

Plantation Bamboo X-treme Cladding System with hidden fixing system

TECHNICAL MANUAL WITH DRAWINGS



Photo credit Lior Teitler

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Version control

Date	Version No	Reason	Author
6 January 2023	1.0	Initial draft for client approval	CP
10 January 2023	1.0a	With comments from Steve	SR+CP
2 March 2023	1.2	Added drawings plus new window details	CP
17 March 2023	1.2a	Added horizontal drawings with new details	CP
1 June 2023	1.3	Added 20mm cavity drawings and wording changes	SR+CP
21 June 2023	1.4	Added 20mm set of drawings	DB+CP

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	- Cavibat 10mm or 20mm x 45mm wide fluted (draining) 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 scribes 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
Cavity closers (supplied by Plantation Bamboo)	- Option 1 – (19mm) for horizontal weatherboards (for 10mm cavity) - Option 2 – (18mm) for either horizontal or vertical weatherboards (for 10mm cavity) - Option 3 – (29mm) for horizontal weatherboards (for 20mm cavity) - Option 4 – (28mm) for either horizontal or vertical weatherboards (for 20mm cavity)

5. MAINTENANCE & WARRANTY

The Bamboo X-treme Cladding System shall be:

- regularly cleaned and inspected
- where a protective coating or stain 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 15 years (from date of completion). Failure to correctly maintain the system may void any warranties offered with the system.

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 centers 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

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

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. An appropriate cavity closer type (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. (Refer to drawing 7H or 7V 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.

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 colouring stain or 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

Ensure only the approved 10mm or 20mm fluted (x 45mm wide) cavity battens will be installed, if not already.

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?
- ☐ Have the specified 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** Expiry date: **31 Mar 2024**

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 #:1.2
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 _____

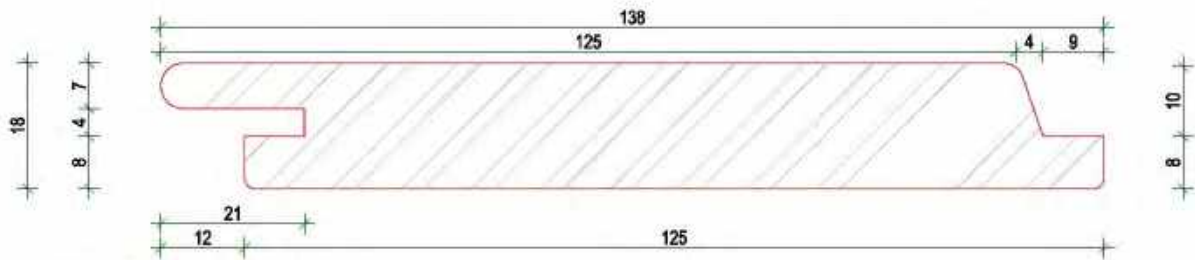
9. CONSTRUCTION DRAWINGS

Drawings cover

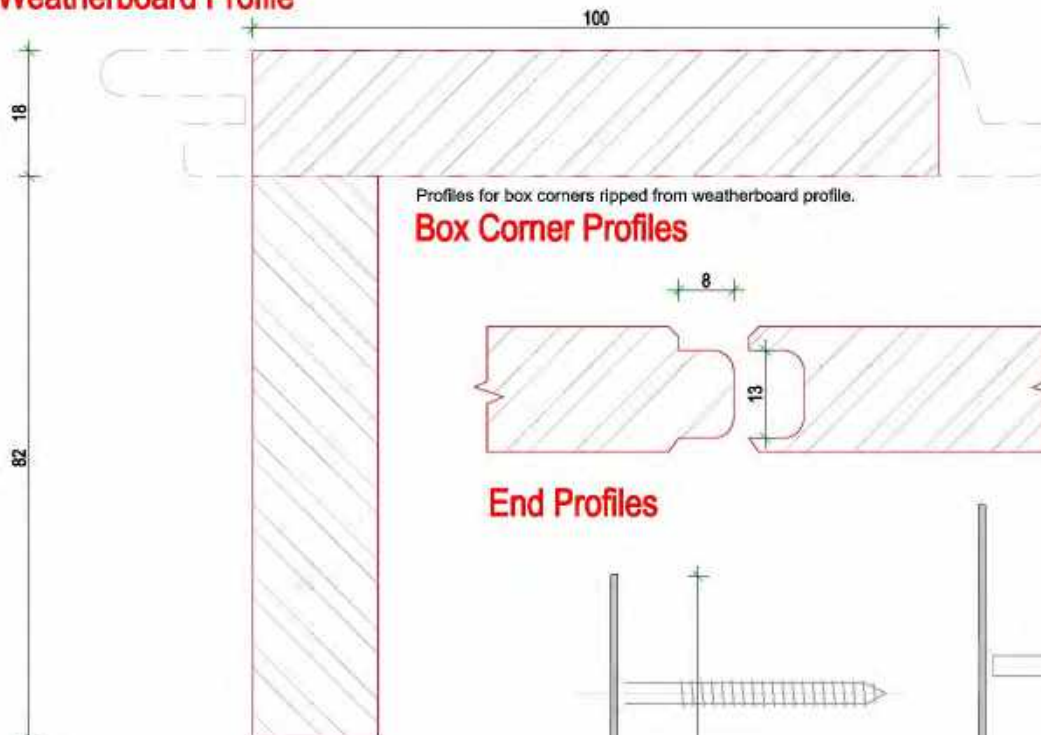
- 10mm cavity horizontal
- 10mm cavity vertical
- 20mm cavity horizontal
- 20mm cavity vertical



System Components

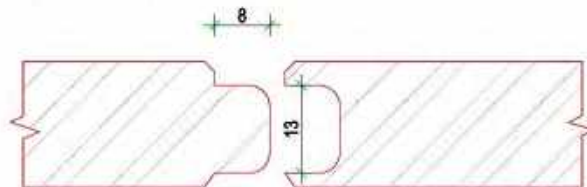


Weatherboard Profile

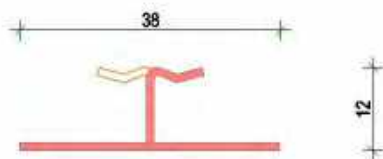


Profiles for box corners ripped from weatherboard profile.

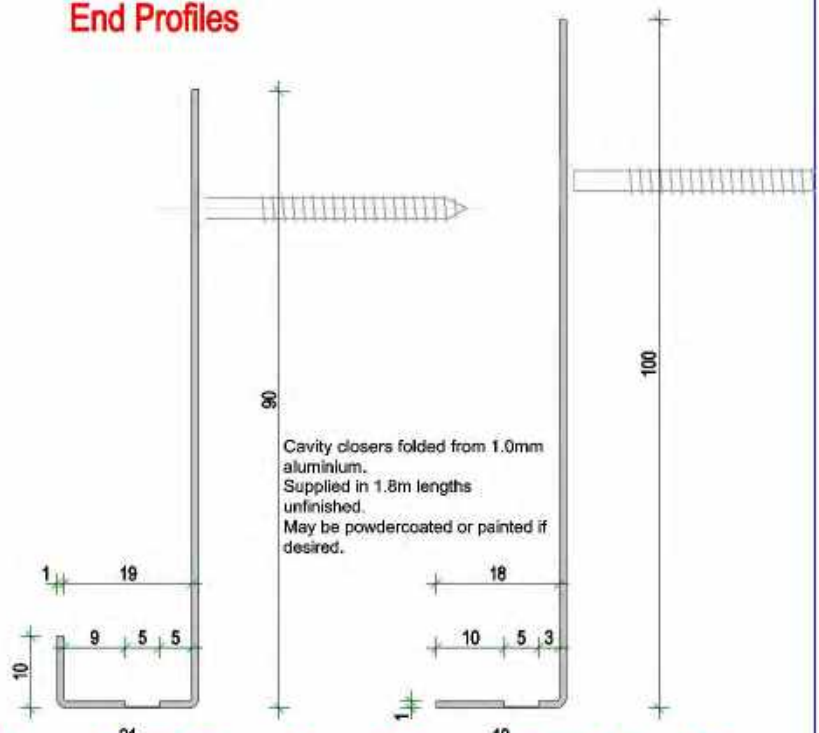
Box Corner Profiles



End Profiles



Stainless steel clip with black powdercoating.
2/40 x 3.93 mm s/steel screws



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

X-treme Clip Profile

X-treme Cavity Closer 1

X-treme Cavity Closer 2



NOTE

The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

REVISION

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Wall Framing Layout for Horizontal Installation

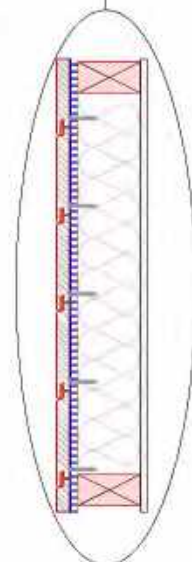


Wall framing set out to NZS3604:2011 requirements with min. 90 x 45 studs @ max. 600mm crs. and nogs/ dwangs @ 800mm crs vertically.

Bamboo X-treme 38 x 28mm s/steel clips fixed via 2/ 40 x 3.93mm s/steel screws through 10 x 45mm fluted cavity battens using adhesive/ or clout fixed to dwangs/ nogs.

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



Vertical Section



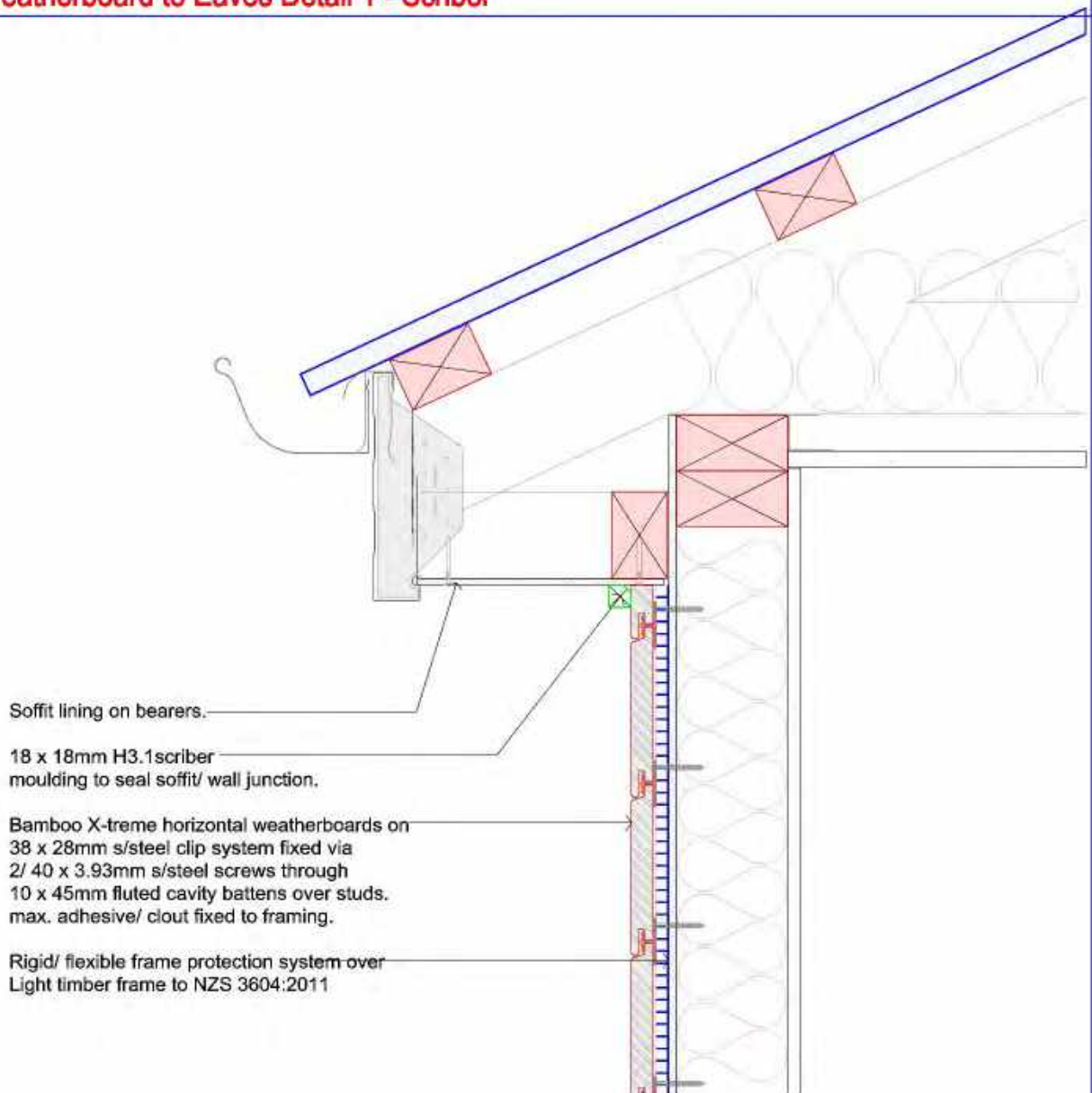
NOTE
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Weatherboard to Eaves Detail 1 - Scribe

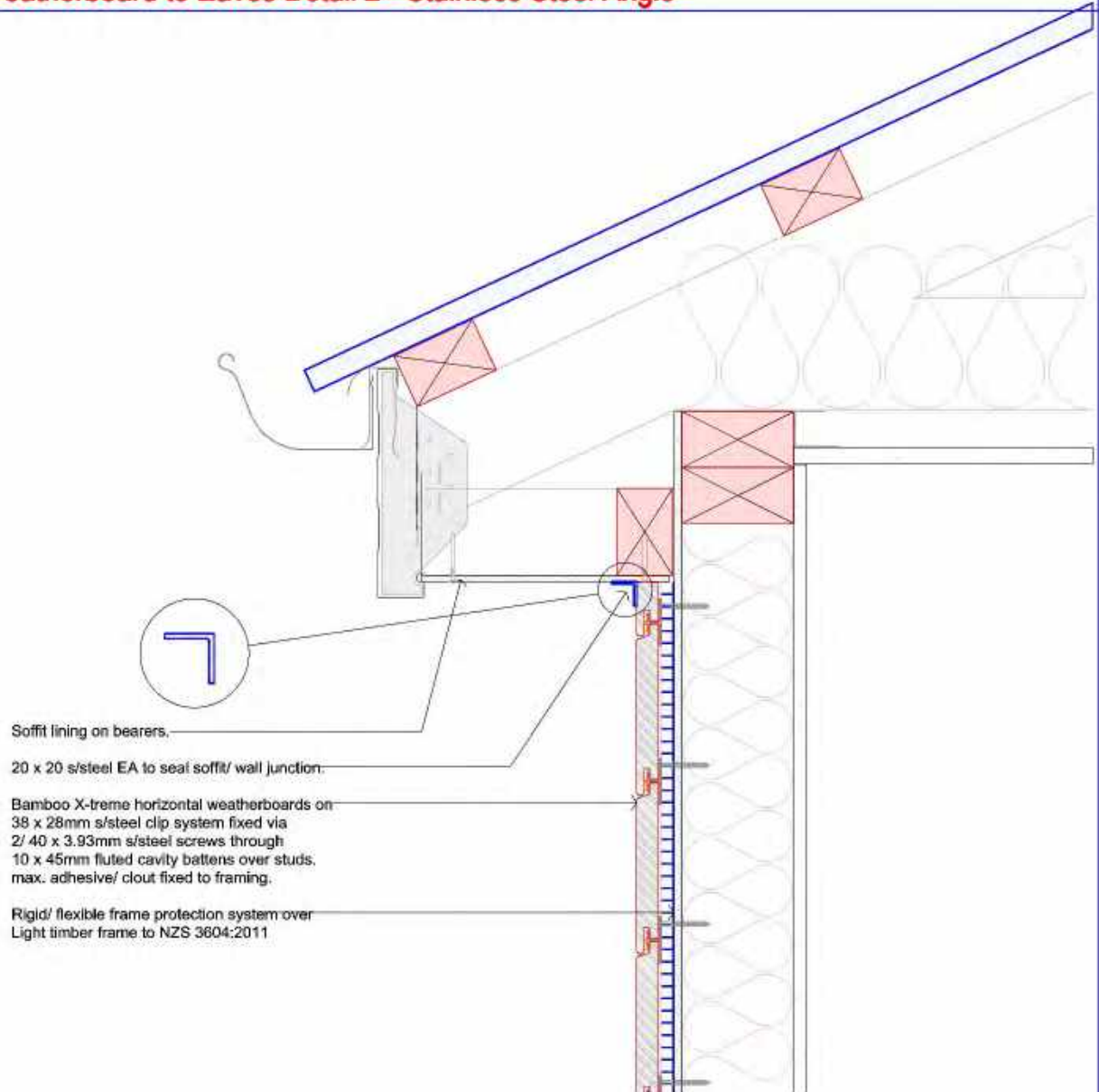


NOTE
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Weatherboard to Eaves Detail 2 - Stainless Steel Angle



Soffit lining on bearers.

20 x 20 s/steel EA to seat soffit/ wall junction.

Bamboo X-treme horizontal weatherboards on
38 x 28mm s/steel clip system fixed via
2/ 40 x 3.93mm s/steel screws through
10 x 45mm fluted cavity battens over studs,
max. adhesive/ clout fixed to framing.

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



NOTE

The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

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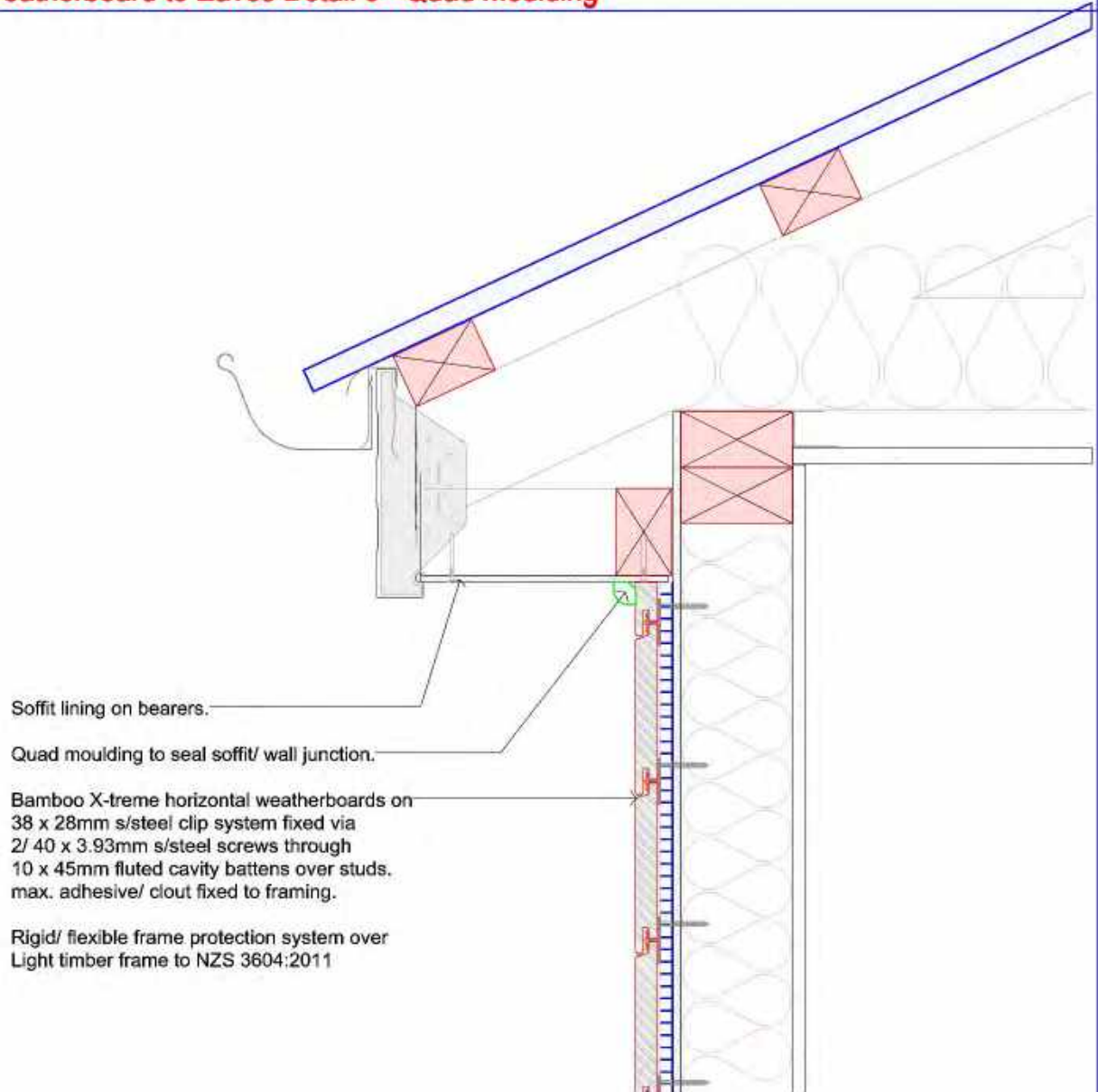
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Weatherboard to Eaves Detail 3 - Quad Moulding



NOTE
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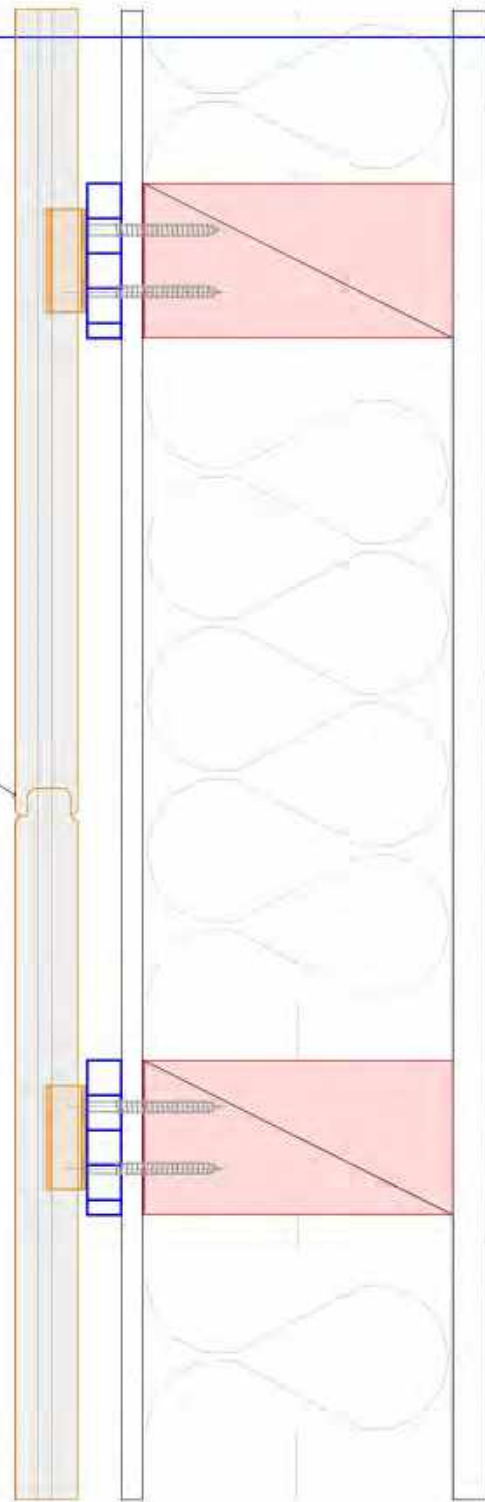
End Lap Joint

End profiles factory rebated

38 x 28mm s/steel clip system fixed via
2/ 40 x 3.93mm s/steel screws through
10 x 45mm fluted cavity battens over studs.
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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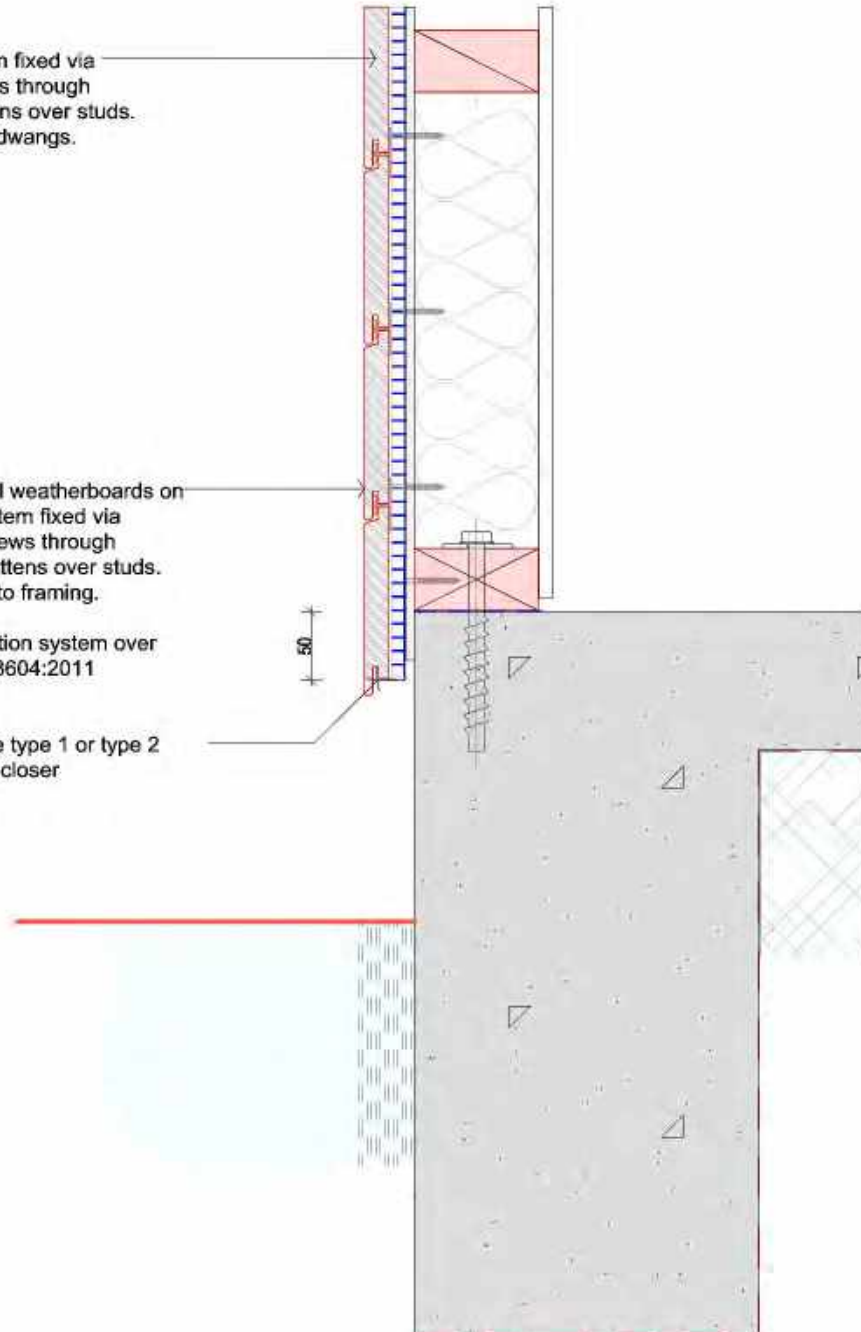
Cladding Base - Concrete Slab

38 x 28mm s/steel clip system fixed via 2/ 40 x 3.93mm s/steel screws through 10 x 45mm fluted cavity battens over studs. max. adhesive/ clout fixed to dwangs.

Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 40 x 3.93mm s/steel screws through 10 x 45mm fluted cavity battens over studs. max. adhesive/ clout fixed to framing.

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

Plantation Bamboo X-treme type 1 or type 2 1.0mm aluminium cavity closer



NOTE

The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

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Cladding Base - Suspended Floor

Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 40 x 3.93mm s/steel screws through 10 x 45mm fluted cavity battens over studs. max. adhesive/ clout fixed to framing.

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

Plantation Bamboo X-treme type 1 or type 2 1.0mm aluminium cavity closer

50



NOTE

The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

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Window Head

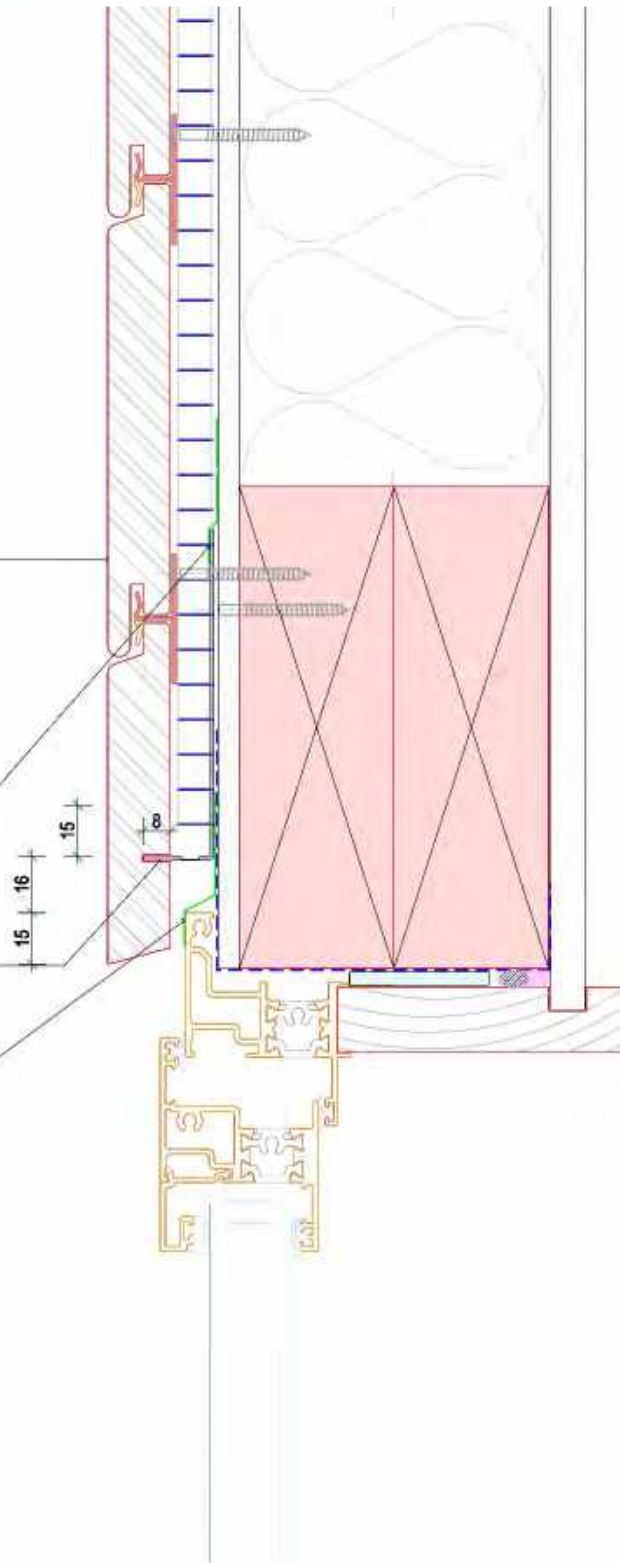
Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/40 x 3.9 mm s/steel screws through 10 x 45mm fluted cavity battens over studs.

max. adhesive/ clout fixed to framing.

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

Plantation Bamboo X-treme type 2 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.

