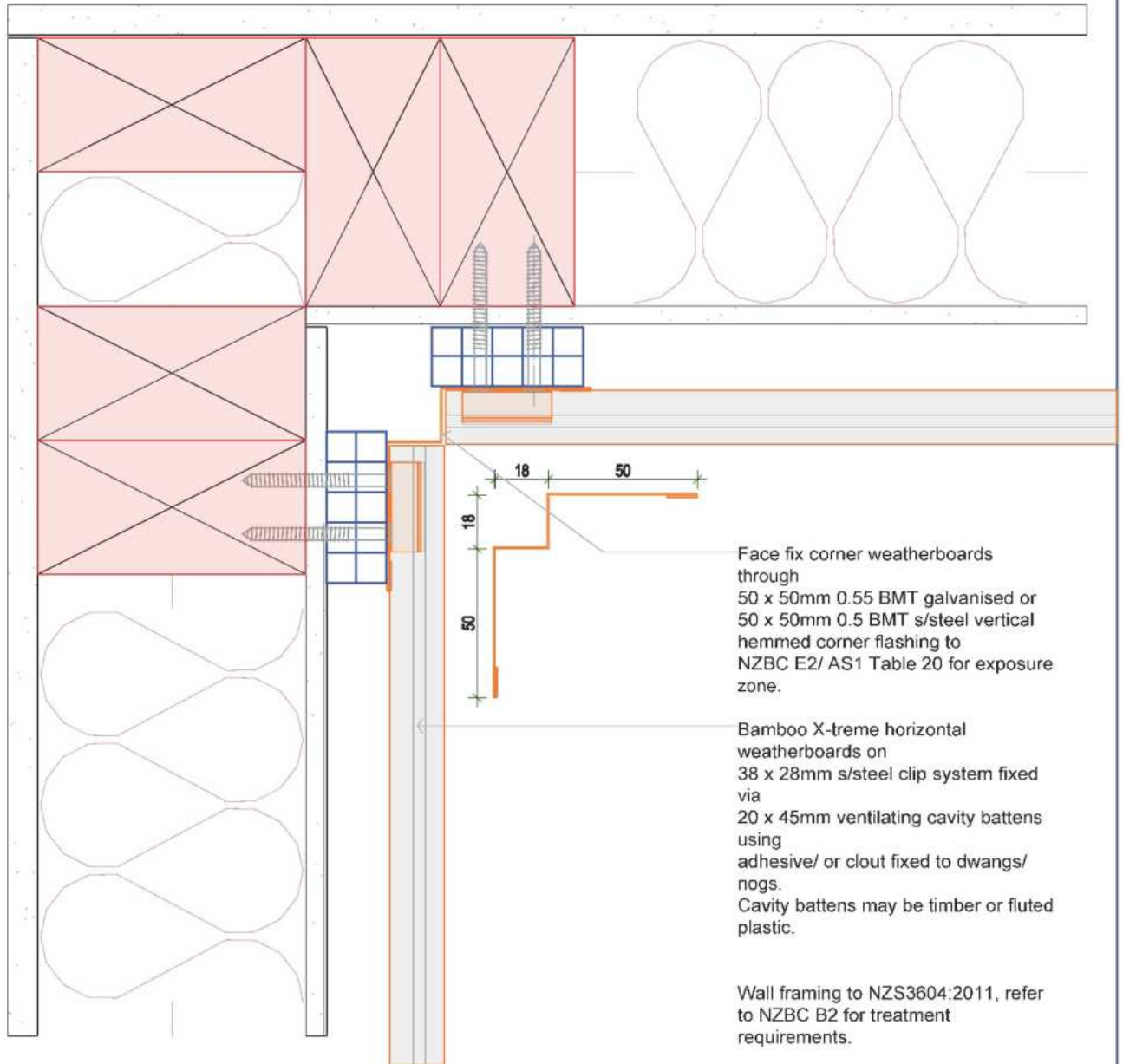
Wall framing to NZS3604:2011, refer to NZBC B2 for treatment requirements.



NOTE
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REVISION
 V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	15H of 21

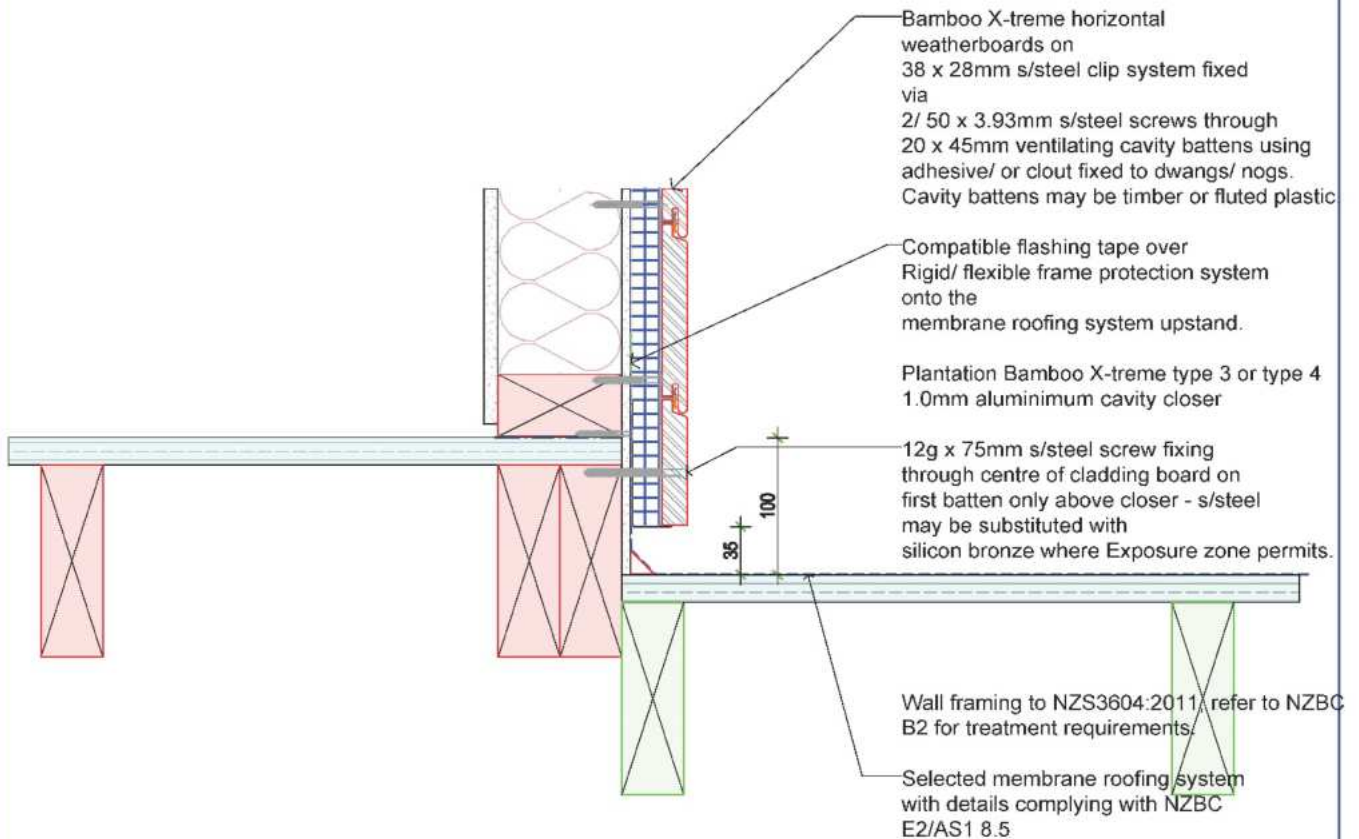
Internal Corner - Internal Stainless Steel Corner Detail


NOTE
 All details to be read alongside the
 Technical Manual.

REVISION
 V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	16H of 21

Cladding Junction to Membrane Roofing Detail

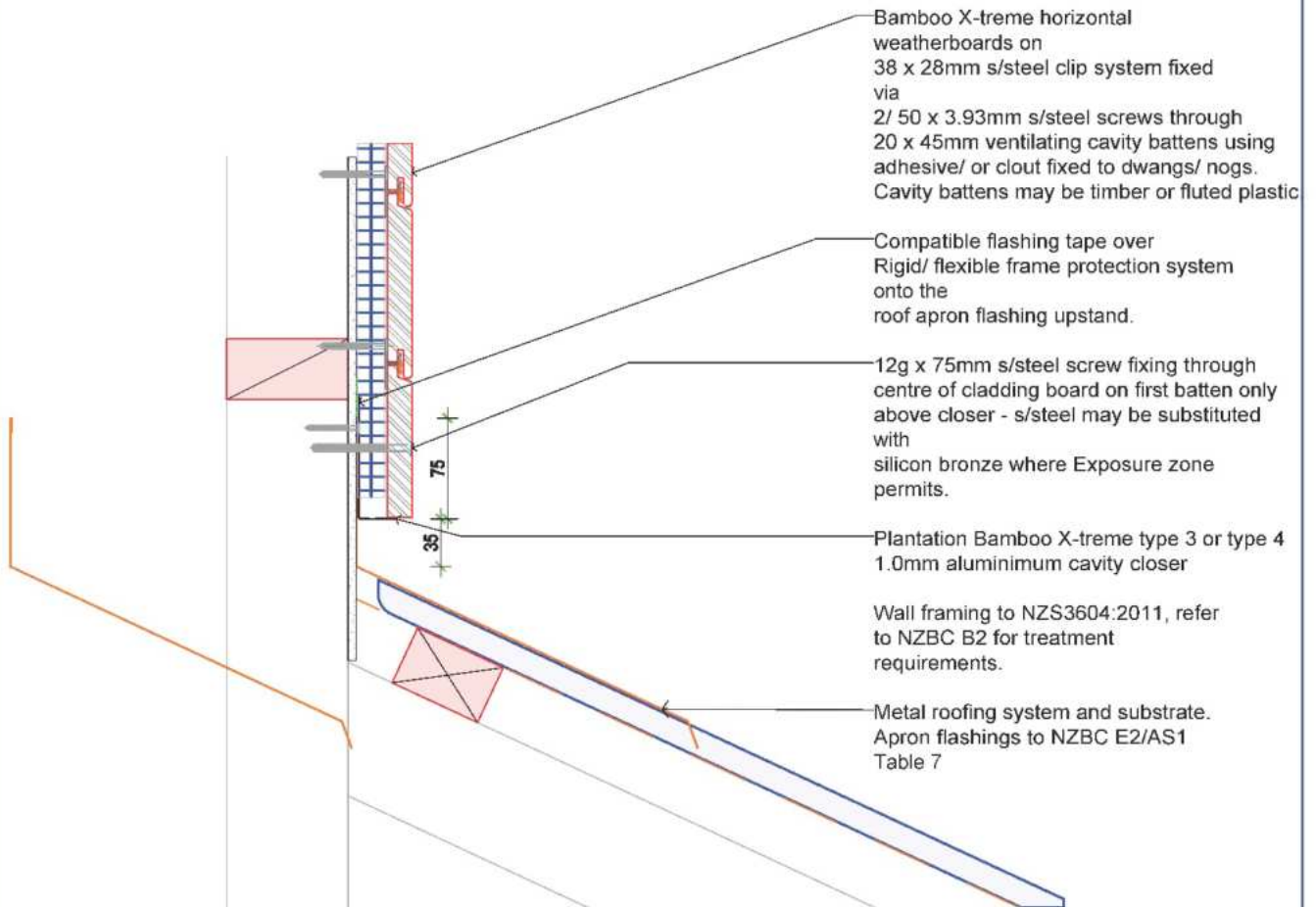


NOTE
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REVISION
V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	17H of 21

