

# BBS Rusticated & Splaycut Weatherboard Cavity Wrap System

## Installation Specifications

### 1.0 General Information

#### Introduction

BBS Timbers Rusticated & Splaycut weatherboard Cavity System is a cavity-based external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used. The cladding system consists of horizontally fixed BBS Rusticated & Splaycut weatherboards installed over cavity battens, flashings and accessories and is finished with a premium penetrating oil stain or paint finish to BBS recommendations. The system incorporates a primary and secondary means of weather resistance (first and second line of defence) against water penetration by separating the cladding from the external wall frame with an 18,20,40-45mm drained cavity.

#### BBS Rusticated & Splaycut Weatherboards

BBS Timbers Rusticated & Splaycut weatherboards are manufactured from Western Red Cedar & Radiata Pine H3.2. Selected weatherboard profiles can be factory Oiled or primer coated. The weatherboard profiles are in accordance with NZS 3617 and BRANZ Bulletin 411. The Weatherboards are minimum 19mm thick and are available in a range of widths. Weatherboards are supplied as a random length supply. Select lengths are outside of the general specification and available by special request.

#### Cavity Battens

The Rusticated & Splaycut Cavity System uses treated timber cavity battens or 18mm thick Cavibat polypropylene cavity battens to separate the weatherboards from the wall frame and form the cavity. Timber & Cavibat batten are installed vertically over nogs/dwangs to provide support for the weatherboards at fixings points.

Refer to [www.cavibat.co.nz](http://www.cavibat.co.nz) and BRANZ Appraisal No. 524 (2012) for full specifications for the Cavibat Cavity Battens.

#### Accessories

Accessories supplied by BBS Timbers for use with our Rusticated & Splaycut Cavity System include:

- BBS External corner moulding – BBS40 (39x39) & BBS42 (40x40)
- BBS Cover Battens – BBS201 (69x18) & BBS202 (90x18)
- BBS Cover batten fixings – 50 x 2.8mm silicon bronze, Grade 316 stainless steel annular grooved Crown Head, Rose Head or Flat Head nails.
- BBS Eaves moulding – BBS32 (40 x 27mm)
- BBS Rustic Plugs- BBS43 (25mmx9mm) to suit profile
- BBS Scribes – BBS11, BBS12 radiused edges. Cut to required length.
- BBS Scriber fixings – length to suit Scriber size (min 50x2.8mm) stainless steel annular grooved Crown head, Rose Head or Flat Head nails for Stain finish or Jolt Head nails for Paint finish.
- BBS Flat and corner Soakers- 90 degree soakers available in copper, stainless steel or etch primed aluminium.

#### Handling and Storage

BBS Timber Rusticated & Splaycut weatherboards must be stacked flat and true, clear of the ground by a minimum of 150mm and supported on dry and clean timber bearers at maximum 900mm centres.

The weatherboards must be kept dry at all times either by storing within an enclosed building or when stored externally an additional secondary cover to the plastic wrapping is required. Care must be taken to avoid damage to edges, ends and the weatherboard surfaces. Water must not be allowed to enter the stack.

### 2.0 Design Information

#### Design Responsibility

The Specifier for the project must ensure that the details in this literature are suitable for the intended application and that additional detailing is provided for specific design or any areas that fall outside the scope and specifications of this literature.

#### Scope

The use of the Rusticated & Splaycut Cavity System as an external horizontally fixed wall cladding system for buildings within the following scope:

Stain finished weatherboards with crown/rose/flat head nails. Paint finished Radiata Pine weatherboards fixed with annular grooved jolt/crown/rose/flat head nails. Paint finished Western Red Cedar weatherboards fixed with annular grooved crown/rose/flat head nails:

- the scope limitations of NZBC Acceptable System E2/AS1, Paragraph 1.1; and,
- constructed with timber framing complying with the NZBC; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- situated in NZS 3604 Wind Zones up to, and including 'Extra High'. Any stain or paint finished weatherboards, if fixed with annular grooved flat/crown/rose head nails only, for weathertightness and structural wind loading for buildings within the following scope:
- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and,
- constructed with timber framing complying with the NZBC; and,
- situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 2.5 kPa.

Paint finished Western Red Cedar weatherboards if fixed with annular grooved jolt head nails:

- the scope limitations of NZBC Acceptable System E2/AS1, Paragraph 1.1; and,
- constructed with timber framing complying with the NZBC; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- situated in NZS 3604 Wind Zones up to, and including Medium when dwangs or structural Timber cavity battens are at maximum 480mm centres, and NZS 3604 Wind Zones up to, and including Very High when dwangs or structural Timber cavity battens are at maximum 400mm centres. For applications which are outside the scope of this literature and details which are not in this literature the specifier must ensure that the design meets the relevant performance requirements of the NZBC. BBS Timbers recommend that professional design advice is sought in these circumstances.

## Installation Specifications

### Building Regulations

BBS Timber Rusticated & Splaycut Cavity System if designed, used and installed in accordance with the statements and conditions of this literature, will meet the following provisions of the New Zealand Building Code:

- Clause B1 Structure
- Clause B2 Durability
- Clause E2 External Moisture
- Clause F2 Hazardous Building Materials

### Ground Clearances

The finished floor level must have a minimum clearance to paved or unprotected ground as required by NZS 3604:2011.

BBS weatherboards must overhang the bottom plate on a concrete slab by a minimum of 50 mm as required by NZBC Acceptable Solution E2/AS1, Table 18.

The bottom edge of the BBS Rusticated & Splaycut Weatherboard Cavity System must finish a minimum of 100 mm above paved surfaces or 175 mm above unprotected ground.

At deck or low pitch roof/wall junctions, the bottom edge of the BBS weatherboards must be kept clear of any adjacent surface, or above the top surface of any adjacent roof flashing by a minimum of 35mm.

### Structure & Framing

Timber wall framing behind the BBS Rusticated & Splaycut Cavity System must be treated as required by NZBC Acceptable Solution B2/AS1. Timber framing must comply with NZS 3604 for buildings or parts of buildings within the scope limitations of NZS 3604. Buildings or parts of buildings outside the scope of NZS 3604 must be to a specific design in accordance with NZS 3603 and AS/NZS 1170. Where specific design is required, the framing must be of at least equivalent stiffness to the framing provisions of NZS 3604. Use of timber framing must be in accordance with framing manufacturer's specifications.

In all cases studs must be at maximum 600mm centres with nogs/dwangs fitted flush between the studs at maximum 800mm centers.

### Framing Tolerances

In order to achieve an acceptable wall finish, it is imperative that framing is straight and true. Framing tolerances must comply with the requirements of NZS 3604:2011.

### Cavity Closure Strip

BBS Timber Rusticated & Splaycut Cavity System must incorporate a cavity closure strip to close off the bottom of the cavity and provide resistance against the penetration of vermin. The closure strip must be in accordance with NZBC Acceptable Solution E2/AS1 Paragraph 9.1.8.3. The closure strip must be manufactured from uPVC, aluminium or stainless steel, and be punched with 3-5mm holes or slots which provide a minimum ventilation opening area of 1000mm<sup>2</sup> per lineal metre of wall.

### Wall Underlay

BBS Timber Rusticated & Splaycut Cavity System must be installed over wall underlay complying with NZBC Acceptable Solution E2/AS1, Table 23, or wall underlays covered by a valid BRANZ Appraisal. All external walls of buildings must have barriers to airflow in the form of interior linings with all joints stopped for wind zones up to and including Very High, and rigid underlays for buildings in the Extra High wind zone and specifically designed buildings up to 2.5 kPa design differential ULS wind pressure. Unlined gables and walls must incorporate a rigid sheathing or an air barrier which meets the requirements of NZBC Acceptable Solution E2/ AS1, Table 23. For attached garages, wall underlays must be selected in accordance with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.3.4. Where rigid underlays are used, the weatherboard fixing lengths must be increased by a minimum of the thickness of the underlay.

### Inter-storey Junctions

Inter-storey drained joints must be constructed in accordance with the Technical Literature. Inter-storey drained joints must be provided to limit continuous cavities to the lesser of 2-storeys or 7 metres in height, in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.9.4(b).

### BBS Rusticated & Splaycut Weatherboards

BBS Timber Rusticated & Splaycut weatherboards shall be fixed with an approximate 2mm horizontal expansion gap at the overlap between boards. BBS Rusticated & Splaycut profiles are all manufactured in accordance with BRANZ Bulletin 411 and NZS 3617 (1979). The weatherboards shall be pre-coated with the selected coating (prior to site delivery and installation) by BBS or client.