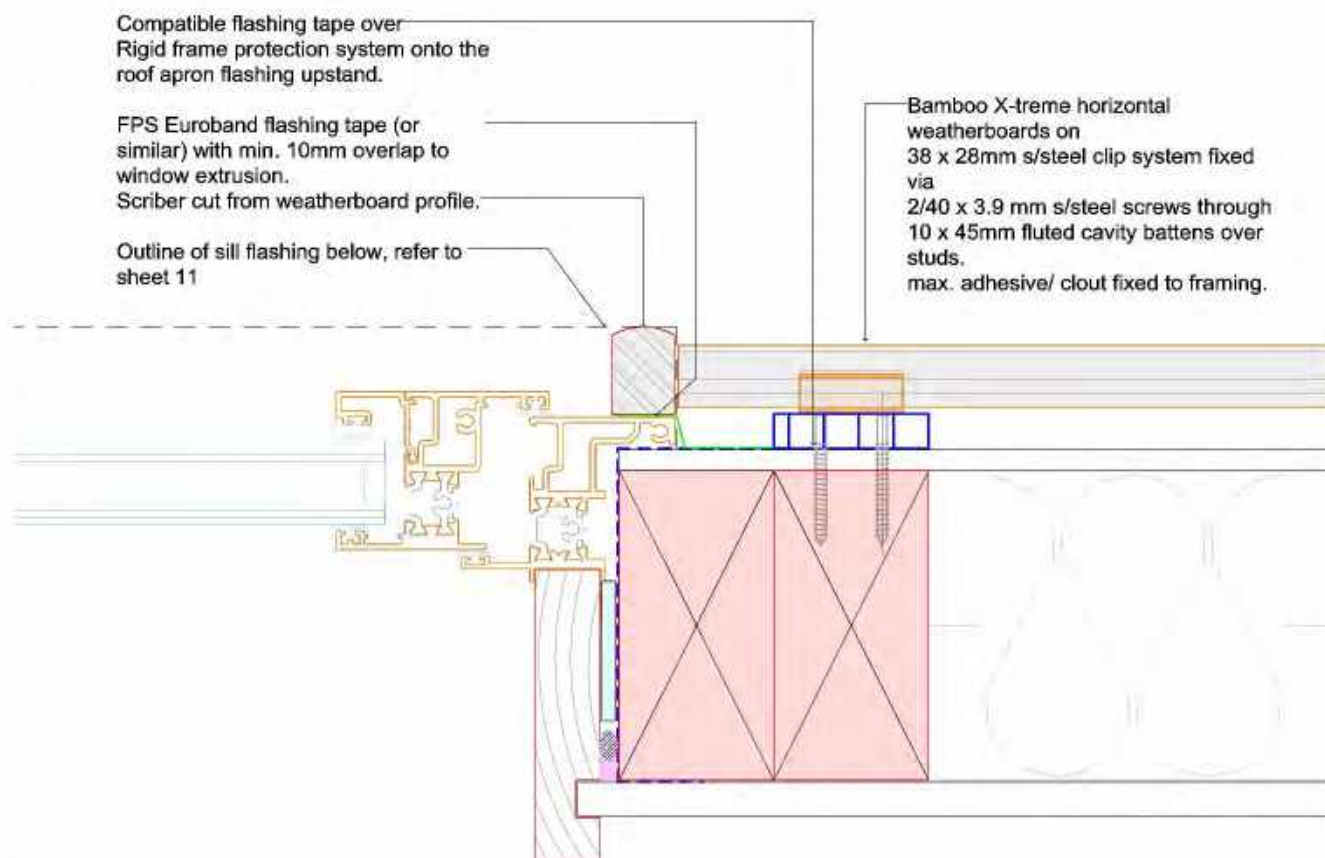


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REVISION
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Window Jamb



NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

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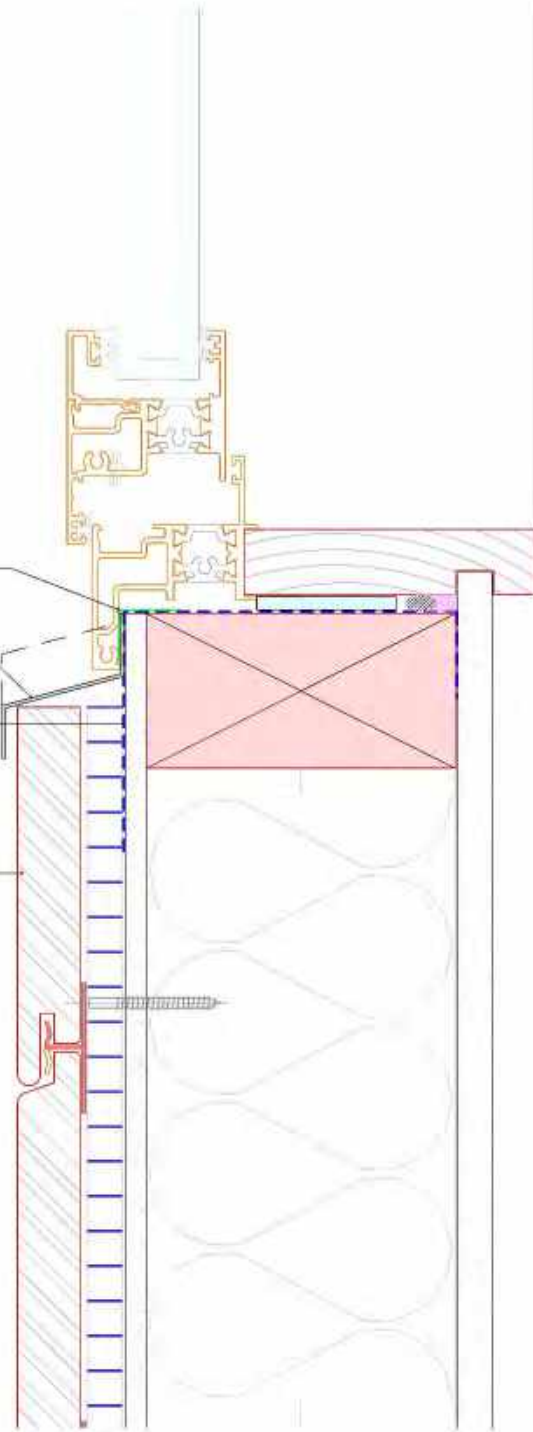
Window Sill

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

Bamboo X-treme horizontal weatherboards on 38 x 28mm s/steel clip system fixed via 2/40 x 3.9 mm s/steel screws through 10 x 45mm fluted cavity battens over studs.

adhesive/ clout fixed to framing.



NOTE

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External Corner - Box Corner

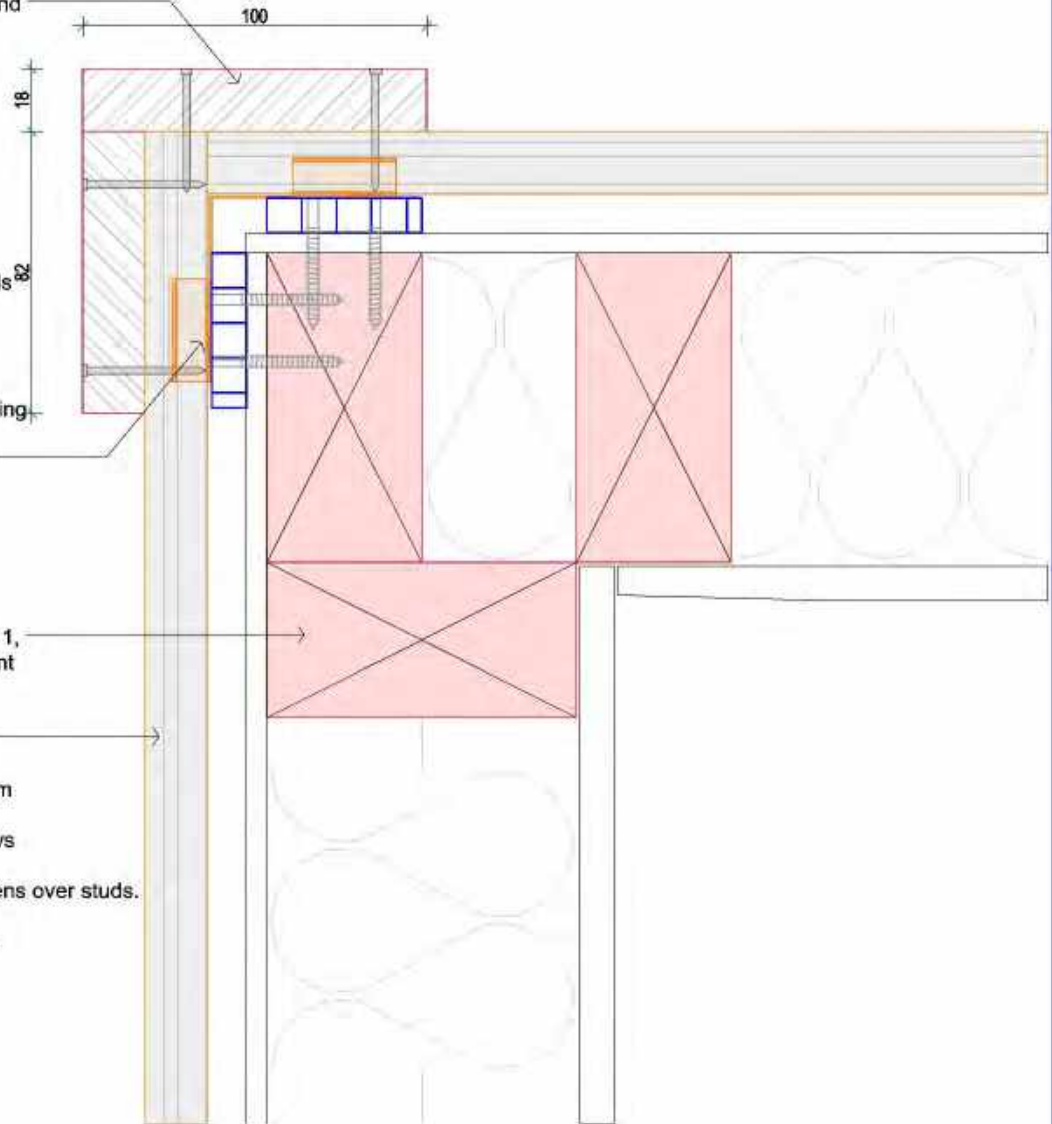
Box corner facings 100mm and 82mm fixed using pre-drilled galv. or s/steel nails.

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 2/ 40 x 3.93mm s/steel screws through 10 x 45mm fluted cavity battens over studs.

max. adhesive/ clout fixed to framing.



NOTE
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External Corner - Stainless Steel Corner Detail

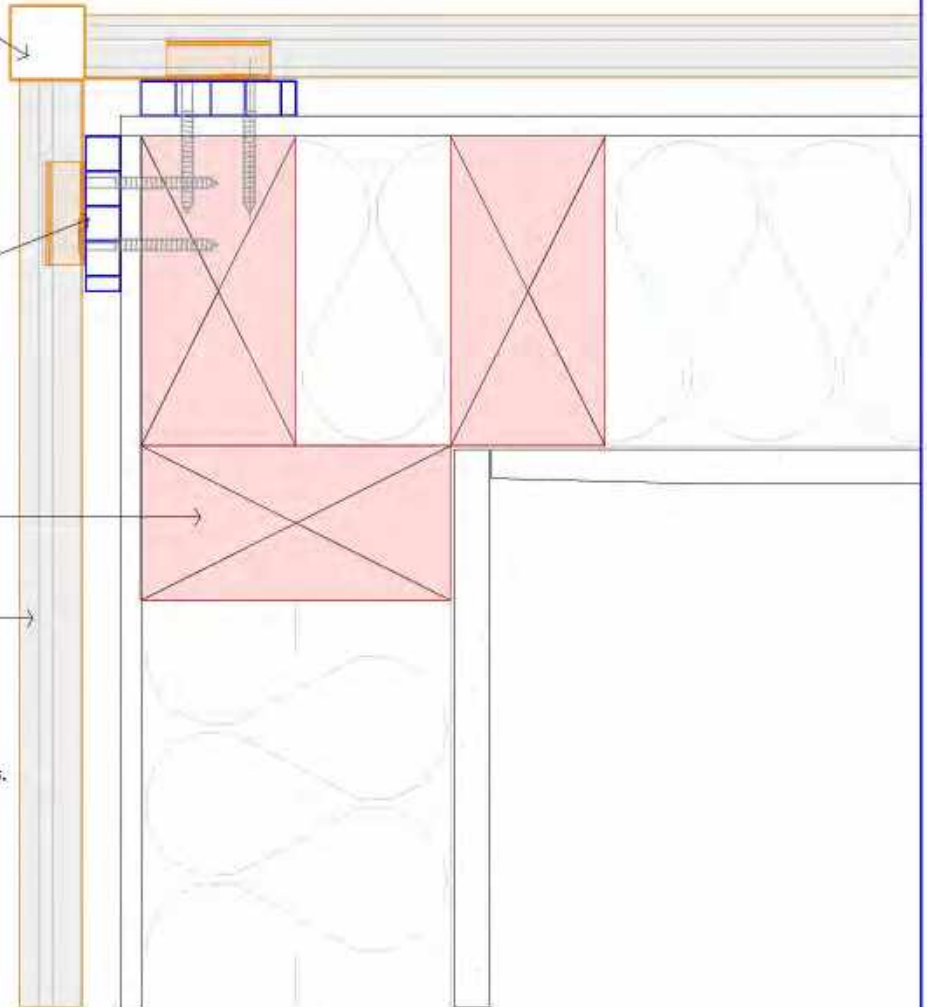
Stainless steel corner flashing to suit.
Rebate the back of the weatherboards as required to sit flush over flashing.

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 2/ 40 x 3.93mm s/steel screws through 10 x 45mm fluted cavity battens over studs.

adhesive/ clout fixed to framing.



NOTE
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External Corner - Mitred Corner

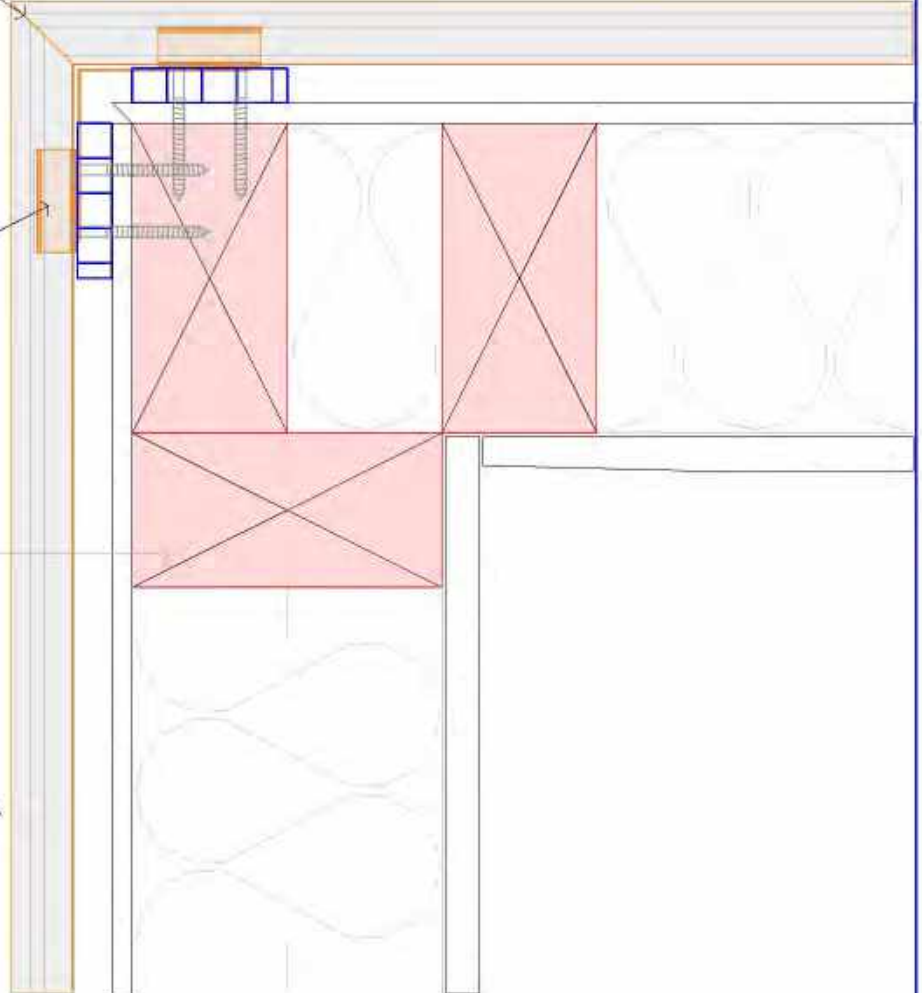
Corner boards mitred, run a continuous bead of construction adhesive between the meeting faces.

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 2/ 40 x3.932mm s/steel screws through 10 x 45mm fluted cavity battens over studs.

adhesive/ clout fixed to framing.



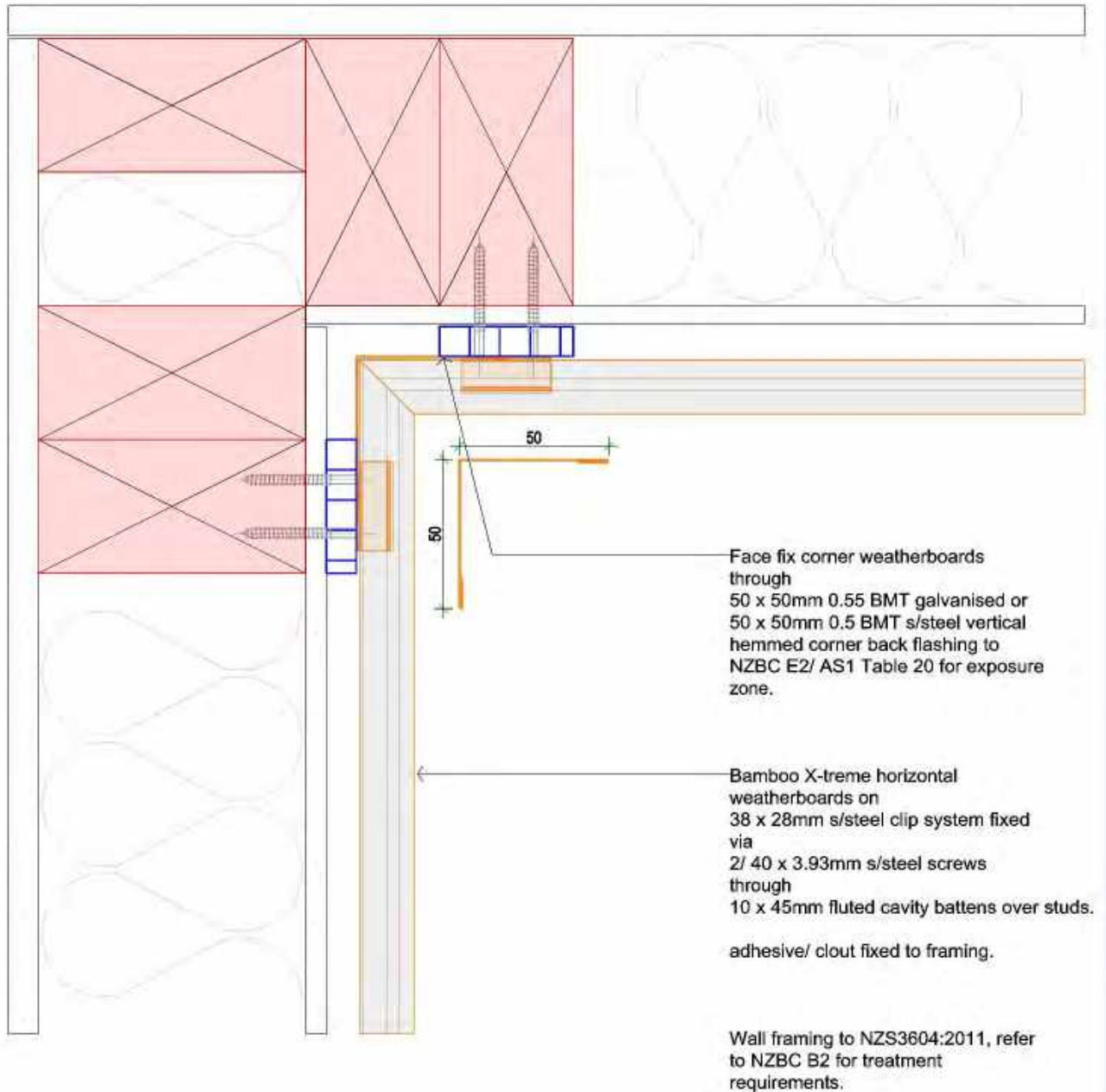
NOTE
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Internal Corner - Timber Butt Joint



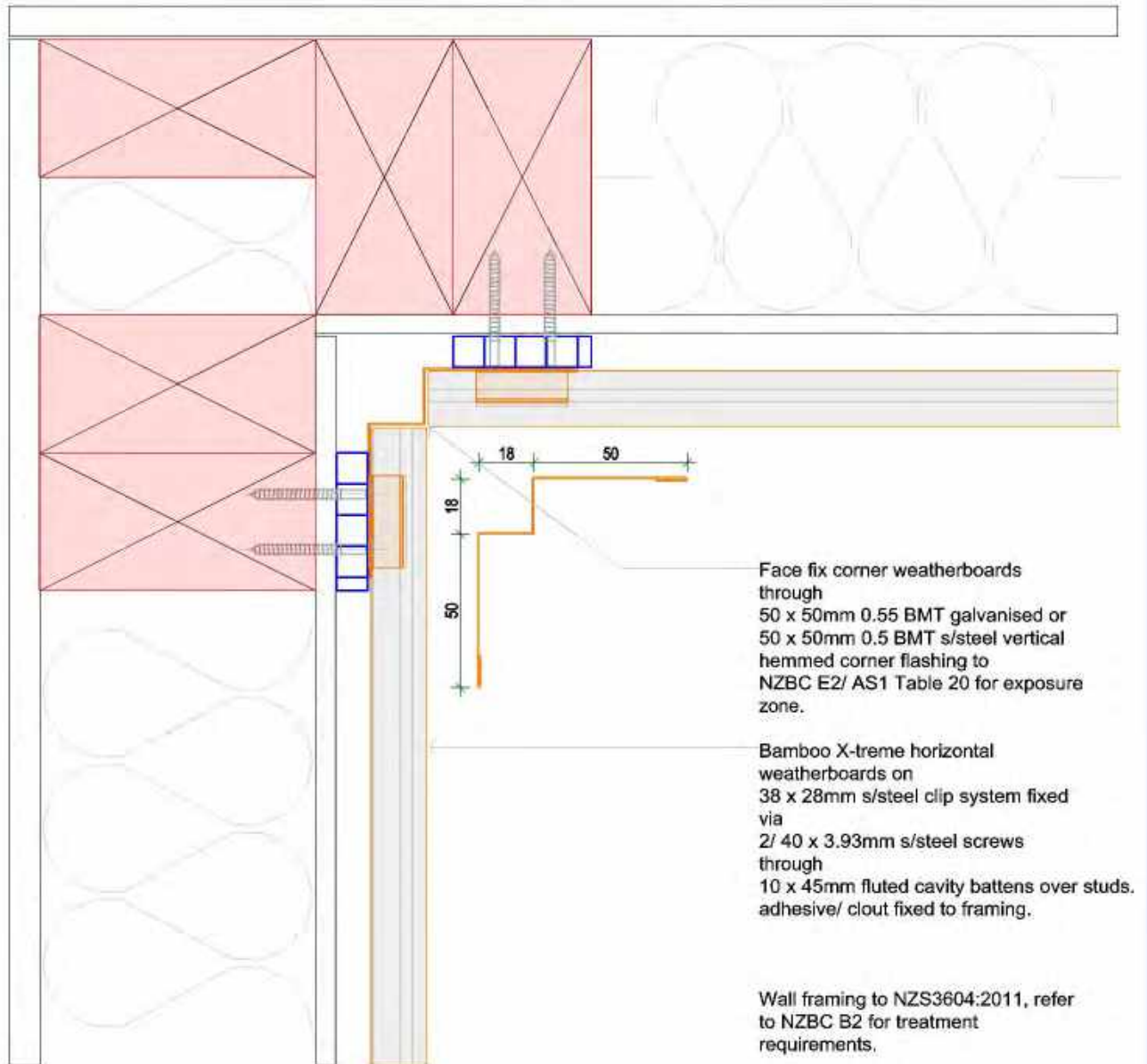
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Internal Corner - Internal Stainless Steel Corner Detail



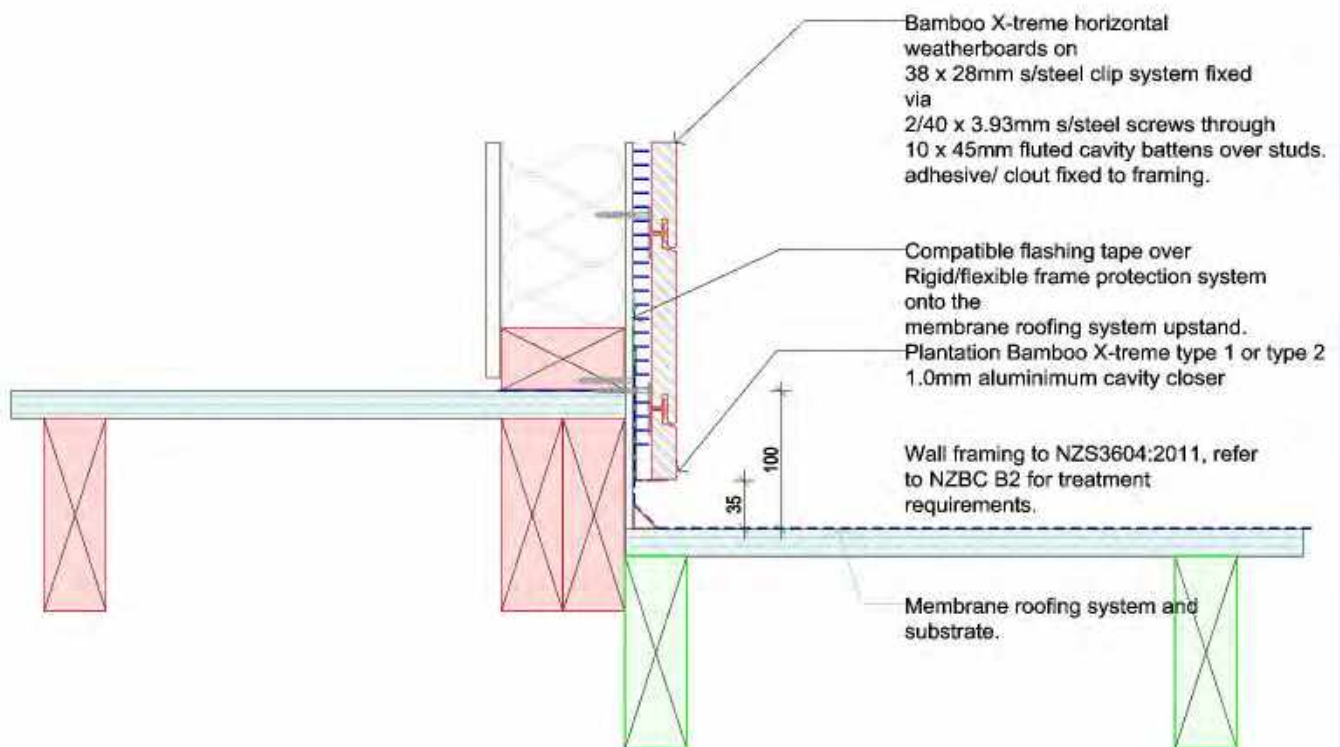
NOTE
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Cladding Junction to Membrane Roofing Detail



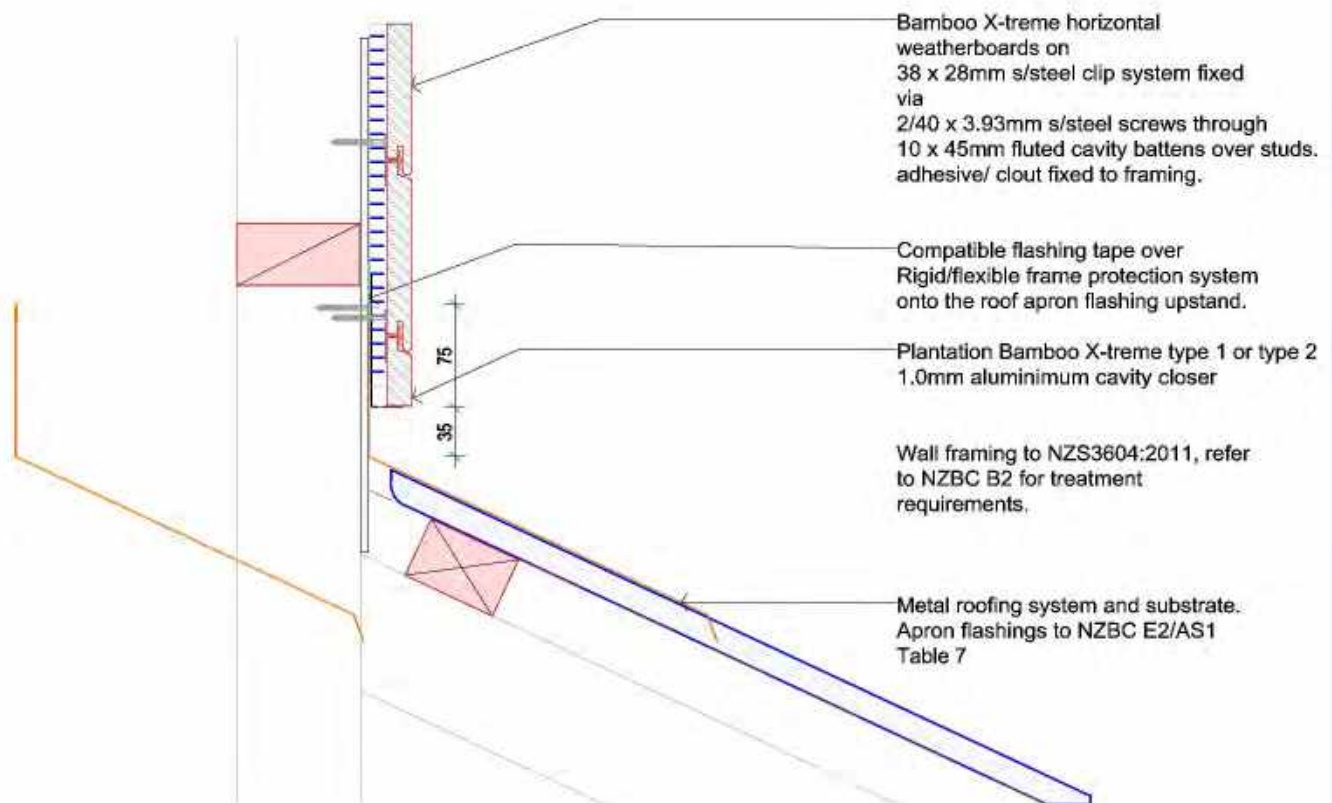
NOTE
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Cladding Junction to Metal Roofing Apron Detail



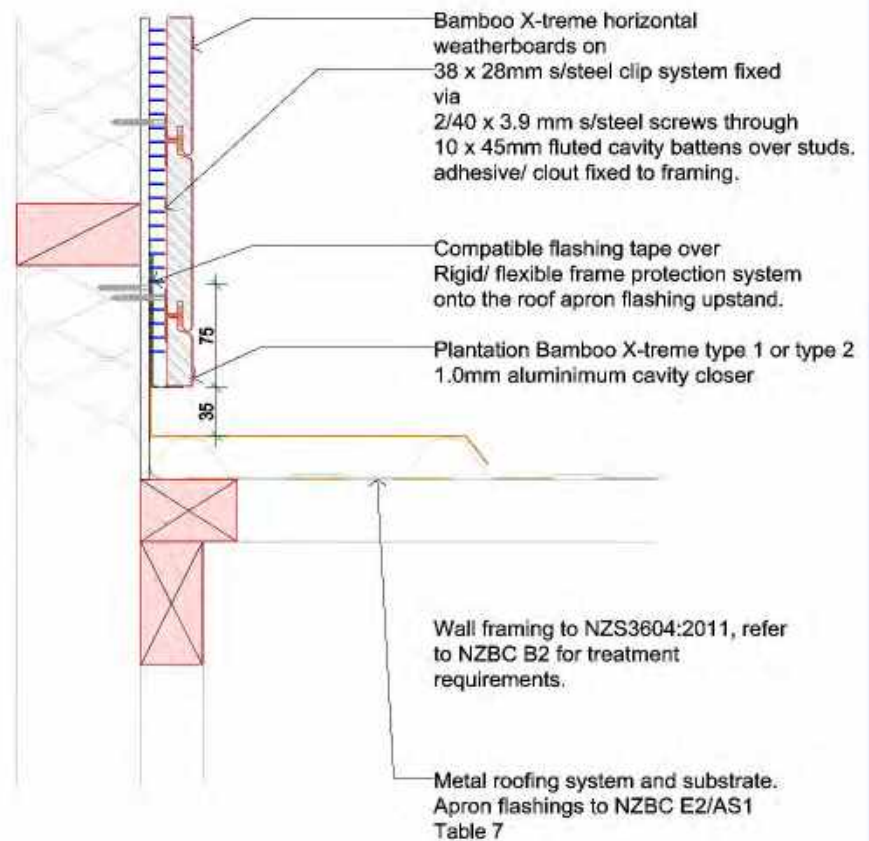
NOTE
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Cladding Junction to Metal Roofing Transverse Apron Detail