Cladding Junction to Metal Roofing Apron Detail

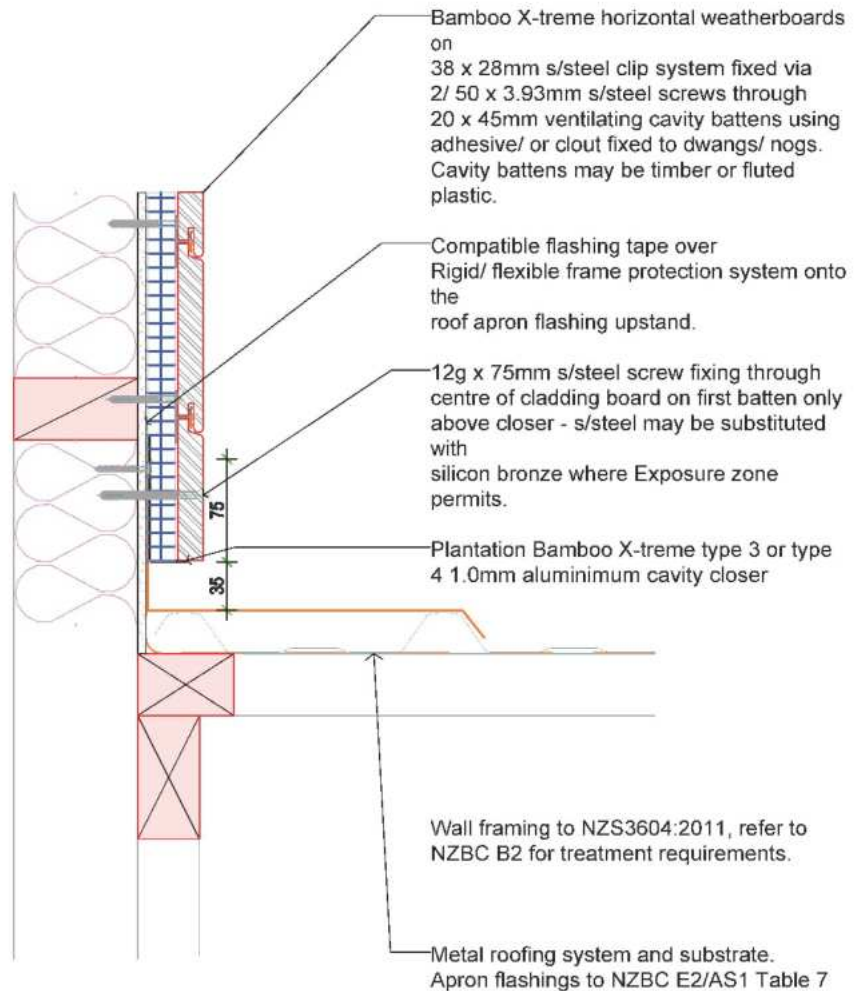


NOTE
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V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	18H of 21

Cladding Junction to Metal Roofing Transverse Apron Detail



NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	19H of 21

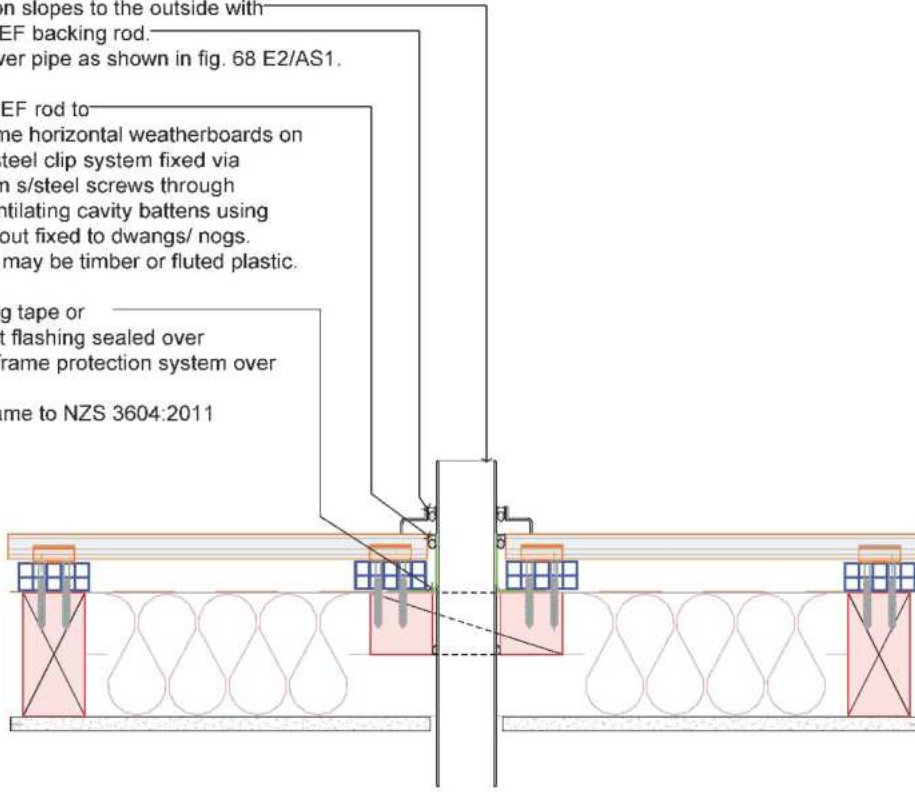
Pipe Penetration External

Pipe penetration slopes to the outside with sealant over PEF backing rod.
Flange plate over pipe as shown in fig. 68 E2/AS1.

Sealant over PEF rod to Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic.

Flexible flashing tape or preformed boot flashing sealed over Rigid/ flexible frame protection system over

Light timber frame to NZS 3604:2011

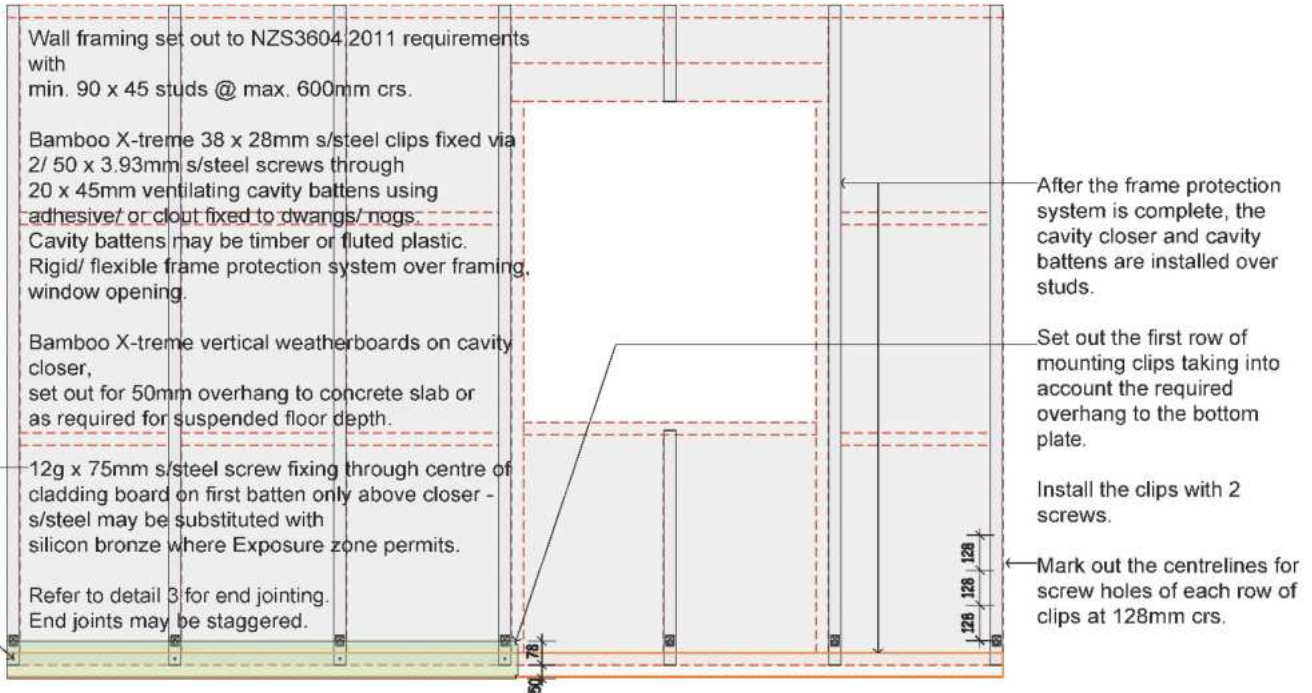


NOTE
All details to be read alongside the Technical Manual.

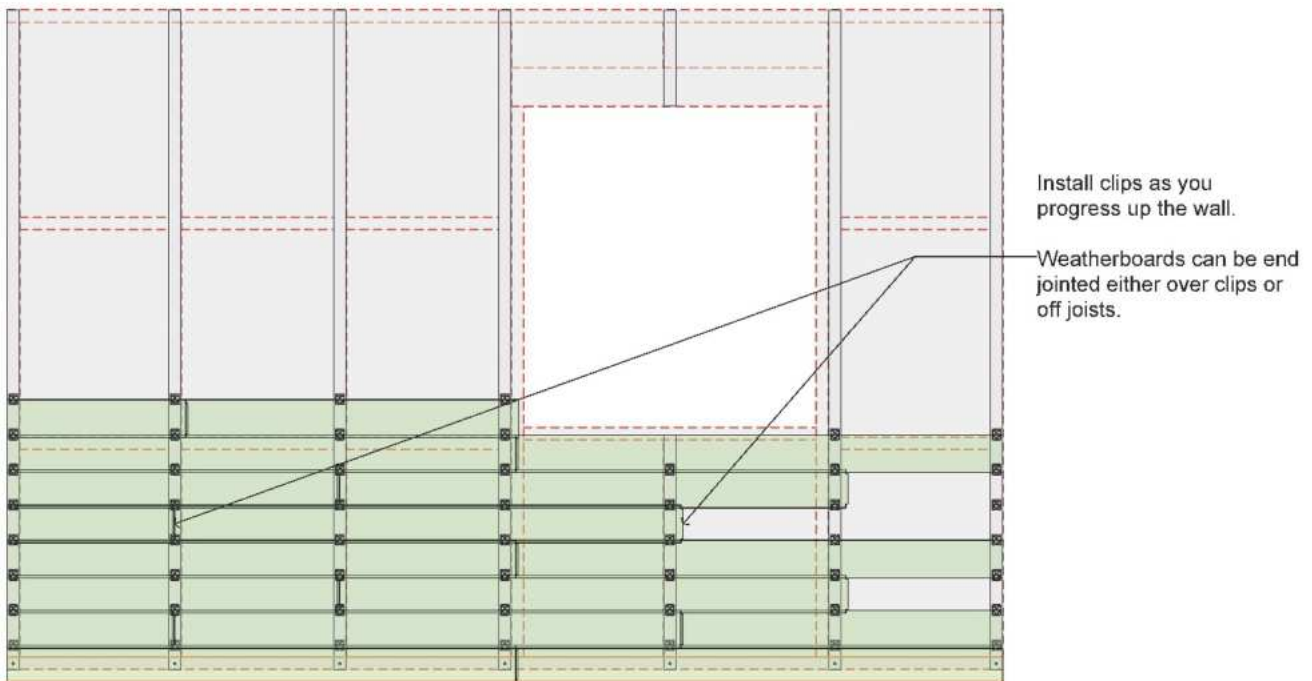
REVISION
V2.0 May 2024 updates

JOB NO:	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	20H OF 21

Assembly Process



1



2

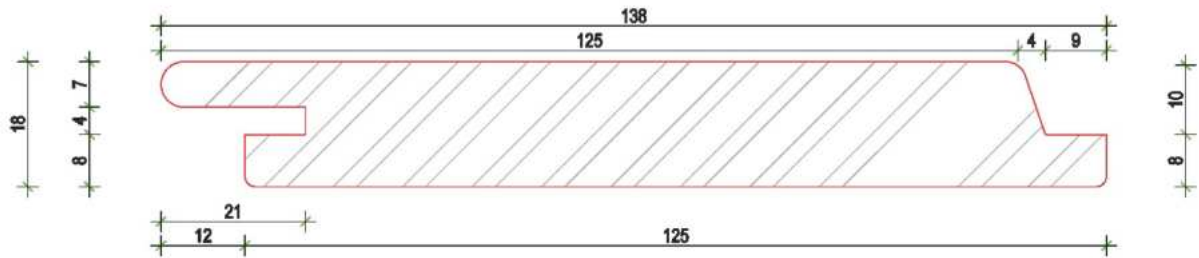


NOTE
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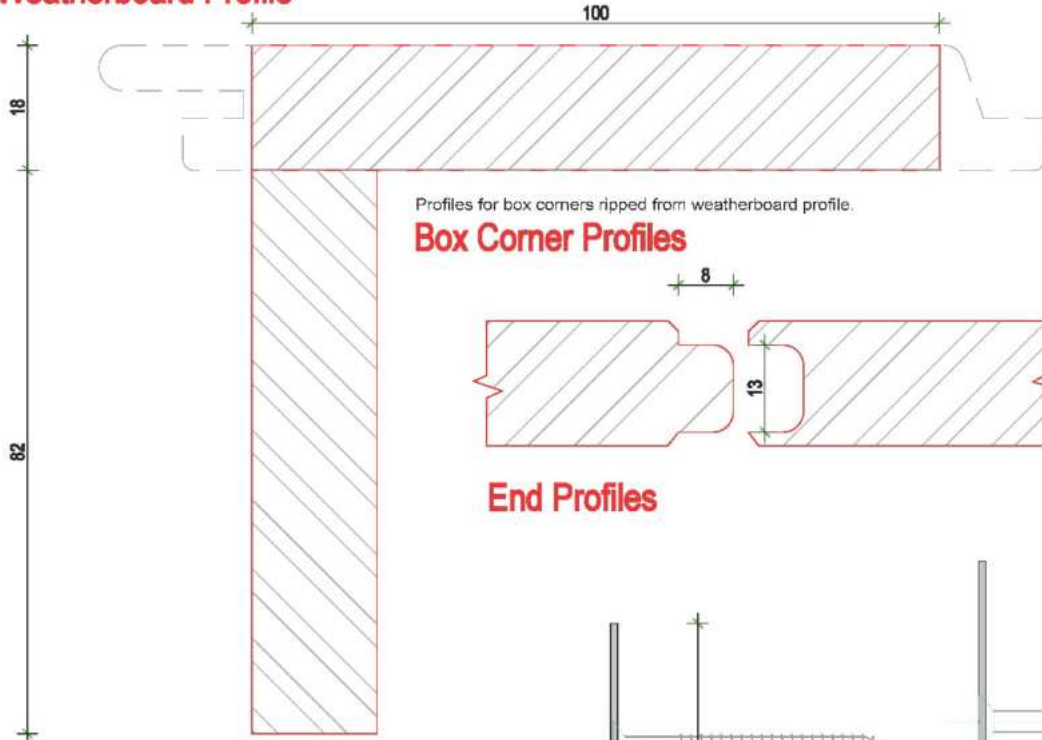
REVISION
V2.0 May 2024 updates

JOB NO.	BTS 2248	DATE:	16/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	21H of 21

System Components

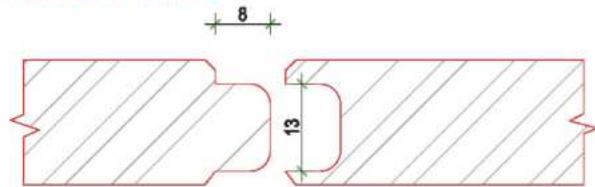


Weatherboard Profile



Profiles for box corners ripped from weatherboard profile.