Pre-finished Rusticated & Splaycut weatherboards shall be over-coated and maintained in accordance with the coating manufacturer's specification. All cut ends and/ or uncoated surfaces shall be double coated during installation to protect against the penetration of moisture, post installation. The weatherboards shall be fixed through the cavity battens to the studs at maximum 600mm centres using BBS fixings.

External corners shall be weatherproofed by the use of corrosion resistant corner flashings behind the weatherboards and corner facings, e.g. BBS proprietary cover batten profiles BBS201 and BBS202. Internal corners shall be weatherproofed by the use of corrosion resistant internal corner flashings along with internal mouldings eg. BBS41 or BBS201 and BBS202.

## 3.0 Installation Information

### System Installation

This section of the literature should be read in conjunction with the installation details. The selected wall underlay and flexible sill and jamb tape system must be installed by the building contractor in accordance with the underlay and tape manufacturer's instructions prior to the installation of the cavity battens and the rest of the Rusticated & Splaycut Cavity System.

Flexible building underlay must be installed horizontally and be continuous around corners. Underlay must be lapped 75mm minimum at horizontal joints and 150mm minimum over studs at vertical joints.

Generic rigid sheathing materials must be installed in accordance with NZBC Acceptable Solution E2/AS1 and be overlaid with a flexible wall underlay. Proprietary systems shall be installed in accordance with the manufacturer's instructions. Particular attention must be paid to the installation of the building underlay and sill and jamb tapes around window and door openings to ensure a continuous seal is achieved and all exposed wall framing in the opening is protected. The selected cavity closure strip must be installed so a minimum 15mm drip edge to the bottom of the weatherboards is maintained at all times.

### **Aluminium Joinery Installation**

Aluminium joinery and associated head flashings must be installed in accordance with the window manufacturer's instructions. A 7.5 - 10mm nominal gap must be left between the joinery reveal and the wall framing so a PEF rod and air seal can be installed in accordance with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.6 after the joinery has been secured in place.

### **BBS Timber Rusticated & Splaycut Weatherboard Installation**

BBS Timber Rusticated & Splaycut weatherboards must not be wet prior to installation.

Prior to installation, all faces and edges of the BBS Rusticated & Splaycut weatherboards must be sealed with an exterior grade oil-based penetrating oil stain or paint.

During installation, cut ends and edges and all fresh cuts or exposed timber must be double sealed with an exterior grade oil-based penetrating oil stain or paint.

BBS Timber Rusticated & Splaycut weatherboards must be installed starting at the corner of the wall section being clad. The first weatherboard must be installed plumb to assist with the installation of subsequent weatherboards. The weatherboards must overhang the bottom plate by a minimum of 50mm.

Immediately prior to installing the weatherboards over the internal and external corner flashings, a continuous bead of sealant must be applied to the face of the flashing along the fixing line.

BBS Rusticated & Splaycut weatherboards must be overlapped a minimum of 25mm with 2mm expansion gap at the overlap.

BBS Timber Rusticated & Splaycut weatherboards must be pre-drilled on a slight up-slope with a hole slightly smaller than that of the nail to reduce the risk of moisture entry. Fixings must be located 30-35mm in from the weatherboard lap and must finish flush onto the surface of the weatherboard not into or below the surface. Fix weatherboards in full lengths where possible.

### **For oil/stain finished weatherboards:**

Weatherboard fixing must be carried out using silicon bronze or Grade 316 stainless steel annular grooved Crown Head, Rose Head or Flat Head nails.

For 18mm Cavibat or 20/40/45mm Timber battens fixed to nogs/dwangs, the nail shank must be minimum 3.15mm diameter and the length must allow minimum 30mm penetration of the wall frame timber or structurally fixed cavity batten.

### **For paint finished weatherboards:**

Weatherboard fixing must be carried out using Grade 316 stainless steel annular grooved Jolt Head nails. Punch nails 2mm below the weatherboard surface, prime nail holes and fill prior to sanding and finishing.

For 18mm Cavibat or Timber batten fixed to nogs/dwangs, the nail shank must be minimum 3.15mm diameter and the length must allow minimum 35mm penetration of the wall frame.

### **Boxed Corners and Mouldings**

External and internal corners must be finished in accordance with the installation detailing.

### **Finishing**

At least two coats of an exterior grade quality oil-based penetrating stain must be used over the front face of the BBS Vertical Shiplap weatherboards to protect the weatherboards and battens and give the desired finish colour to the exterior walls. The stain must be recommended for use as a wall cladding stain by the manufacturer and must be brush or BBS Factory applied. BBS Timbers recommend the use of oil based stains manufactured by Dryden.

Follow the stain manufacturer's instructions at all times for application of the stain finish.

To ensure a top quality paint finish:

1. Any sharp edges should be removed to provide a radius to aid in uniform paint film coverage.
2. Use a premium alkyd oil or acrylic based primer to envelope prime all cut ends and bare timber surfaces twice.
3. Punch nail holes and prime promptly after punching.
4. Fill holes with a suitable filler and allow to dry.
5. When filler is fully dry and cured, sand area smooth.
6. Apply one coat of an alkyd oil or acrylic based primer to sanded area and allow to fully dry before sanding lightly.
7. Ensure surface is clean and free from any chalking, dirt, dust, mould or other contaminants prior to painting top coats.
8. Apply two coats of premium high quality 100% exterior grade acrylic to surface allowing adequate time for drying between coats.

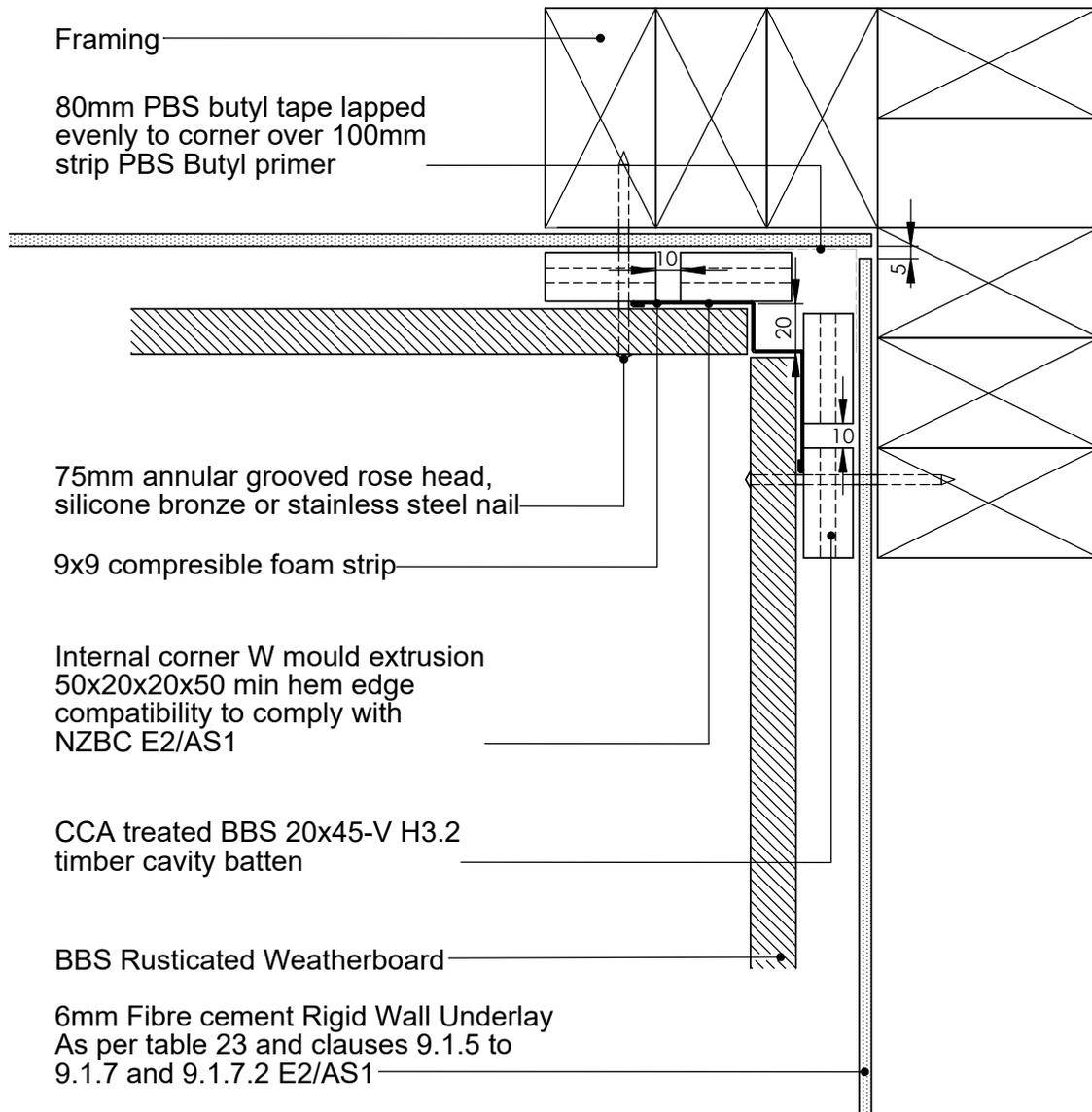
Follow the paint manufacturer's instructions at all times for application of the paint finish.