NOTE
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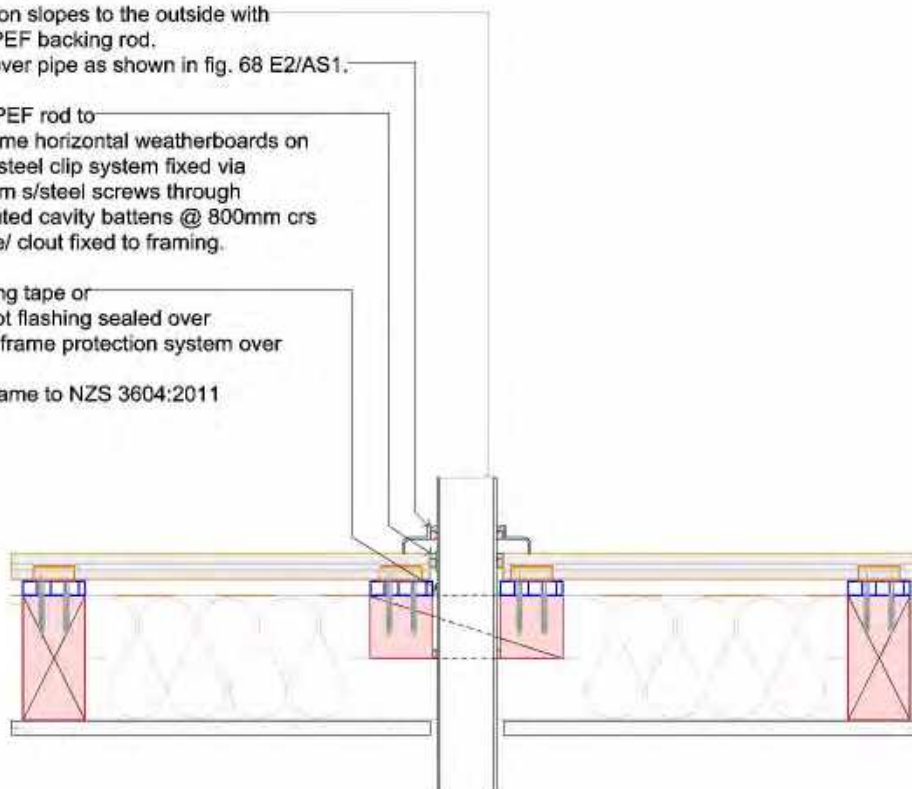
Pipe Penetration External

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/ 40 x 3.93mm s/steel screws through
10 x 45mm fluted cavity battens @ 800mm 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



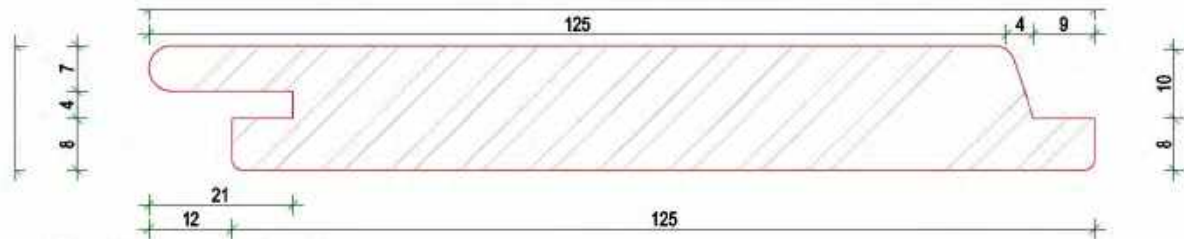
NOTE
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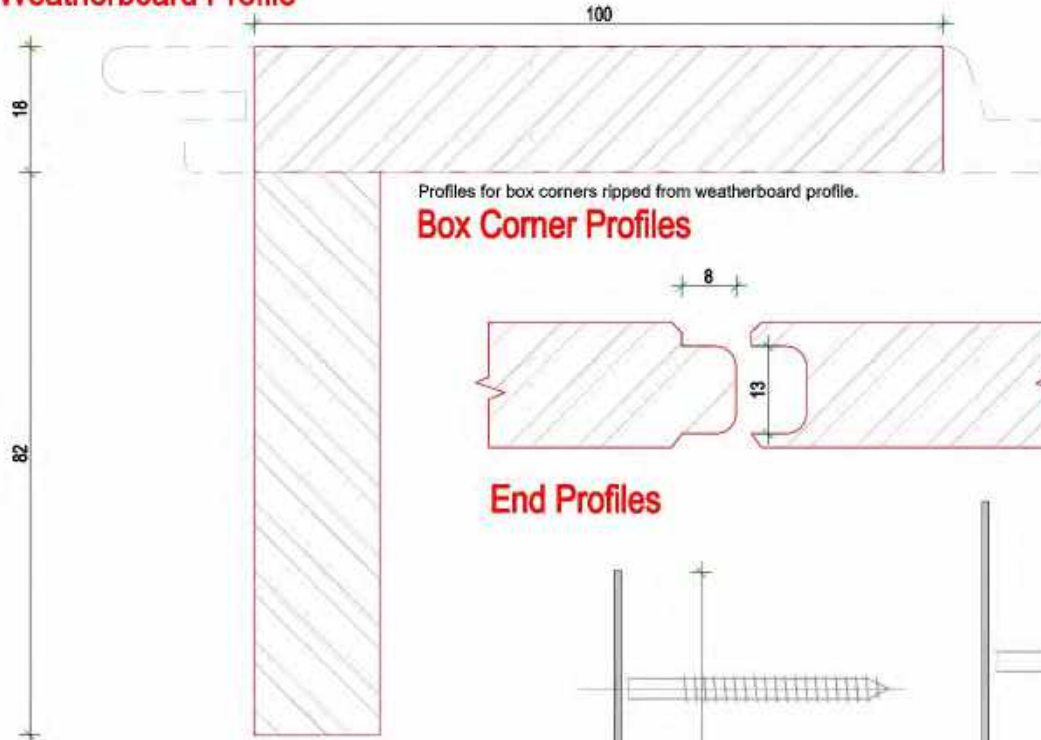
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System Components

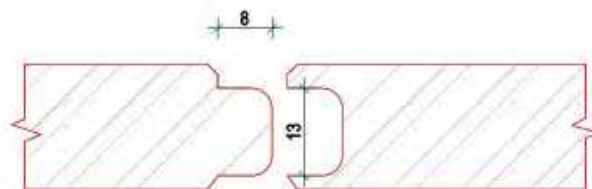


Weatherboard Profile

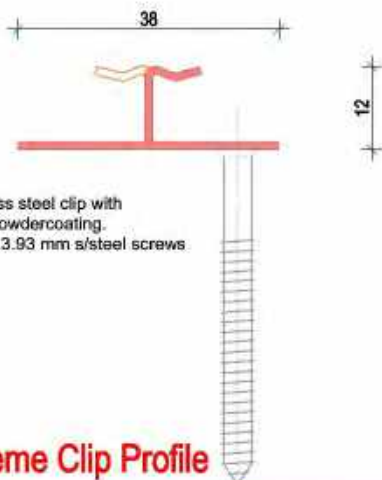


Profiles for box corners ripped from weatherboard profile.

Box Corner Profiles

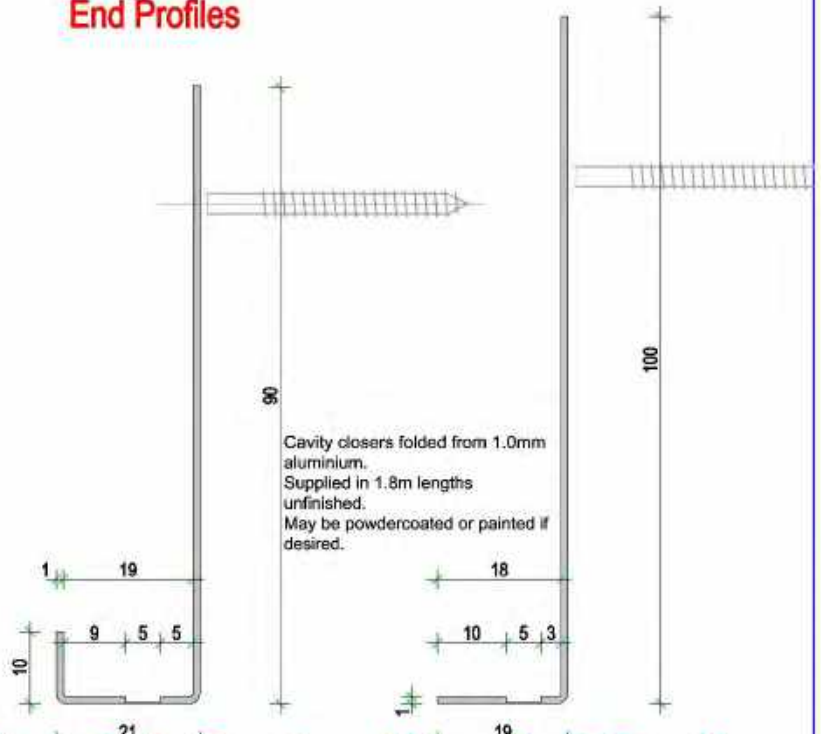


End Profiles



Stainless steel clip with black powdercoating.
2/ 40 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 1

X-treme Cavity Closer 2



NOTE
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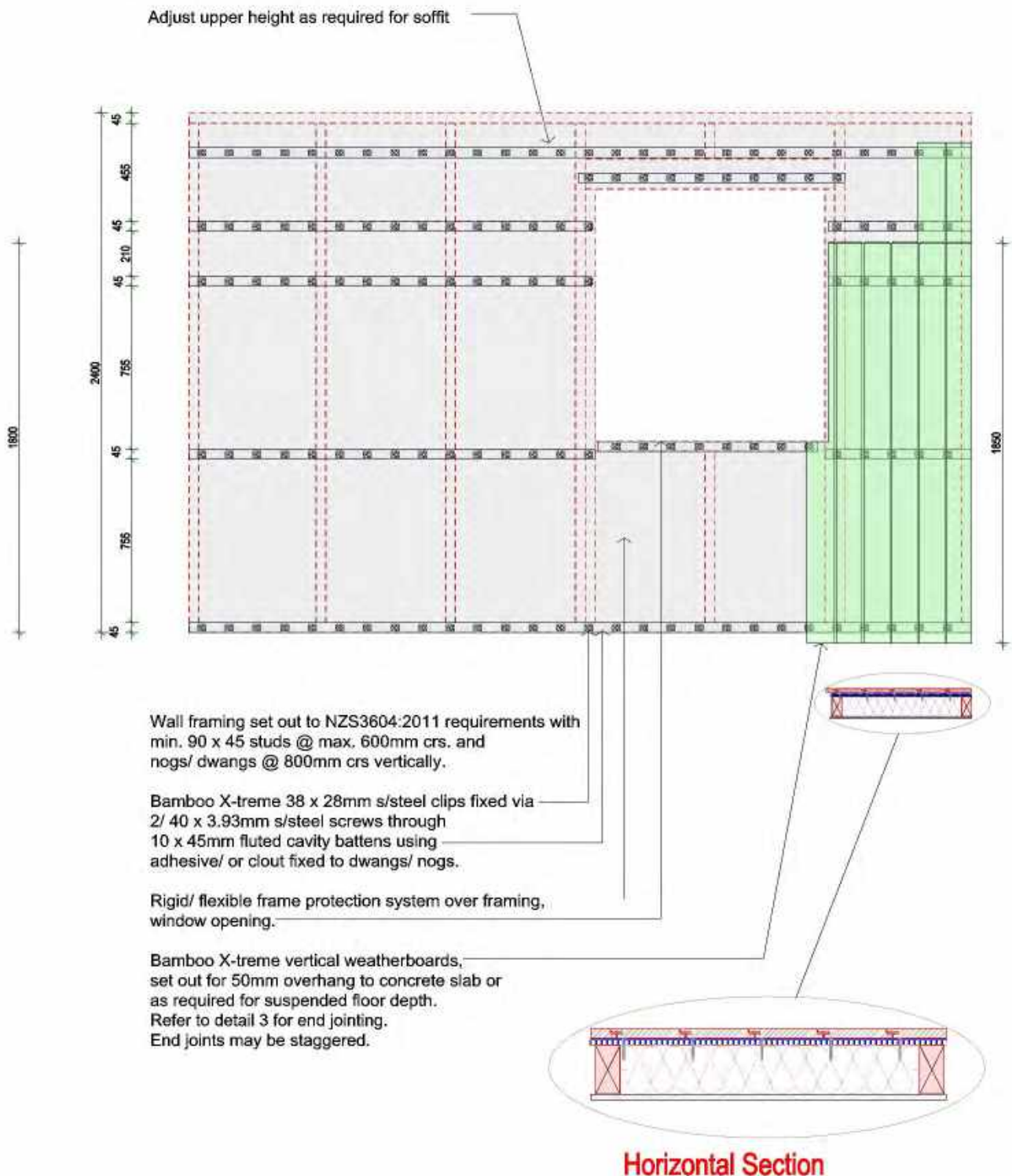
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Wall Framing Layout for Vertical Installation



NOTE
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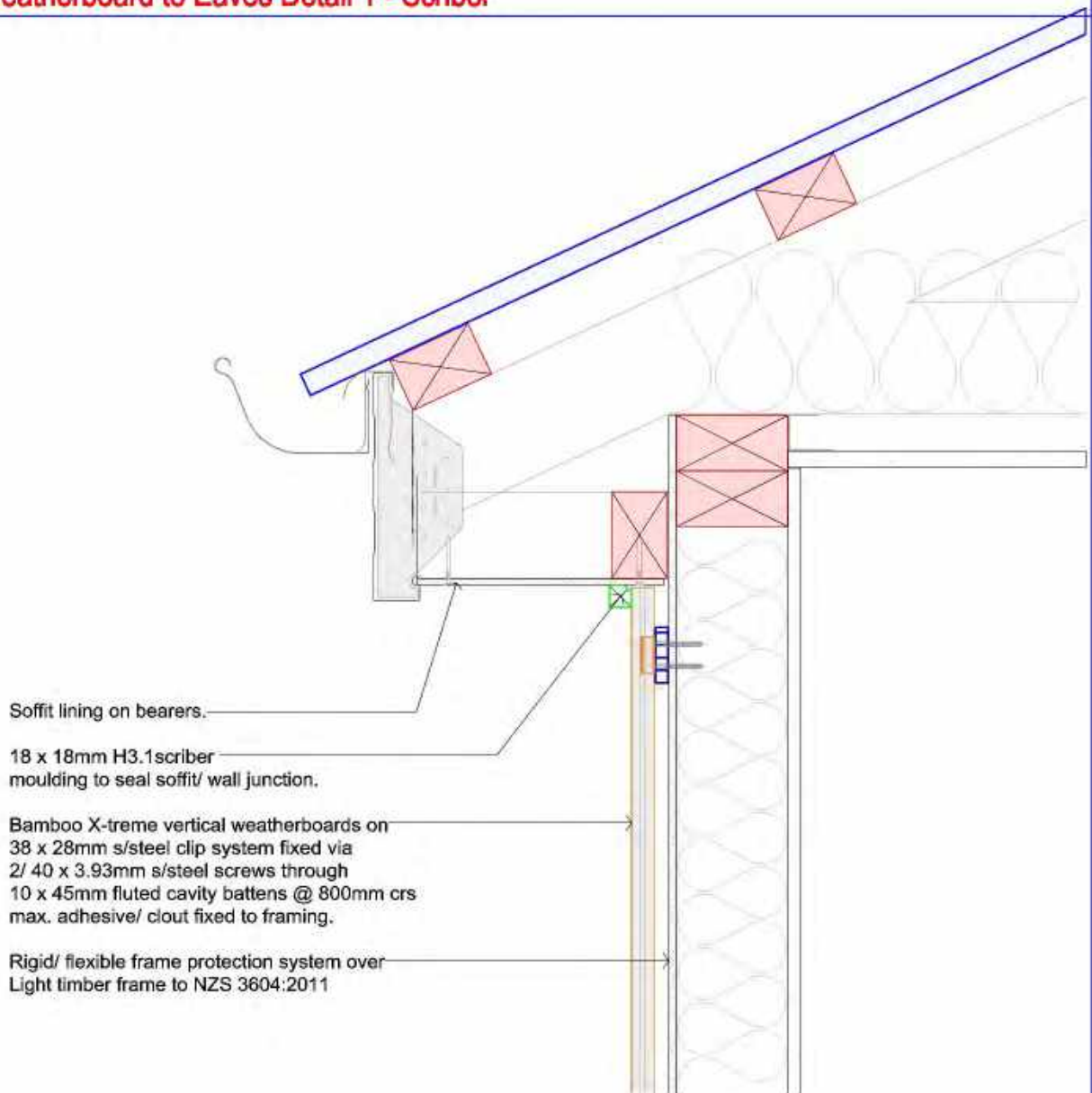
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Weatherboard to Eaves Detail 1 - Scriber



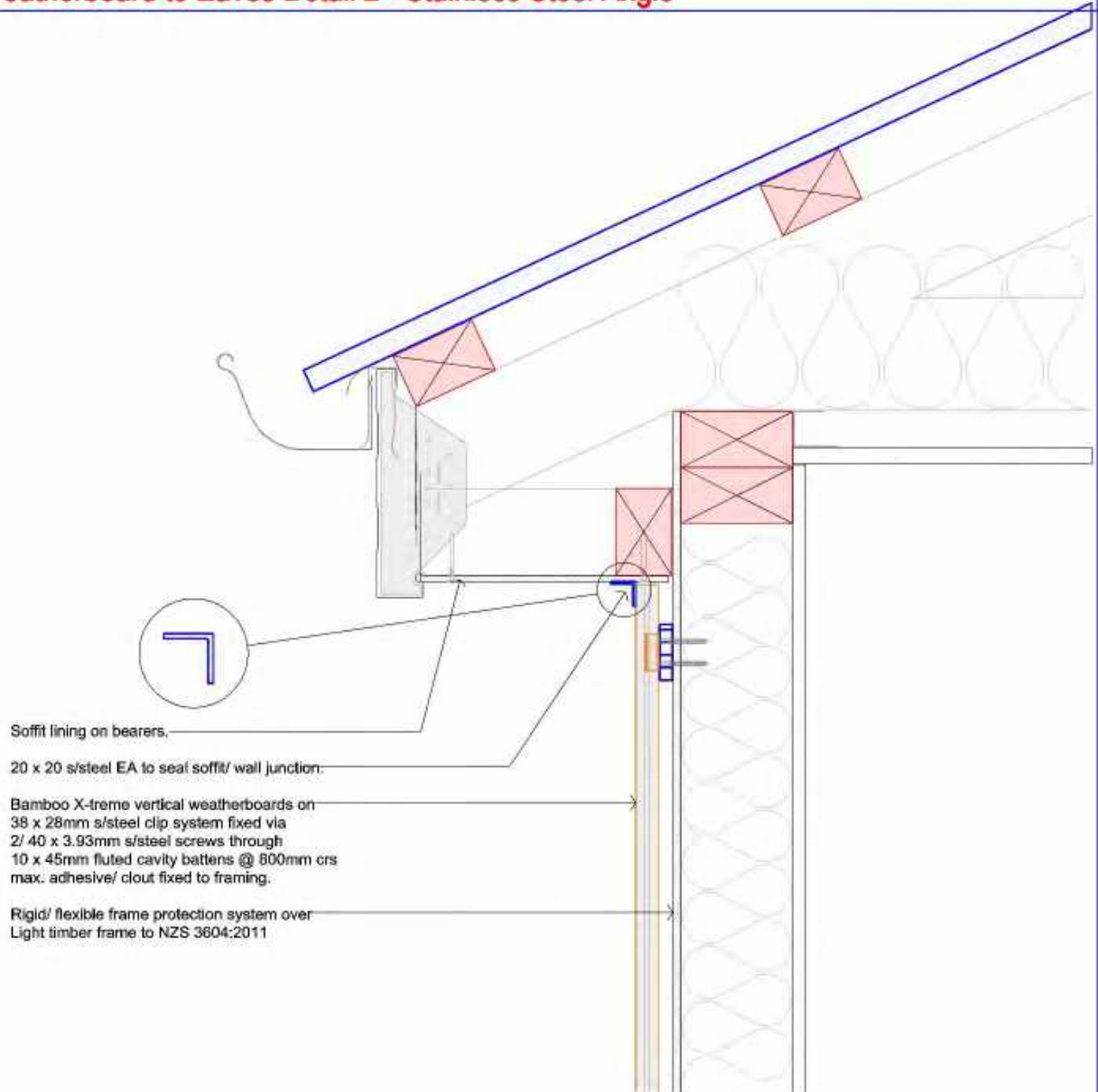
NOTE
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Weatherboard to Eaves Detail 2 - Stainless Steel Angle



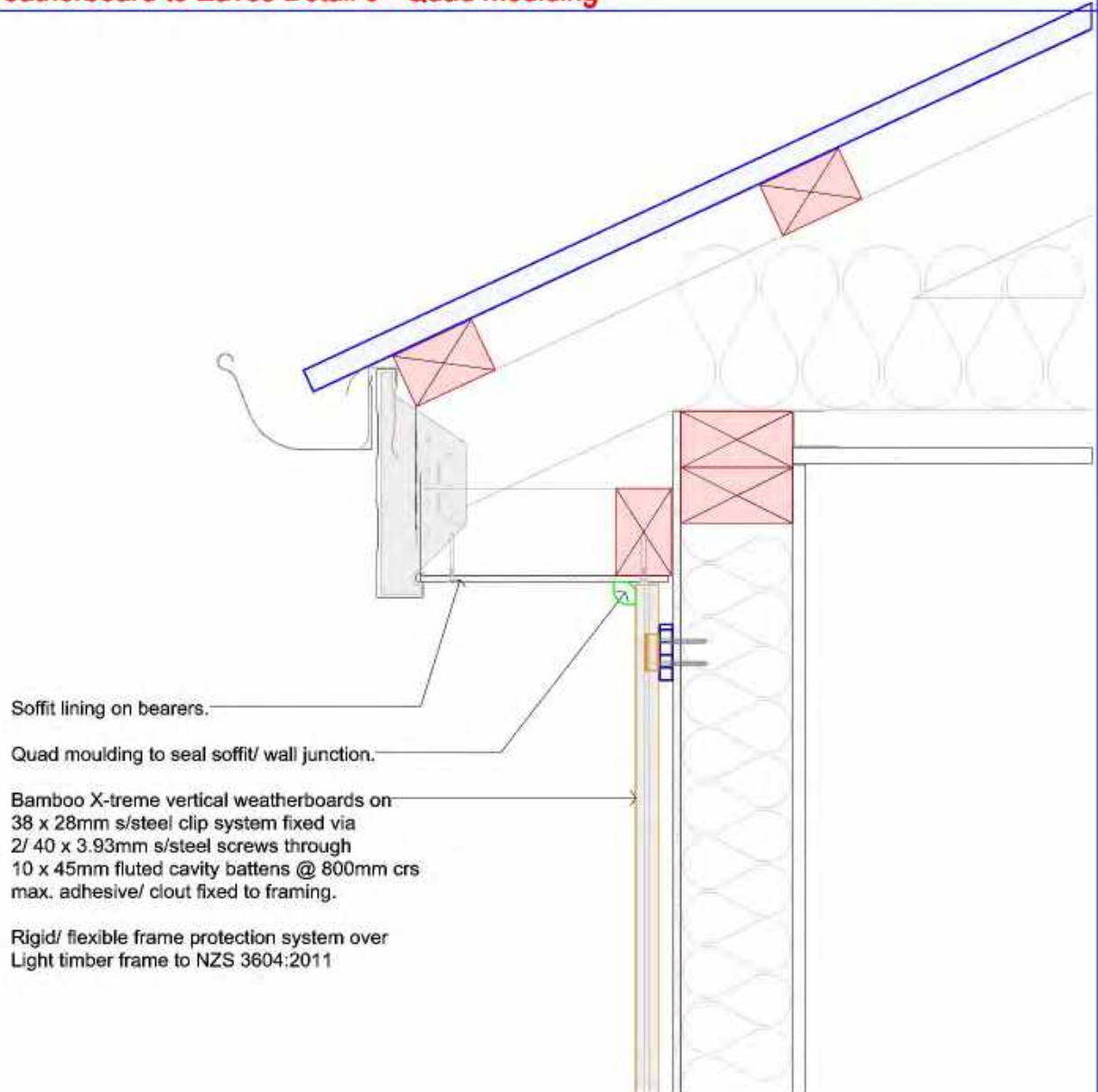
NOTE
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Weatherboard to Eaves Detail 3 - Quad Moulding



NOTE
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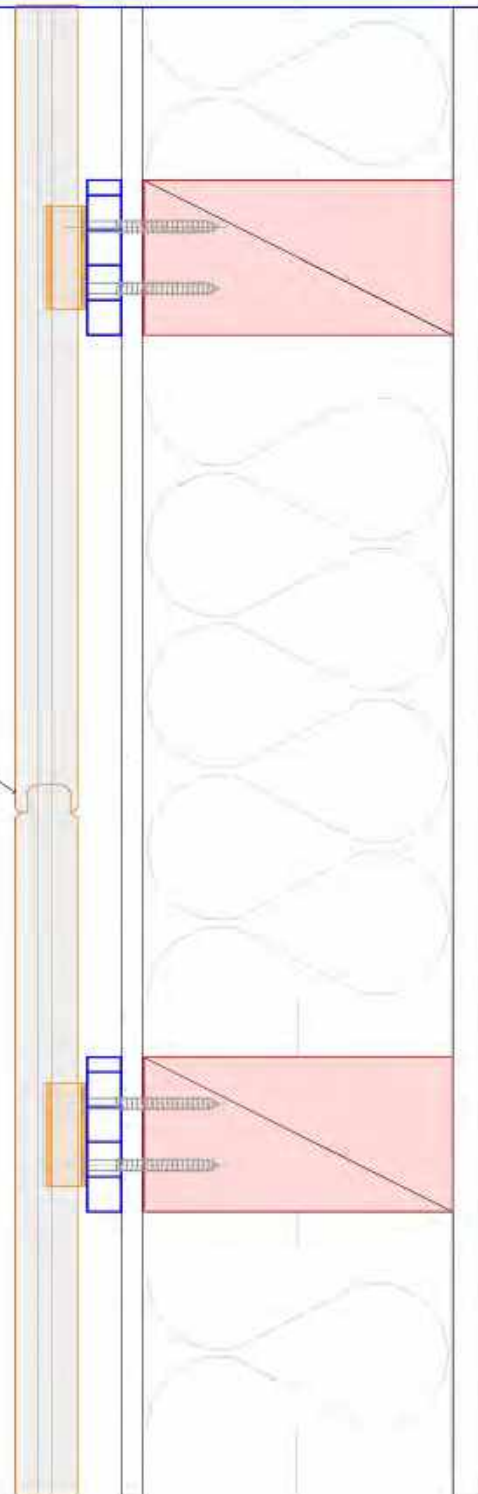
End Lap Joint

End profiles factory rebated

38 x 28mm s/steel clip system fixed via
2/ 40 x 3.93mm s/steel screws through
10 x 45mm fluted cavity battens @ 800mm 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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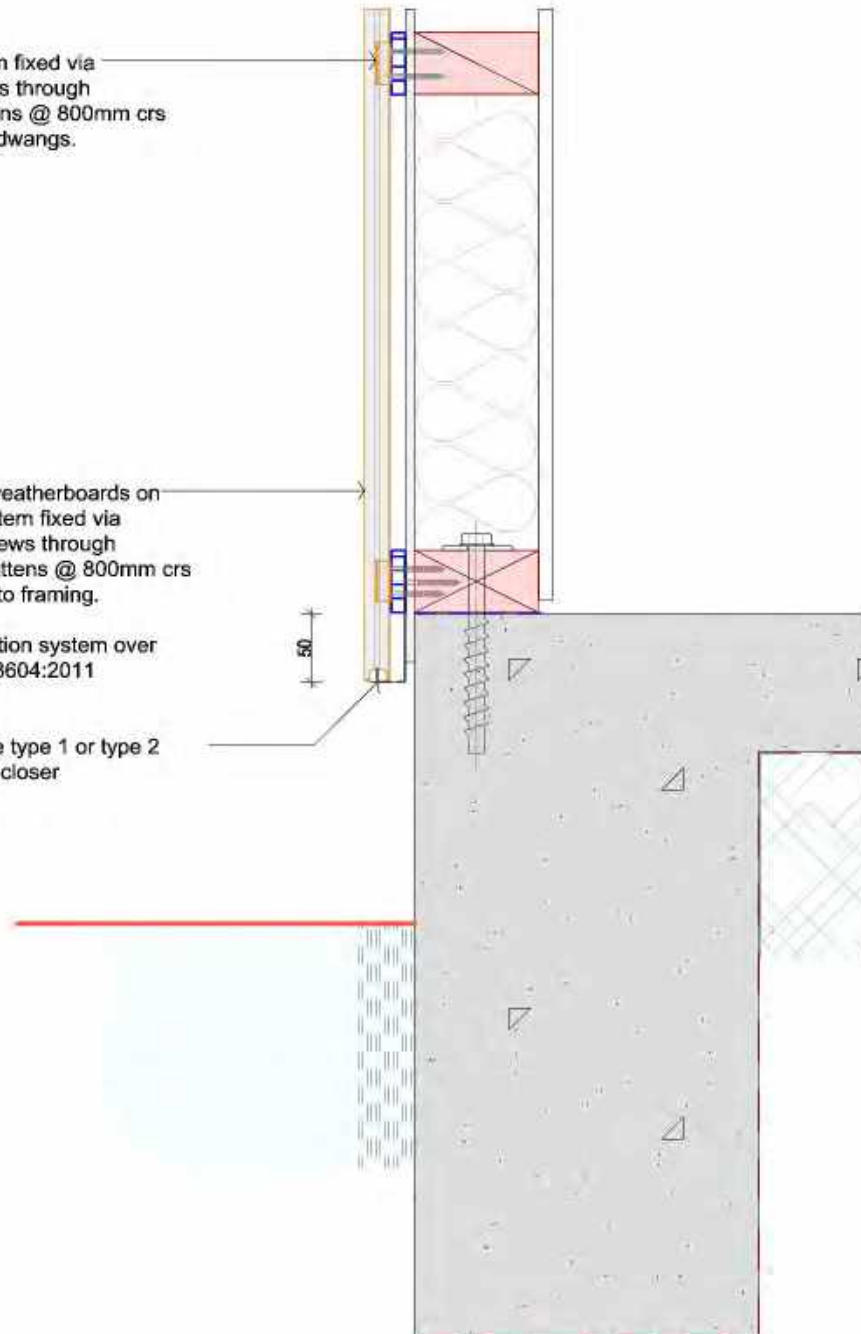
Cladding Base - Concrete Slab

38 x 28mm s/steel clip system fixed via
2/ 40 x 3.93mm s/steel screws through
10 x 45mm fluted cavity battens @ 800mm crs
max. adhesive/ clout fixed to dwangs.

Bamboo X-treme vertical weatherboards on
38 x 28mm s/steel clip system fixed via
2/ 40 x 3.93mm s/steel screws through
10 x 45mm fluted cavity battens @ 800mm crs
max. adhesive/ clout fixed to framing.

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

Plantation Bamboo X-treme type 1 or type 2
1.0mm aluminium cavity closer



NOTE
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Cladding Base - Suspended Floor

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 40 x 3.93mm s/steel screws through 10 x 45mm fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

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

Plantation Bamboo X-treme type 1 or type 2 1.0mm aluminium cavity closer

50



NOTE

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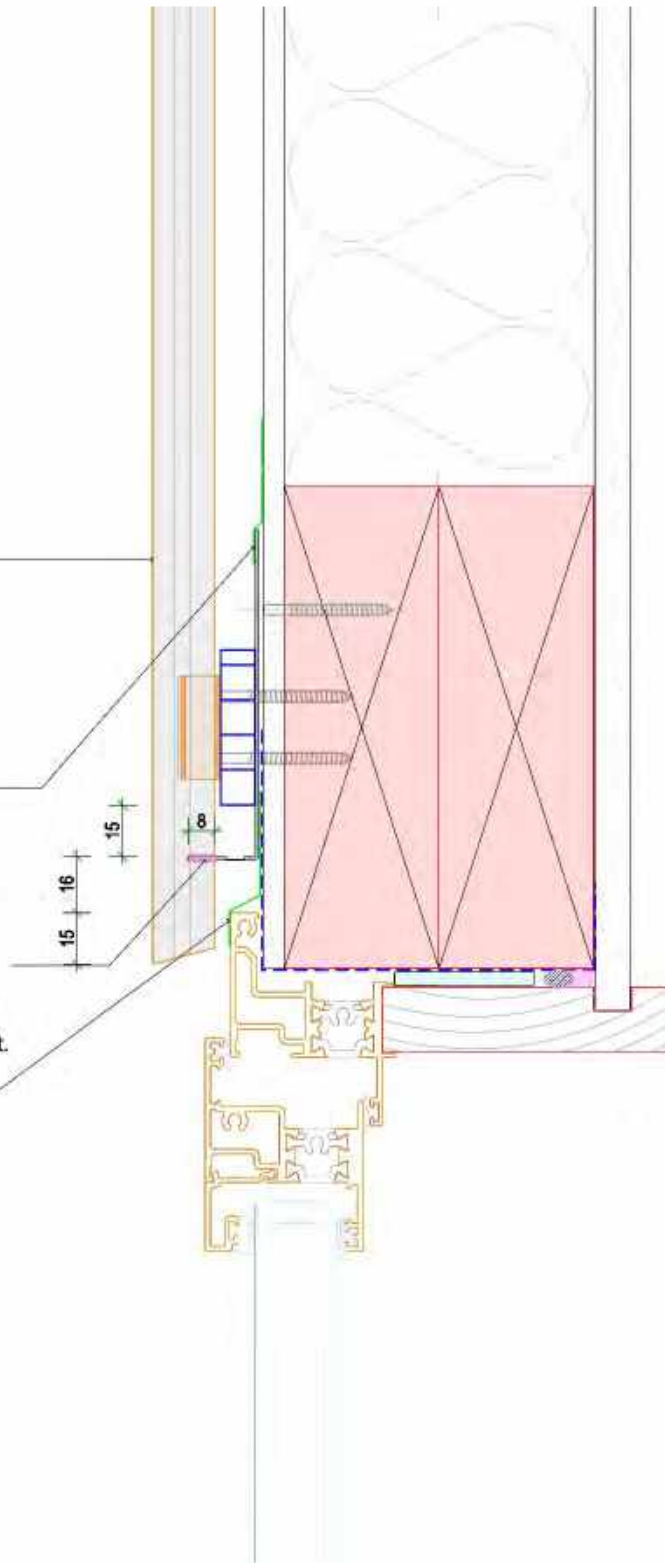
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Window Head

- Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/40 x 3.9 mm s/steel screws through 10 x 45mm fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.
- 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.
- Plantation Bamboo X-treme type 2 1.0mm aluminium cavity closer set into 8mm deep sawcut, apply sealant to sawcut.
- FPS Euroband flashing tape with min. 10mm overlap to window extrusion.
- 15° undercut to weatherboards with 15mm overlap to window extrusion.