Box Corner Profiles

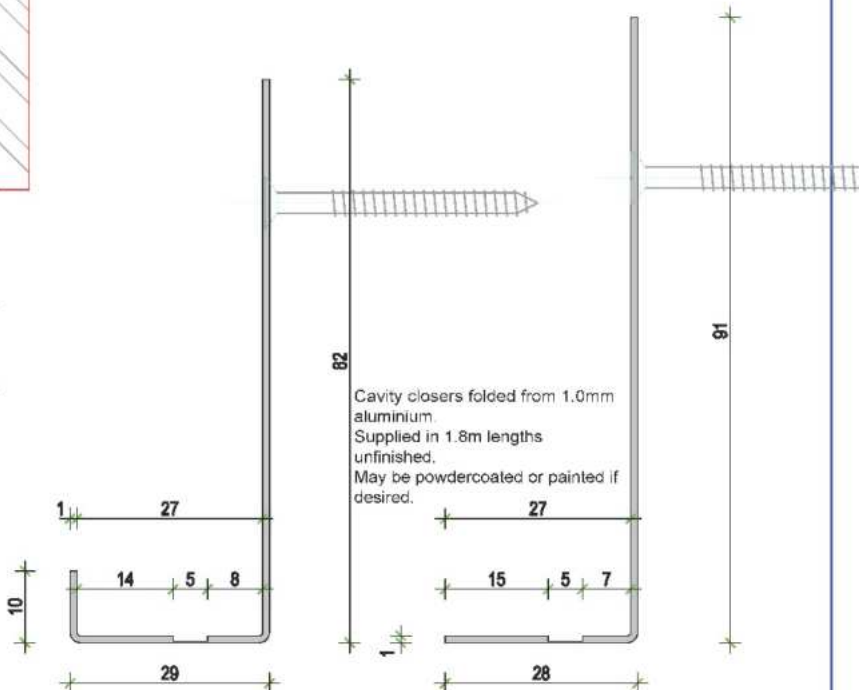


End Profiles



Stainless steel clip with black powdercoating.
2/ 50 x 3.93 mm s/steel screws

X-treme Clip Profile



Cavity closers folded from 1.0mm aluminium.
Supplied in 1.8m lengths unfinished.
May be powdercoated or painted if desired.

X-treme Cavity Closer 3

X-treme Cavity Closer 4



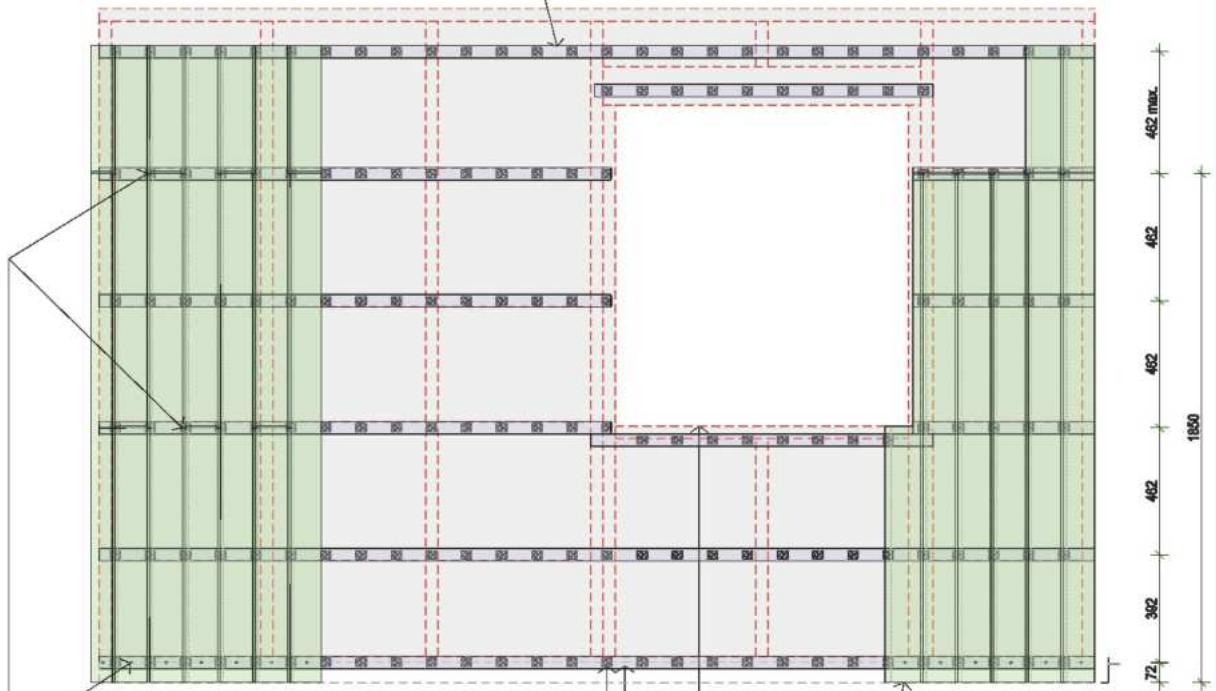
NOTE
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V2.0 Update May 2024

JOB NO:	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:1
CHECKED:	CP	SHEET NO:	1V OF 22

Wall Framing Layout for Vertical Installation

Adjust upper height as required for soffit



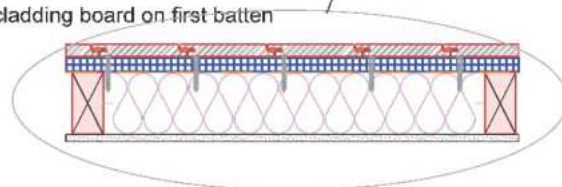
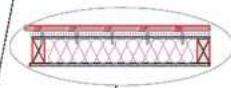
Wall framing set out to NZS3604:2011 requirements with min. 90 x 45 studs @ max. 600mm crs. and nogs/dwangs @ 462mm crs vertically.

Bamboo X-treme 38 x 28mm s/steel clips fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens using adhesive/ or clout fixed to dwangs/ nogs. Cavity battens may be timber or fluted plastic. Rigid/ flexible frame protection system over framing, window opening.

Bamboo X-treme vertical weatherboards on cavity closer, set out for 50mm overhang to concrete slab or as required for suspended floor depth.

12g x 75mm s/steel screw fixing through centre of cladding board on first batten only above closer - s/steel may be substituted with silicon bronze where Exposure zone permits.. Refer to detail 3 for end jointing. End joints may be staggered.

Each full length board must be fixed to min. 4 battens, always install the ends of weatherboards exactly on battens or cavity closer.



Horizontal Section

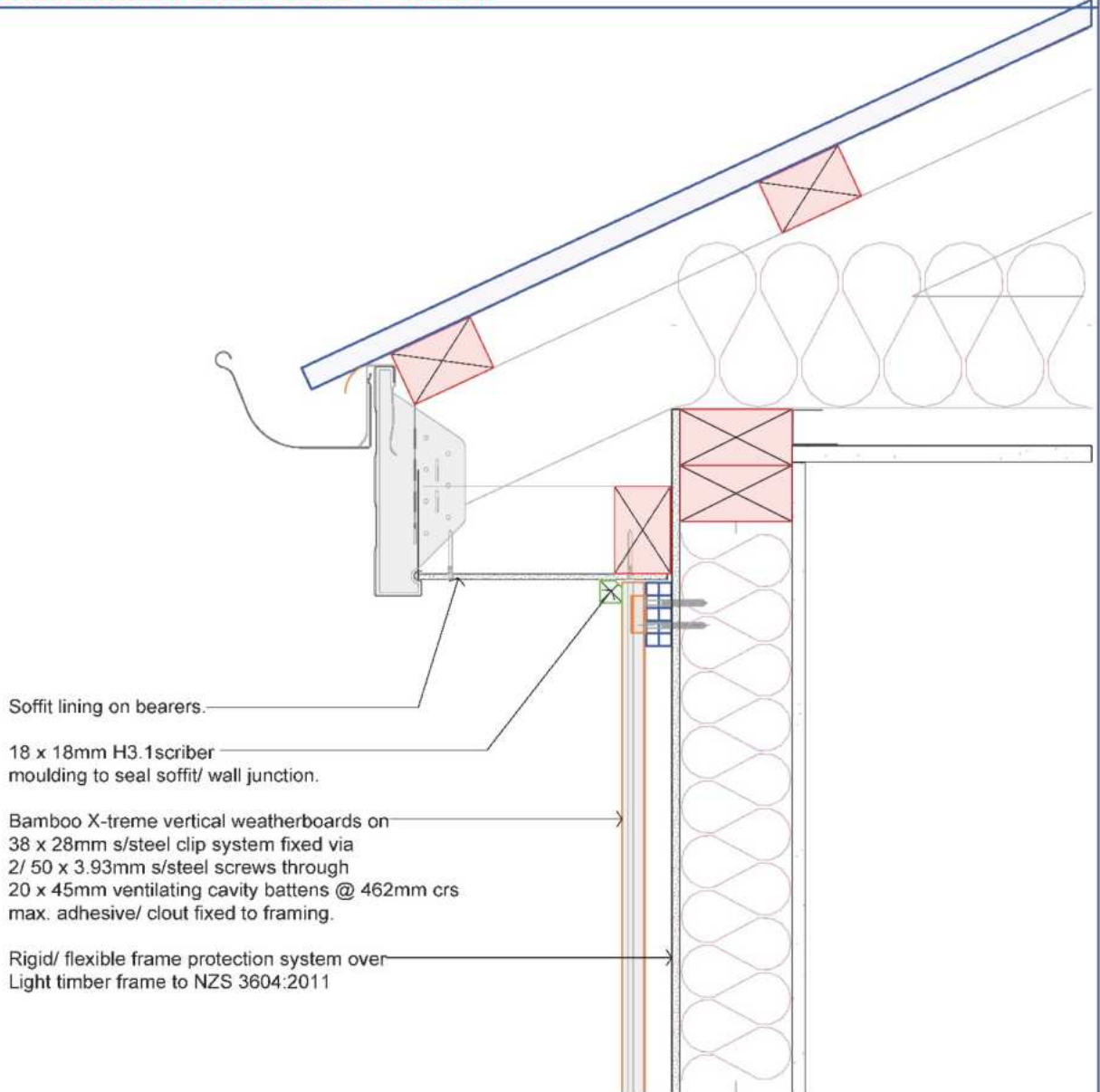


NOTE
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REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:25 1:10
CHECKED:	CP	SHEET NO:	2V OF 22

Weatherboard to Eaves Detail 1 - Scriber



- Soffit lining on bearers.
- 18 x 18mm H3.1 scriber moulding to seal soffit/ wall junction.
- Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing.
- Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011