## **4.0 Maintenance**

Building owners are responsible for the maintenance of their Weather boards cladding.

**Notes:**

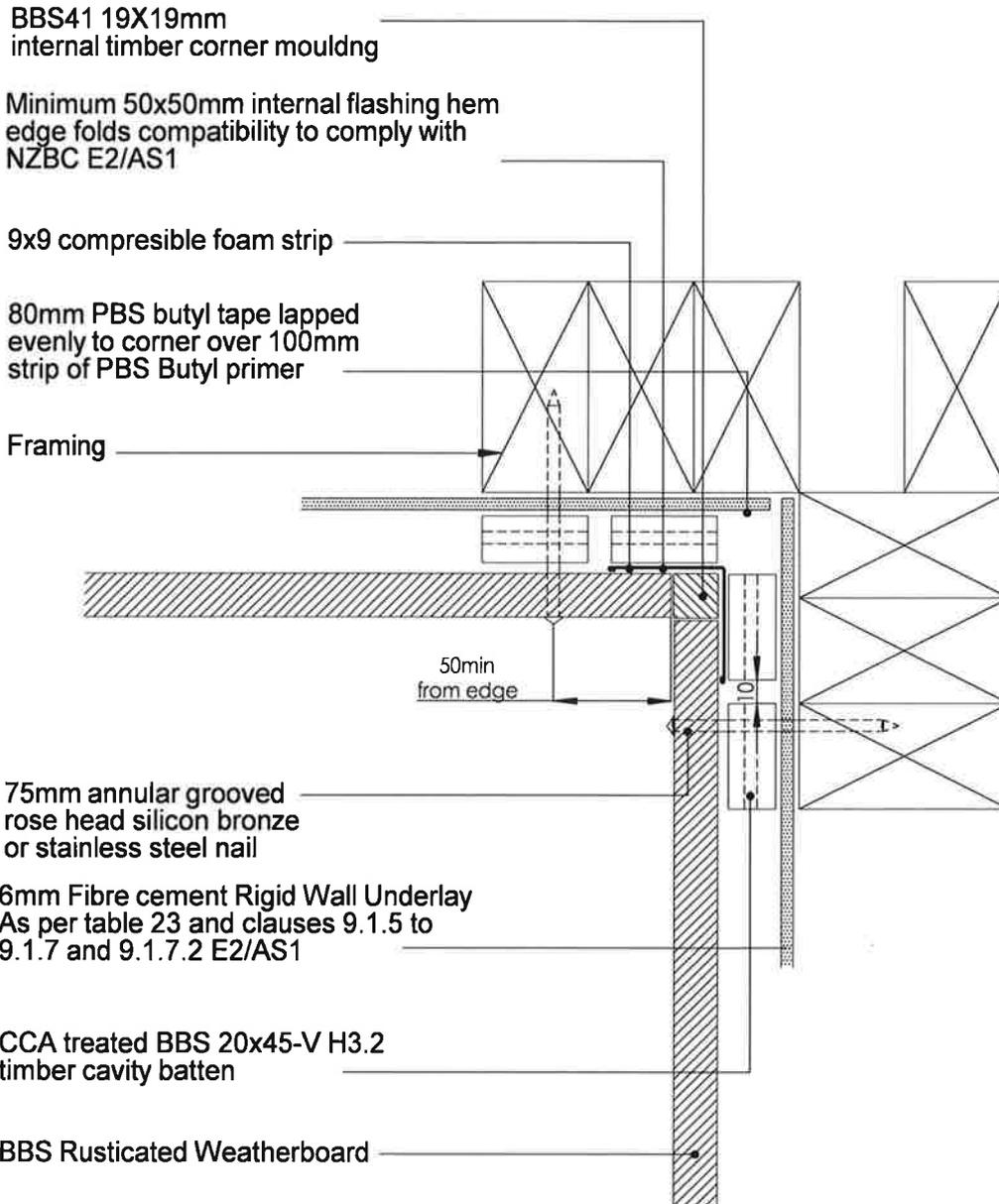
- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
- Provide PVC tape bond break between H3.2 battens and any flashing
- Rigid & Flexible underlay as per table 23 and clauses 9.1.5 to 9.1.7
- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch