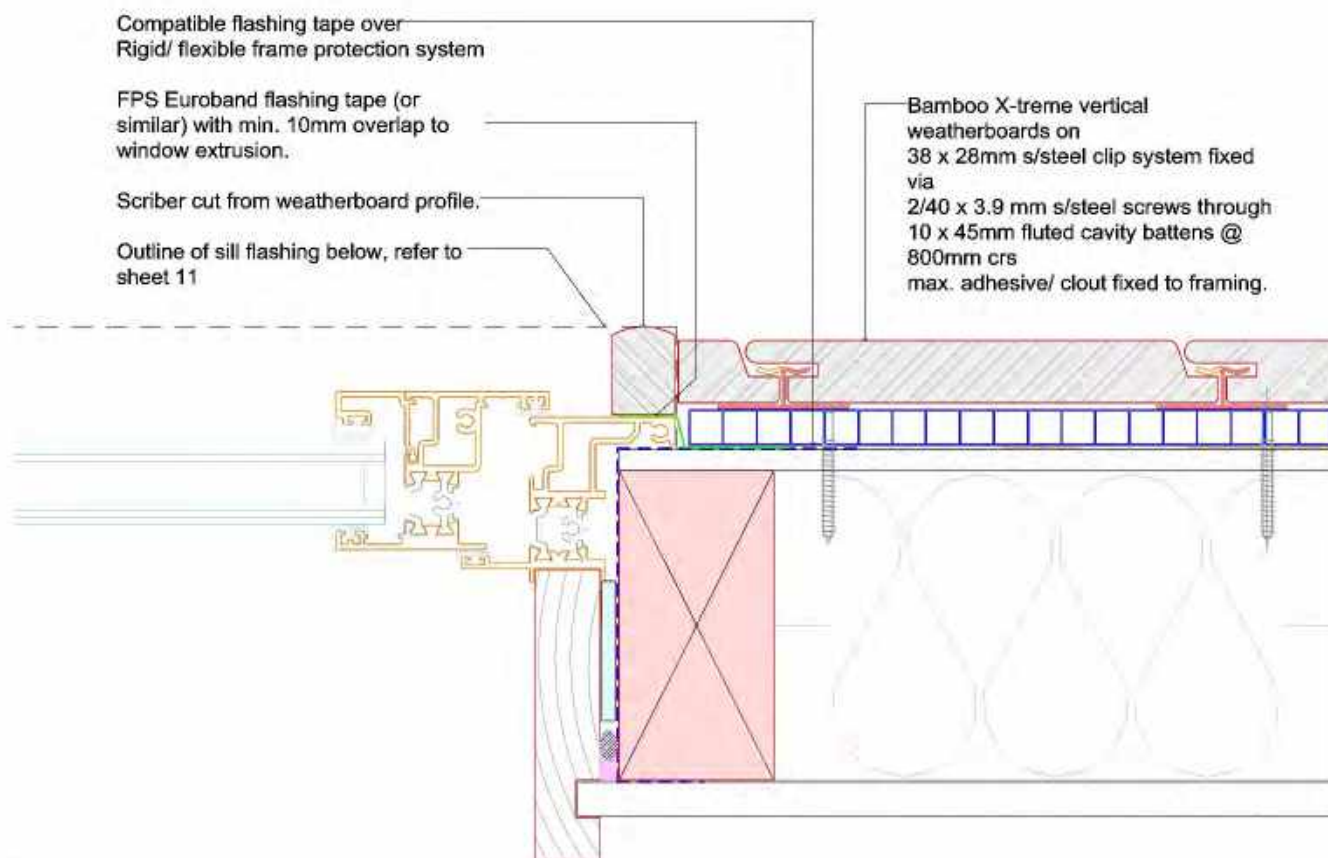


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Window Jamb



NOTE

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Window Sill

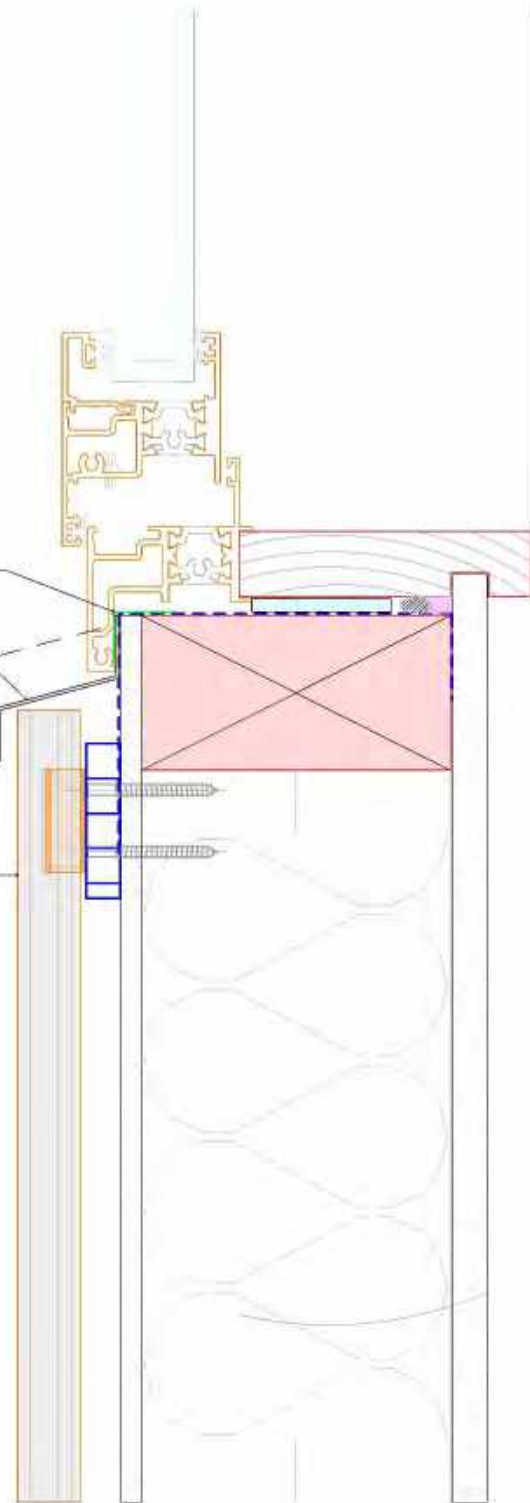
FPS Euroband flashing tape (or similar) with min. 10mm overlap to sill flashing.

1.0mm aluminium sill flashing with upstand at ends.

Compatible flashing tape over Rigid/ flexible frame protection system

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/40 x 3.9 mm s/steel screws through 10 x 45mm fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

18
16
15



NOTE

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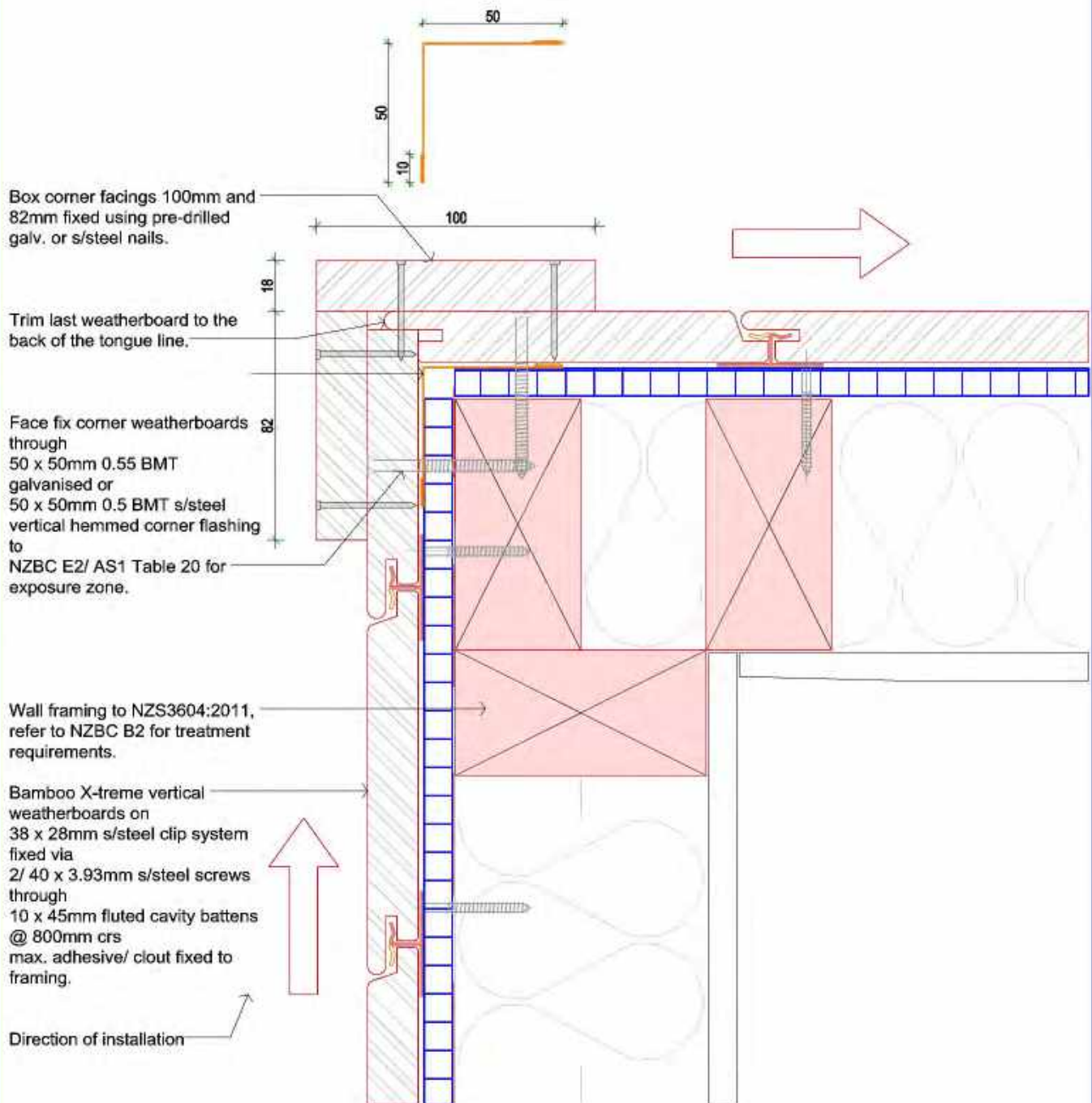
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External Corner - Box Corner



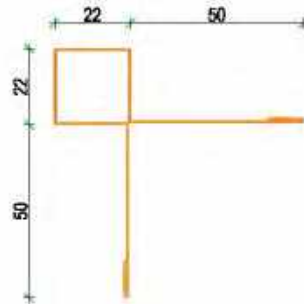
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External Corner - Stainless Steel Corner Detail



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 vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 40 x 3.93mm s/steel screws through 10 x 45mm fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

Direction of installation



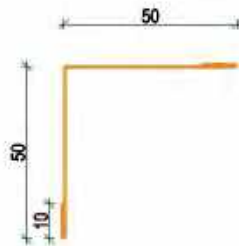
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External Corner - Mitred Corner



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 vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 40 x3.932mm s/steel screws through 10 x 45mm fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

Direction of installation



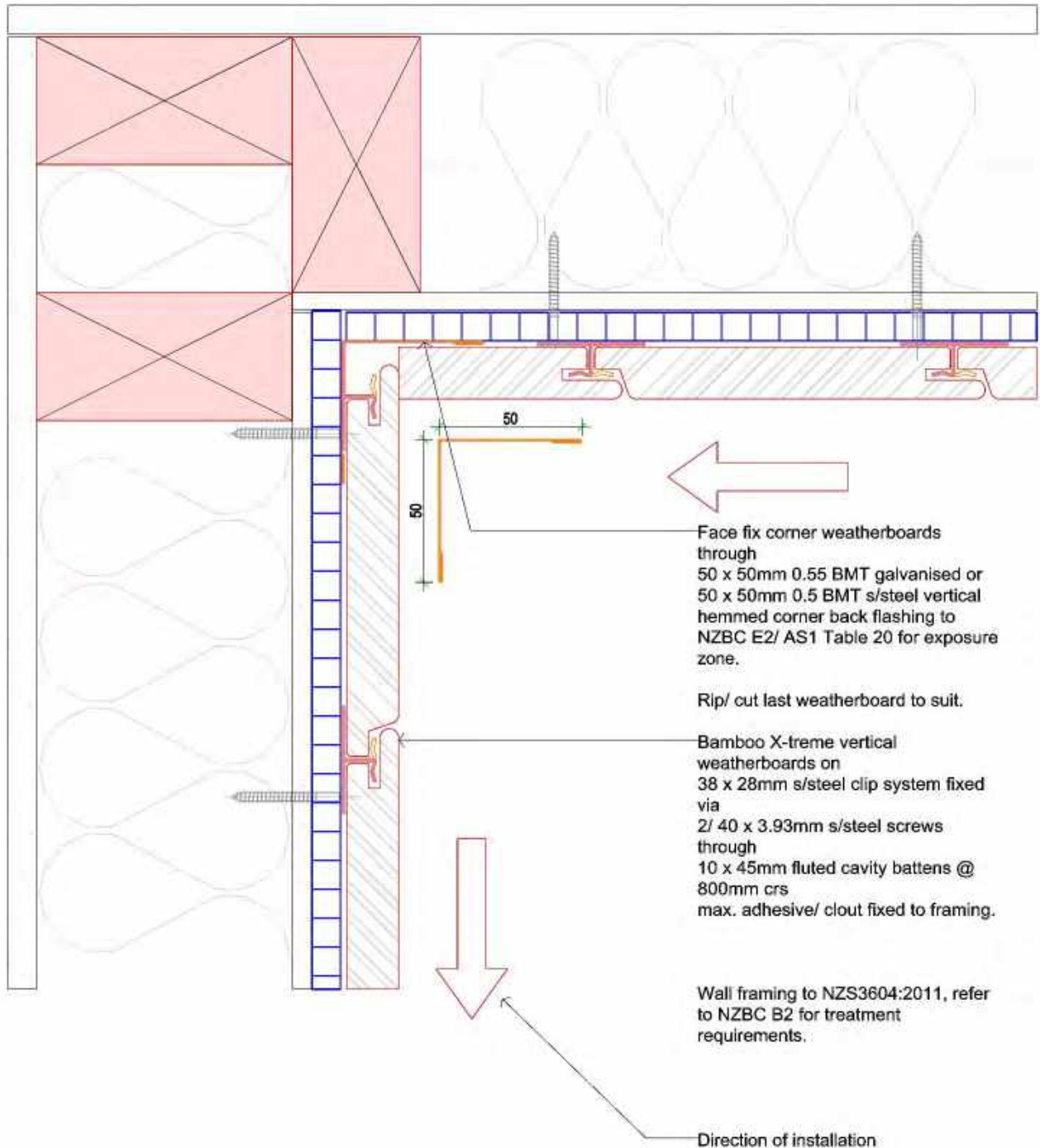
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Internal Corner - Timber Butt Joint



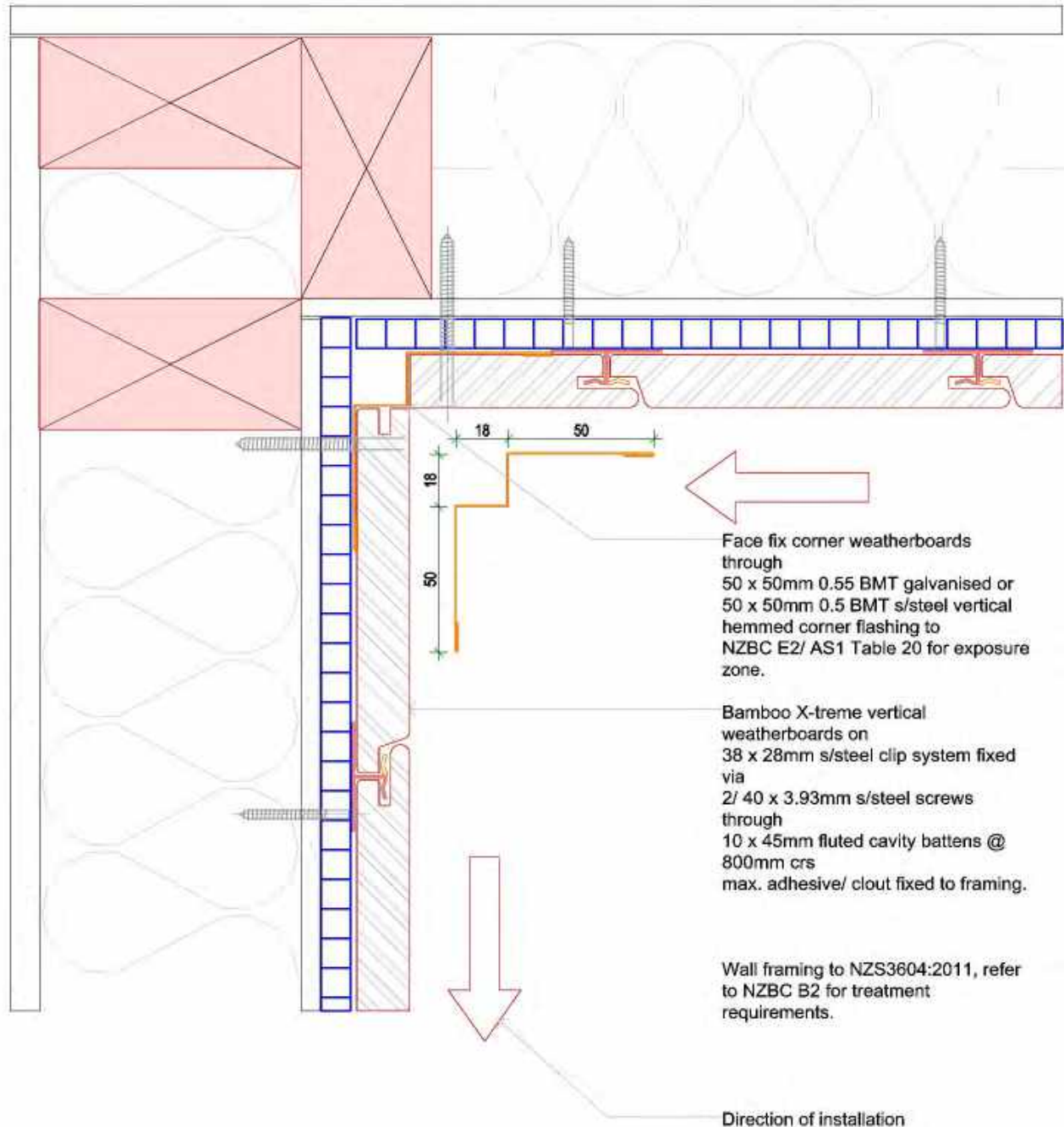
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Internal Corner - Internal Stainless Steel Corner Detail



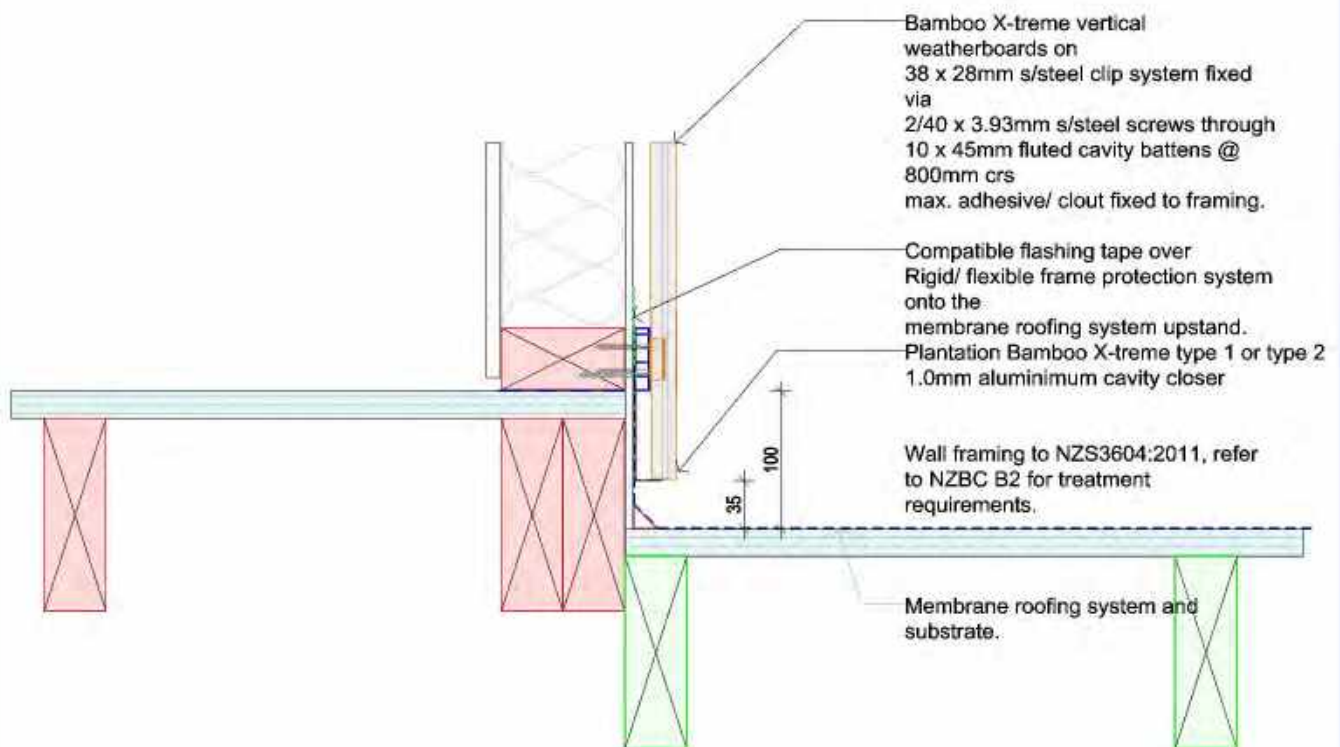
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REVISION
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Cladding Junction to Membrane Roofing Detail



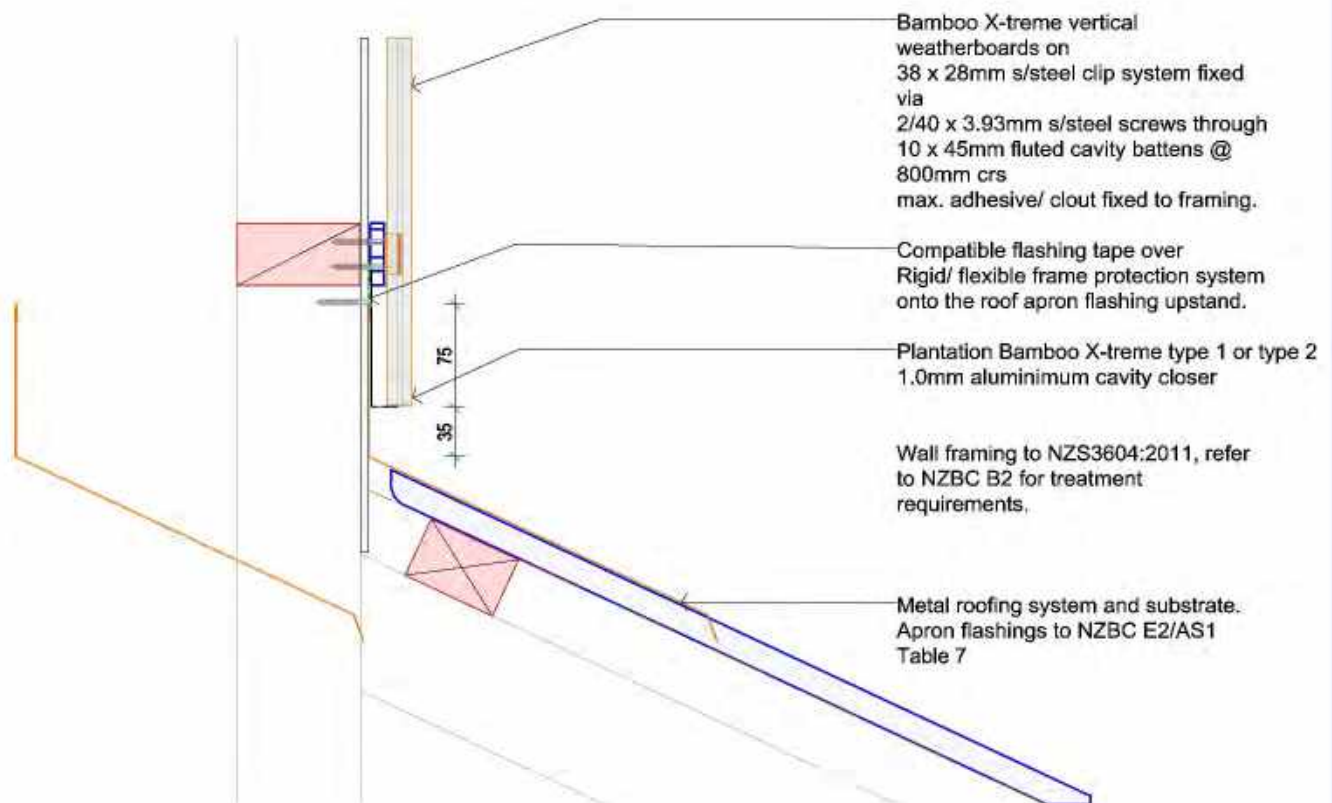
NOTE
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REVISION
V1.6 Appraisal issue

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Cladding Junction to Metal Roofing Apron Detail

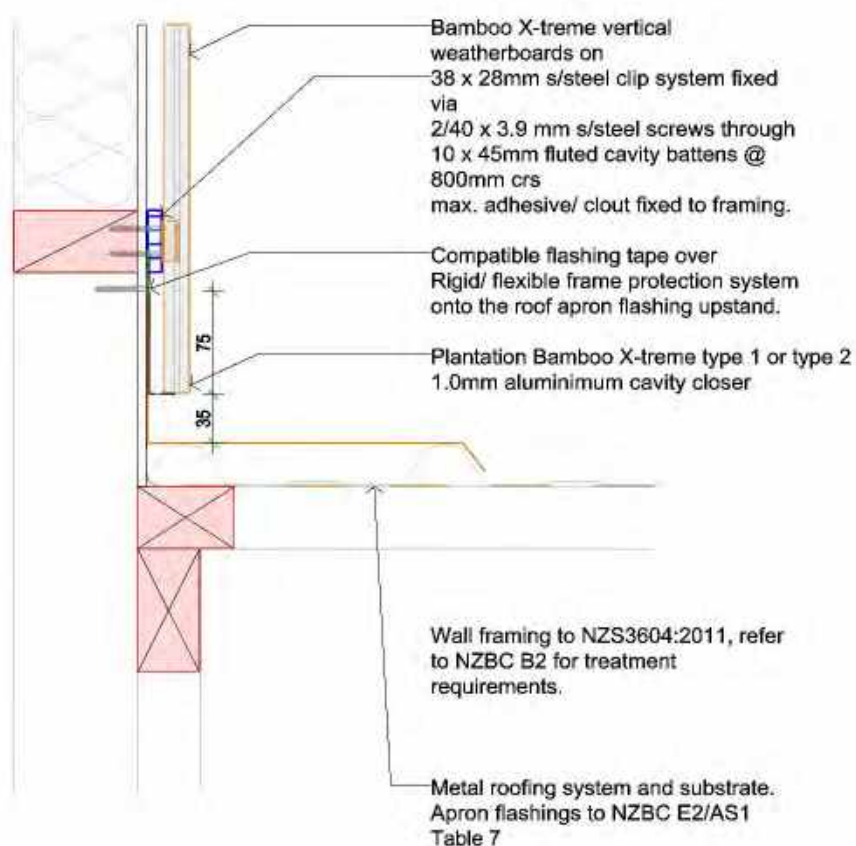


NOTE
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REVISION
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Cladding Junction to Metal Roofing Transverse Apron Detail



NOTE
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REVISION
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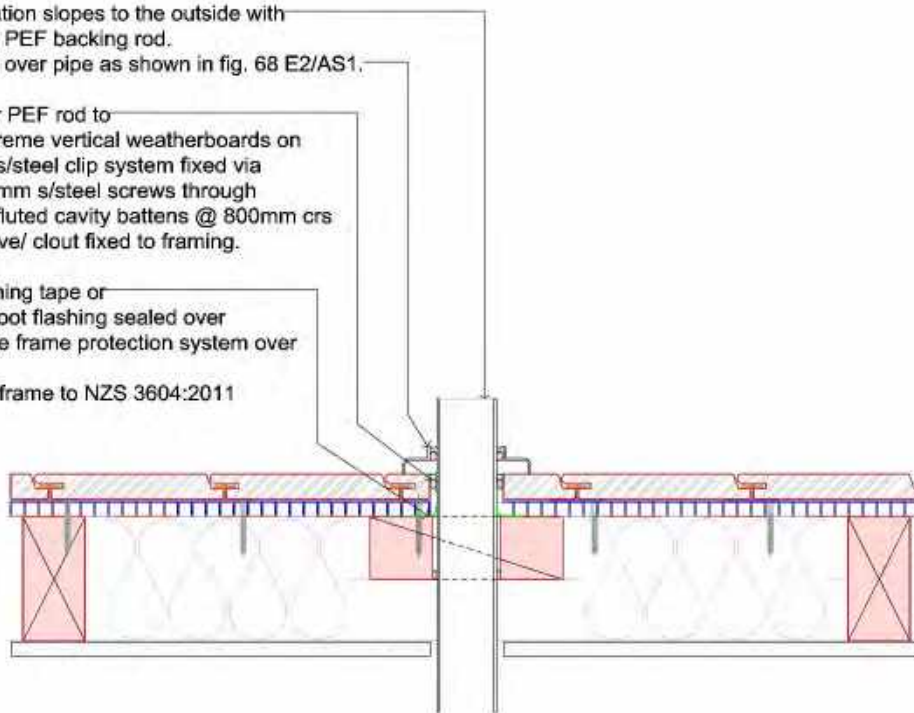
Pipe Penetration External

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/ 40 x 3.93mm s/steel screws through
10 x 45mm fluted cavity battens @ 800mm 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

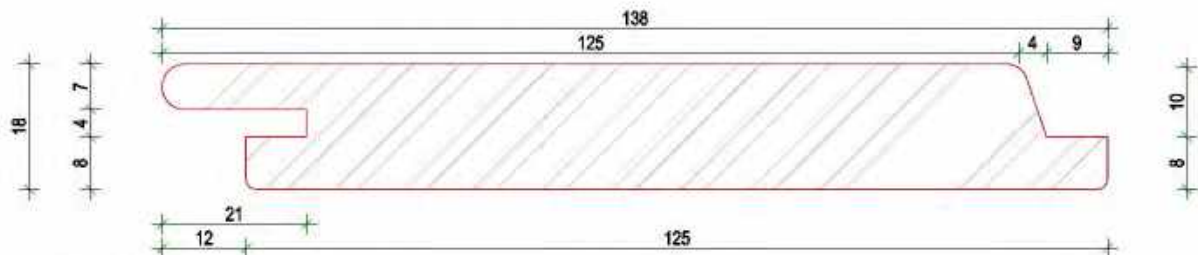


NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

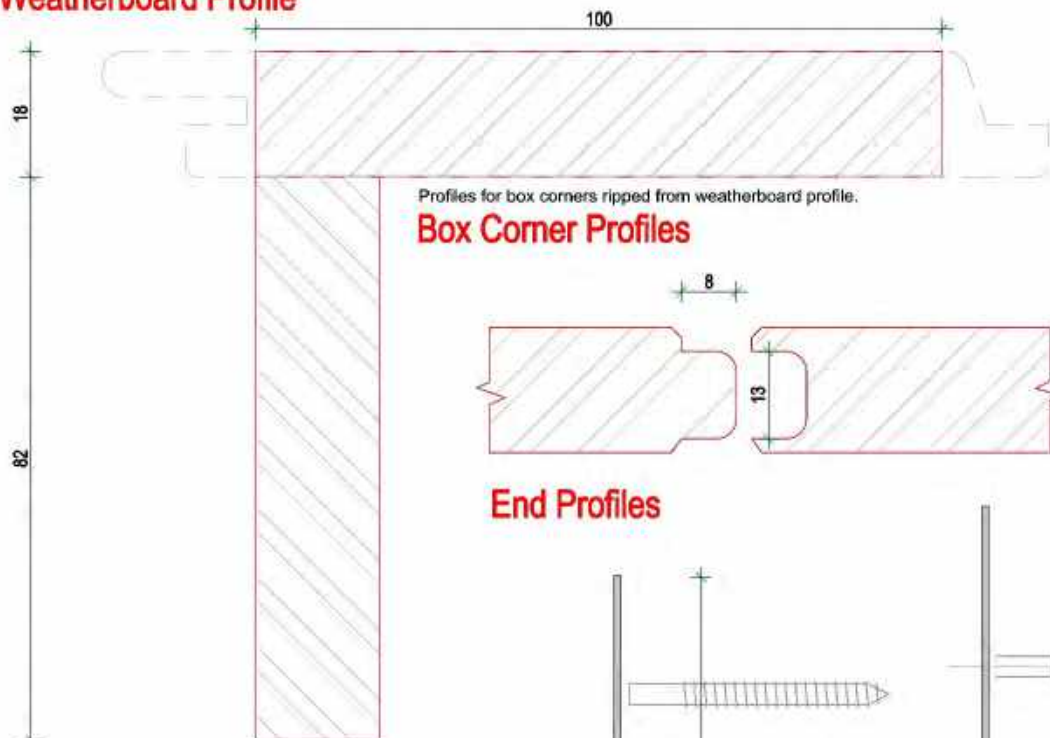
REVISION
V1.6 Appraisal issue

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System Components

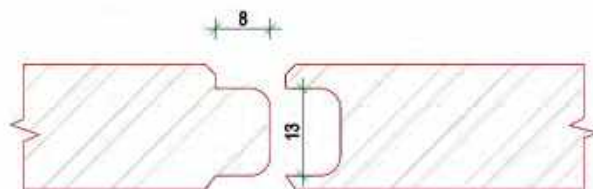


Weatherboard Profile



Profiles for box corners ripped from weatherboard profile.