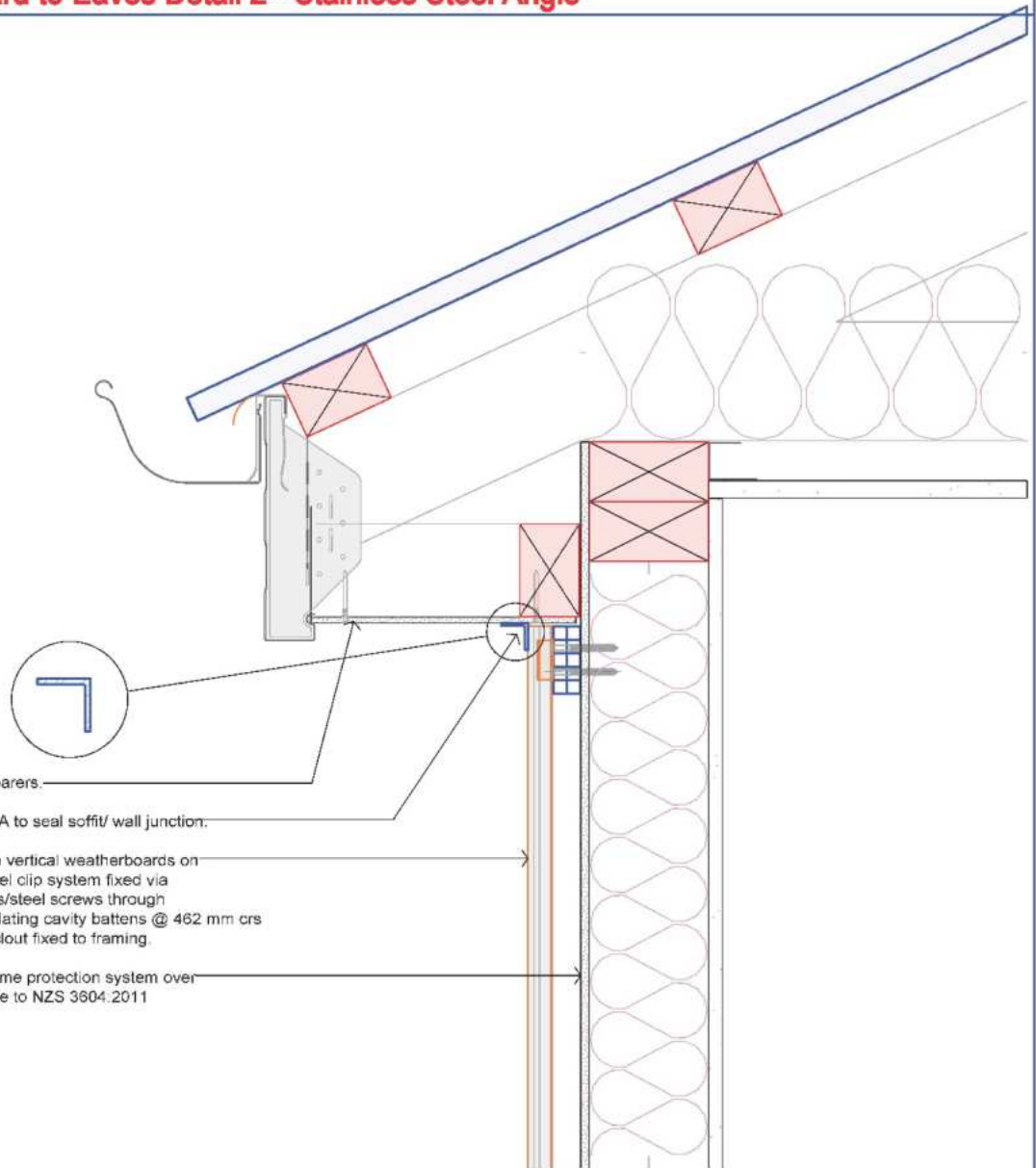


NOTE
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REVISION
V2.0 Update May 2024

JOB NO:	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	3V of 22

Weatherboard to Eaves Detail 2 - Stainless Steel Angle



- Sffit lining on bearers.
- 20 x 20 s/steel EA to seal sffit/ wall junction.
- Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462 mm crs max. adhesive/ clout fixed to framing.
- Rigid/ flexible frame protection system over Light timber frame to NZS 3604.2011

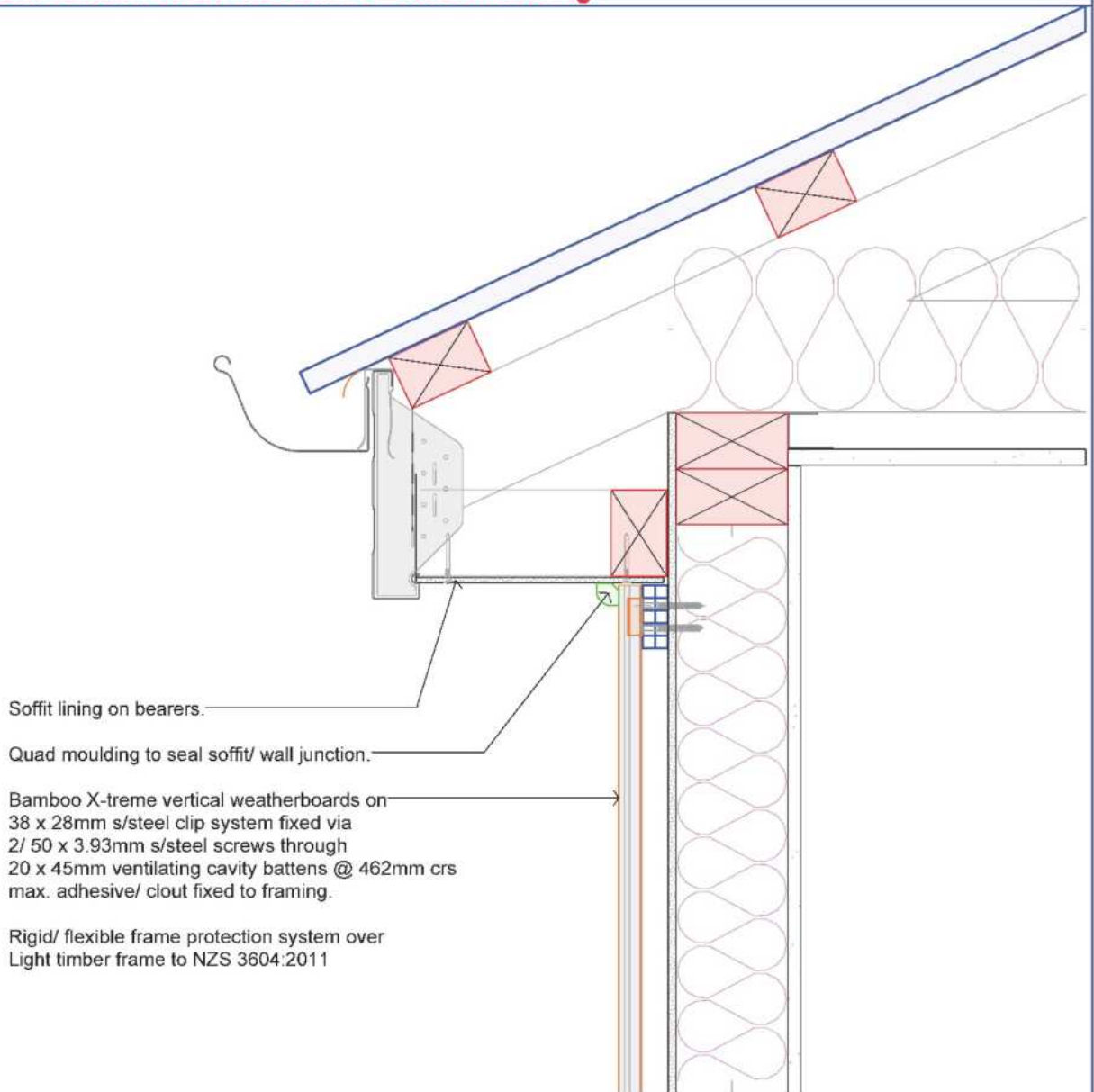


NOTE
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REVISION
V2.0 Update May 2024

JOB NO:	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	4V of 22

Weatherboard to Eaves Detail 3 - Quad Moulding



Soffit lining on bearers.

Quad moulding to seal soffit/ wall junction.

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing.

Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011



NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 Update May 2024

JOB NO:	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	5V of 22

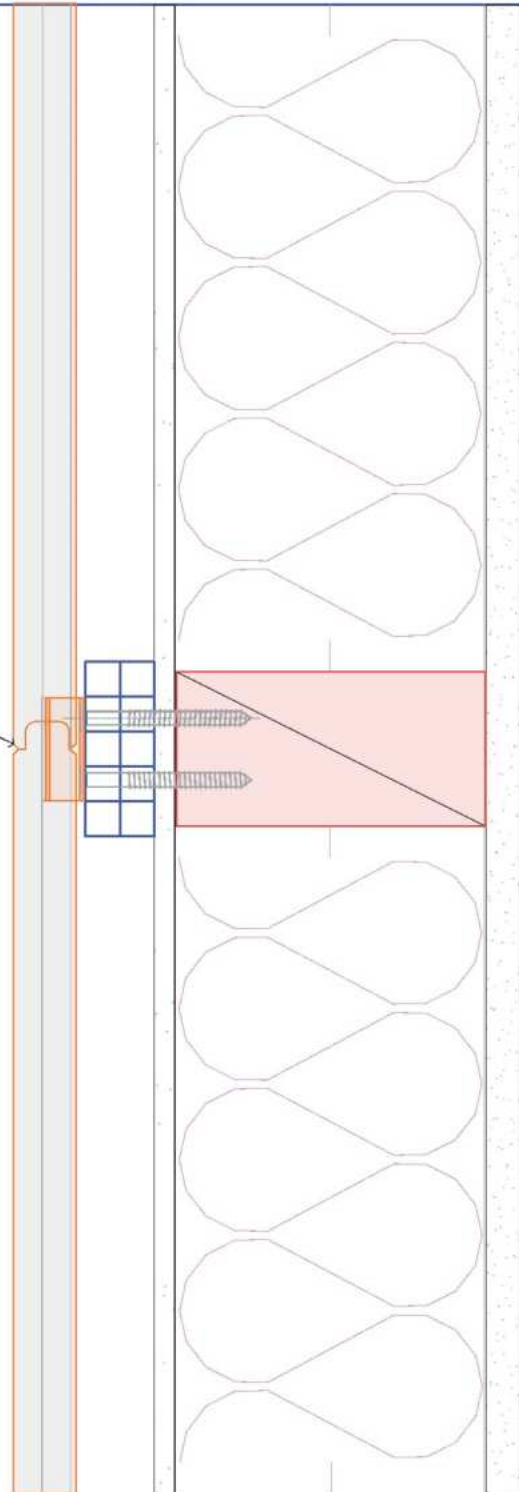
End Lap Joint

End profiles factory rebated

38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing between vertical sections.

Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011

Refer also to Detail A1.2 for the wall framing layout.

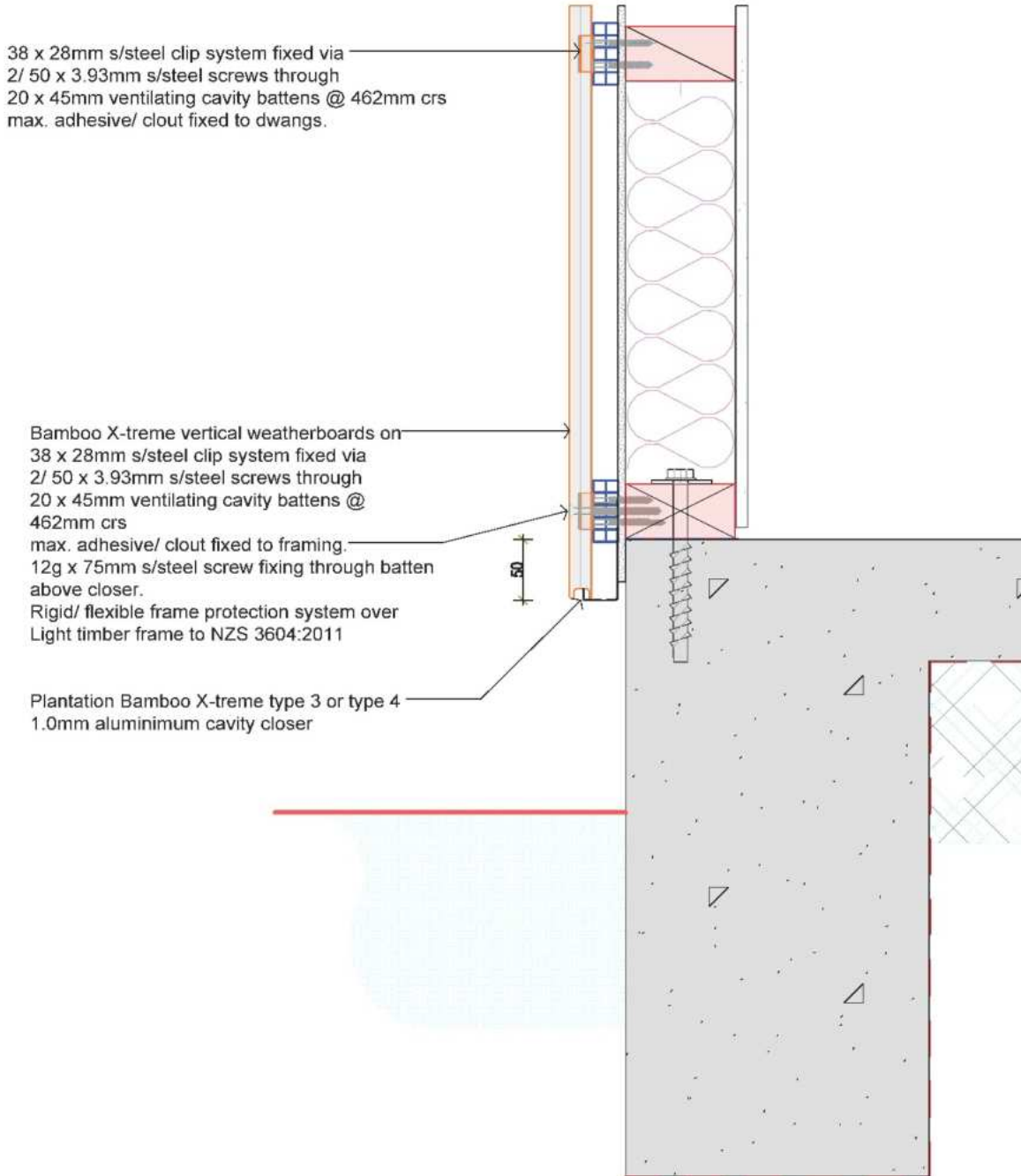


NOTE
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REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	6V of 22

Cladding Base - Concrete Slab



38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to dwangs.