TITLE:					copyright BBS Timbers LTD ©		Internal Corner Detail	
	NAME	SIGNATURE	DATE	Rev		27 Kioreroa road PO Box 1407 Whangarei 09 438 9358	DWG NO.	A4
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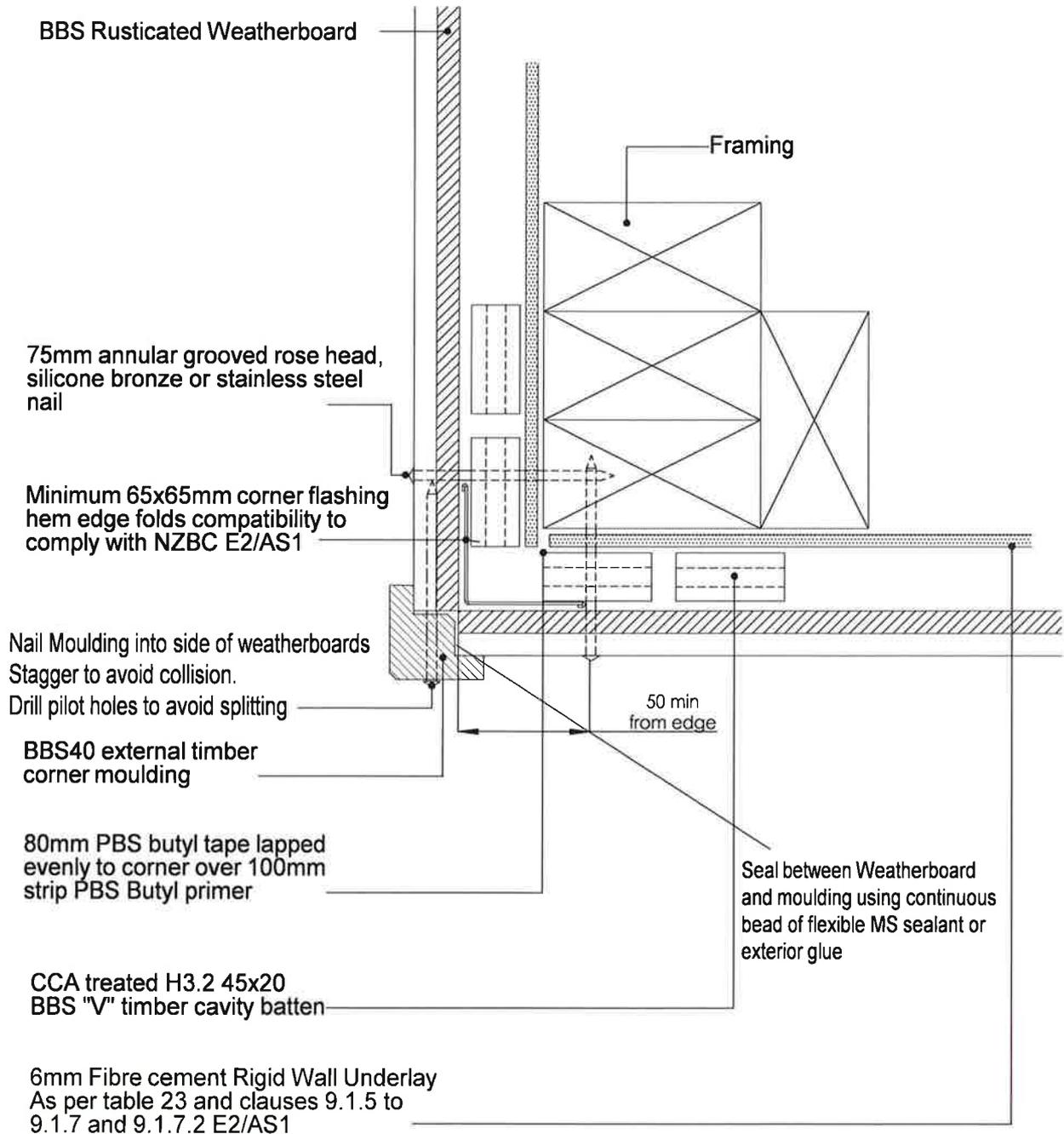
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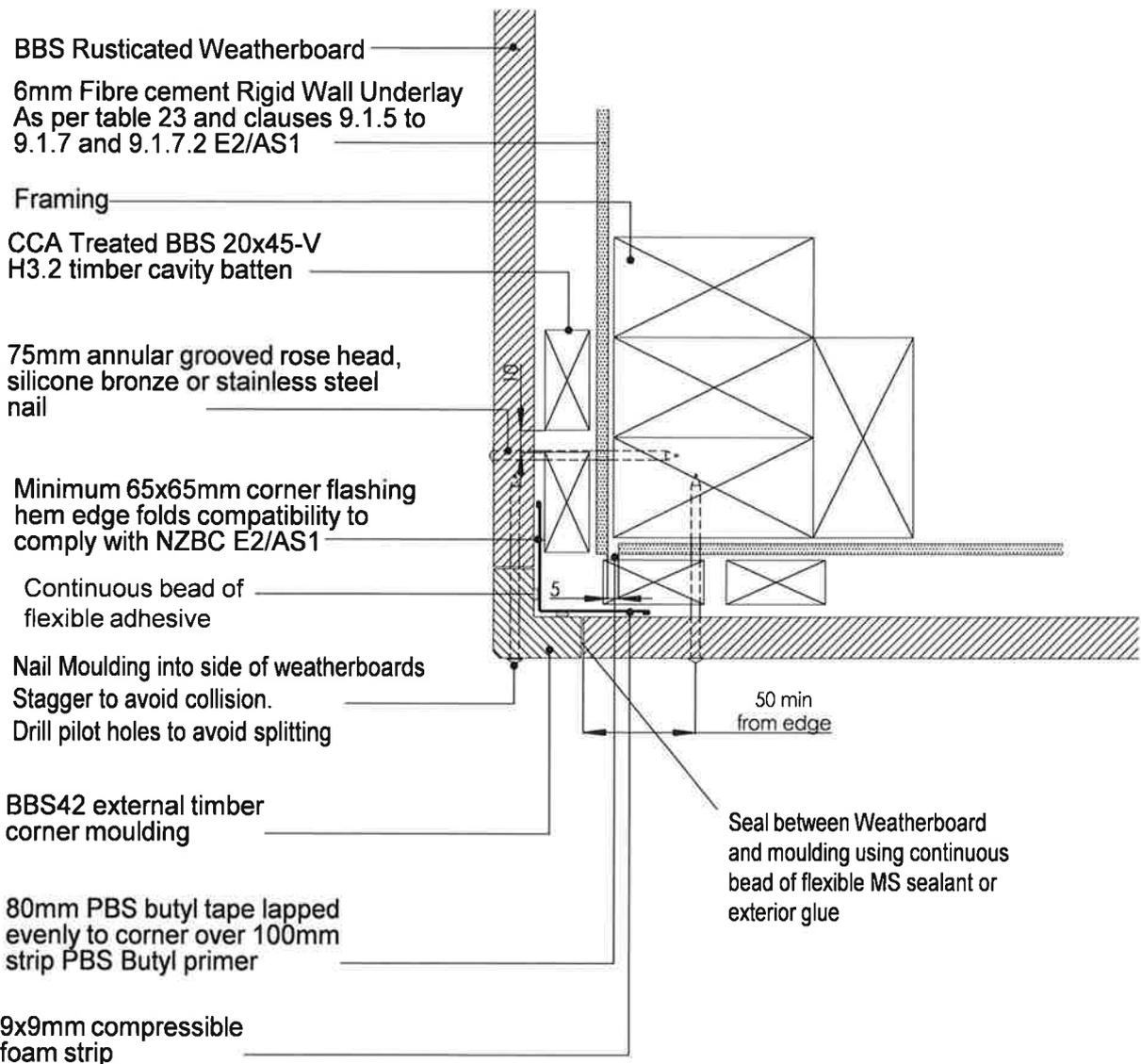
- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
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- Timber to NZBC B2 durability B23.1 (b), Western Red Cedar, Larch



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**Notes:**

- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
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- Timber to NZBC B2 durability B23.1 (b), Western Red Cedar, Larch



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**Notes:**

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- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
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- Timber to NZBC B2 durability B23.1 (b), Western Red Cedar, Larch

6mm Fibre cement Rigid Wall Underlay  
As per table 23 and clauses 9.1.5 to 9.1.7 and 9.1.7.2 E2/AS1

Framing

CCA treated BBS 20x40-V  
H3.2 timber cavity batten

75mm annular grooved  
rose head, silicone bronze  
or stainless steel nail

Rustic plugs to suit  
weatherboard profile  
fixed in bed of sealant

Seal between board with  
continuous bead of  
Construction sealant

90x19mm  
Coverboard BBS202

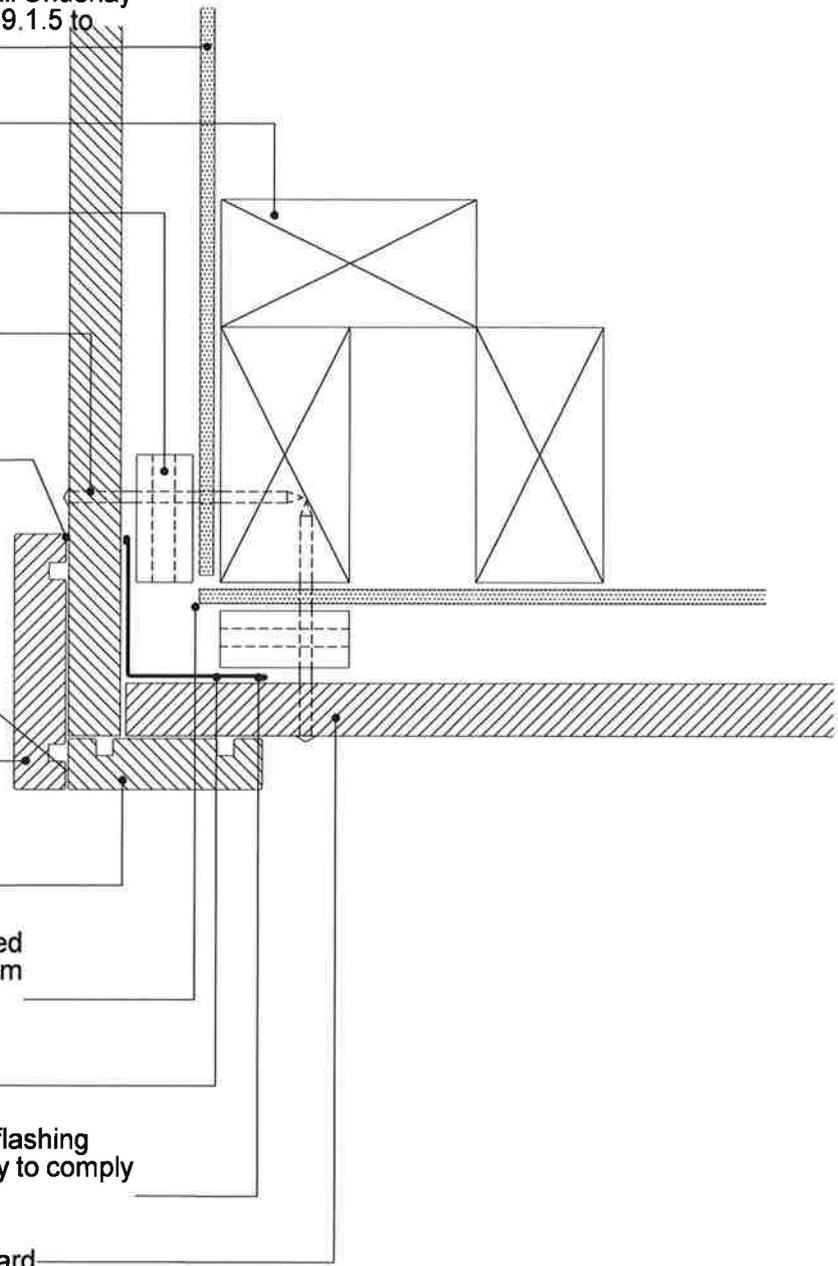
69x19mm  
Coverboard BBS201

80mm PBS butyl tape lapped  
evenly to corner over 100mm  
strip PBS Butyl primer

9x9mm compressible  
foam strip

Minimum 50x50mm corner flashing  
hem edge folds compatibility to comply  
with NZBC E2/AS1