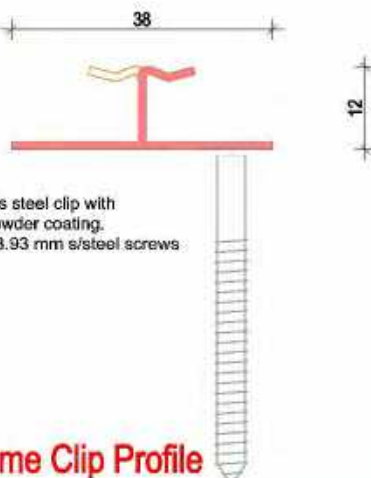
Box Corner Profiles



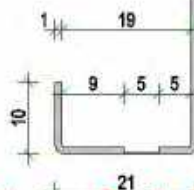
End Profiles

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

X-treme Clip Profile

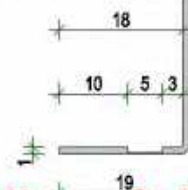


X-treme Cavity Closer 3



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

X-treme Cavity Closer 4



NOTE
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REVISION
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Wall Framing Layout for Horizontal Installation

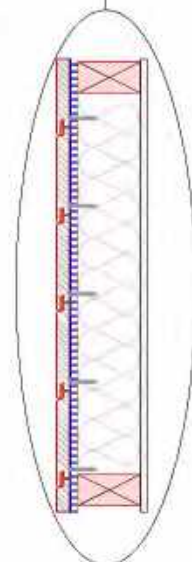


Wall framing set out to NZS3604:2011 requirements with min. 90 x 45 studs @ max. 600mm crs. and nogs/ dwangs @ 800mm crs vertically.

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.

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



Vertical Section



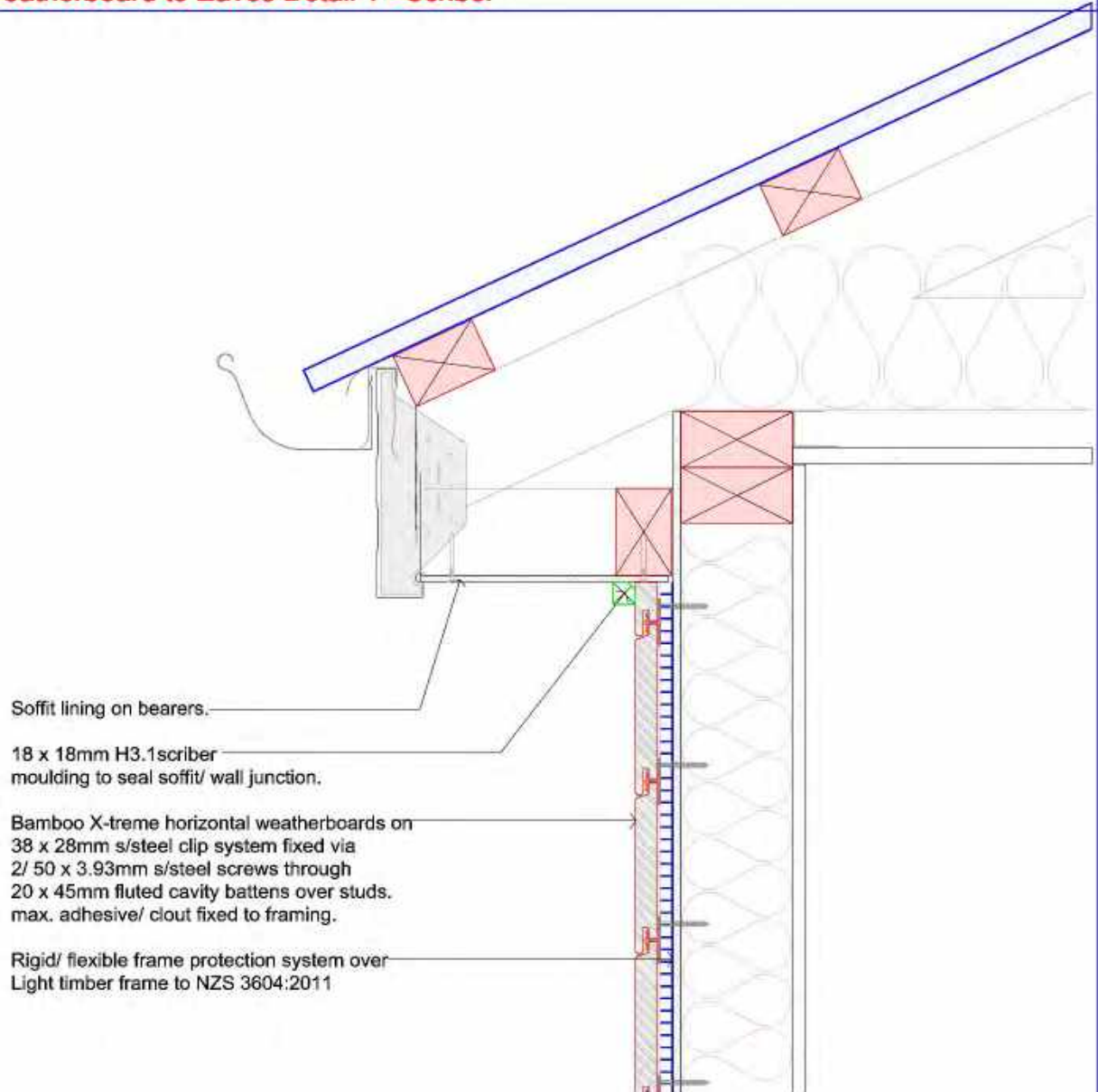
NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

REVISION
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Weatherboard to Eaves Detail 1 - Scribe



Soffit lining on bearers.

18 x 18mm H3.1 scribe
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 fluted cavity battens over studs.
max. adhesive/ clout fixed to framing.

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



NOTE

The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

REVISION

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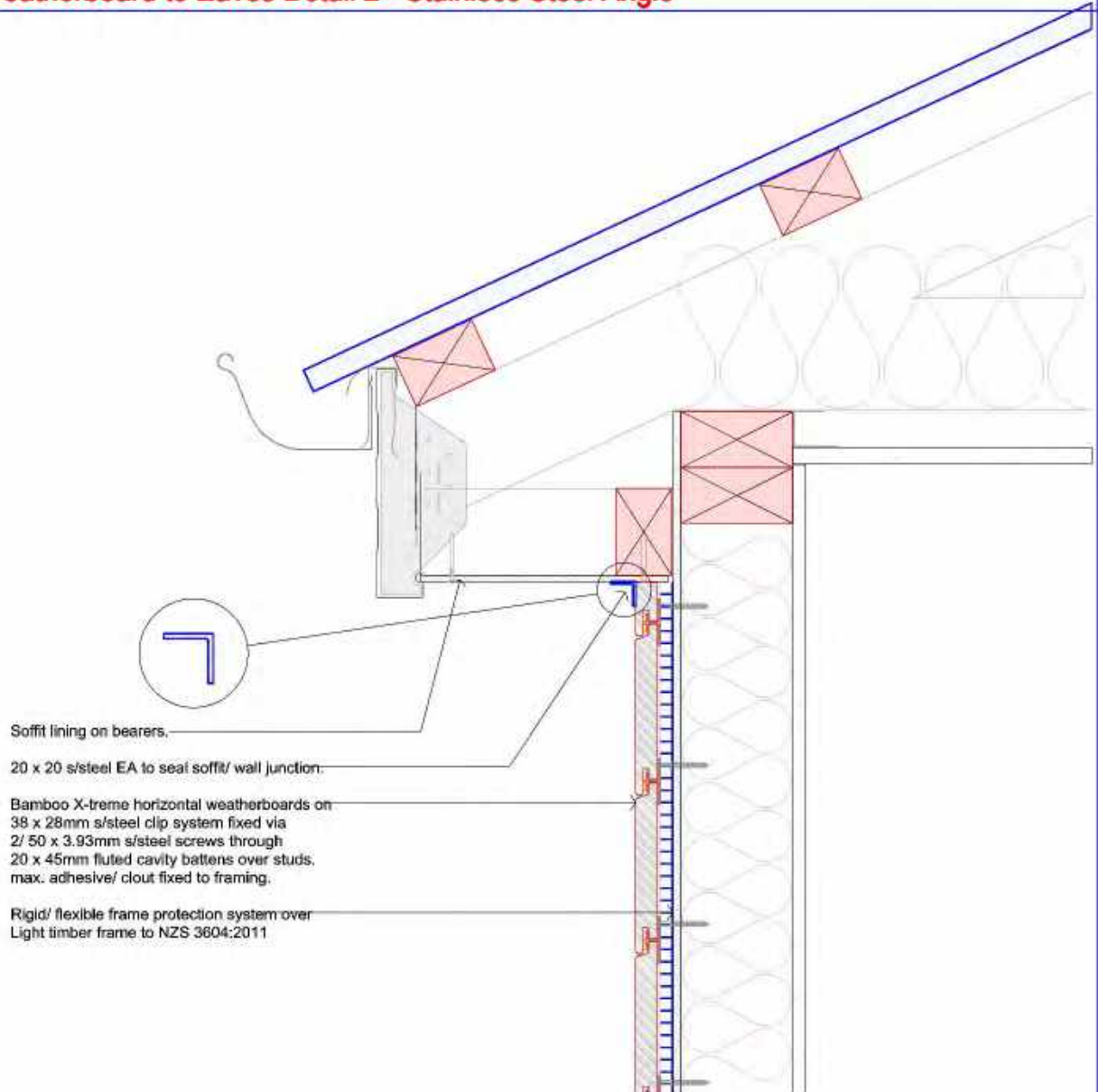
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Weatherboard to Eaves Detail 2 - Stainless Steel Angle



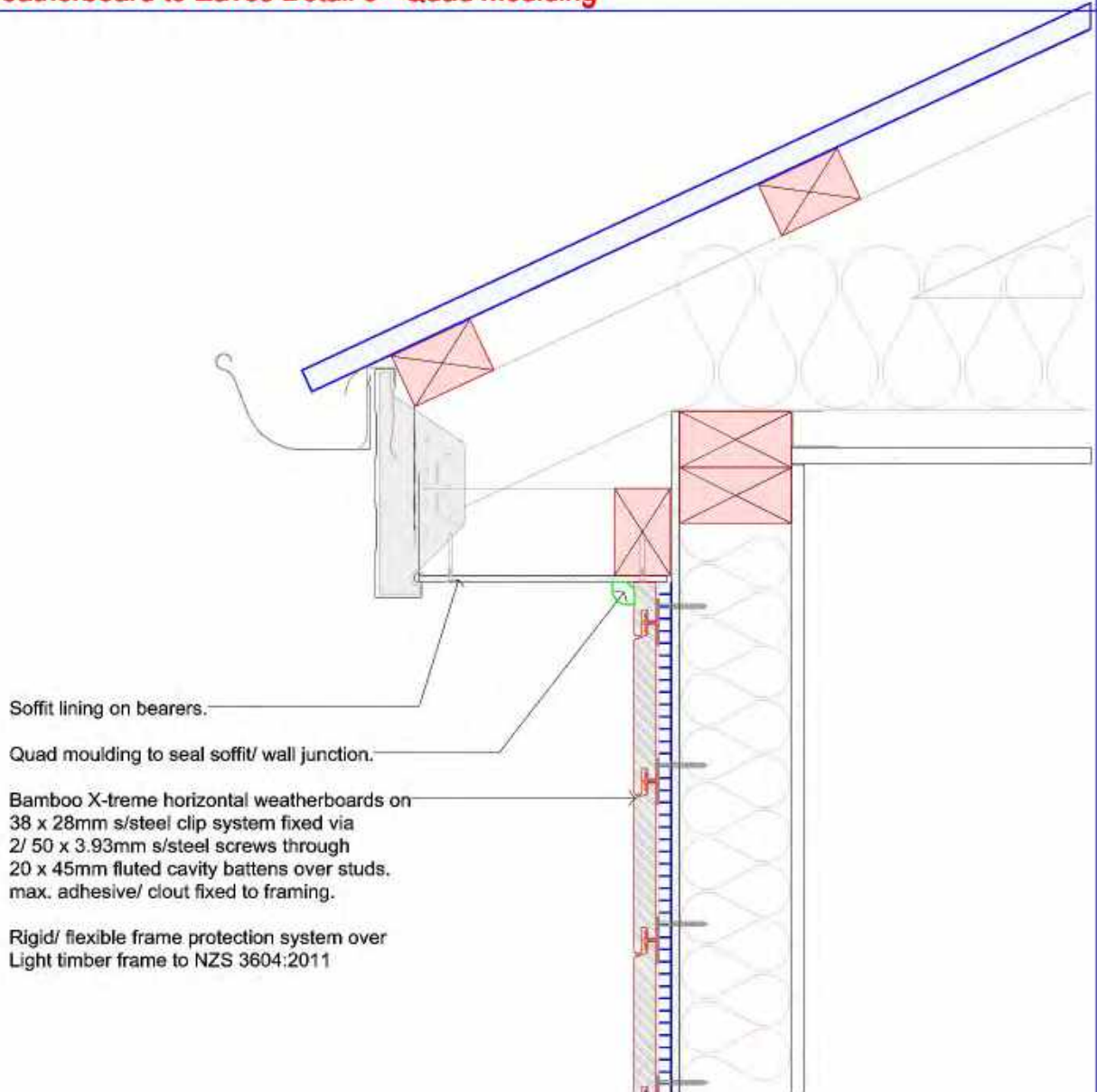
NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

REVISION
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Weatherboard to Eaves Detail 3 - Quad Moulding



NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

REVISION
V1.6 Appraisal issue

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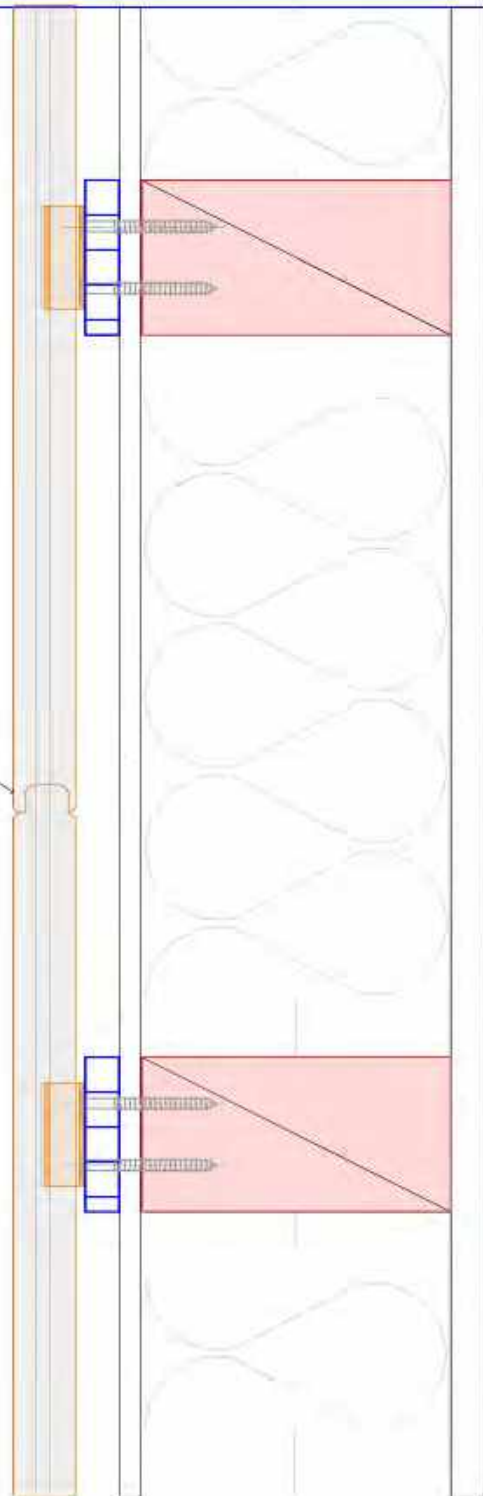
End Lap Joint

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 fluted cavity battens over studs
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

The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

REVISION

V1.6 Appraisal issue

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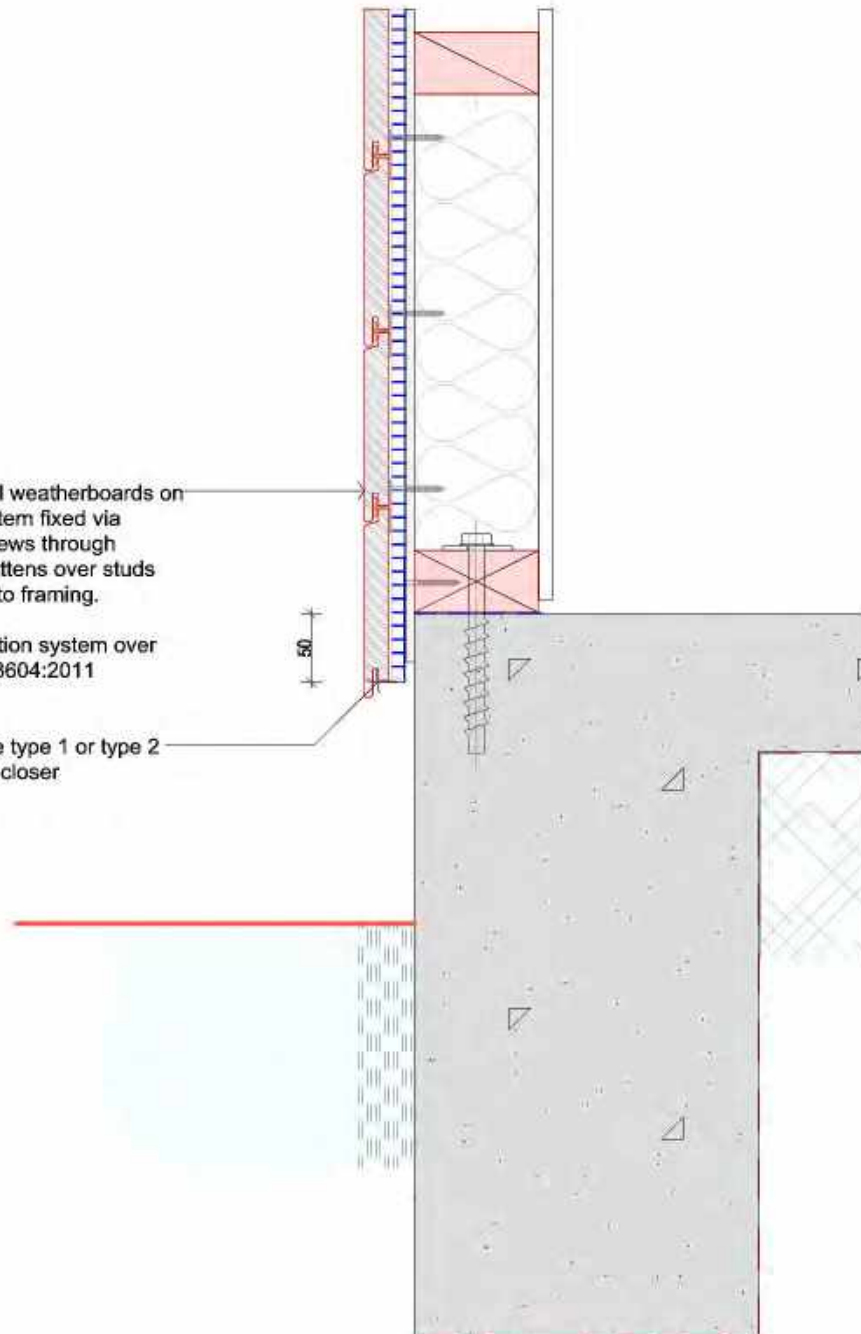
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Cladding Base - Concrete Slab

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 fluted cavity battens over studs
max. adhesive/ clout fixed to framing.

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

Plantation Bamboo X-treme type 1 or type 2
1.0mm aluminium cavity closer



NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

REVISION
V1.6 Appraisal issue

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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 fluted cavity battens over studs max. adhesive/ clout fixed to framing.

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

Plantation Bamboo X-treme type 1 or type 2 1.0mm aluminium cavity closer

50



NOTE

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REVISION

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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 fluted cavity battens over studs

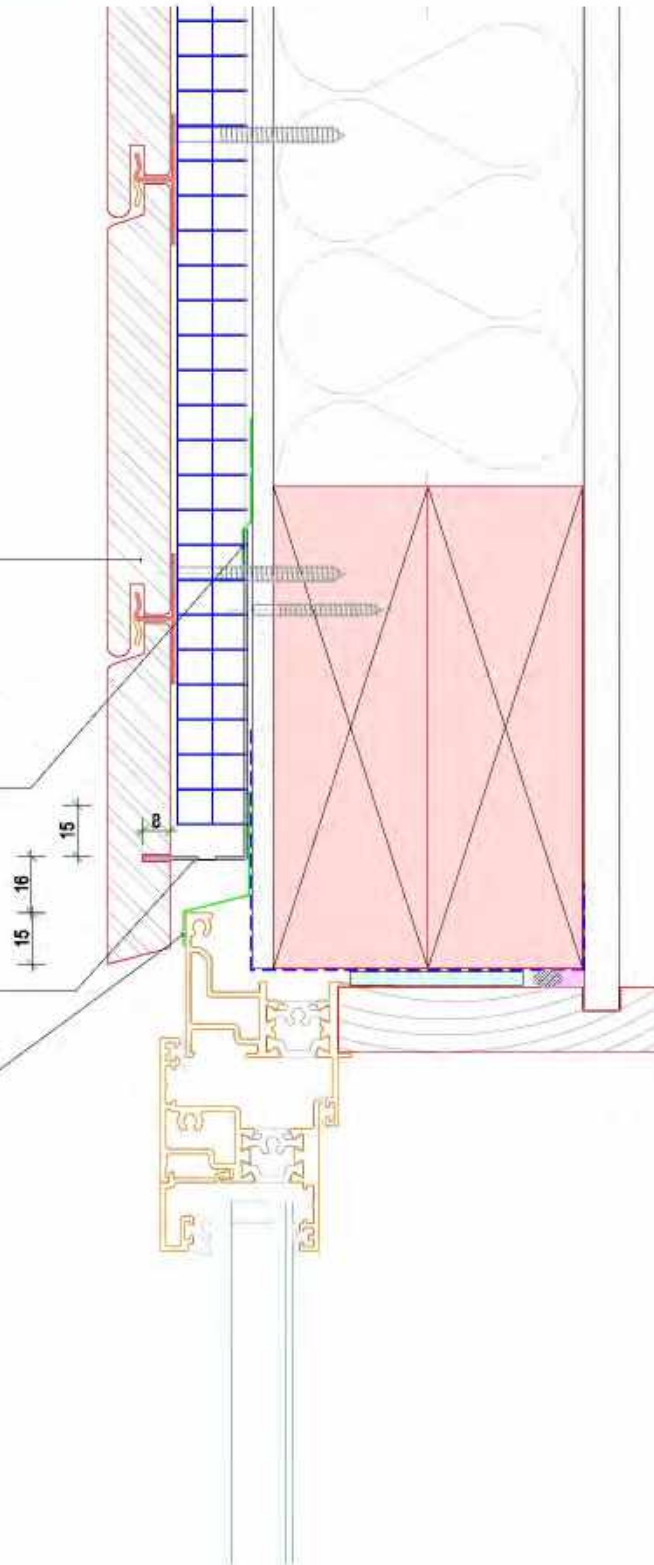
max. adhesive/ clout fixed to framing.

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.

Plantation Bamboo X-treme type 2 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

V1.6 Appraisal issue

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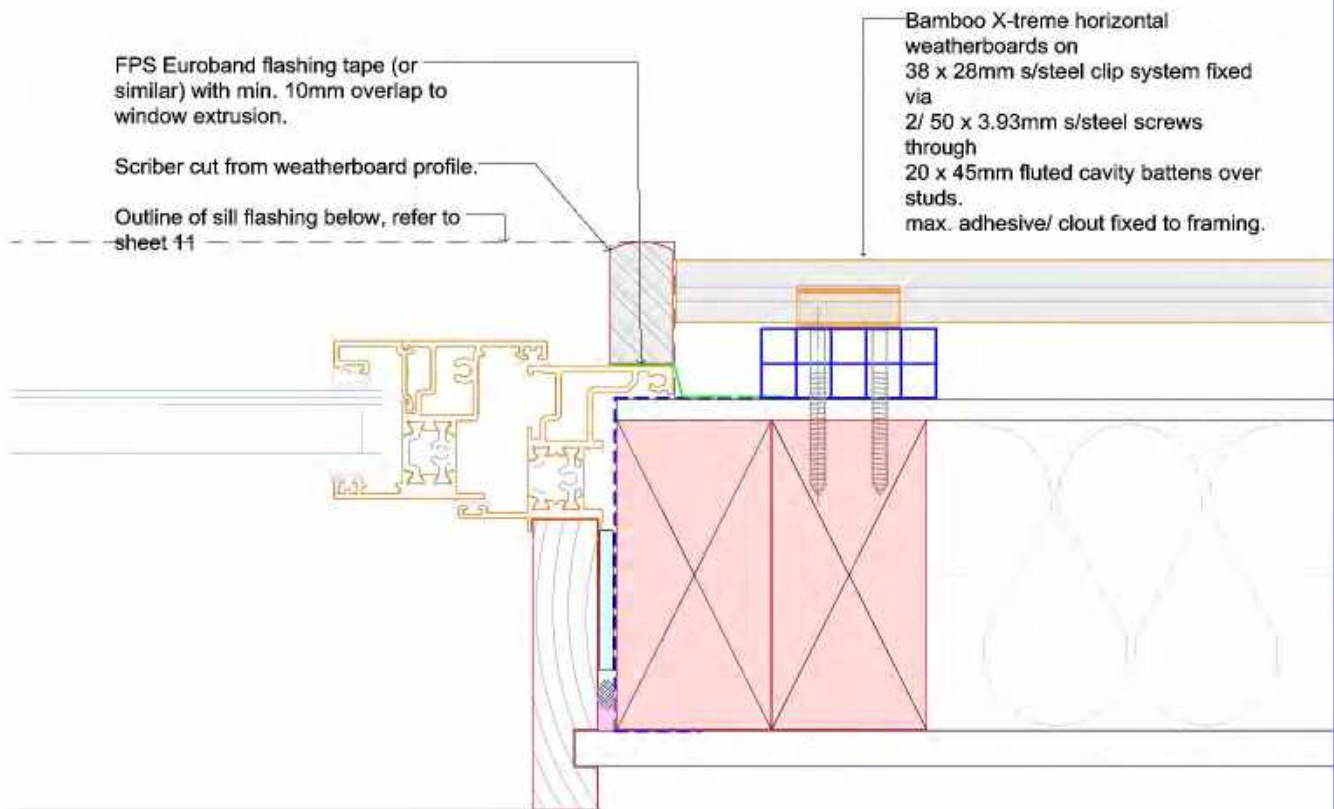
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Window Jamb



NOTE
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REVISION
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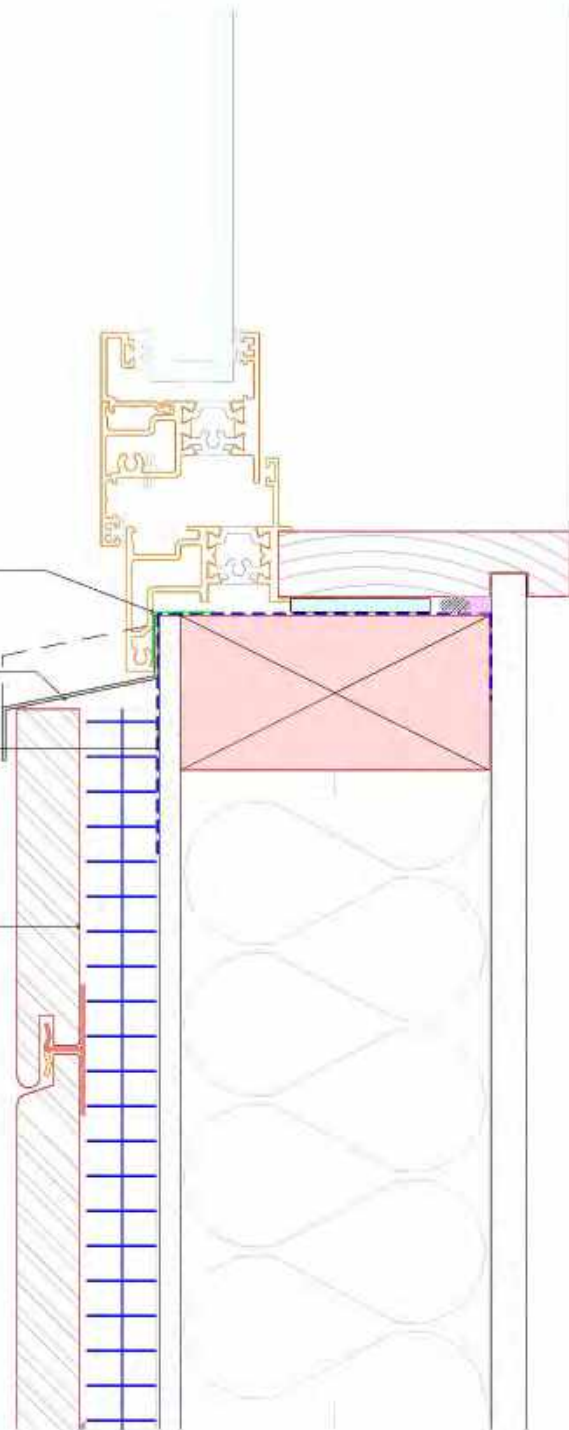
Window Sill

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 2/ 50 x 3.93mm s/steel screws through 20 x 45mm fluted cavity battens over studs adhesive/ clout fixed to framing.