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing. 12g x 75mm s/steel screw fixing through batten above closer. Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011

Plantation Bamboo X-treme type 3 or type 4 1.0mm aluminium cavity closer



NOTE
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REVISION
V2.0 Update May 2024

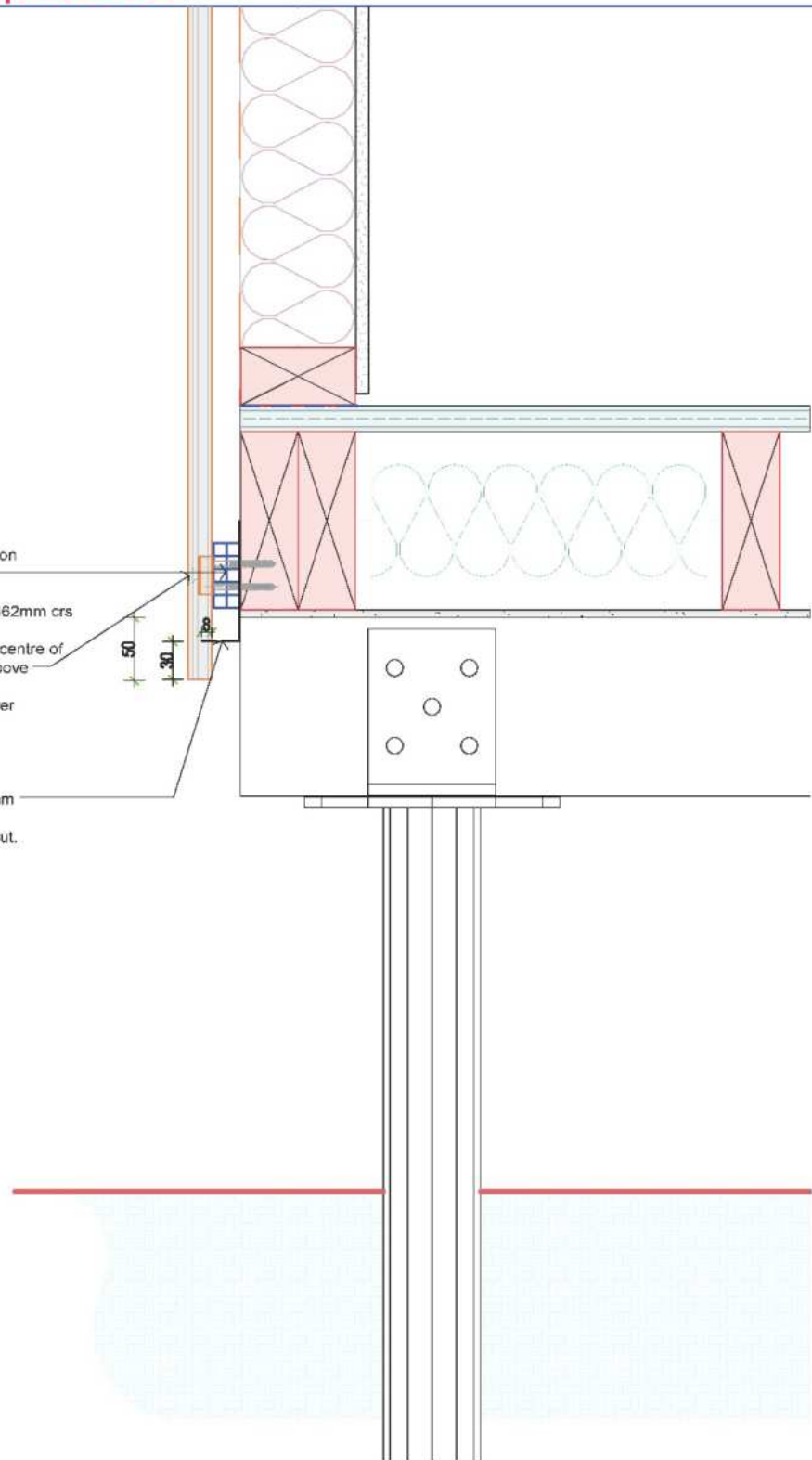
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DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO.:	7V of 22

Cladding Base - Suspended Floor

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing. 12g x 75mm s/steel screw fixing through centre of cladding board through first batten only above closer. Rigid/ flexible frame protection system over Light timber frame to NZS 3604:2011

Plantation Bamboo X-treme type 4 - 1.0mm aluminium cavity closer set into 8mm deep sawcut, apply sealant to sawcut.

50
30

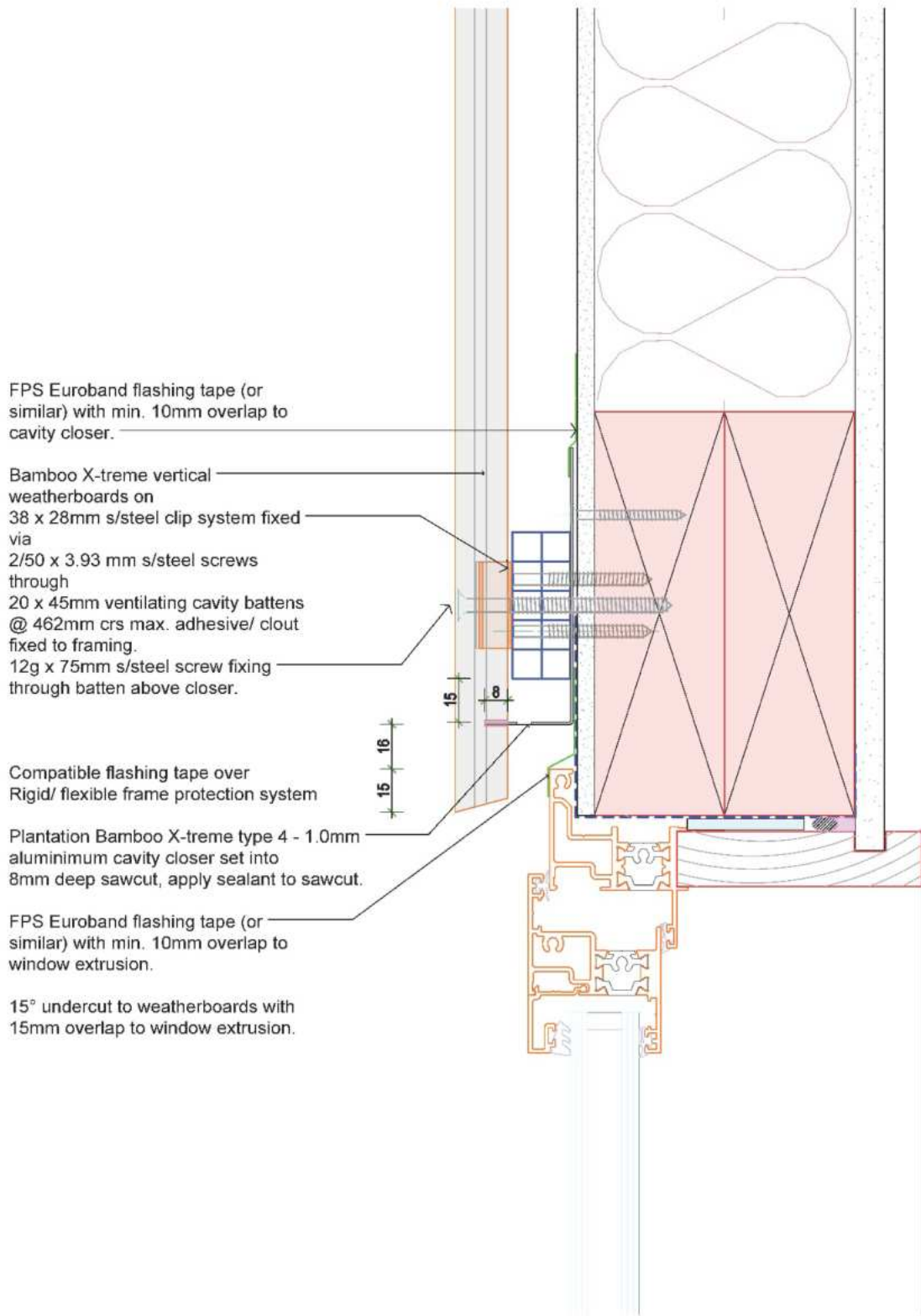


NOTE
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REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO.:	8V of 22

Window Head



FPS Euroband flashing tape (or similar) with min. 10mm overlap to cavity closer.

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/50 x 3.93 mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing. 12g x 75mm s/steel screw fixing through batten above closer.

Compatible flashing tape over Rigid/ flexible frame protection system

Plantation Bamboo X-treme type 4 - 1.0mm aluminium cavity closer set into 8mm deep sawcut, apply sealant to sawcut.

FPS Euroband flashing tape (or similar) with min. 10mm overlap to window extrusion.

15° undercut to weatherboards with 15mm overlap to window extrusion.

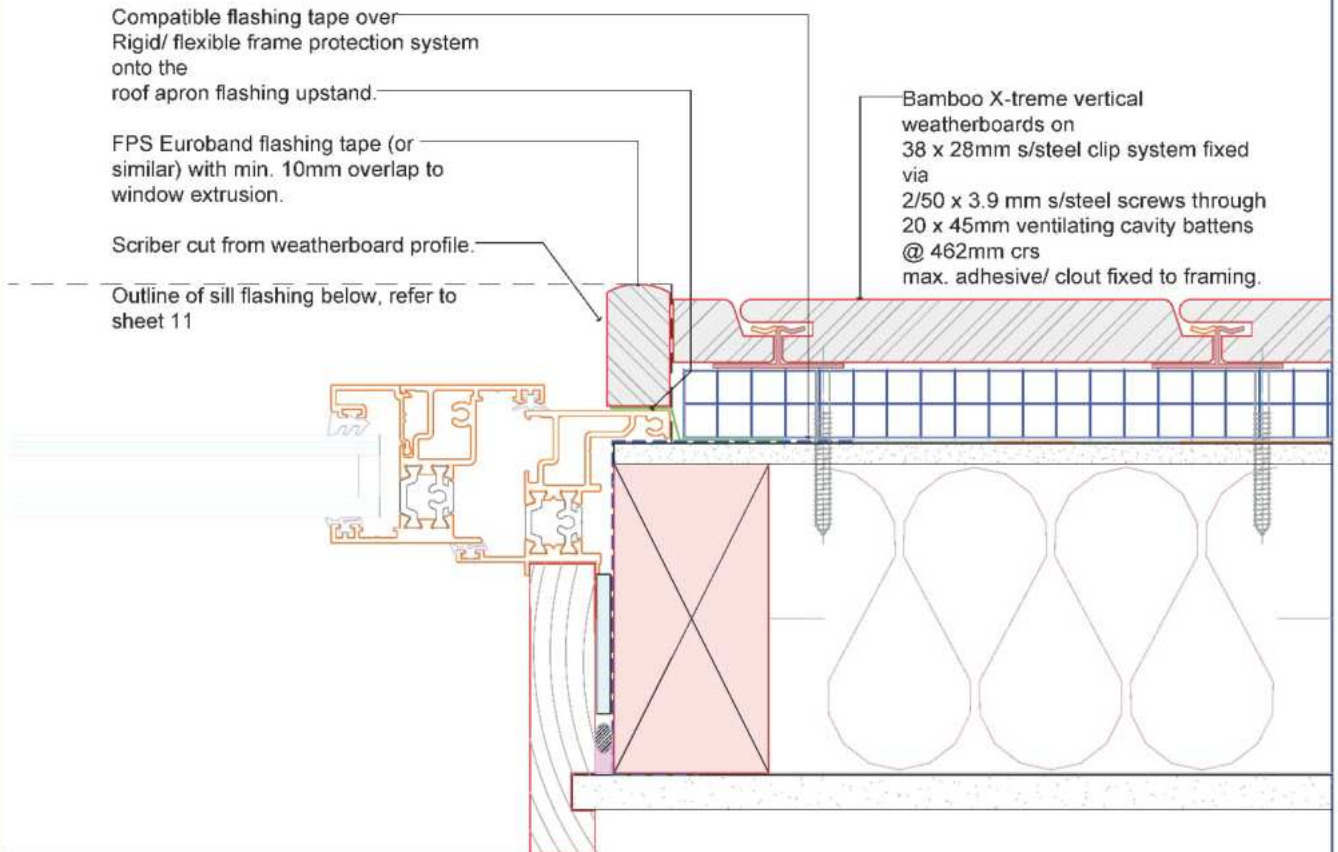


NOTE
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REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	9V of 22

Window Jamb



NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	10V of 22

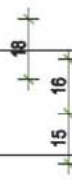
Window Sill

FPS Euroband flashing tape (or similar) with min. 10mm overlap to sill flashing.