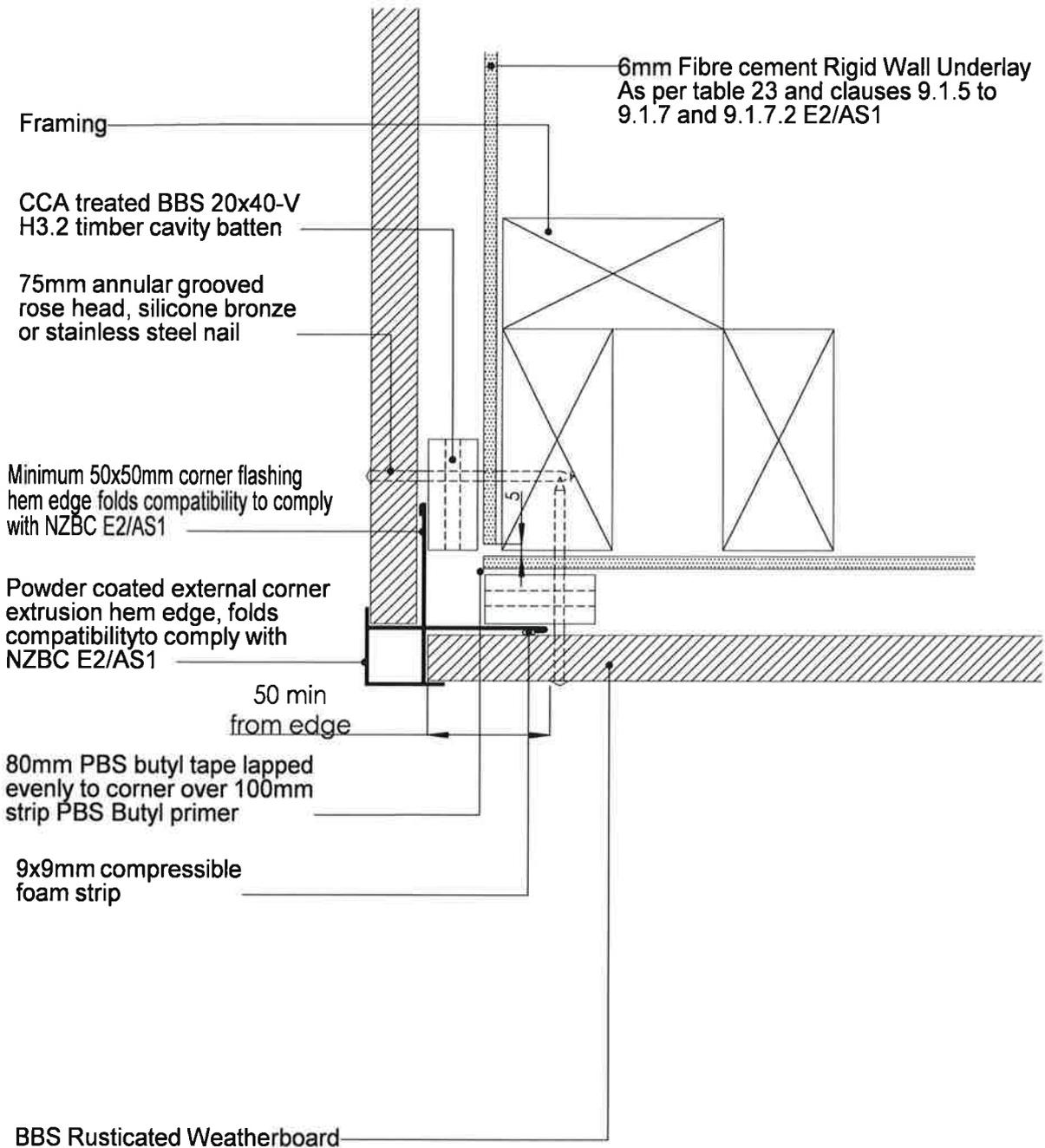
BBS Rusticated Weatherboard



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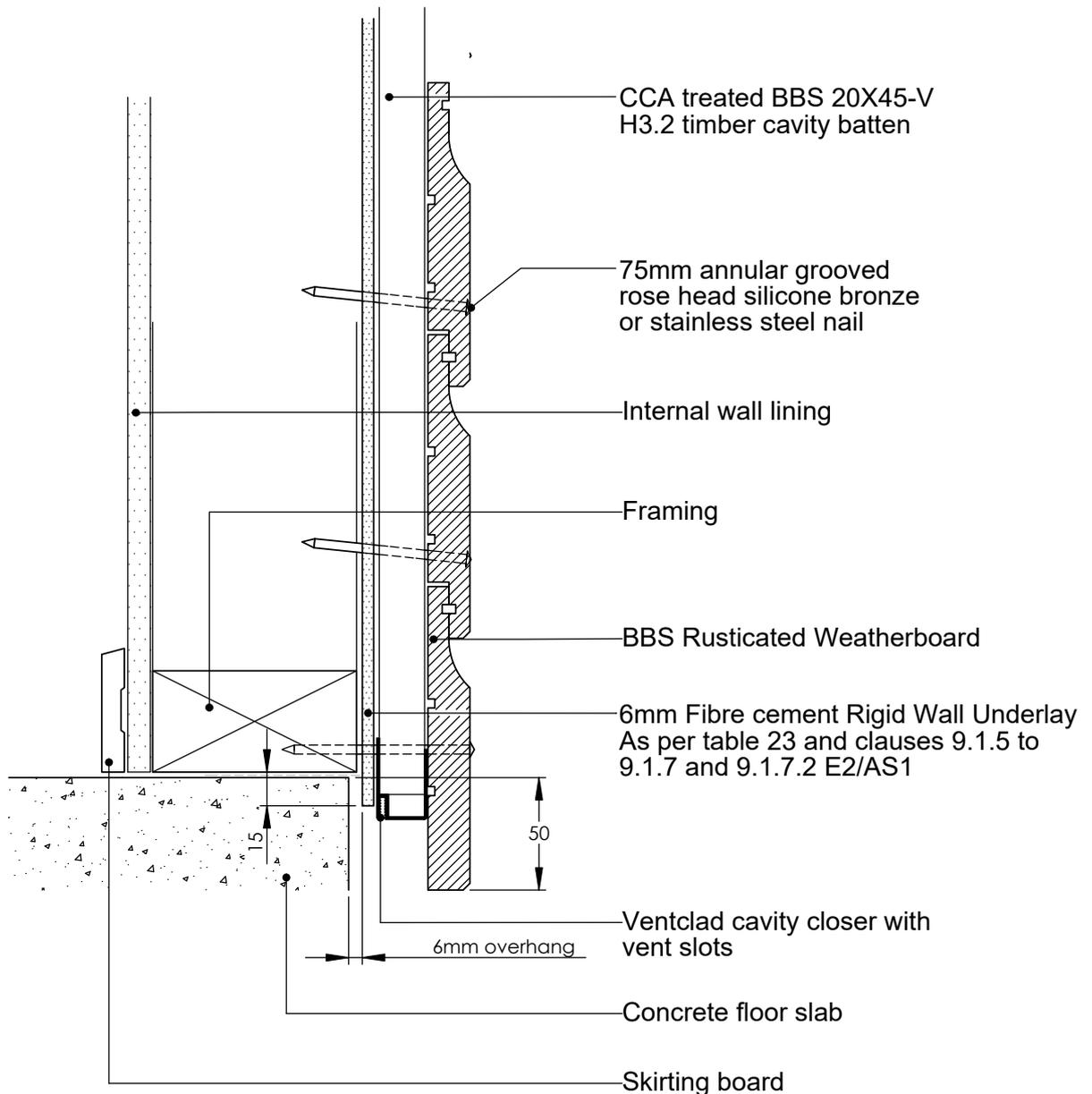
- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
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- Timber to NZBC B2 durability B23.1 (b), Western Red Cedar, Larch