NOTE

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REVISION

V1.6 Appraisal issue

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External Corner - Box Corner

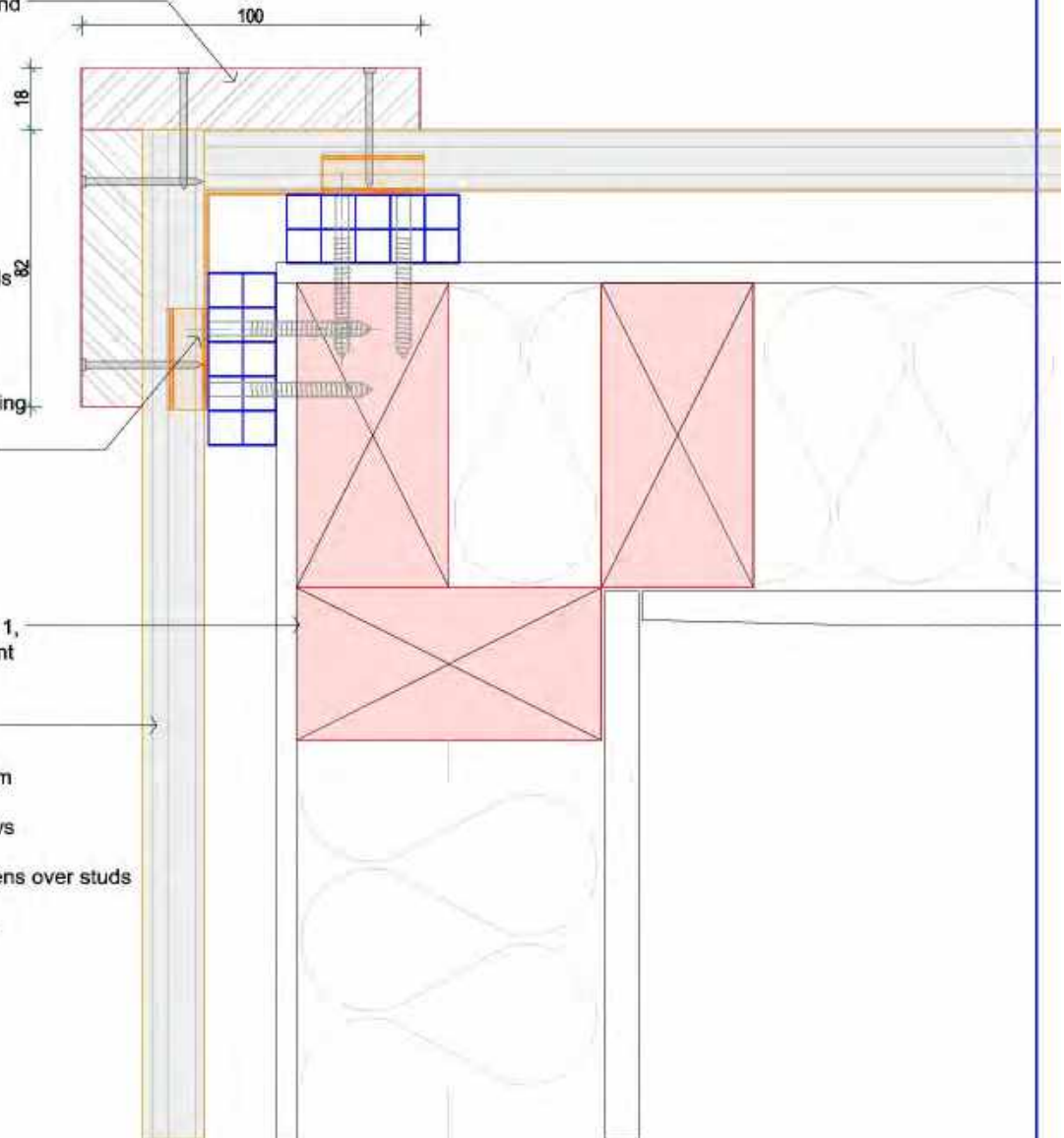
Box corner facings 100mm and 82mm fixed using pre-drilled galv. or s/steel nails.

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 2/ 50 x 3.93mm s/steel screws through 20 x 45mm fluted cavity battens over studs

max. adhesive/ clout fixed to framing.



NOTE
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REVISION
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External Corner - Stainless Steel Corner Detail

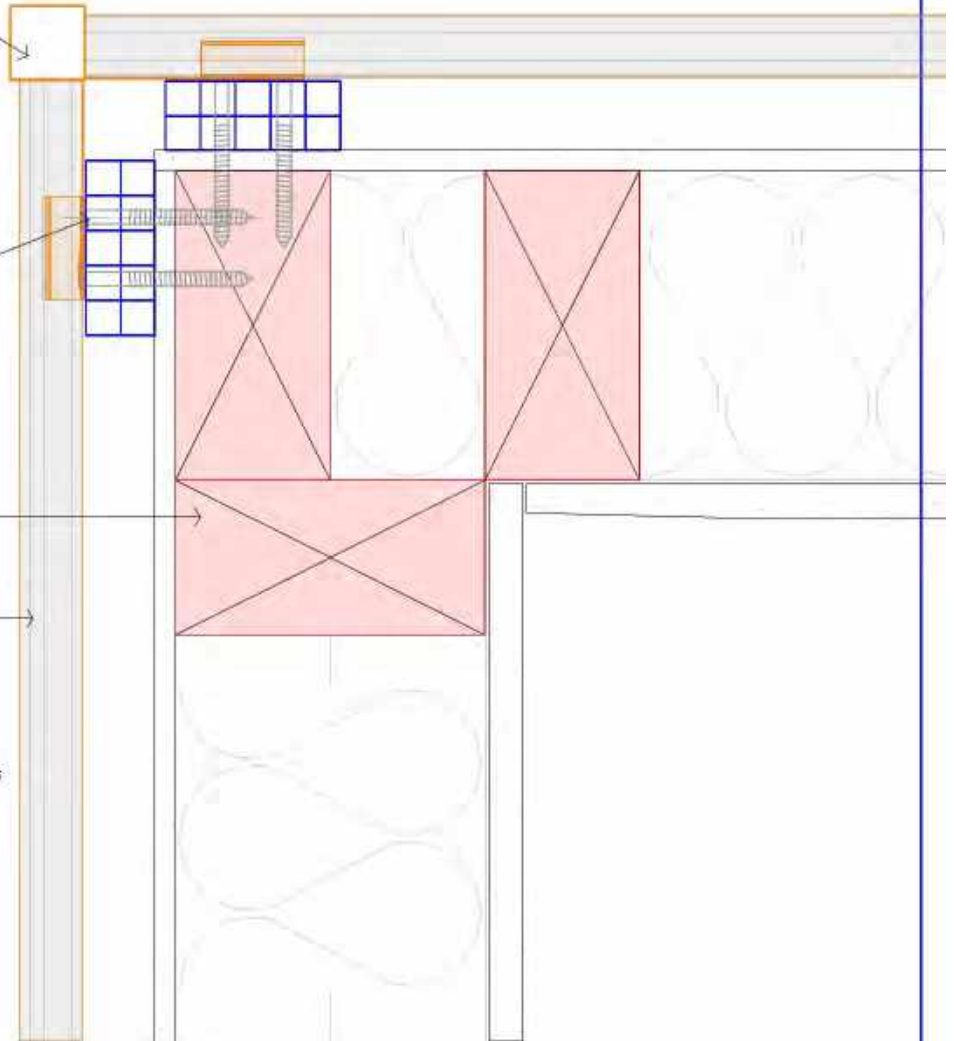
Stainless steel corner flashing to suit.
Rebate the back of the weatherboards as required to sit flush over flashing.

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 2/ 50 x 3.93mm s/steel screws through 20 x 45mm fluted cavity battens over studs

adhesive/ clout fixed to framing.



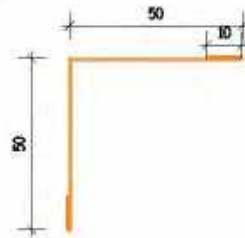
NOTE
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REVISION
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External Corner - Mitred Corner



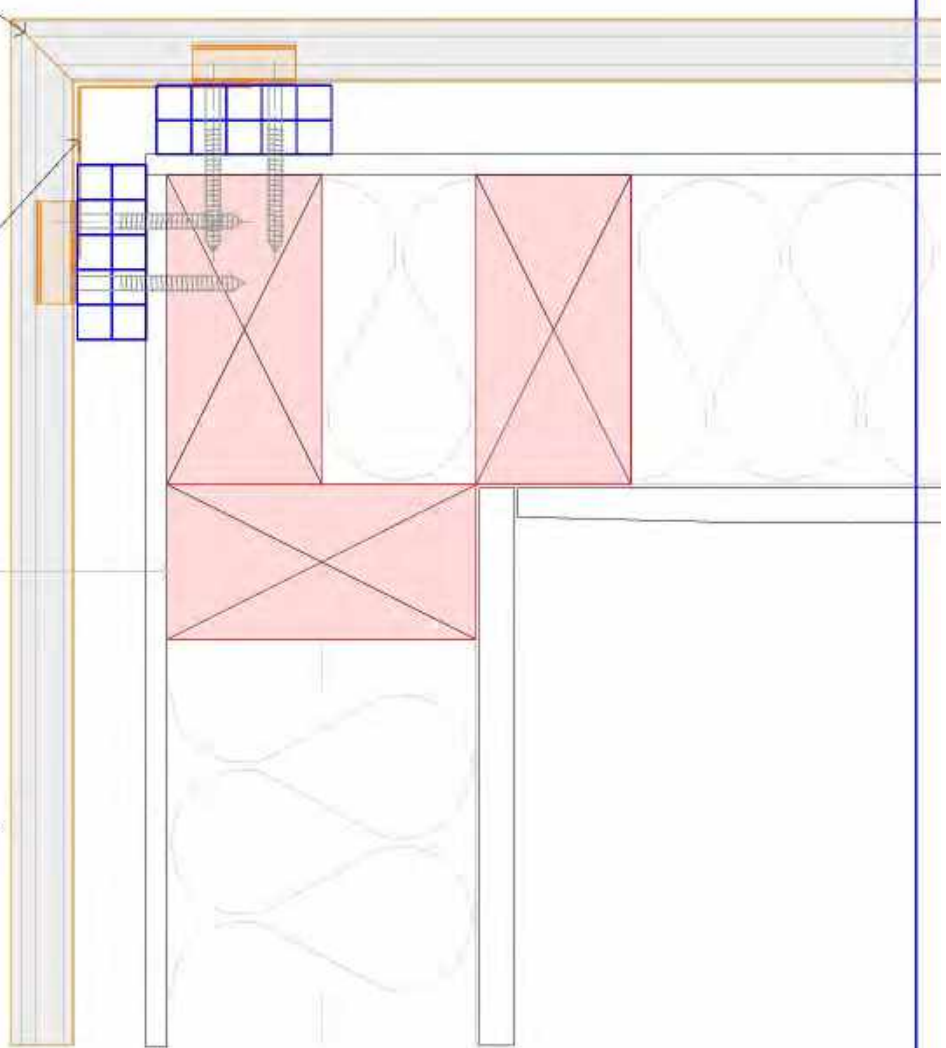
Corner boards mitred, run a continuous bead of construction adhesive between the meeting faces.

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
2/ 50 x 3.93mm s/steel screws
through
20 x 45mm fluted cavity battens over studs

adhesive/ clout fixed to
framing.



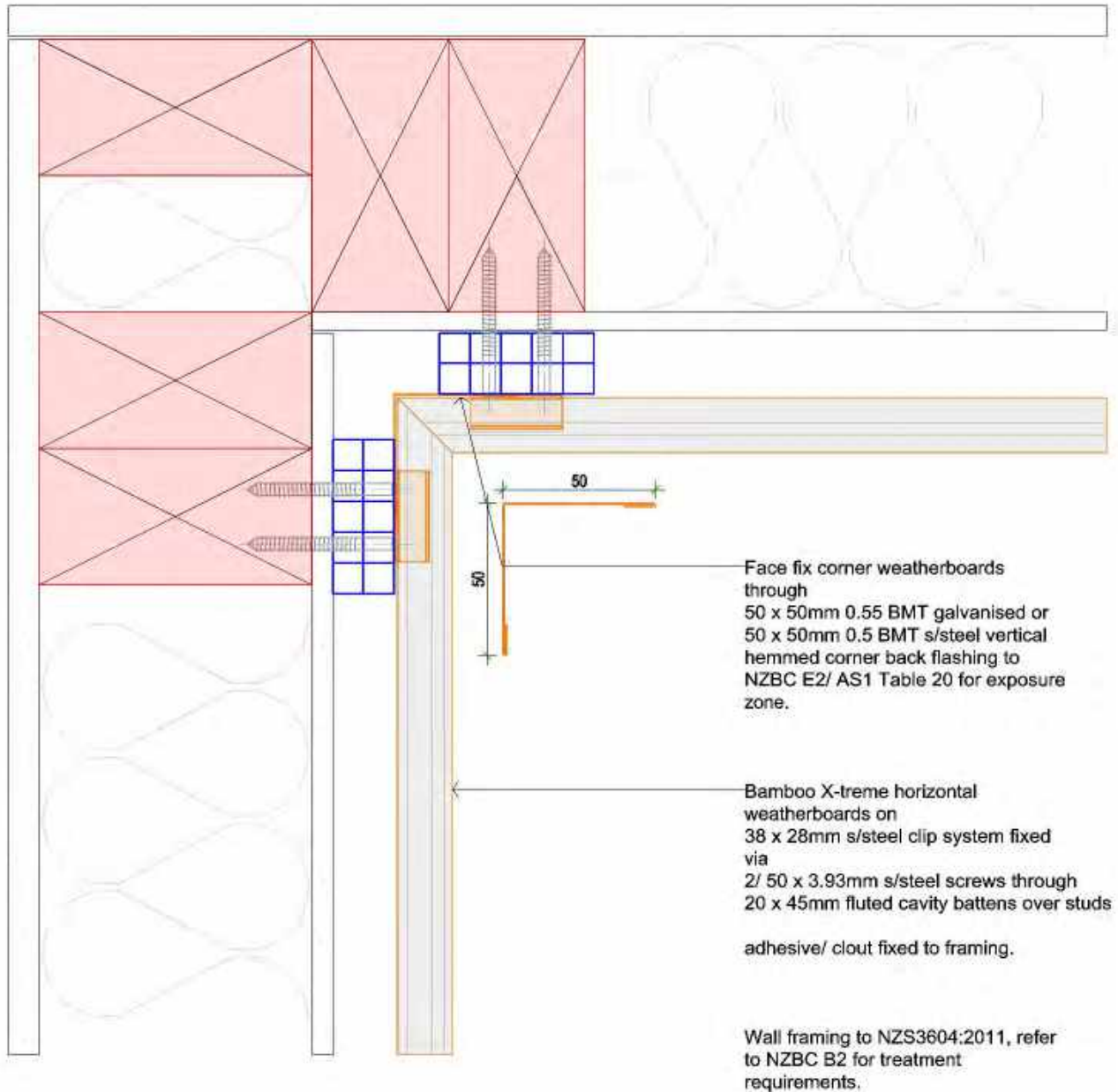
NOTE
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REVISION
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Internal Corner - Timber Butt Joint



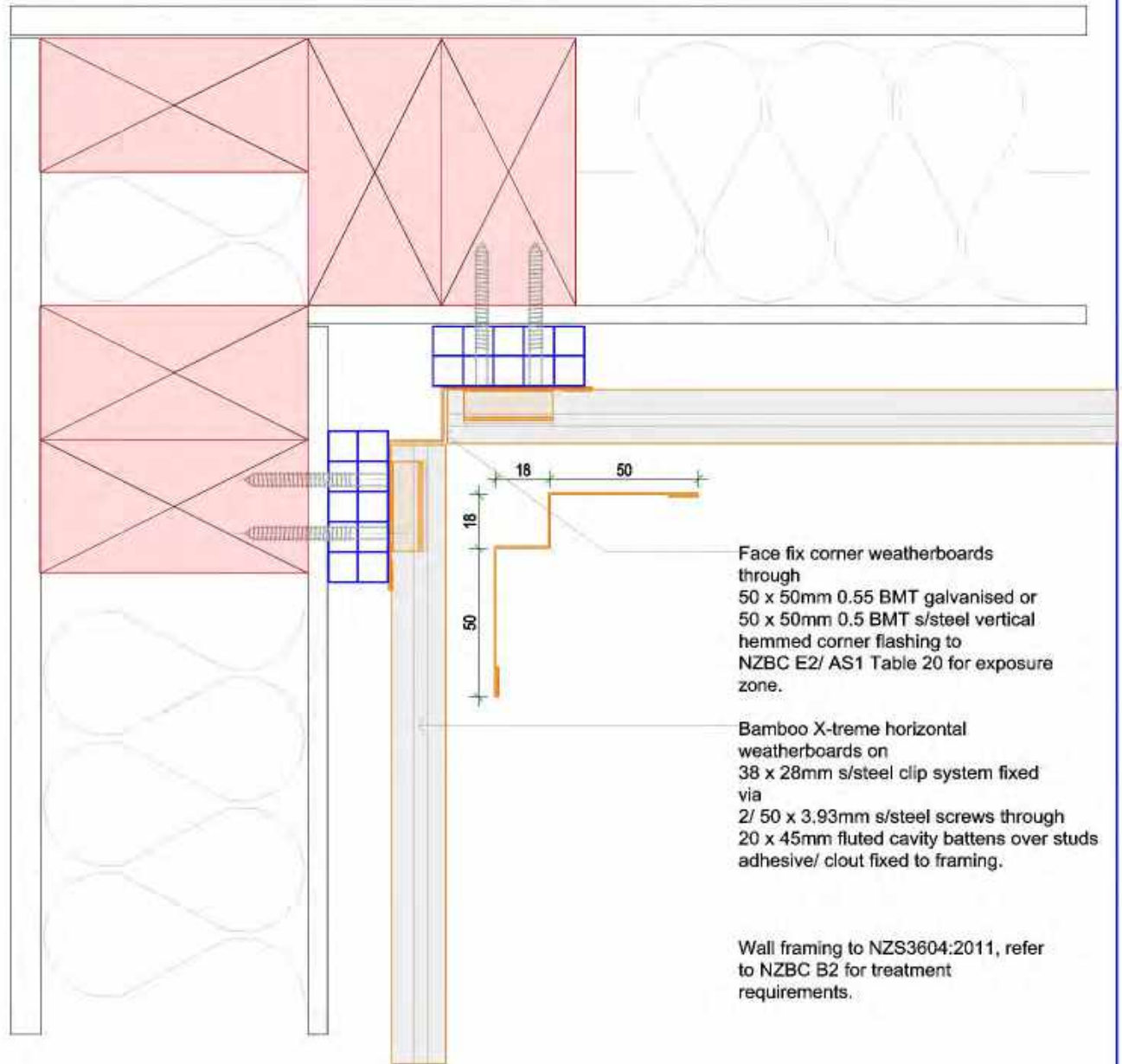
NOTE
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REVISION
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Internal Corner - Internal Stainless Steel Corner Detail



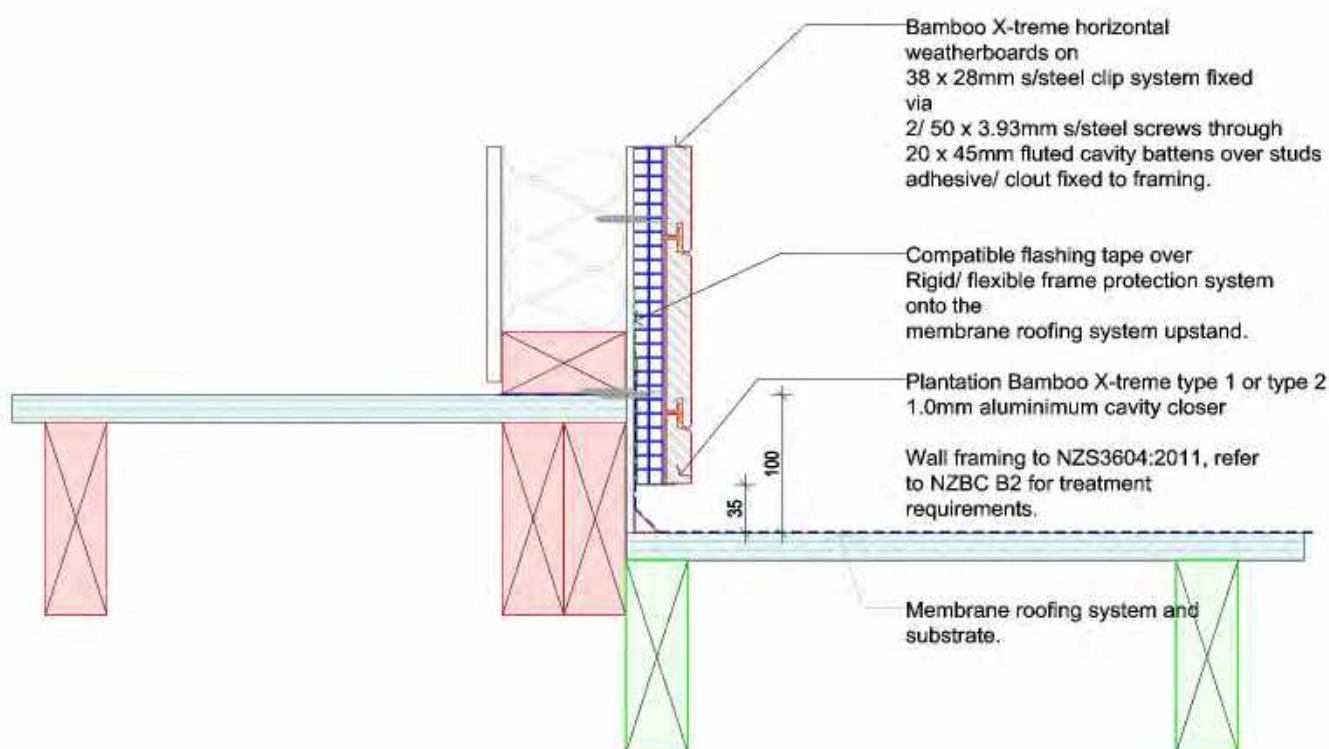
NOTE
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REVISION
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Cladding Junction to Membrane Roofing Detail



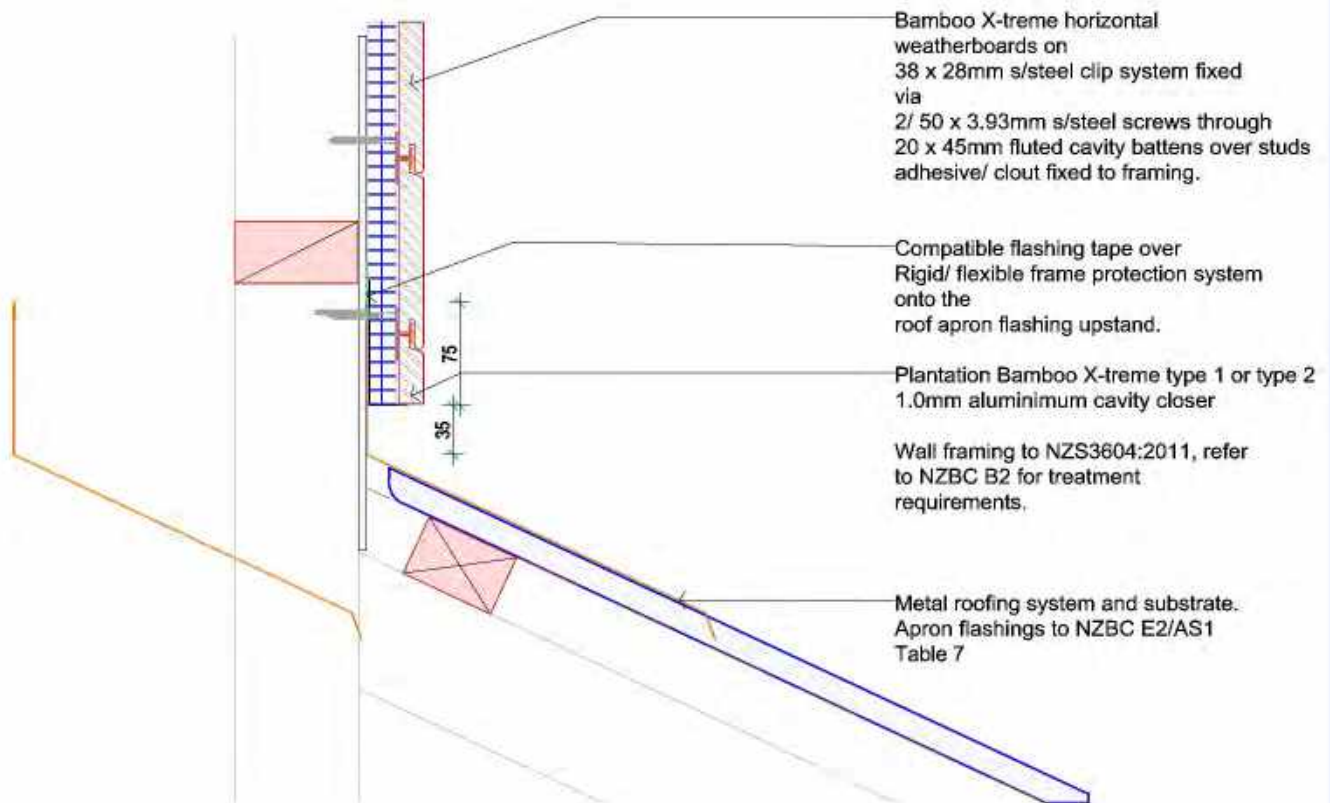
NOTE
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REVISION
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Cladding Junction to Metal Roofing Apron Detail



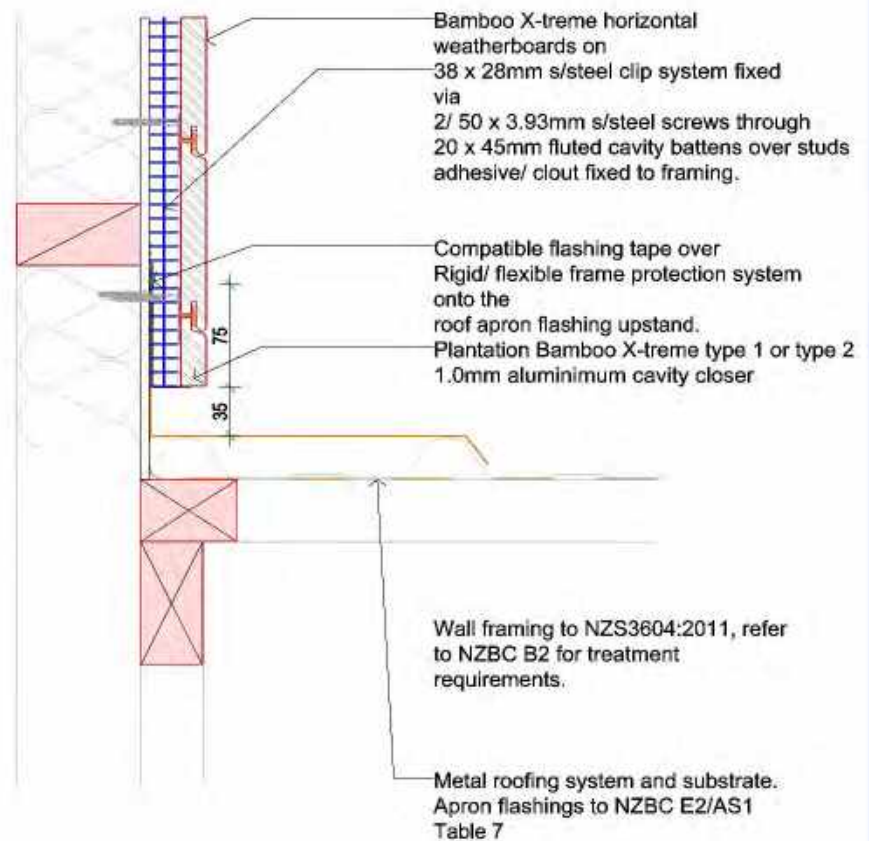
NOTE
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REVISION
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Cladding Junction to Metal Roofing Transverse Apron Detail



NOTE
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REVISION
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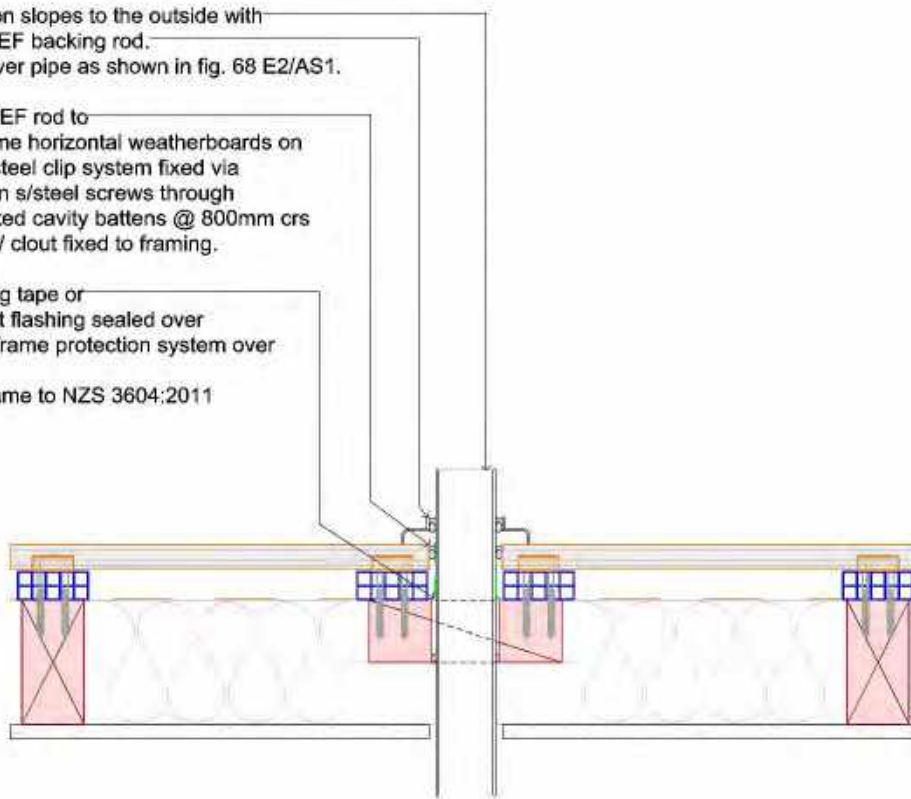
Pipe Penetration External

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 fluted cavity battens @ 800mm 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
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

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V1.6 Appraisal issue

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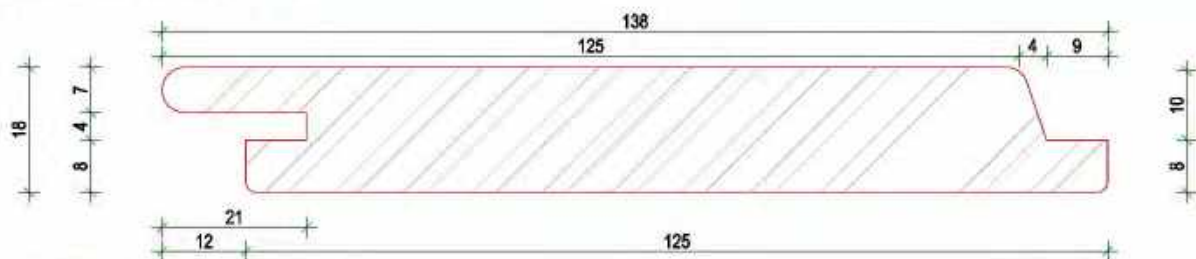
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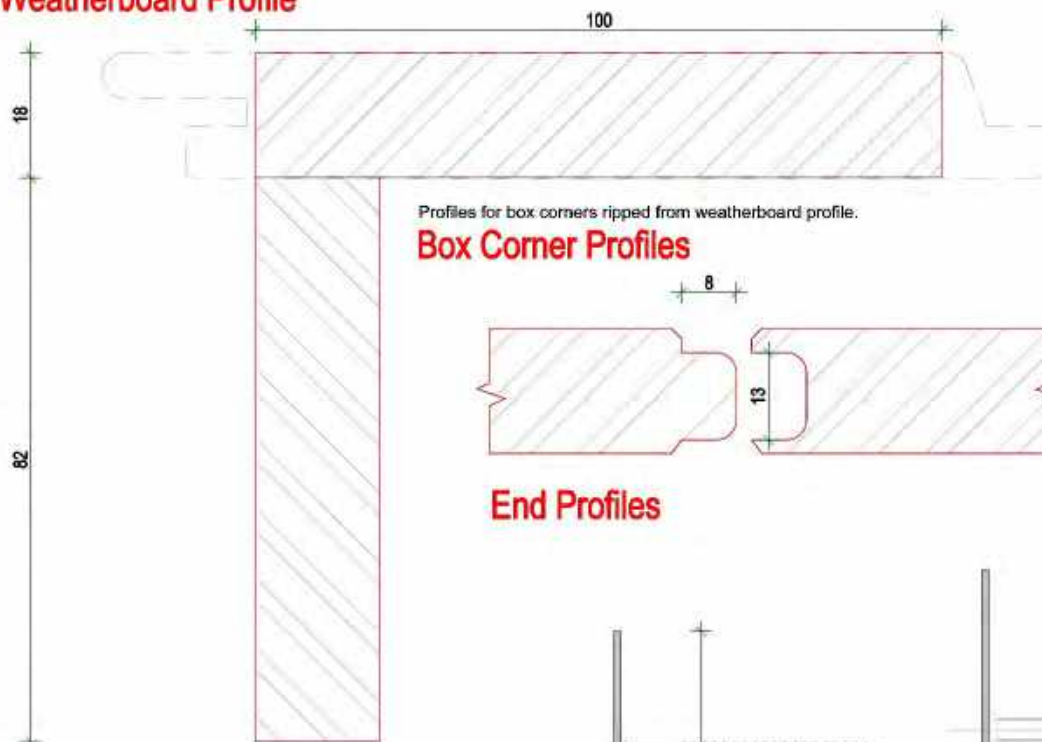
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System Components

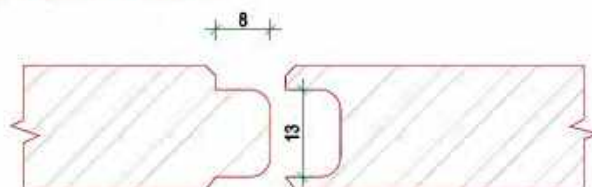


Weatherboard Profile



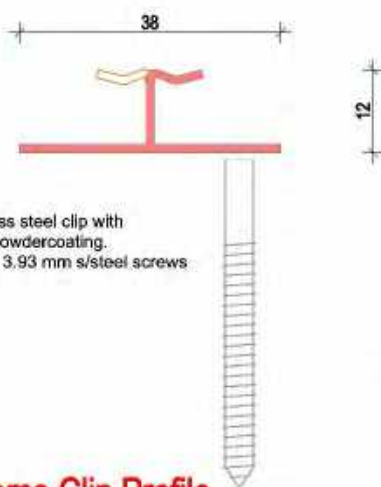
Profiles for box corners ripped from weatherboard profile.