1.0mm aluminium sill flashing with upstand at ends.

Compatible flashing tape over Rigid/ flexible frame protection system onto the roof apron flashing upstand.

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/50 x 3.9 mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing.



NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	11V of 22

External Corner - Box Corner

Box corner facings 100mm and 82mm fixed using Gorilla glue premium or similar over pre-drilled 35mm x 3.5 (6g) s/steel 304 screws.

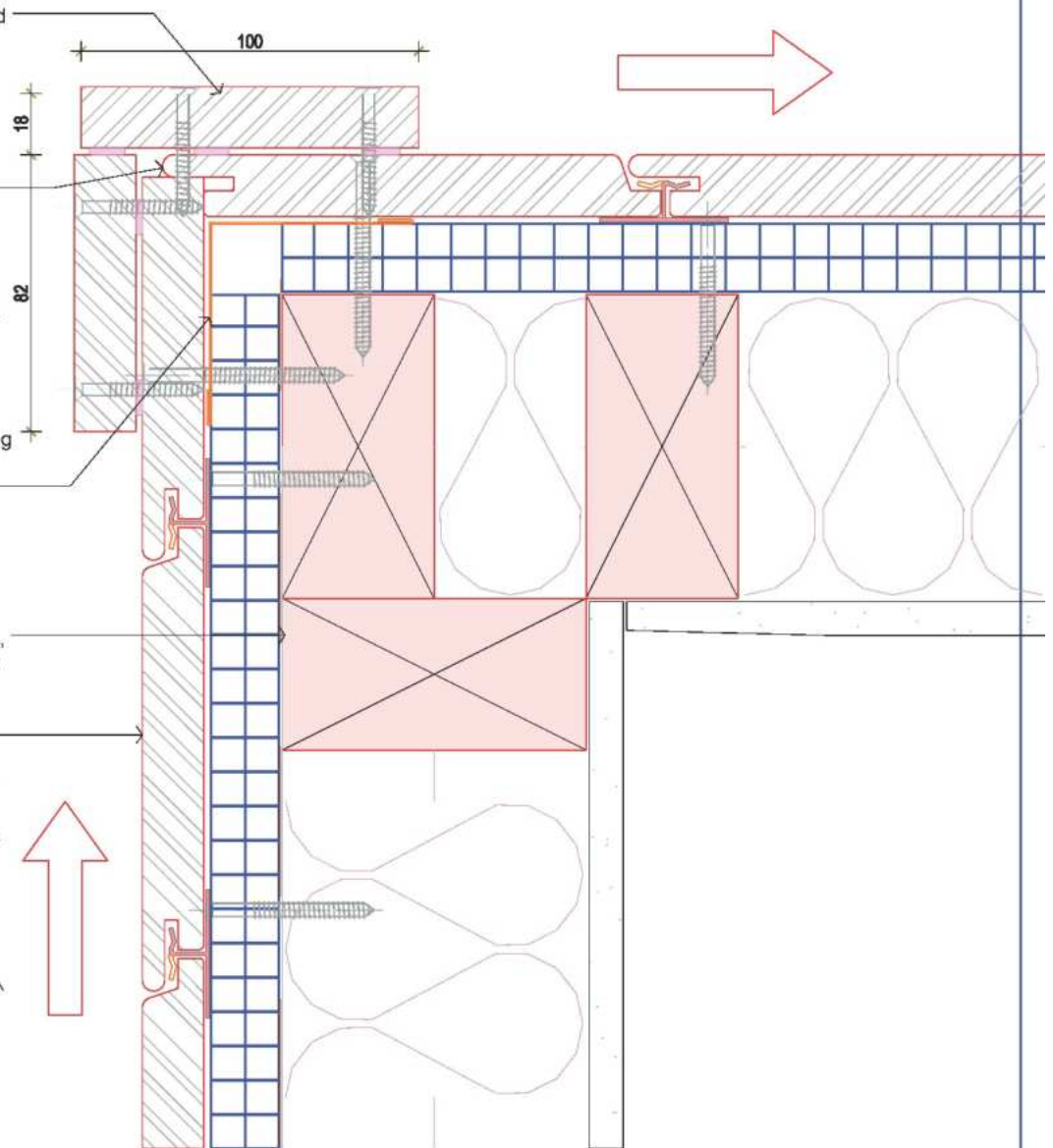
Trim last weatherboard to the back of the tongue line.

Face fix corner weatherboards using 50 x 3.93mm s/steel 304 screws through 50 x 50mm 0.55 BMT galvanised or 50 x 50mm 0.5 BMT s/steel vertical hemmed corner flashing to NZBC E2/ AS1 Table 20 for exposure zone.

Wall framing to NZS3604:2011, refer to NZBC B2 for treatment requirements.

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing.

Direction of installation

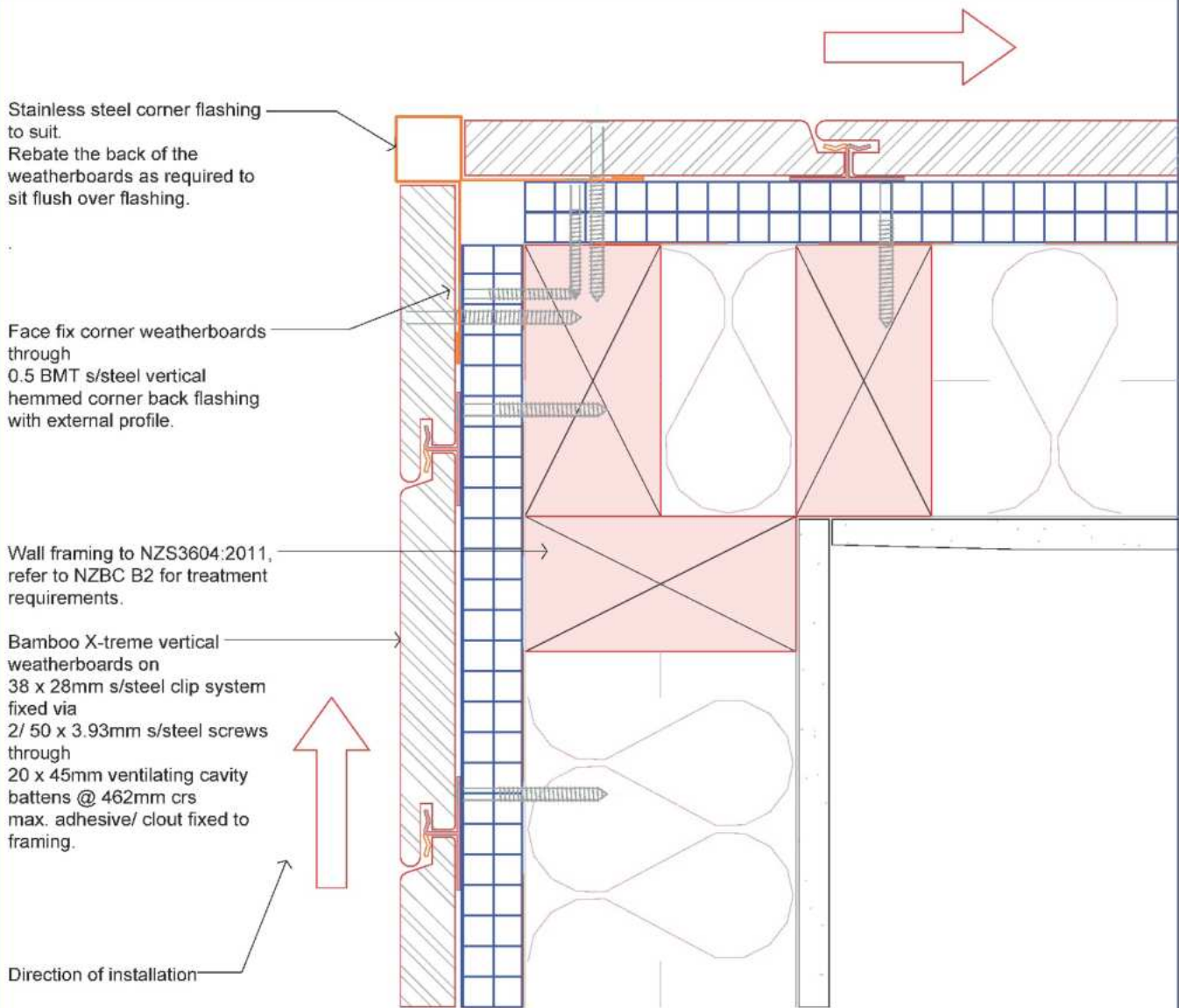


NOTE
All details to be read alongside the Technical Manual.

REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	12V of 22

External Corner - Stainless Steel Corner Detail

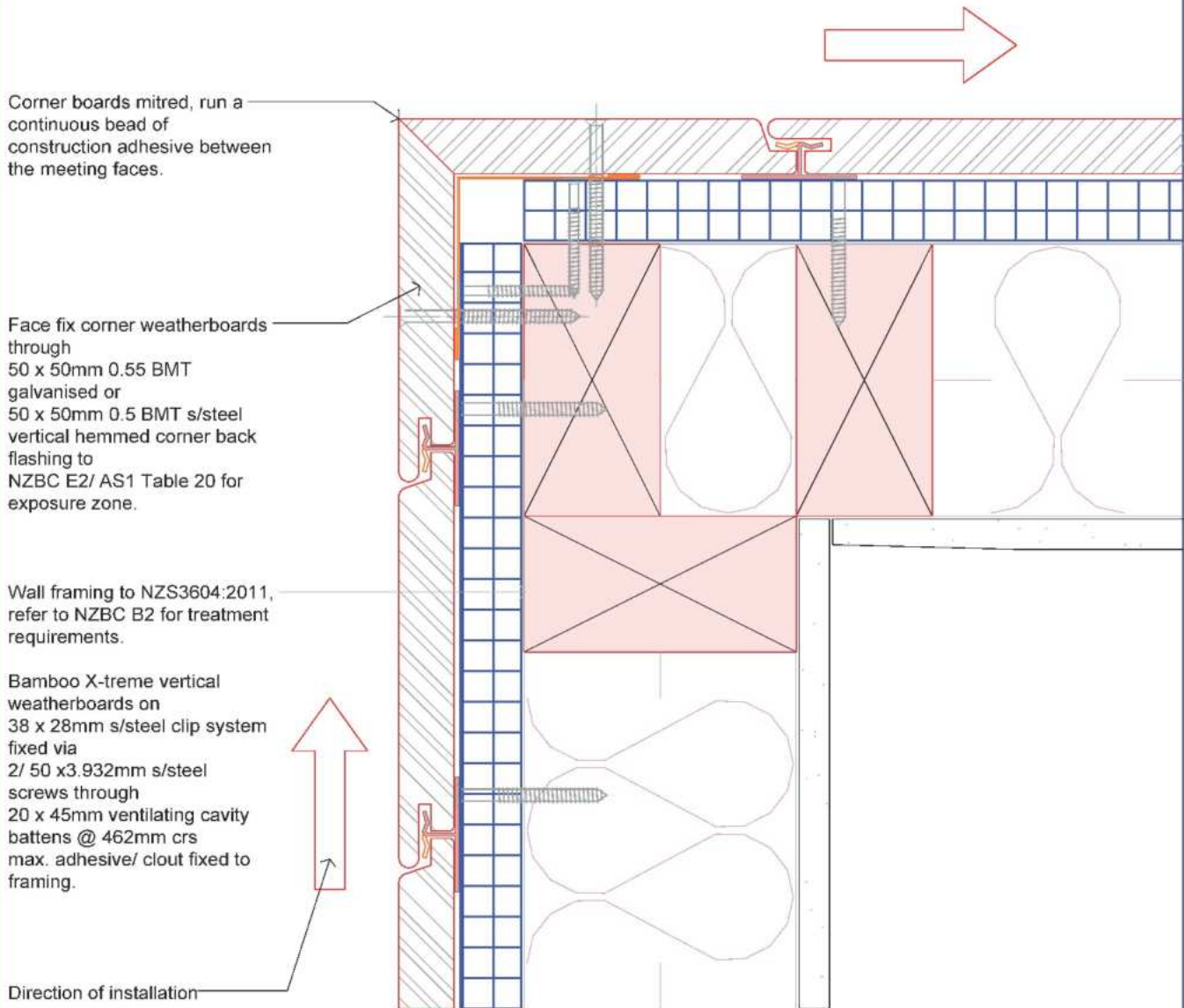


NOTE
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V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	13V of 22