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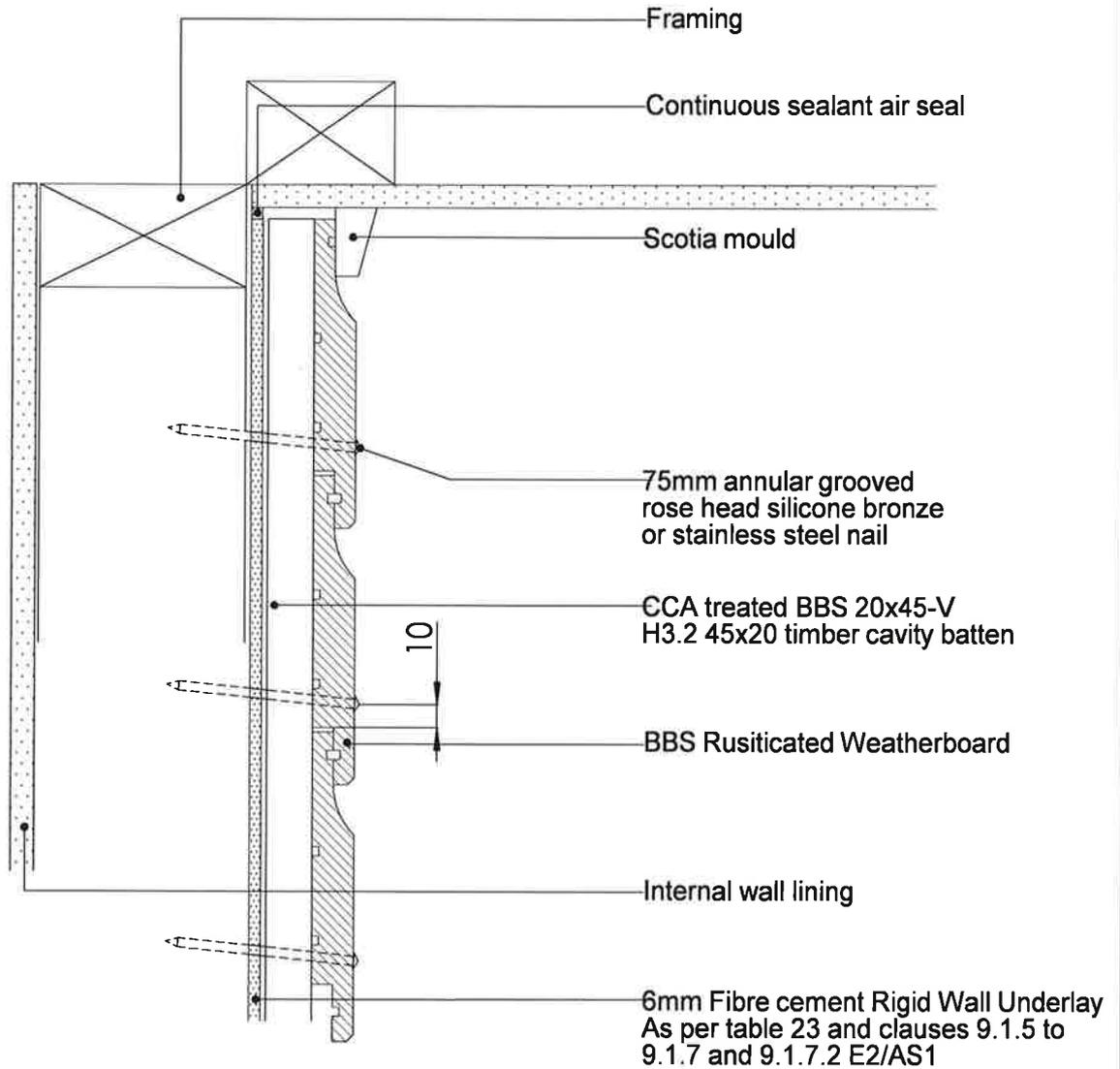
- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
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- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch



TITLE:					copyright BBS Timbers LTD ©		Bottom plate detail	
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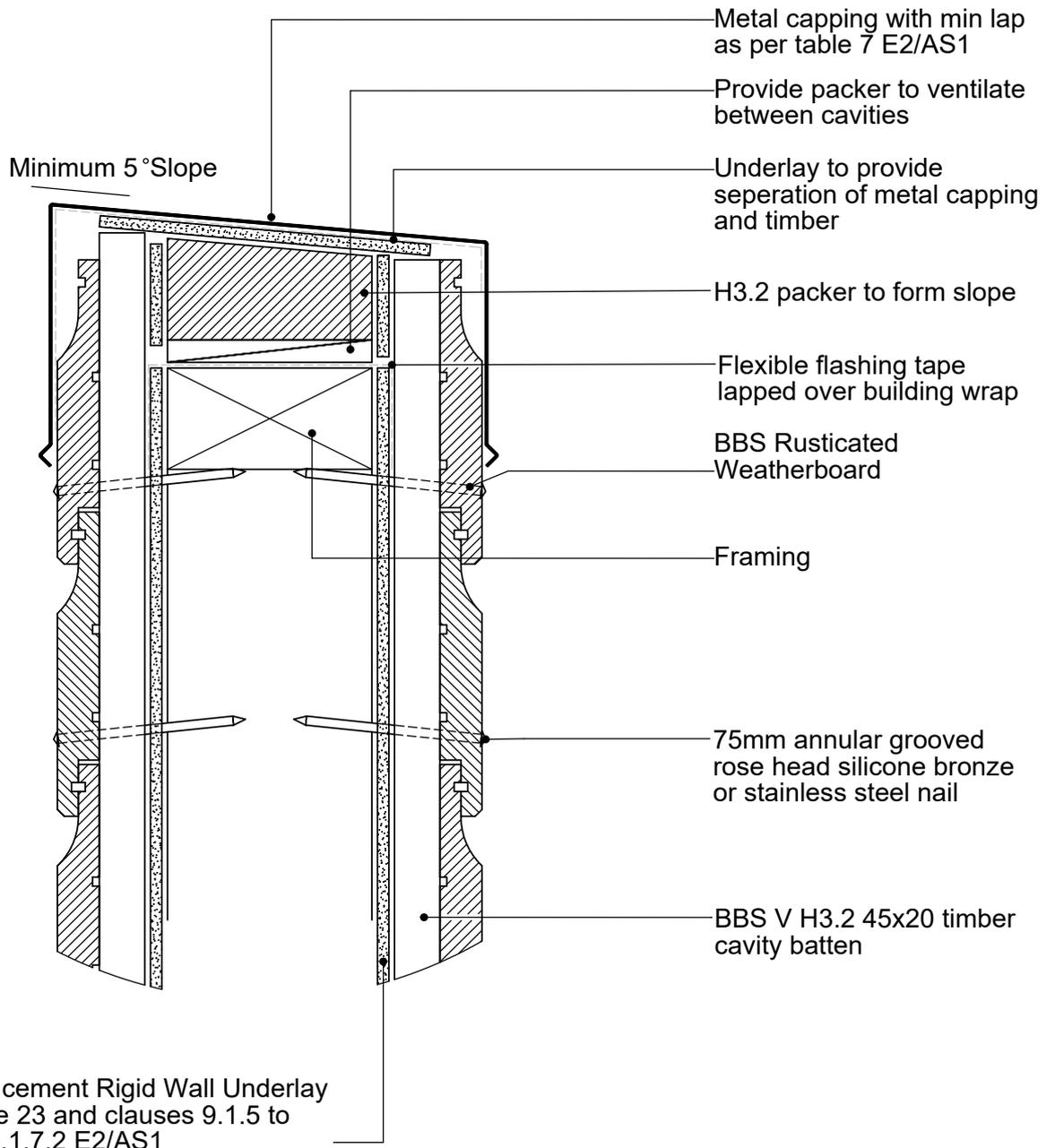
- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
- Provide PVC tape bond break between H3.2 battens and any flashing
- Rigid & Flexible underlay as per table 23 and clauses 9.1.5 to 9.1.7
- Timber to NZBC B2 durability B23.1 (b), Western Red Cedar, Larch



TITLE:					copyright BBS Timbers LTD ©	Top Plate to Soffit Detail	
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DRAWN						R-RB-08	
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APPVD						SCALE:1:10 DNS	SHEET 1 OF 1

Notes:

- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
- Provide PVC tape bond break between H3.2 battens and any flashing
- Rigid & Flexible underlay as per table 23 and clauses 9.1.5 to 9.1.7
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TITLE:					copyright BBS Timbers LTD ©		Parapet Detail	
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**Notes:**

- All nail fixings pre-drilled minimum 1mm diameter smaller than nail guage
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
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- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch

80mm PBS butyl tape wrapped evenly to corner over 100mm strip PBS Butyl primer

CCA treated BBS 20x45-V H3.2 timber cavity batten

9x9 compressible foam strip

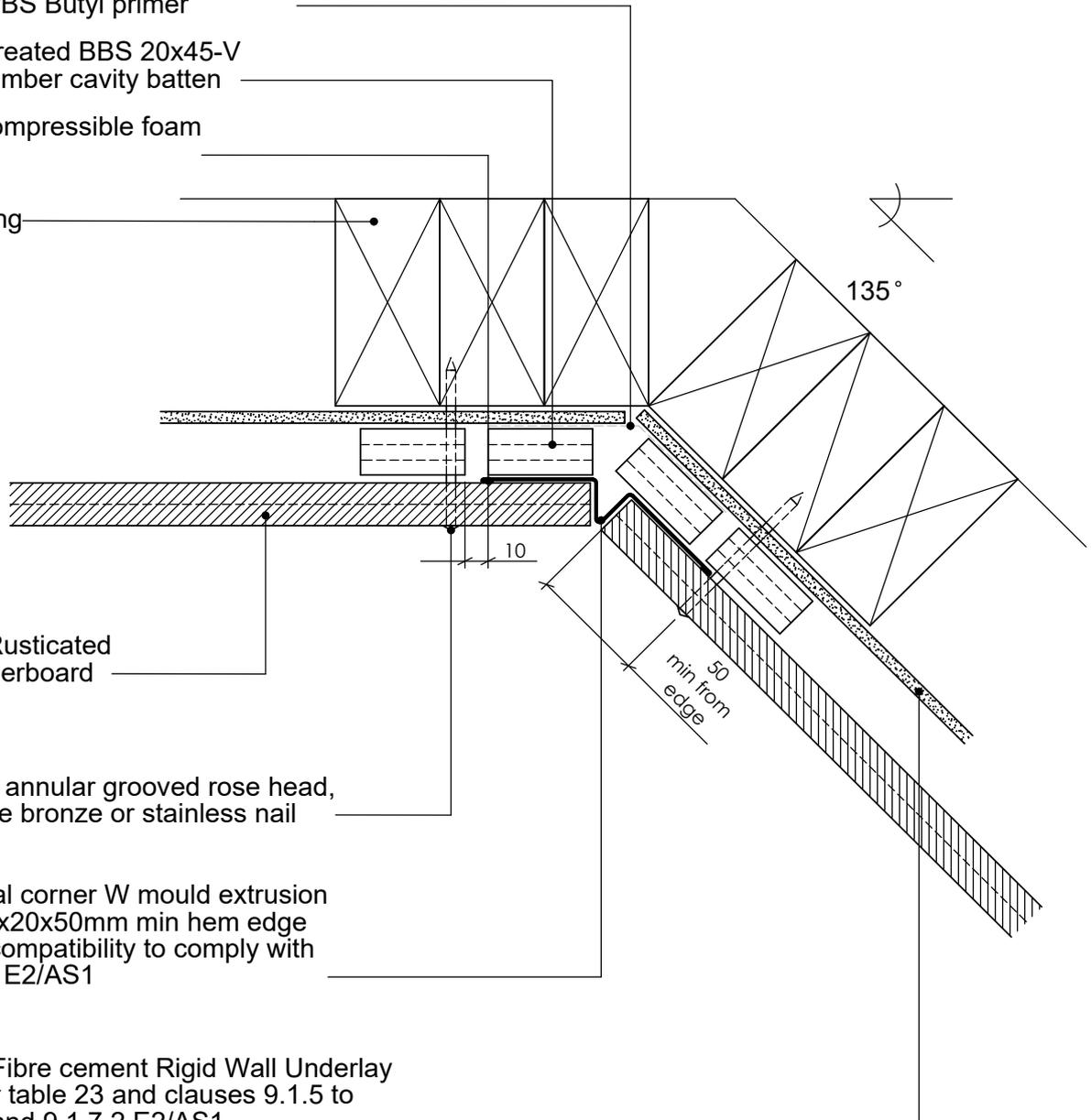
Framing

BBS Rusticated Weatherboard

75mm annular grooved rose head, silicone bronze or stainless nail

Internal corner W mould extrusion 50x20x20x50mm min hem edge folds compatibility to comply with NZBC E2/AS1

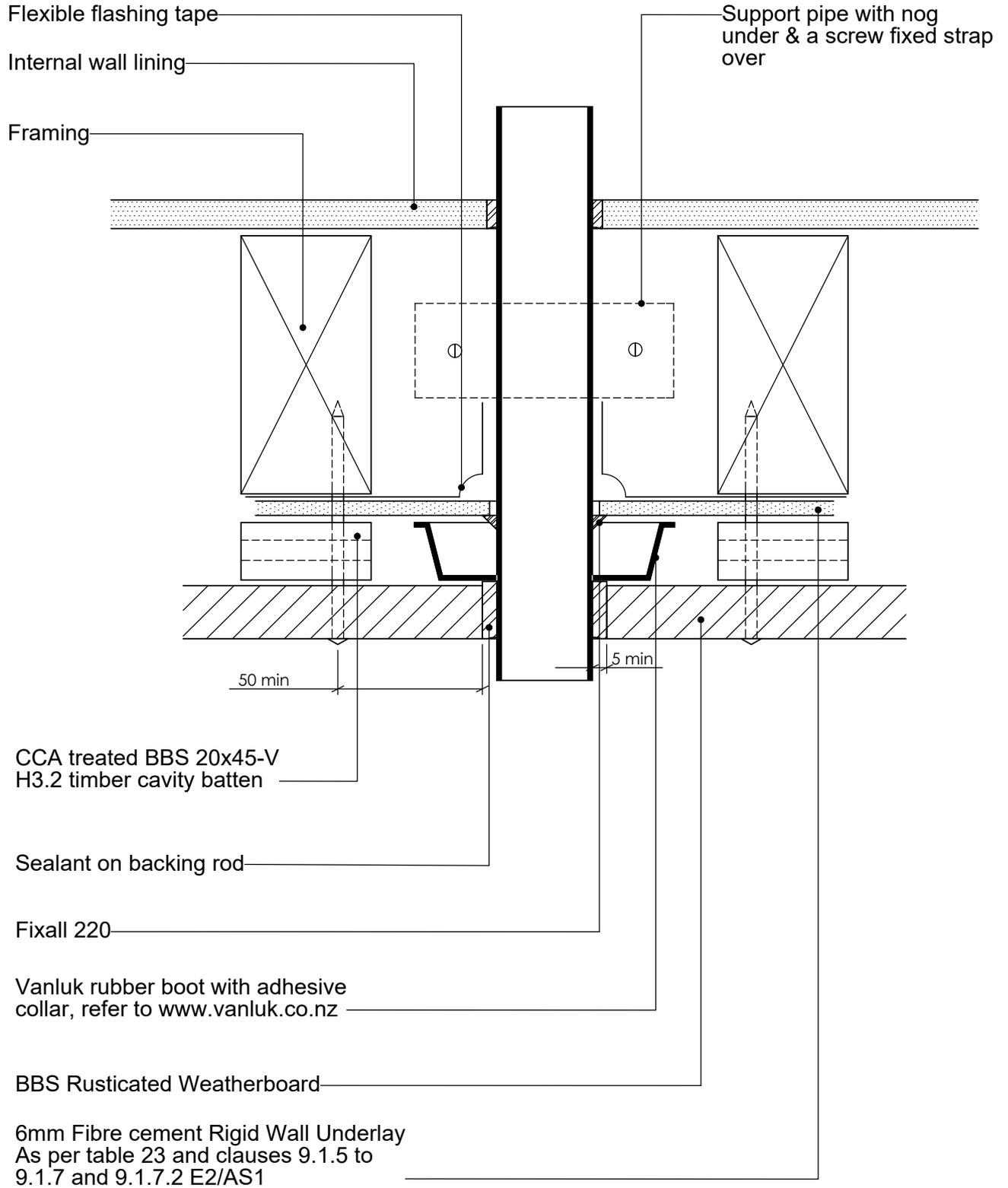
6mm Fibre cement Rigid Wall Underlay As per table 23 and clauses 9.1.5 to 9.1.7 and 9.1.7.2 E2/AS1