Box Corner Profiles

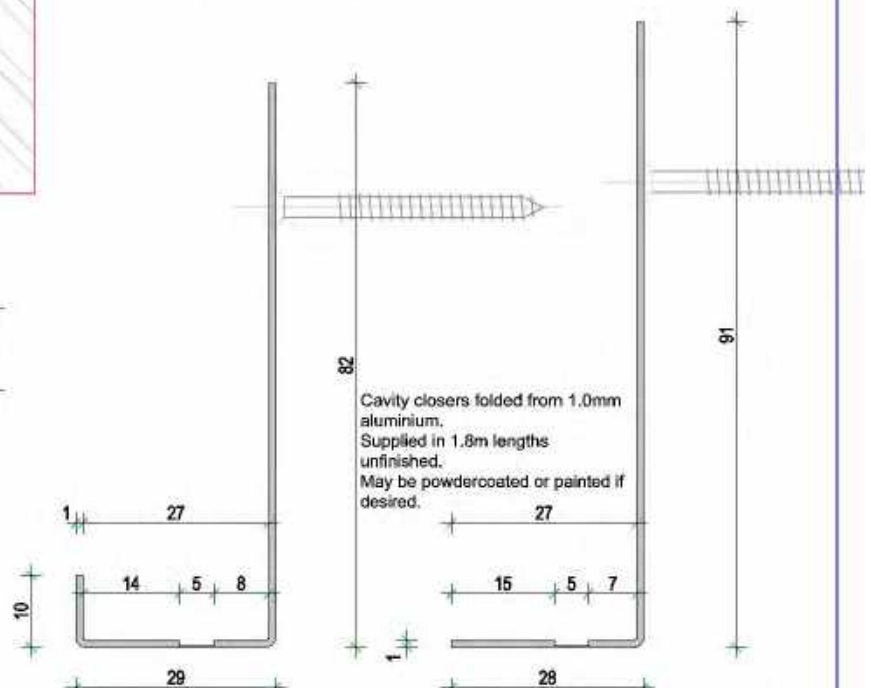


End Profiles

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



X-treme Clip Profile



X-treme Cavity Closer 3

X-treme Cavity Closer 4



NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

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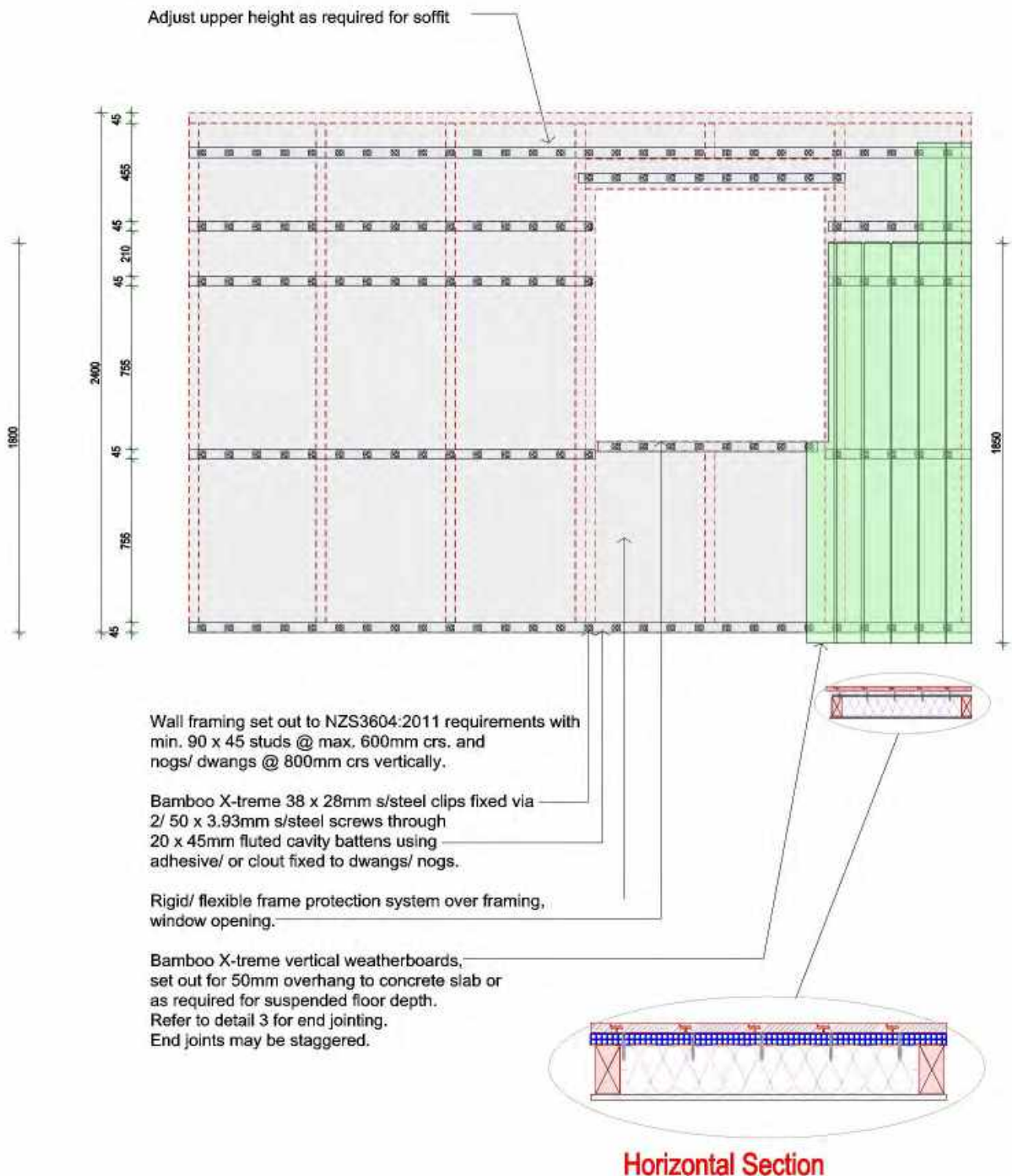
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Wall Framing Layout for Vertical Installation



NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

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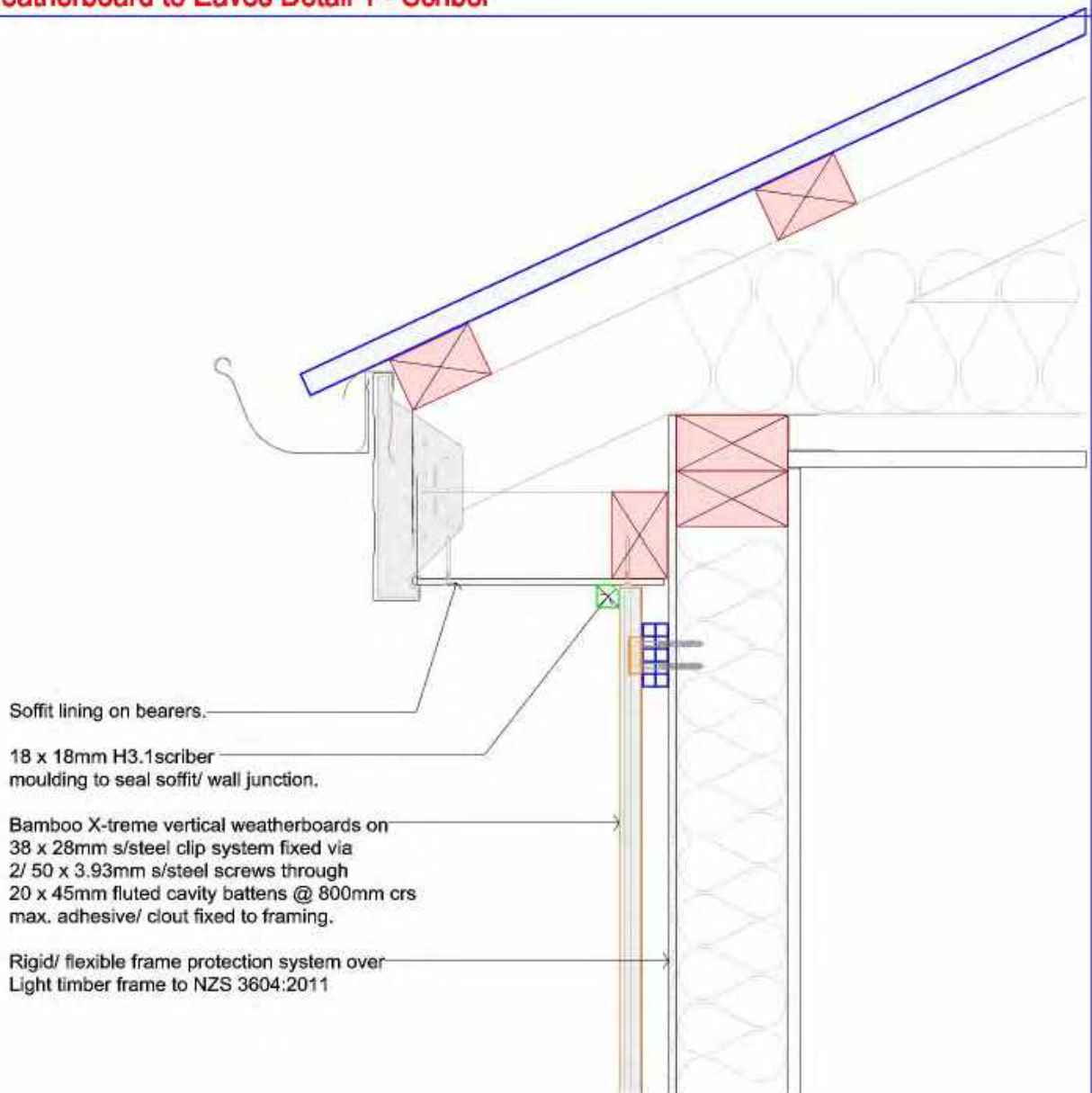
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Weatherboard to Eaves Detail 1 - Scriber



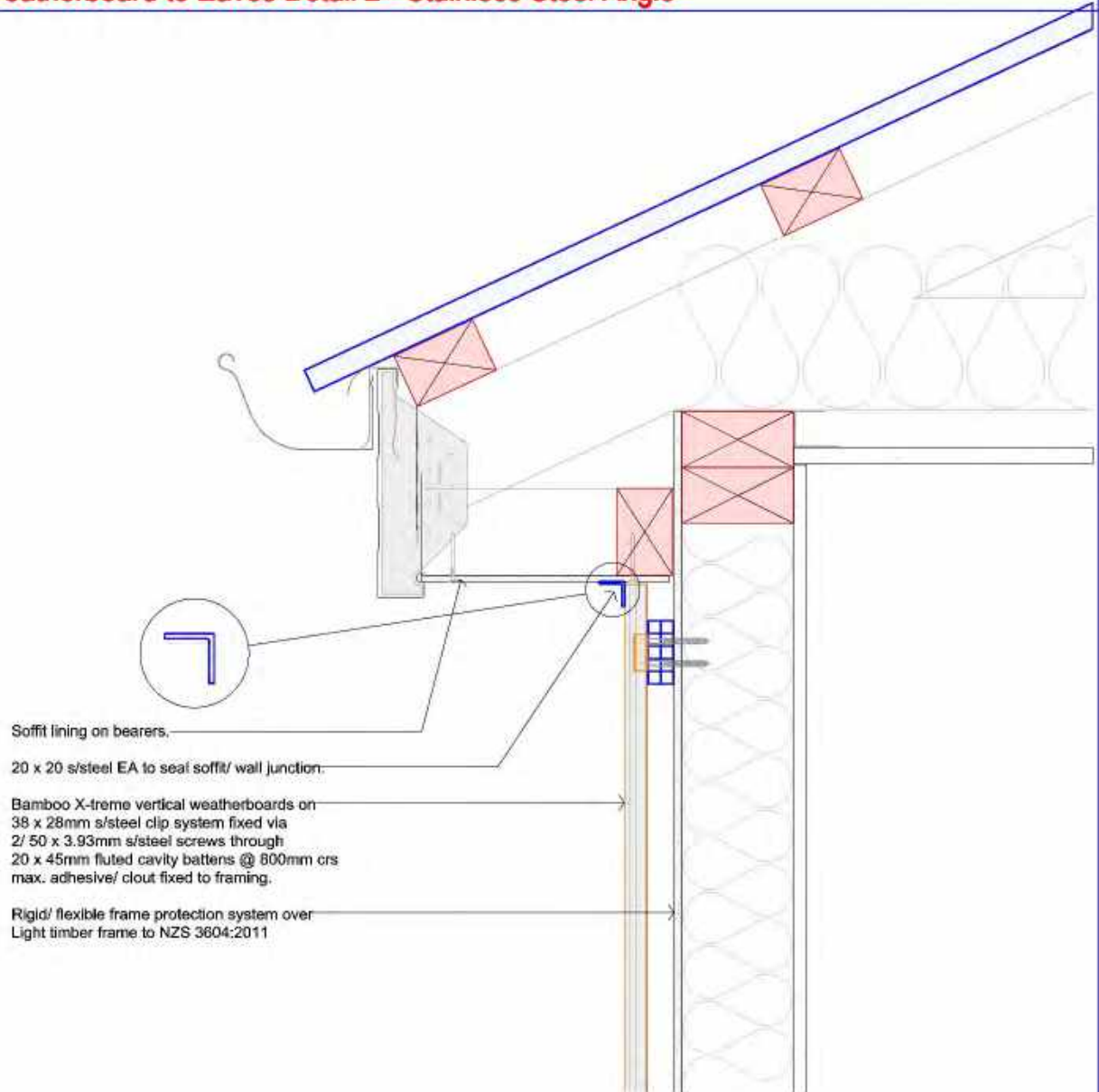
NOTE
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Weatherboard to Eaves Detail 2 - Stainless Steel Angle



Soffit lining on bearers.

20 x 20 s/steel EA to seal soffit/ wall junction.

Bamboo X-treme vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm fluted cavity battens @ 600mm crs max. adhesive/ clout fixed to framing.

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

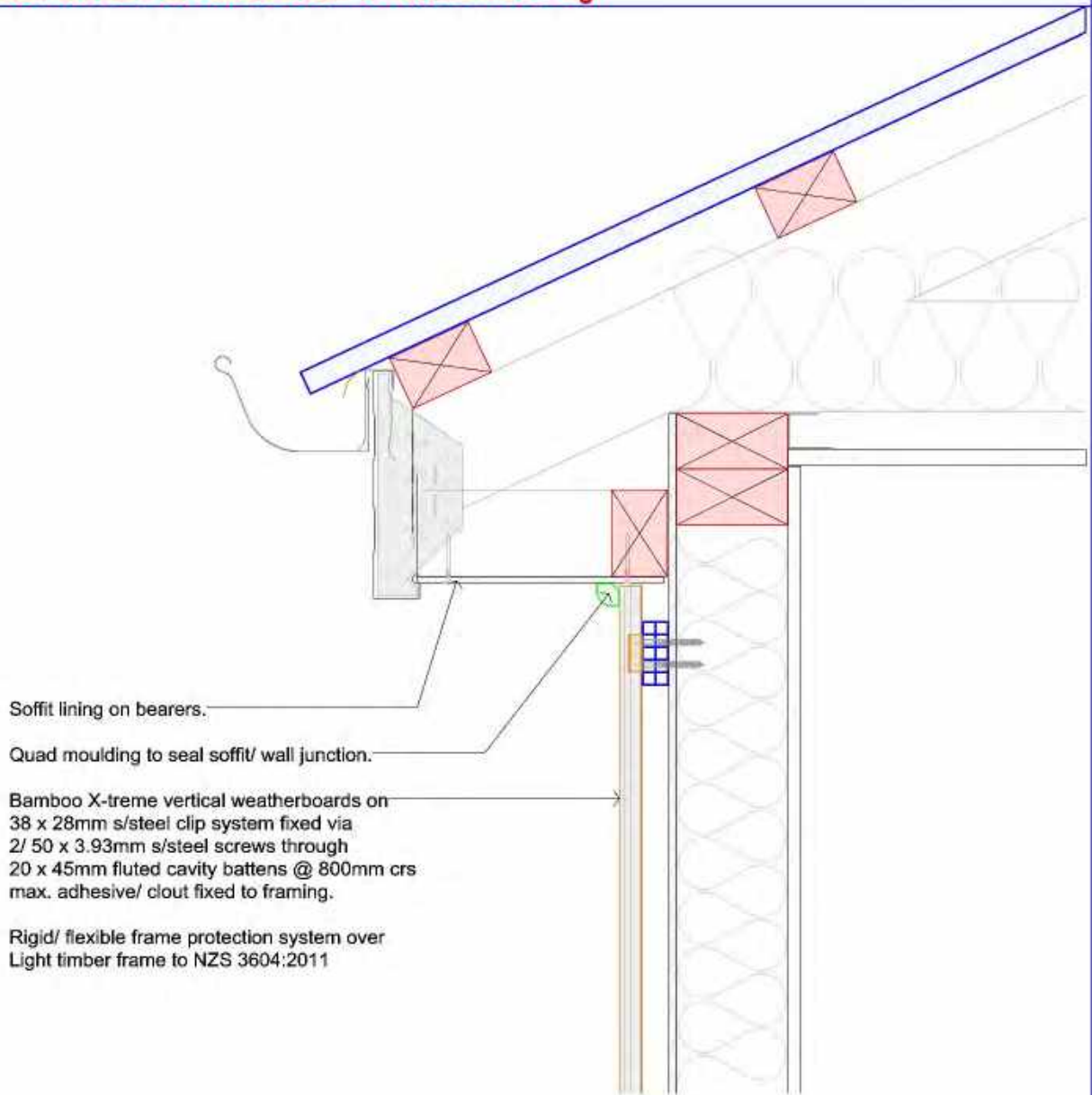


NOTE
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Weatherboard to Eaves Detail 3 - Quad Moulding



NOTE

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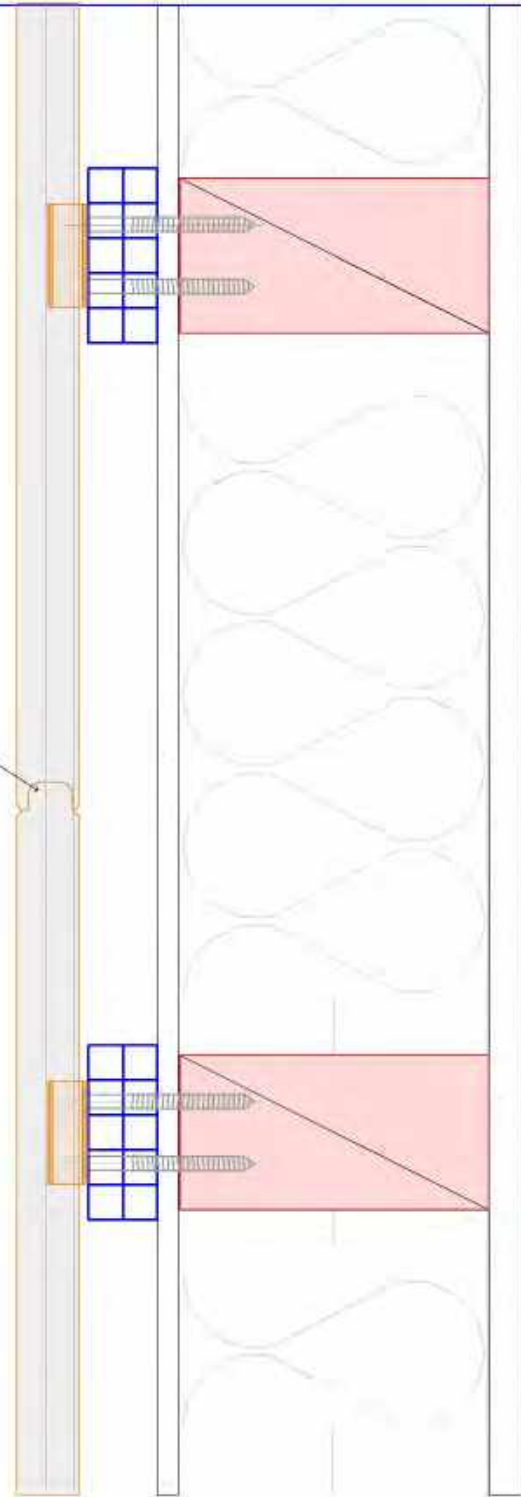
End Lap Joint

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 fluted cavity battens @ 800mm 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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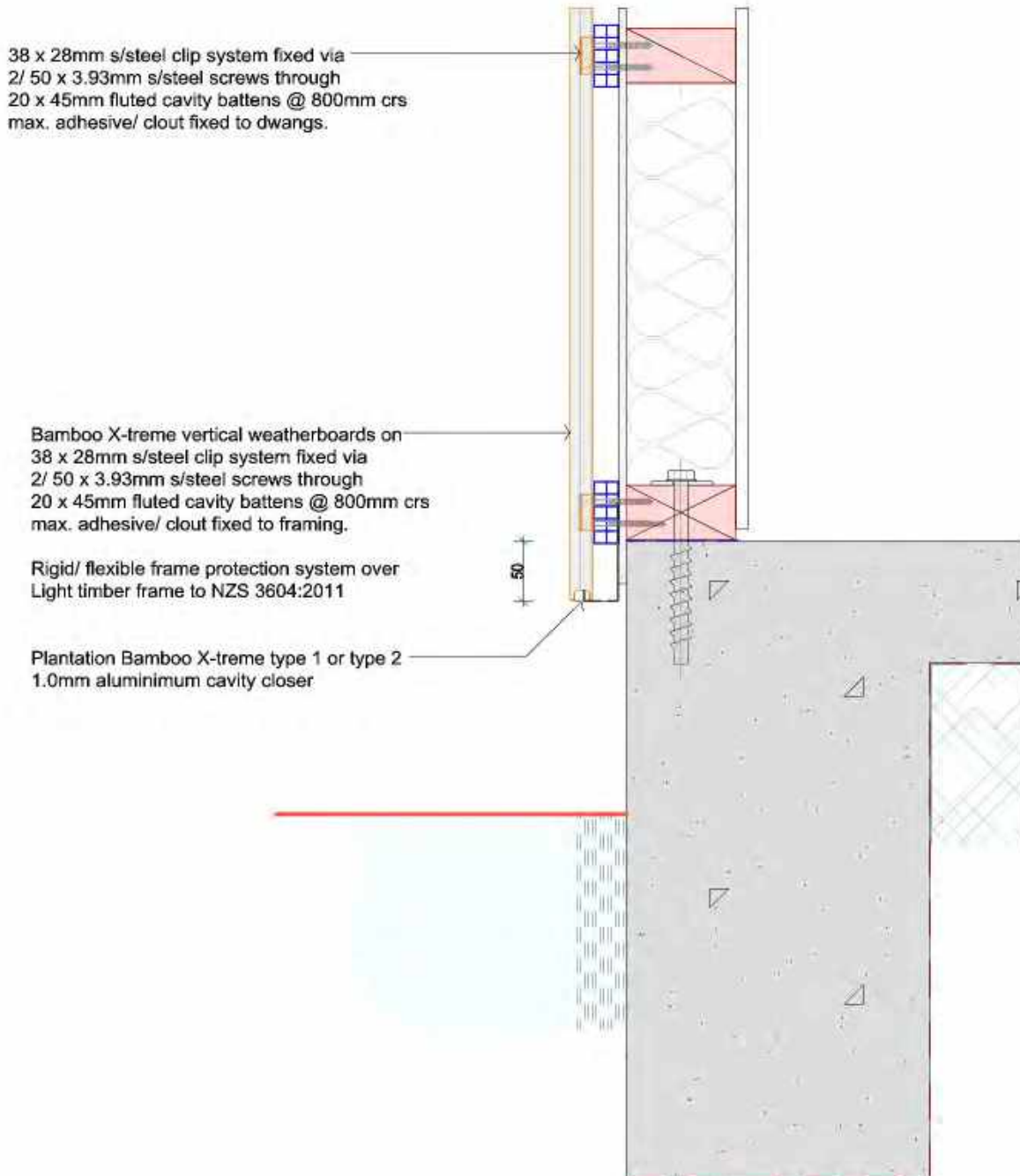
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Cladding Base - Concrete Slab



NOTE
The Bamboo X-treme system acts as a rainscreen with the final weatherproof line being the outside of the rigid frame protection system. All details to be read alongside the Technical Manual.

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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 fluted cavity battens @ 800mm c/s max. adhesive/ clout fixed to framing.

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

Plantation Bamboo X-treme type 1 or type 2 1.0mm aluminium cavity closer

50



NOTE

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Window Head

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 fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

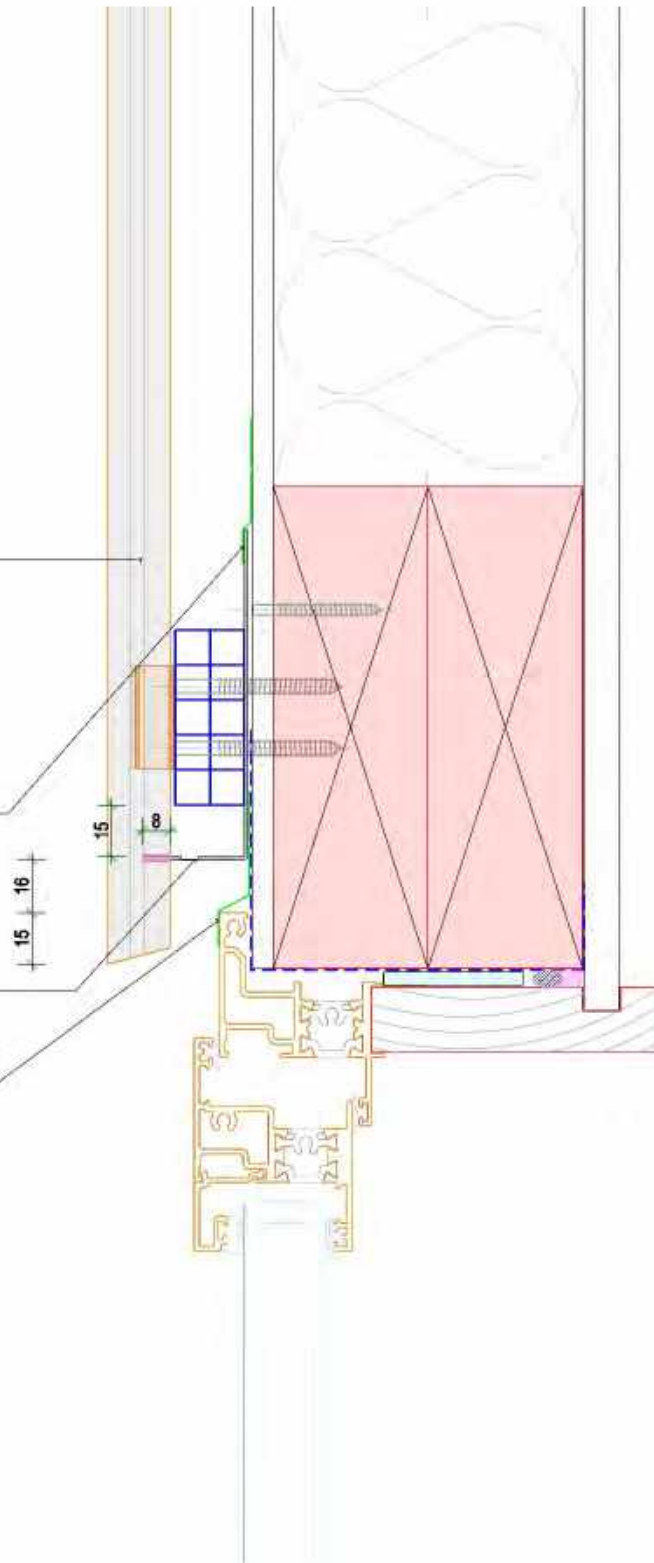
FPS Euroband flashing tape (or similar) with min. 10mm overlap to cavity closer.