External Corner - Mitred Corner

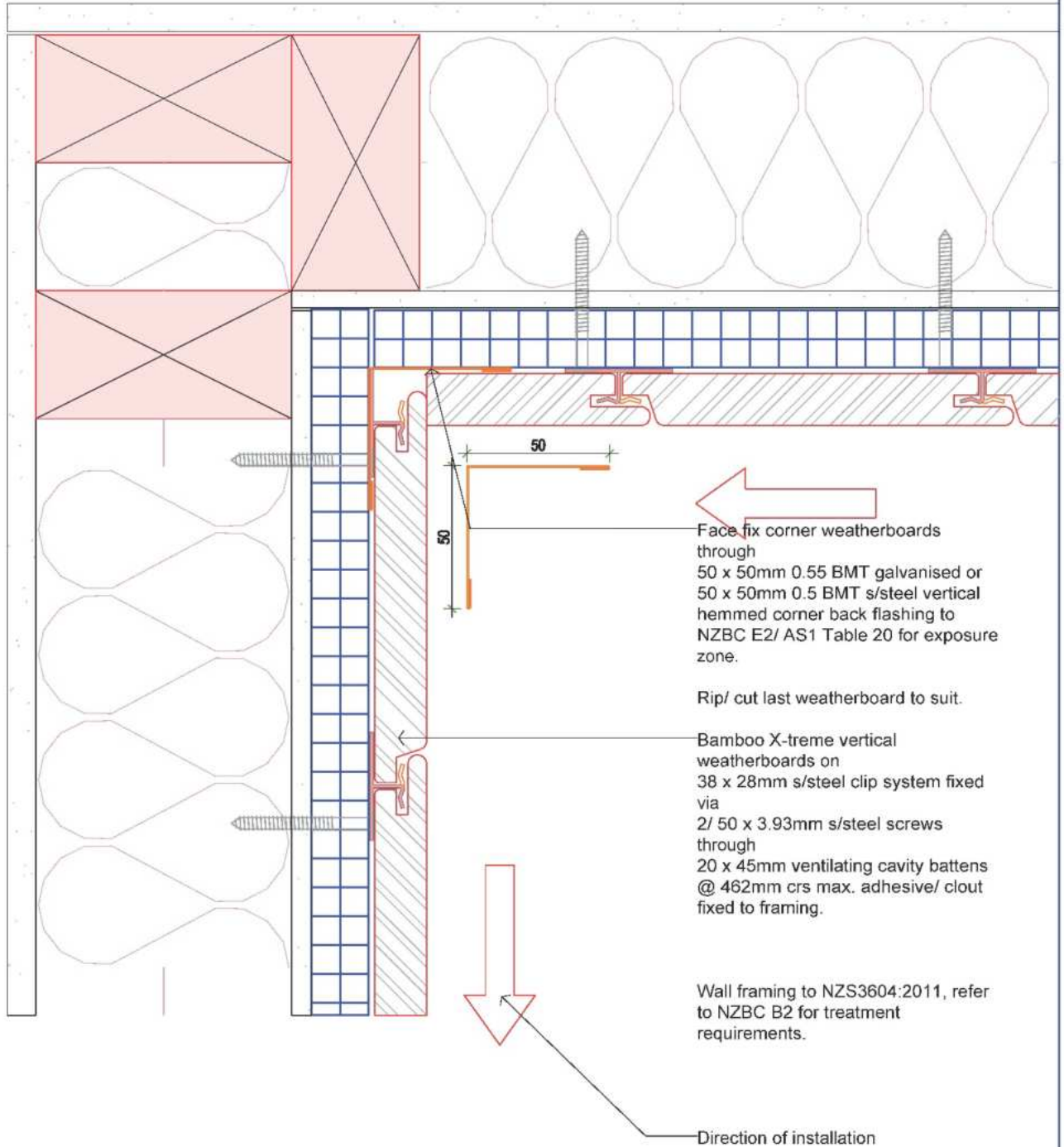


NOTE
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REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	14V of 22

Internal Corner - Timber Butt Joint

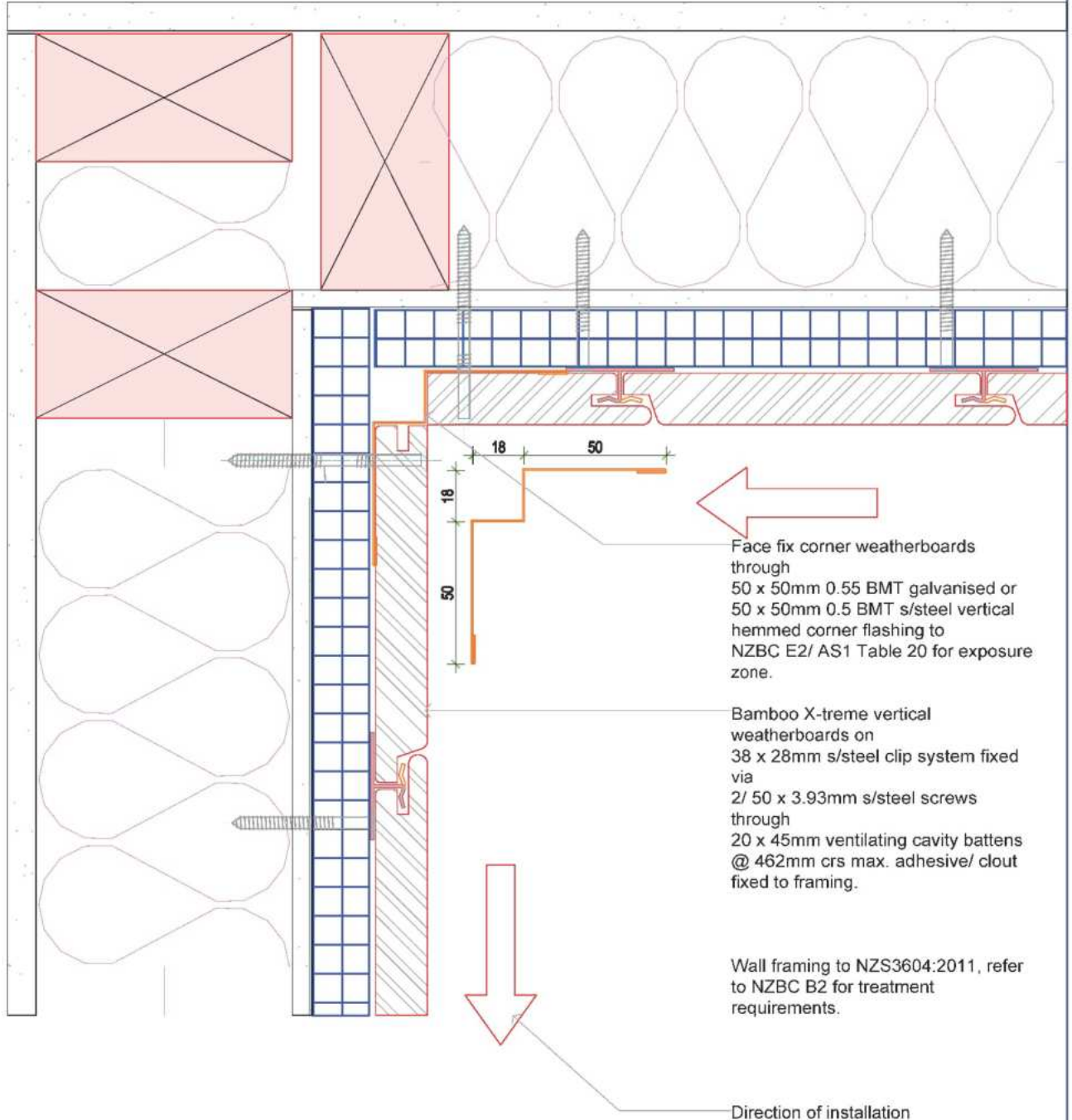


NOTE
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REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	15V of 22

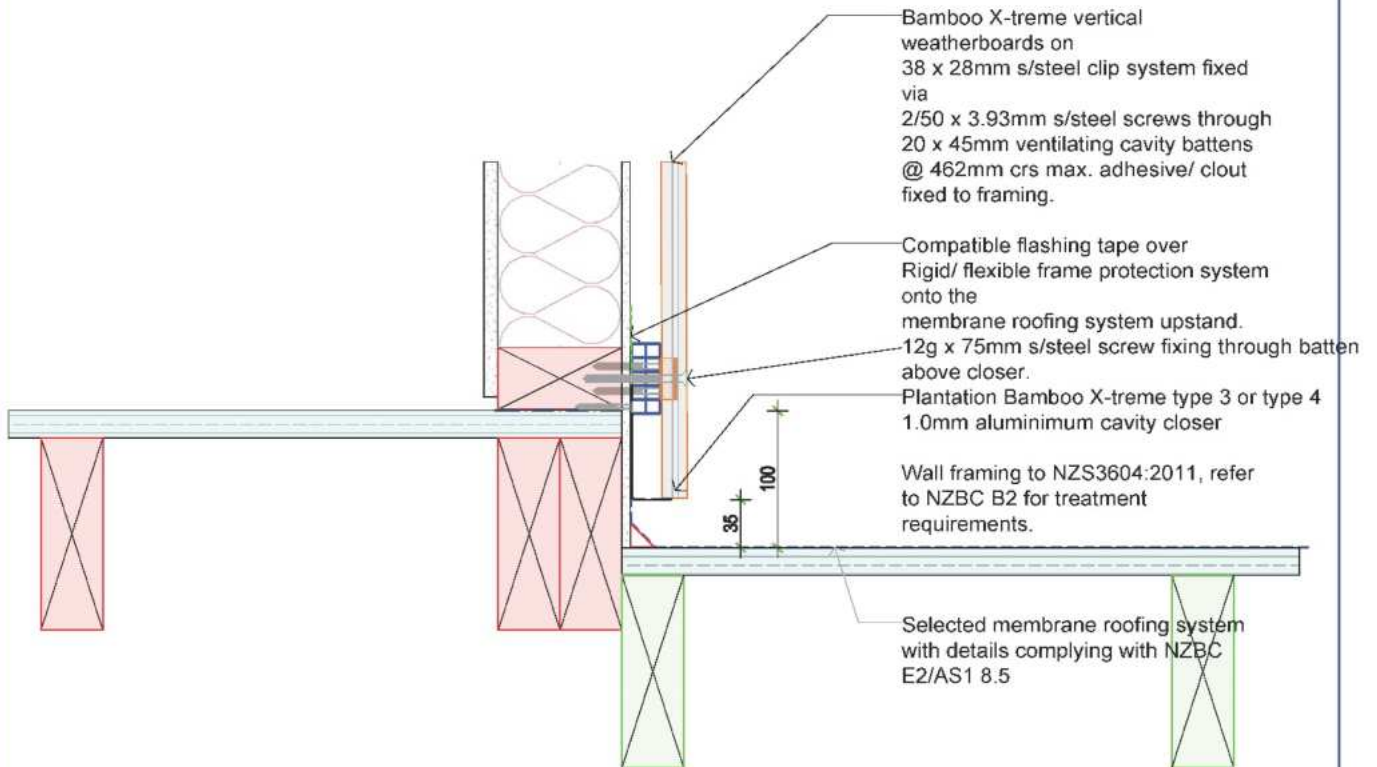
Internal Corner - Internal Stainless Steel Corner Detail



NOTE
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REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:2
CHECKED:	CP	SHEET NO:	16V of 22

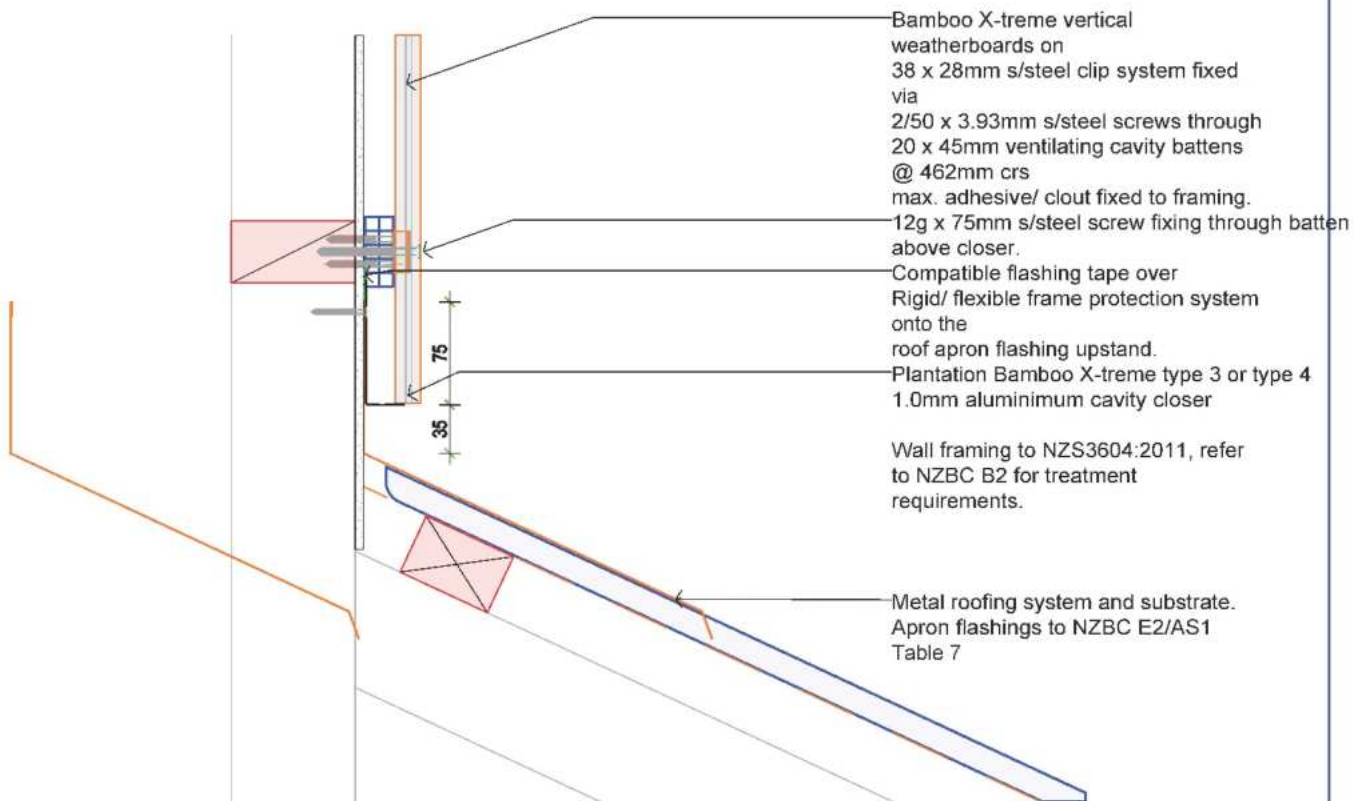
Cladding Junction to Membrane Roofing Detail


NOTE
All details to be read alongside the Technical Manual.

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V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	17V of 22

Cladding Junction to Metal Roofing Apron Detail



Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing.

12g x 75mm s/steel screw fixing through batten above closer.

Compatible flashing tape over Rigid/ flexible frame protection system onto the roof apron flashing upstand.

Plantation Bamboo X-treme type 3 or type 4 1.0mm aluminium cavity closer

Wall framing to NZS3604:2011, refer to NZBC B2 for treatment requirements.

Metal roofing system and substrate. Apron flashings to NZBC E2/AS1 Table 7

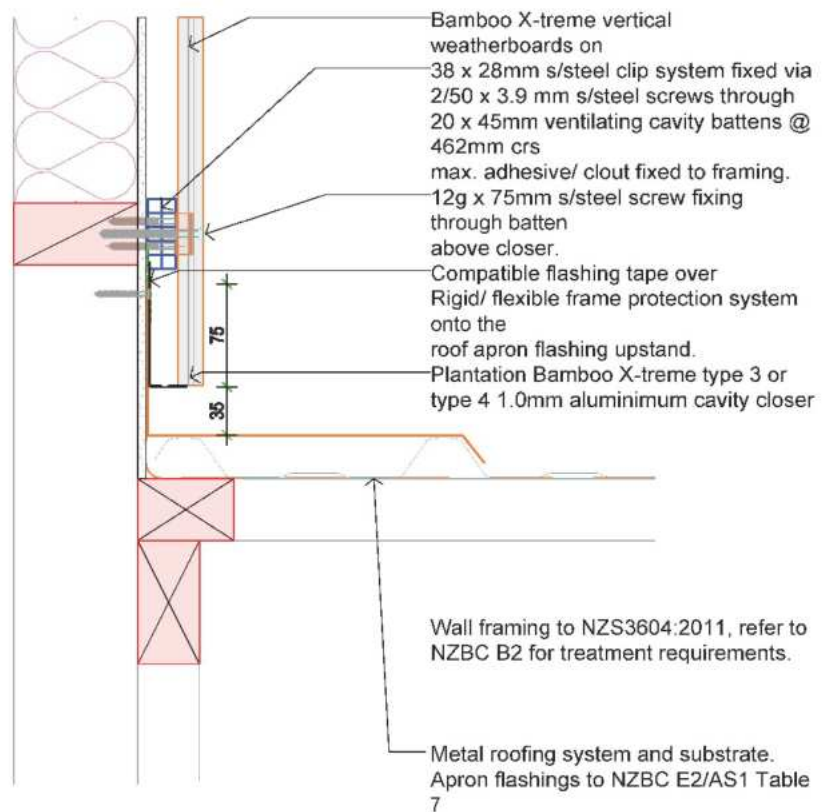


NOTE
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V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	18V of 22

Cladding Junction to Metal Roofing Transverse Apron Detail



NOTE
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 Technical Manual.

REVISION
 V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	19V of 22

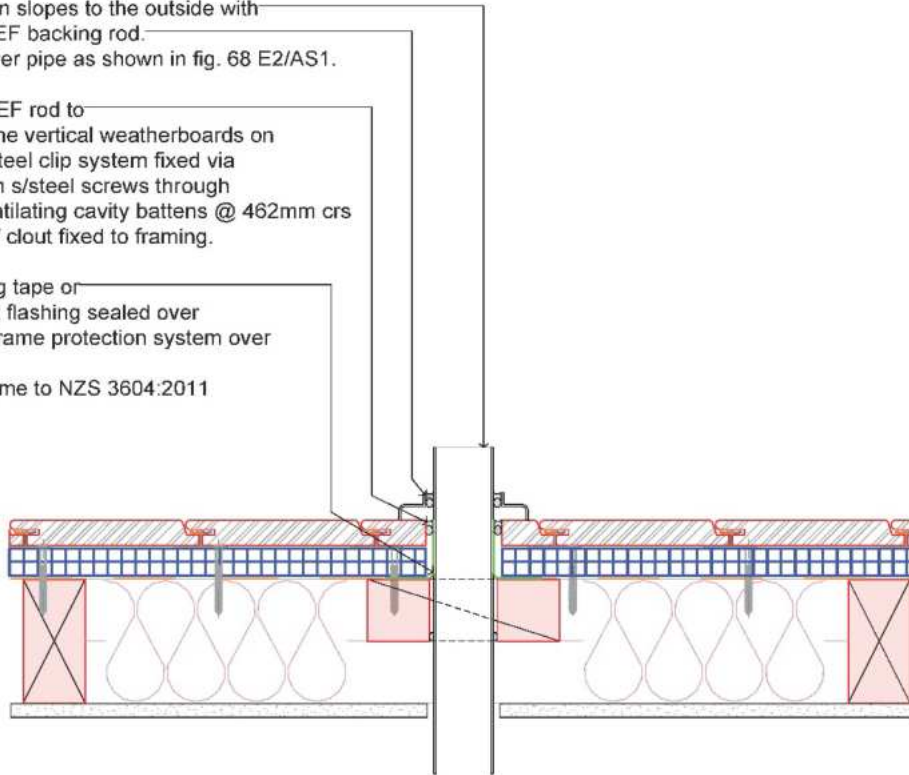
Pipe Penetration External

Pipe penetration slopes to the outside with sealant over PEF backing rod.
 Flange plate over pipe as shown in fig. 68 E2/AS1.

Sealant over PEF rod to Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm ventilating cavity battens @ 462mm crs max. adhesive/ clout fixed to framing.

Flexible flashing tape or preformed boot flashing sealed over Rigid/ flexible frame protection system over

Light timber frame to NZS 3604:2011

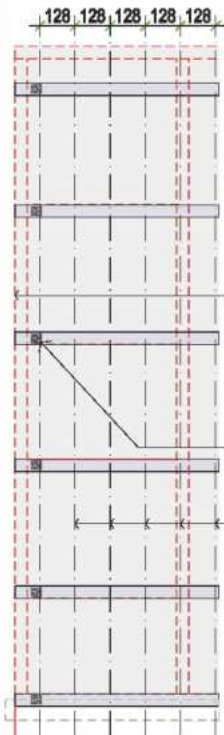


NOTE
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 V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	20V of 22

Assembly Process 1



After the frame protection system is in place, the cavity closer and cavity battens are installed over nogs/ dwangs-

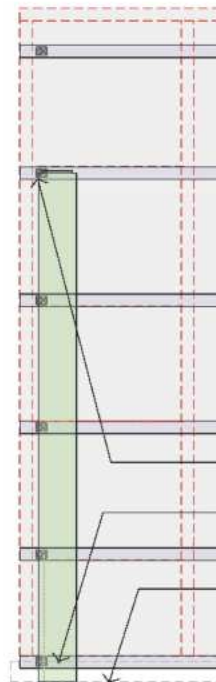
Set out the first row of mounting clips taking into account the corner detail to be used.

Hint - mock up the corner boards and corner flashing in place to work out the correct distance back from the corner for the first line of clips.

Install the clips with 2 screws in the outer holes.

Mark out the centrelines for screw holes of each row of clips at 128mm crs.

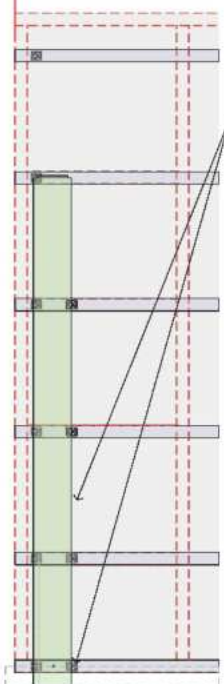
1



Insert the first board into the clip and resting on the cavity closer.
Secure the base of each board using 1 x 12g x 75mm s/steel screw fixing through the batten above the closer.

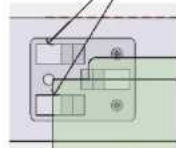
The corner board and flashing can be installed after the wall has been completed.

2



Secure the board in place sliding the clip under the board and fixing using 2 screws into the exposed holes.

Note how the clips support both of the upper and lower boards.



3



Place the upper board over the lower one ensuring that the upper board rebate is fully seated onto the lower board tongue.

4

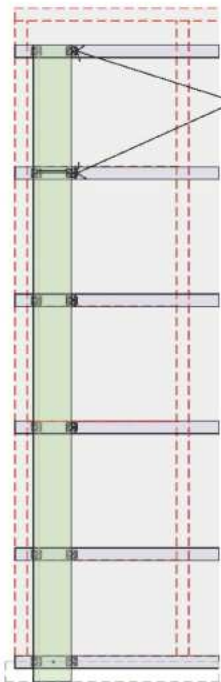


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REVISION
V2.0 Update May 2024

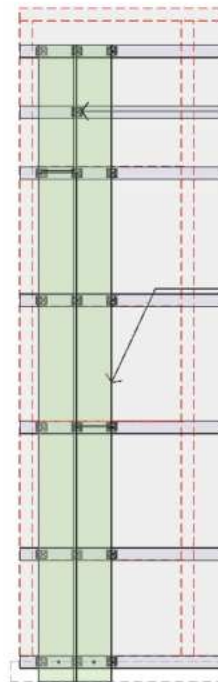
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DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:5
CHECKED:	CP	SHEET NO:	21 V of 22

Assembly Process 2



Install the clips to the upper board.

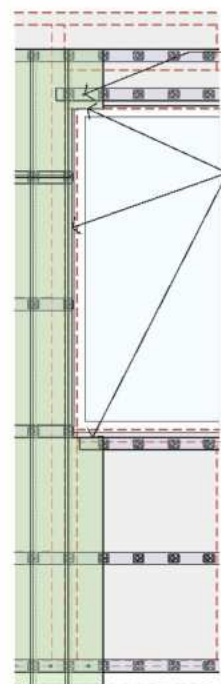
5



All boards must be supported by min. 3 battens. For short lengths an additional intermediate batten will be required, however clips on intermediate battens are only required on the short boards.

Continue fixing weatherboards and clips as previously. Board end joints may be staggered or aligned.

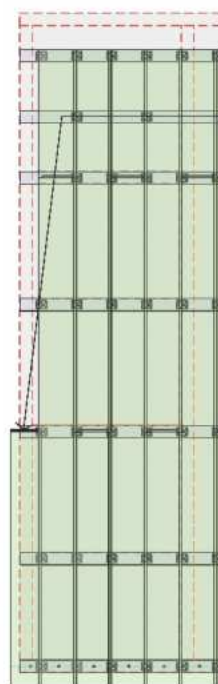
6



Secure the base of each board using 1 x 12g x 75mm s/steel screw fixing through the batten above the closer.

Trim boards as required around openings and fit over installed and taped external joinery using flashings and scribes as detailed on sheets V9, V10, V11.

7



External corner boards can be installed after the wall is complete. This can be useful on external corners where the last board on the previous wall can be trimmed to size, and for mitred corners.

Fix over packers where required to match the depth of the clips to keep the boards flush.

8



NOTE
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REVISION
V2.0 Update May 2024

JOB NO.	BTS 2248	DATE:	9/05/2024
DESIGN:	DB	PAGE SIZE:	ORIGINAL SHEET SIZE A4
DRAWN:	DB	SCALE:	1:25
CHECKED:	CP	SHEET NO:	22V of 22