Compatible flashing tape over Rigid/ flexible frame protection system

Plantation Bamboo X-treme type 2 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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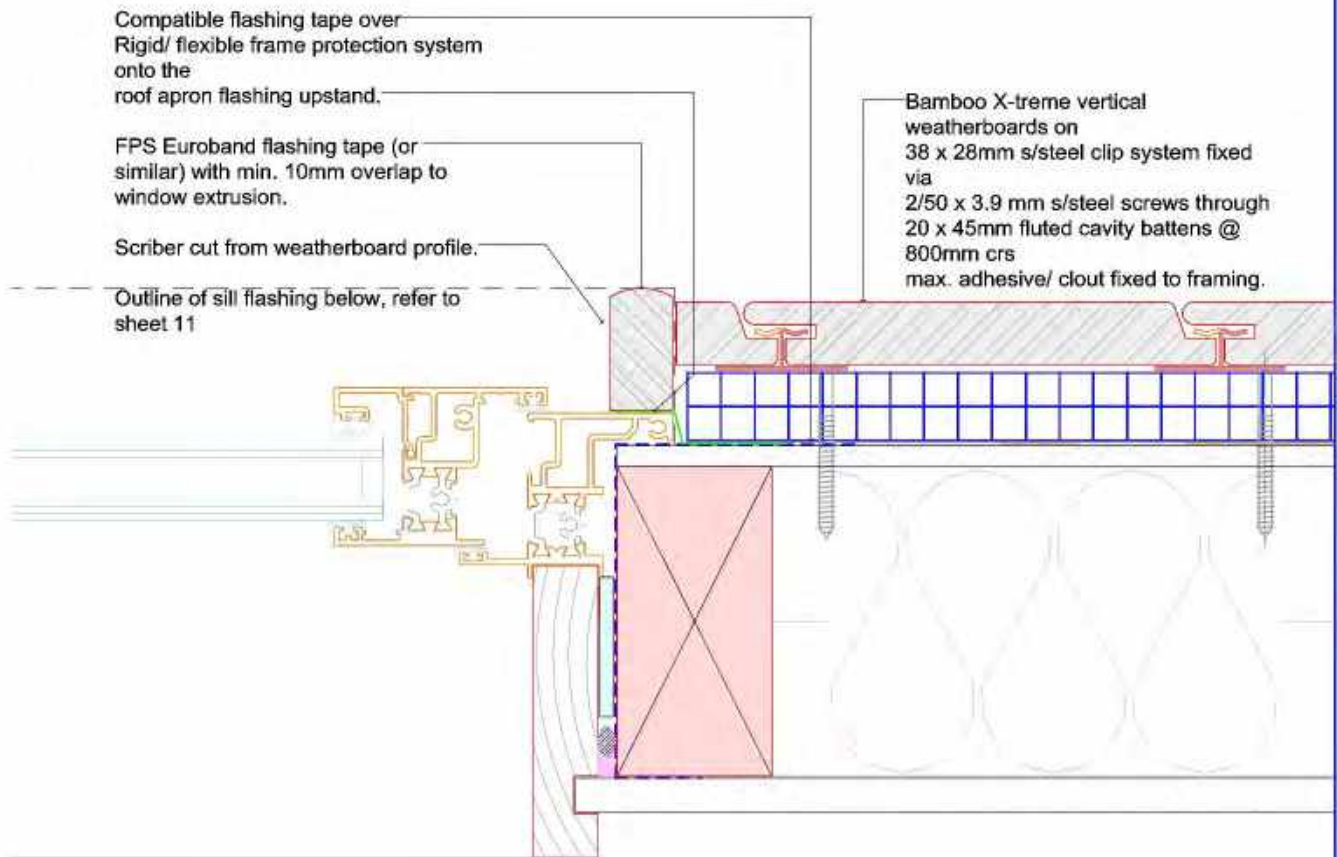
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Window Jamb



NOTE
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Window Sill

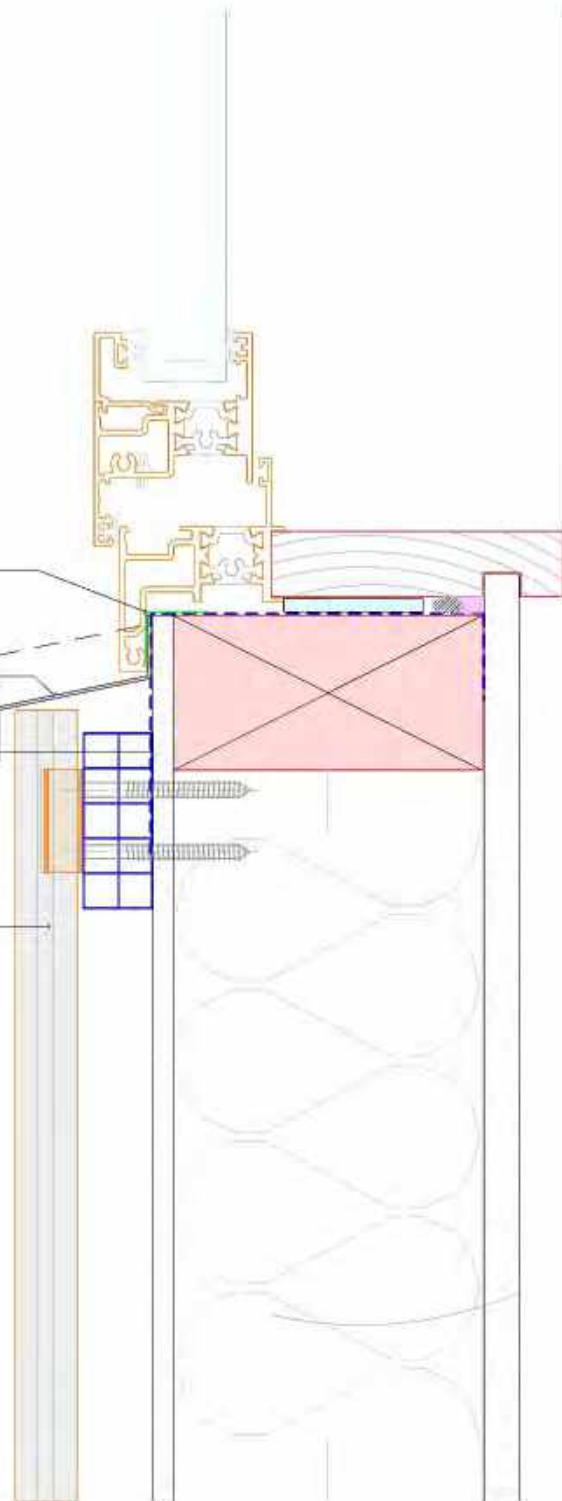
FPS Euroband flashing tape (or similar) with min. 10mm overlap to sill flashing.

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 fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

18
16
15



NOTE

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External Corner - Box Corner

Box corner facings 100mm and 82mm fixed using pre-drilled galv. or s/steel nails.

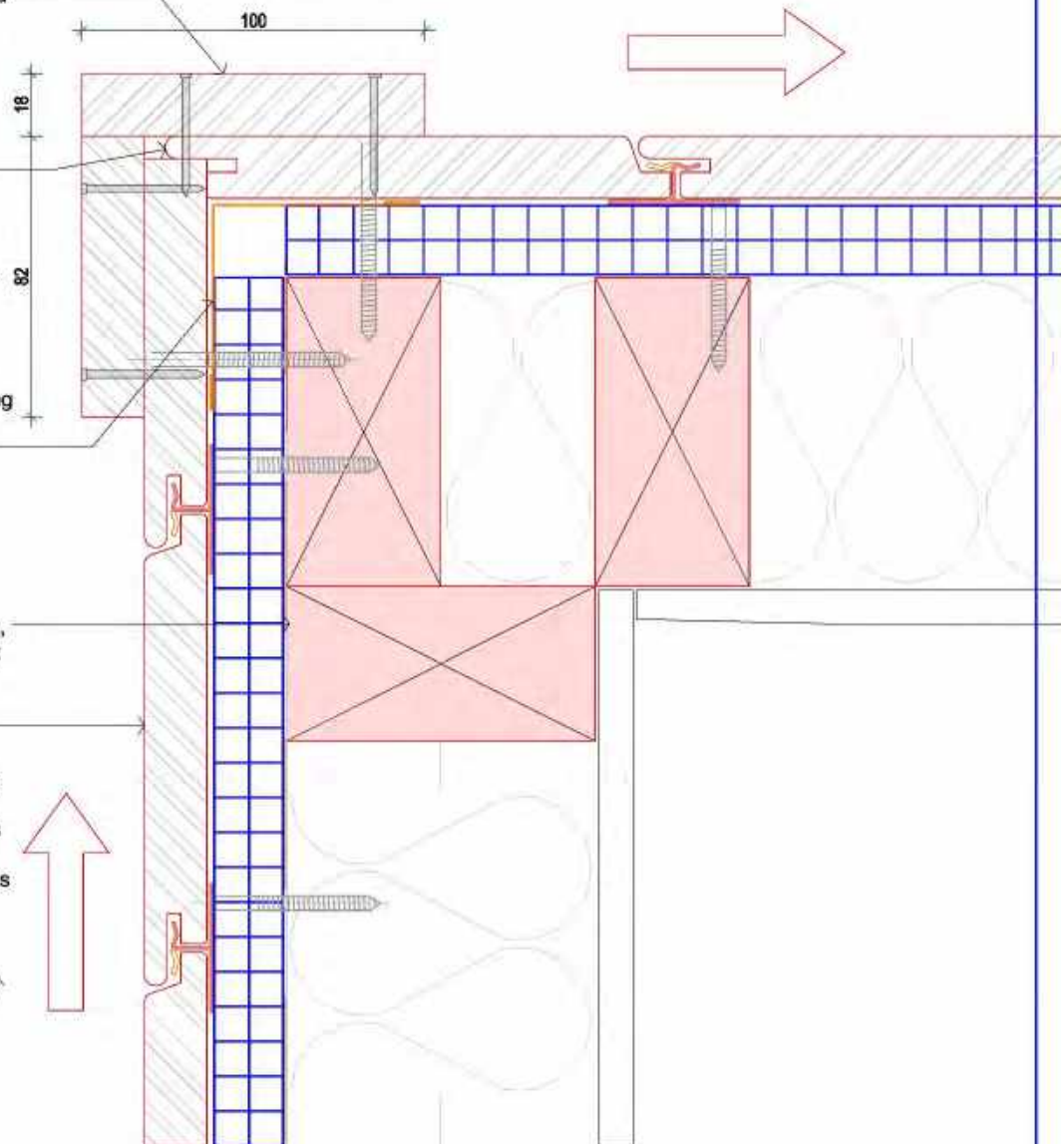
Trim last weatherboard to the back of the tongue line.

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 vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

Direction of installation



NOTE

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External Corner - Stainless Steel Corner Detail

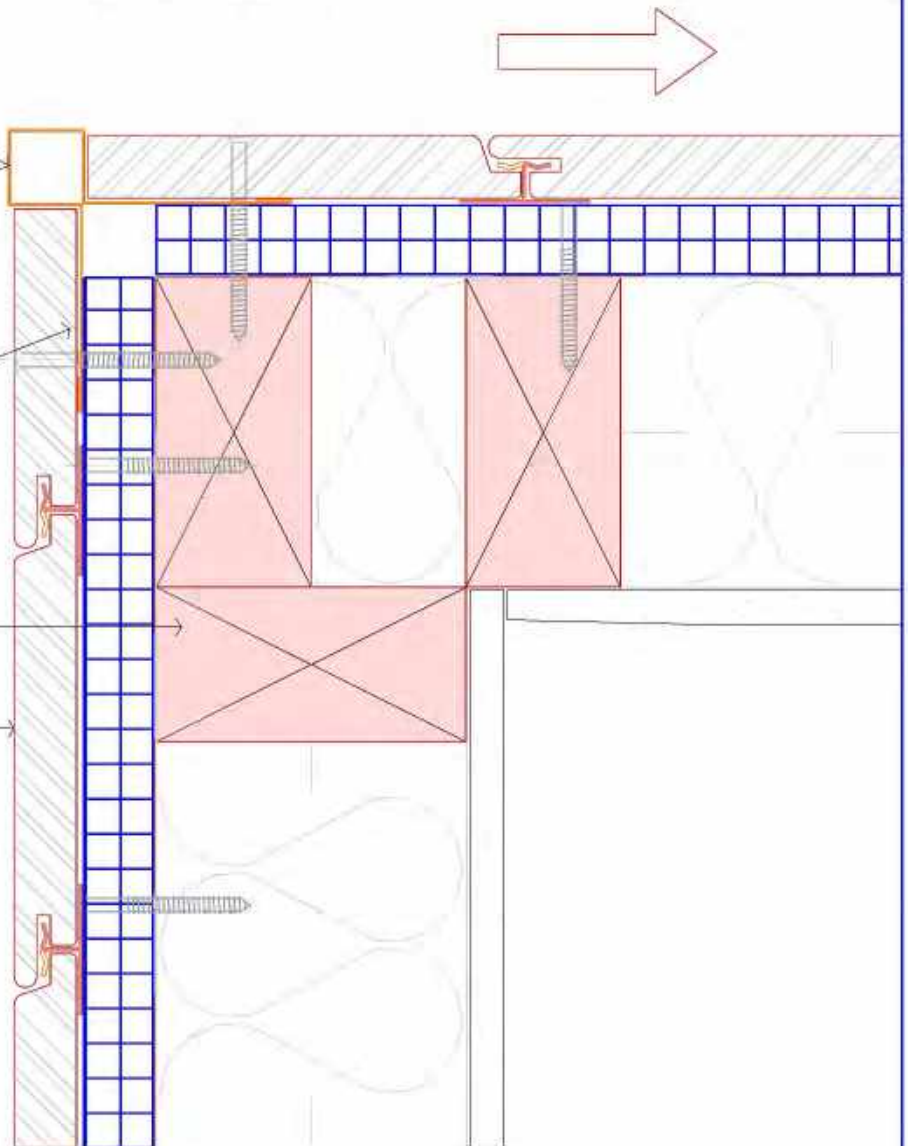
Stainless steel corner flashing to suit.
Rebate the back of the weatherboards as required to sit flush over flashing.

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 vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.93mm s/steel screws through 20 x 45mm fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

Direction of installation



NOTE
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External Corner - Mitred Corner

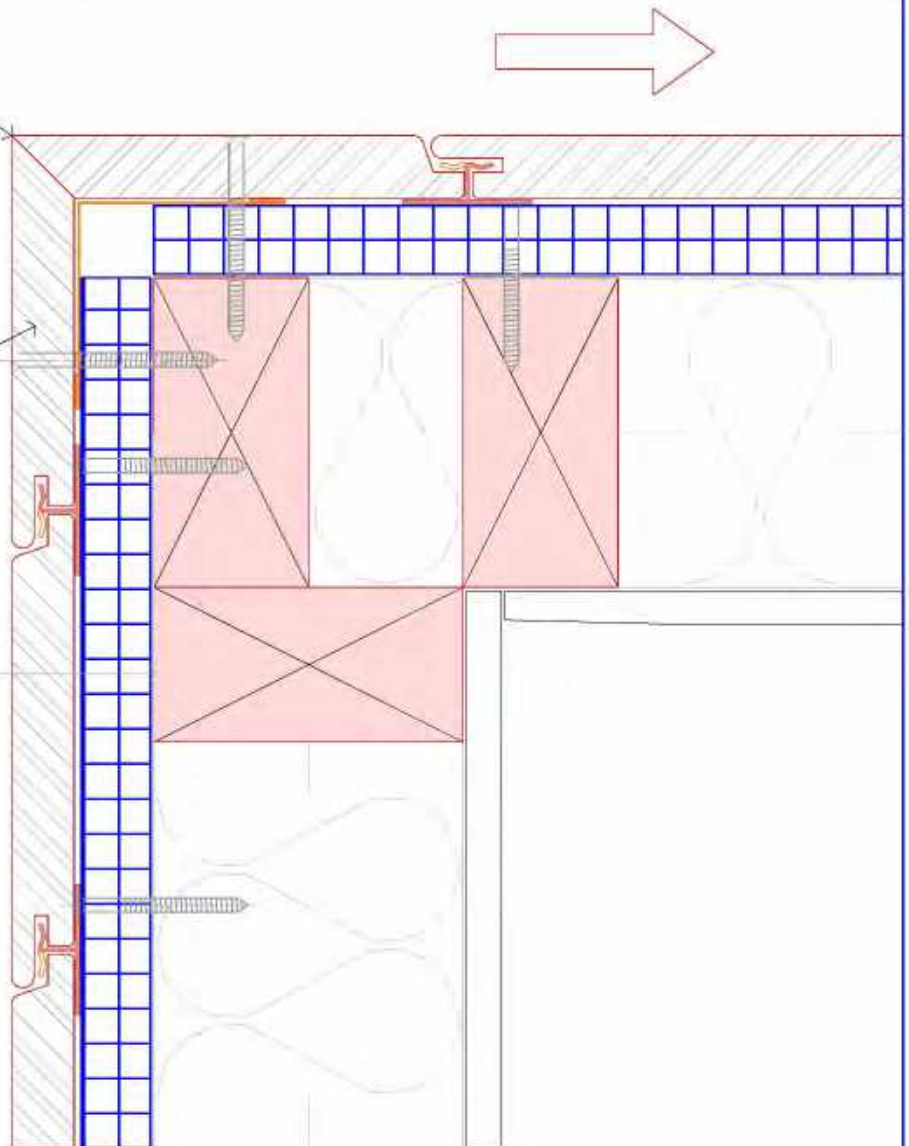
Corner boards mitred, run a continuous bead of construction adhesive between the meeting faces.

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 vertical weatherboards on 38 x 28mm s/steel clip system fixed via 2/ 50 x 3.932mm s/steel screws through 20 x 45mm fluted cavity battens @ 800mm crs max. adhesive/ clout fixed to framing.

Direction of installation



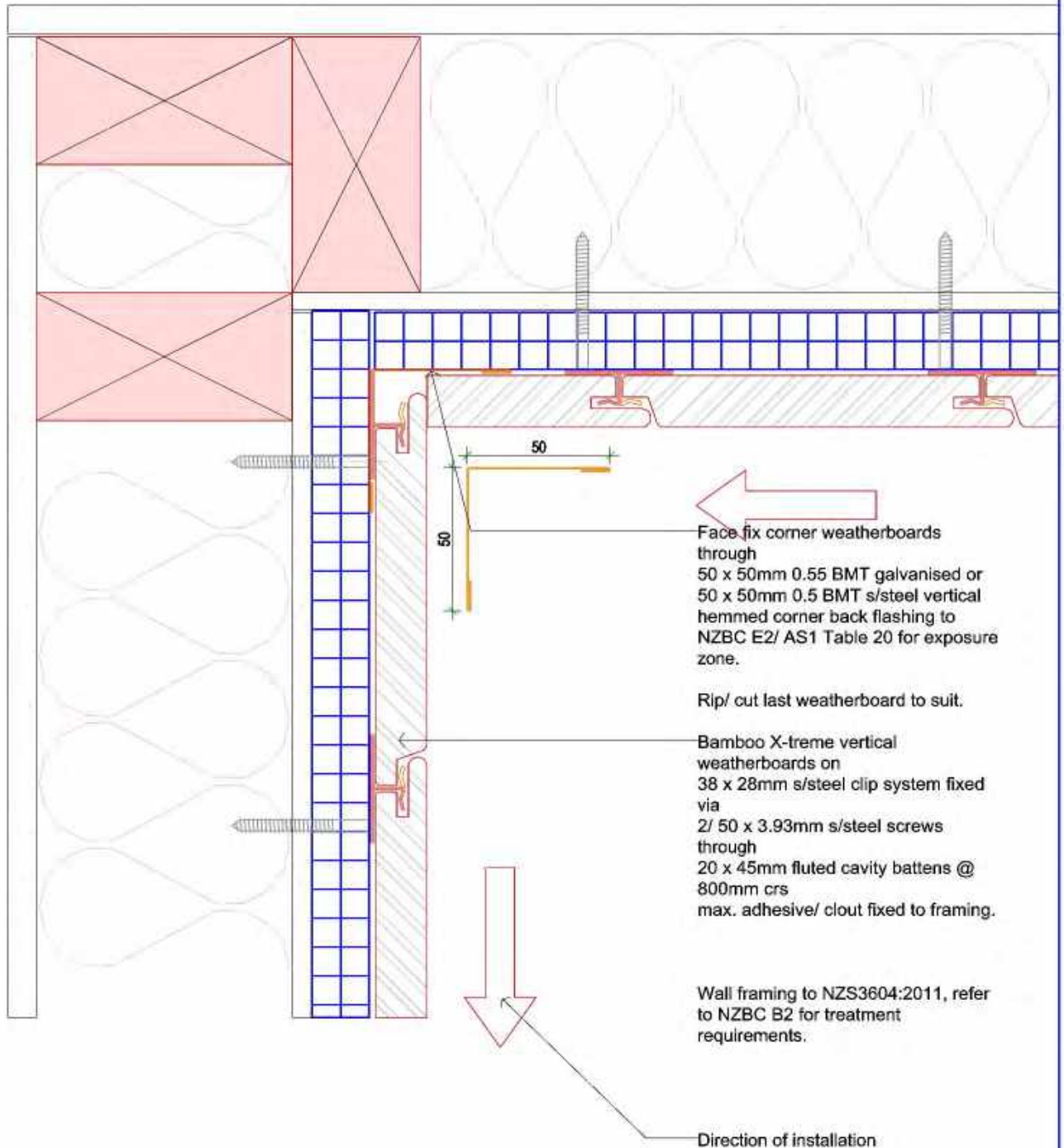
NOTE
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Internal Corner - Timber Butt Joint



NOTE

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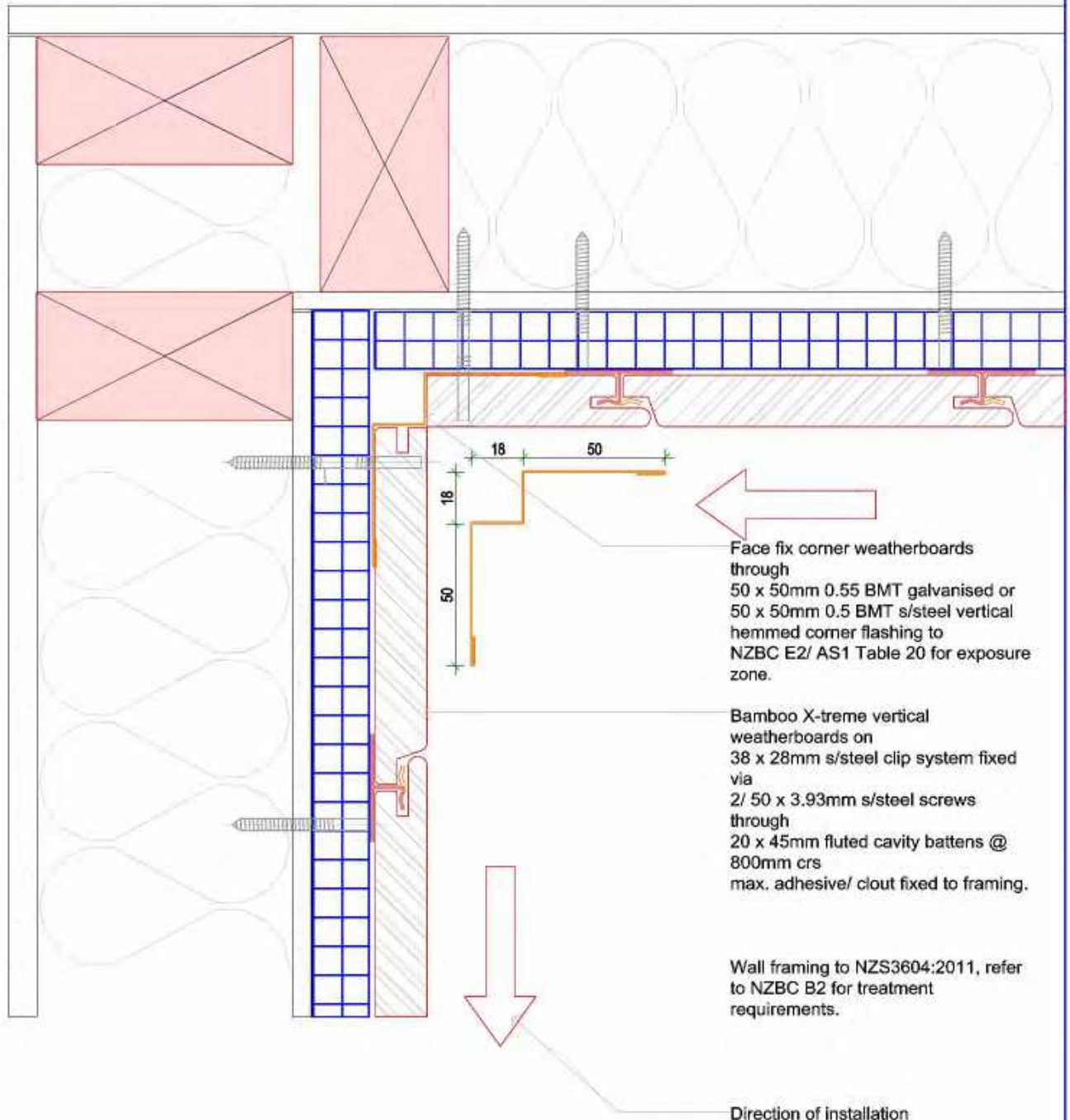
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Internal Corner - Internal Stainless Steel Corner Detail



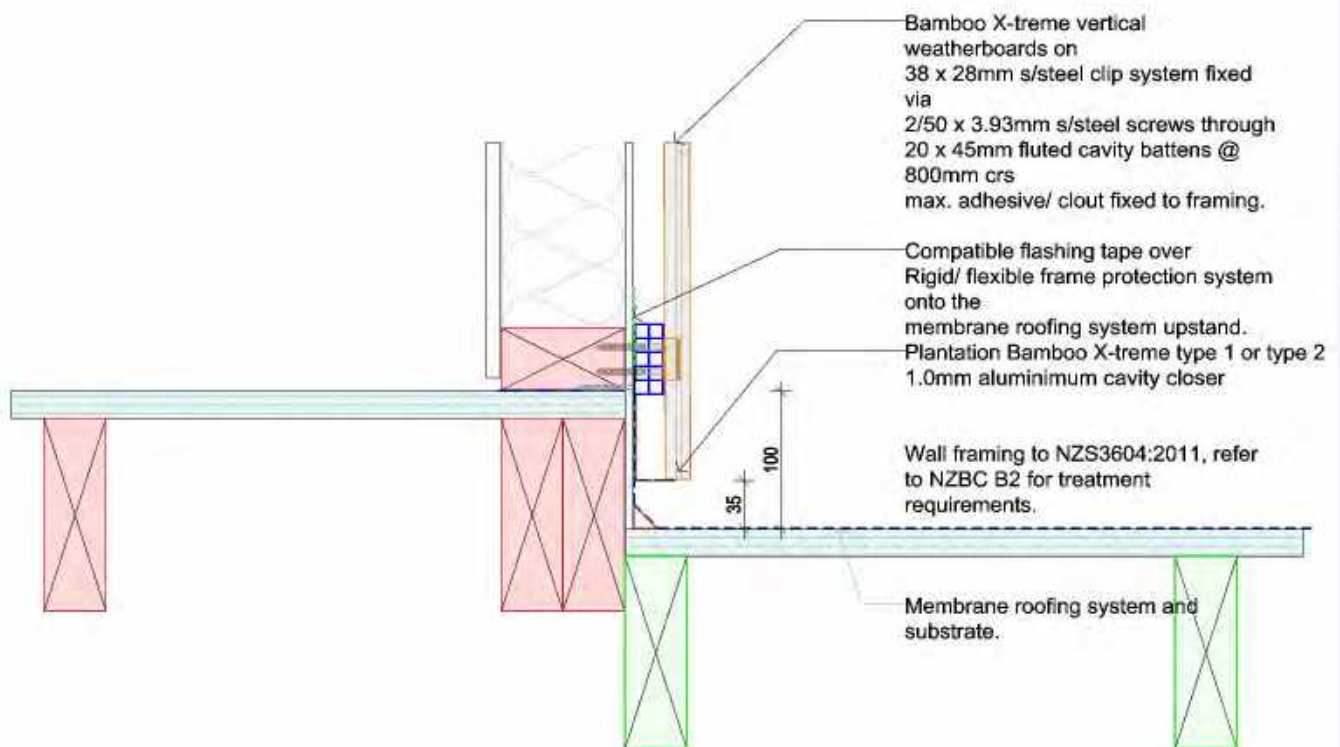
NOTE
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Cladding Junction to Membrane Roofing Detail



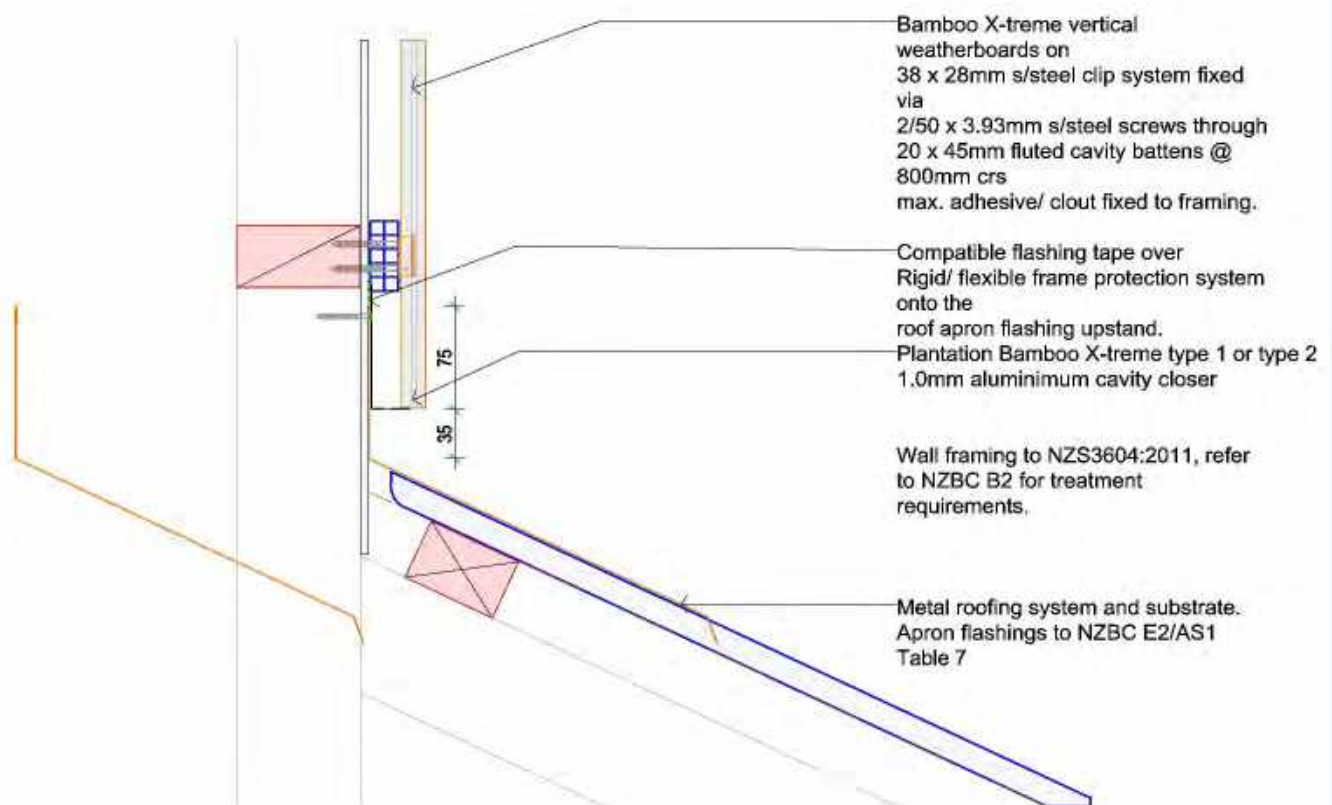
NOTE
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Cladding Junction to Metal Roofing Apron Detail

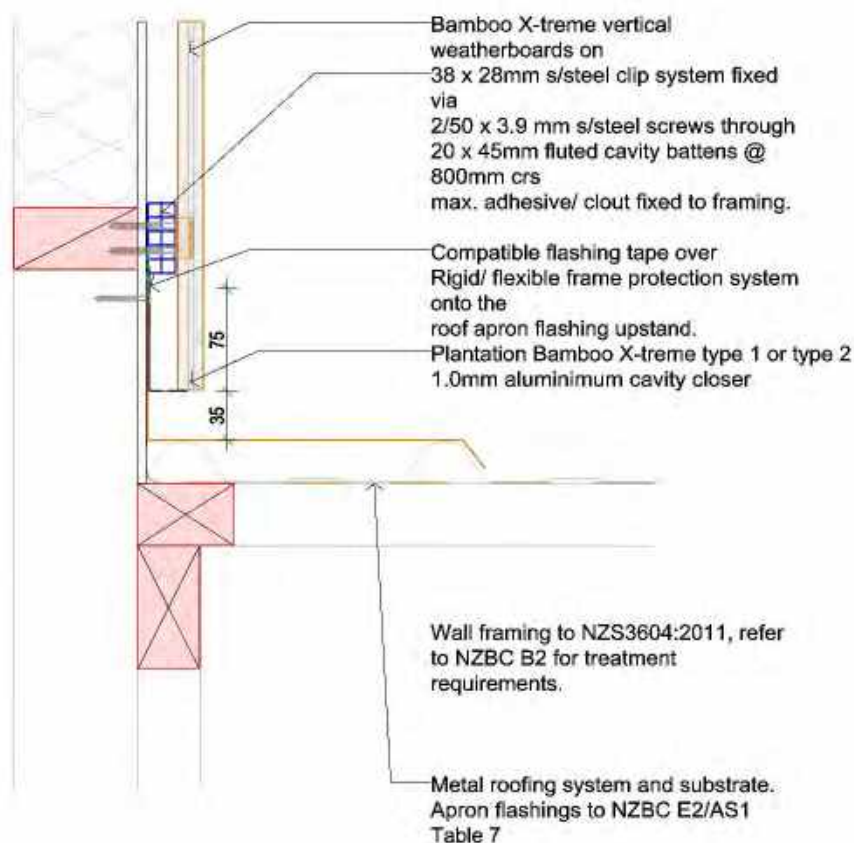


NOTE
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Cladding Junction to Metal Roofing Transverse Apron Detail



NOTE
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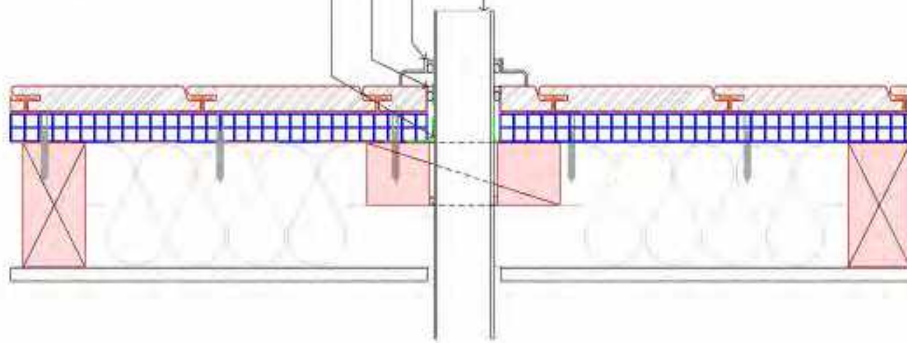
Pipe Penetration External

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 fluted cavity battens @ 800mm 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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