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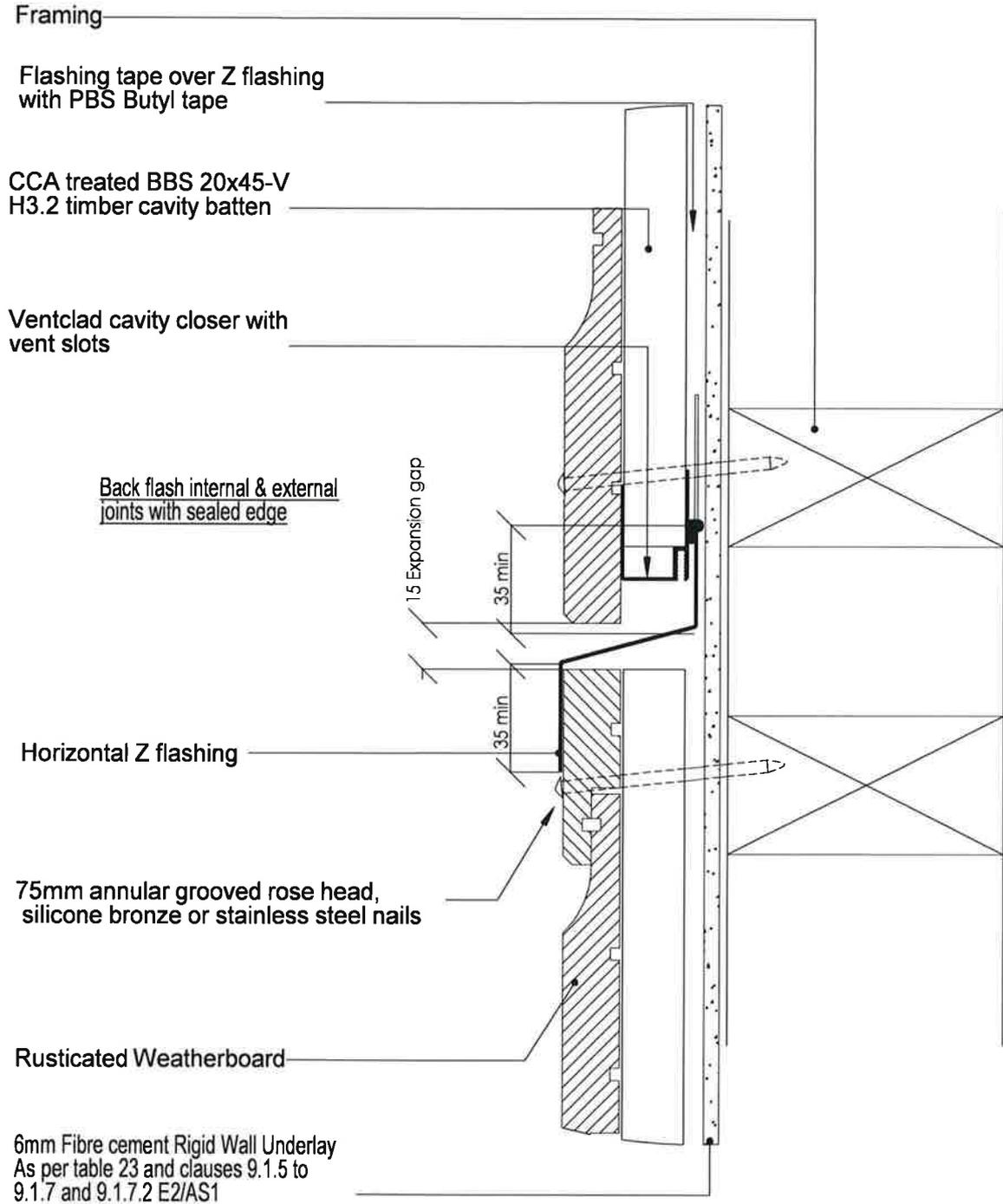
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- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
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- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch



TITLE:					copyright BBS Timbers LTD ©		Pipe Penetration Detail	
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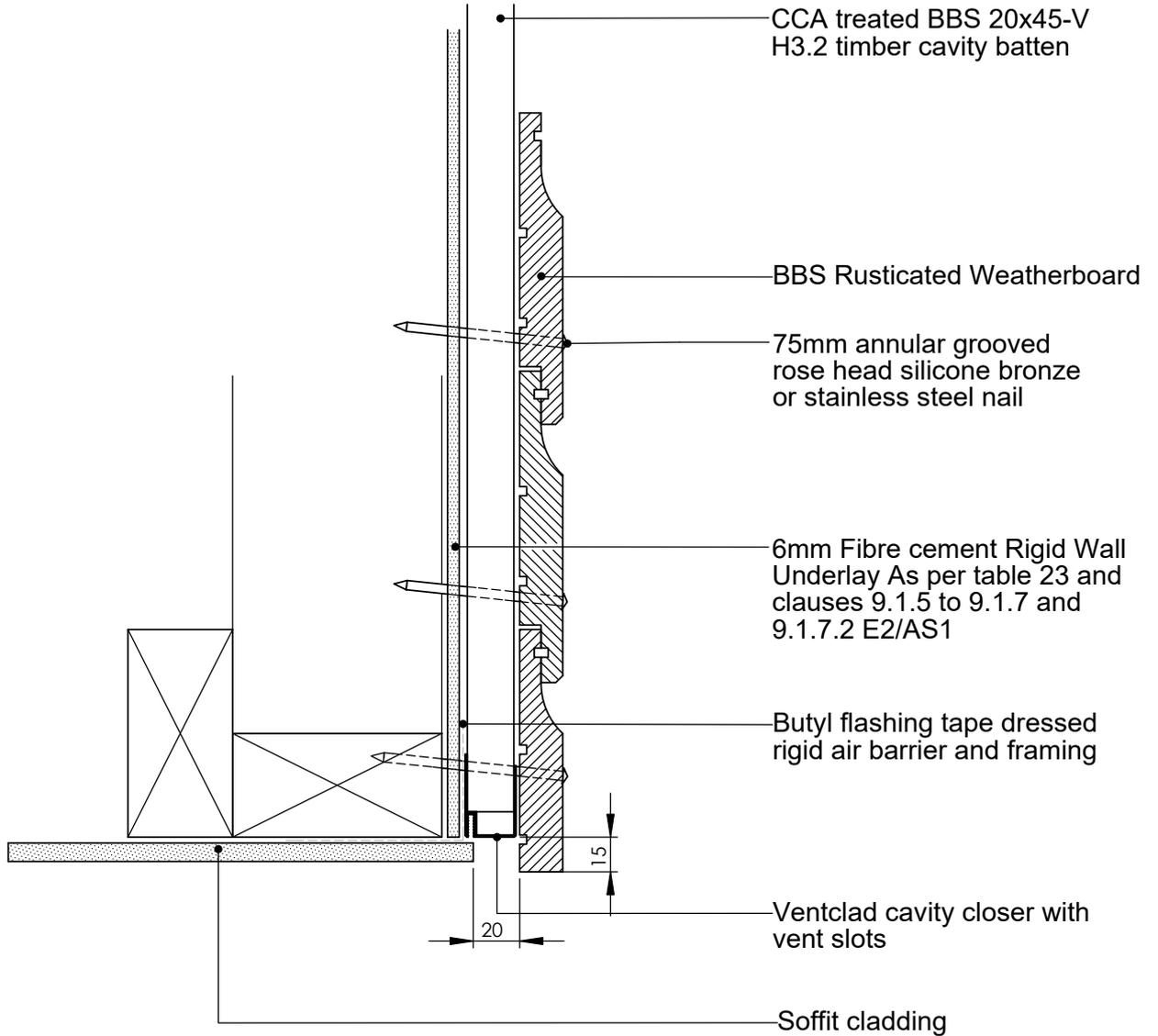
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- Timber to NZBC B2 durability B23.1 (b), Western Red Cedar, Larch



TITLE:						Horizontal Joint Detail																
<table border="1"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> <th></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						NAME	SIGNATURE	DATE														DWG NO.
NAME	SIGNATURE	DATE																				
SCALE:1:10				DNS		SHEET 1 OF 1																

Notes:

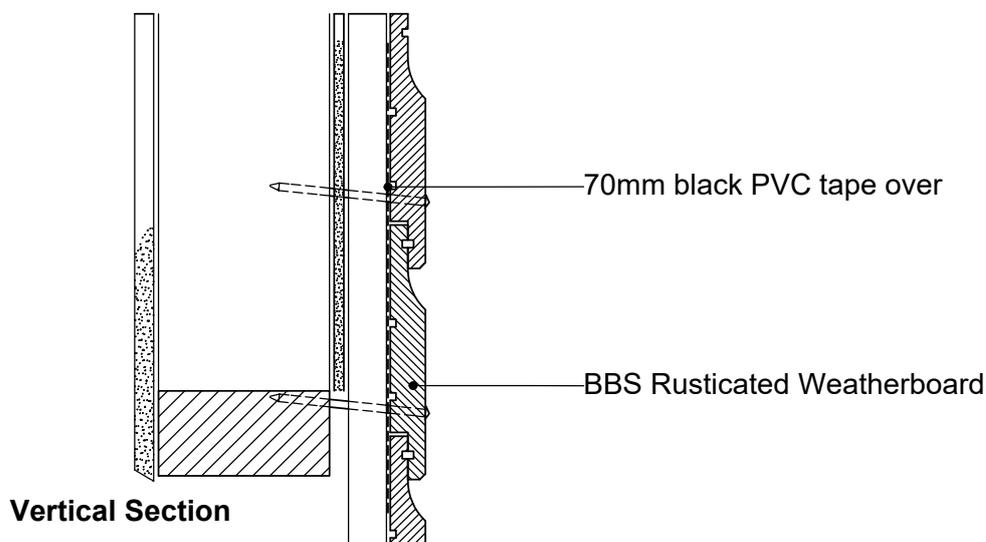
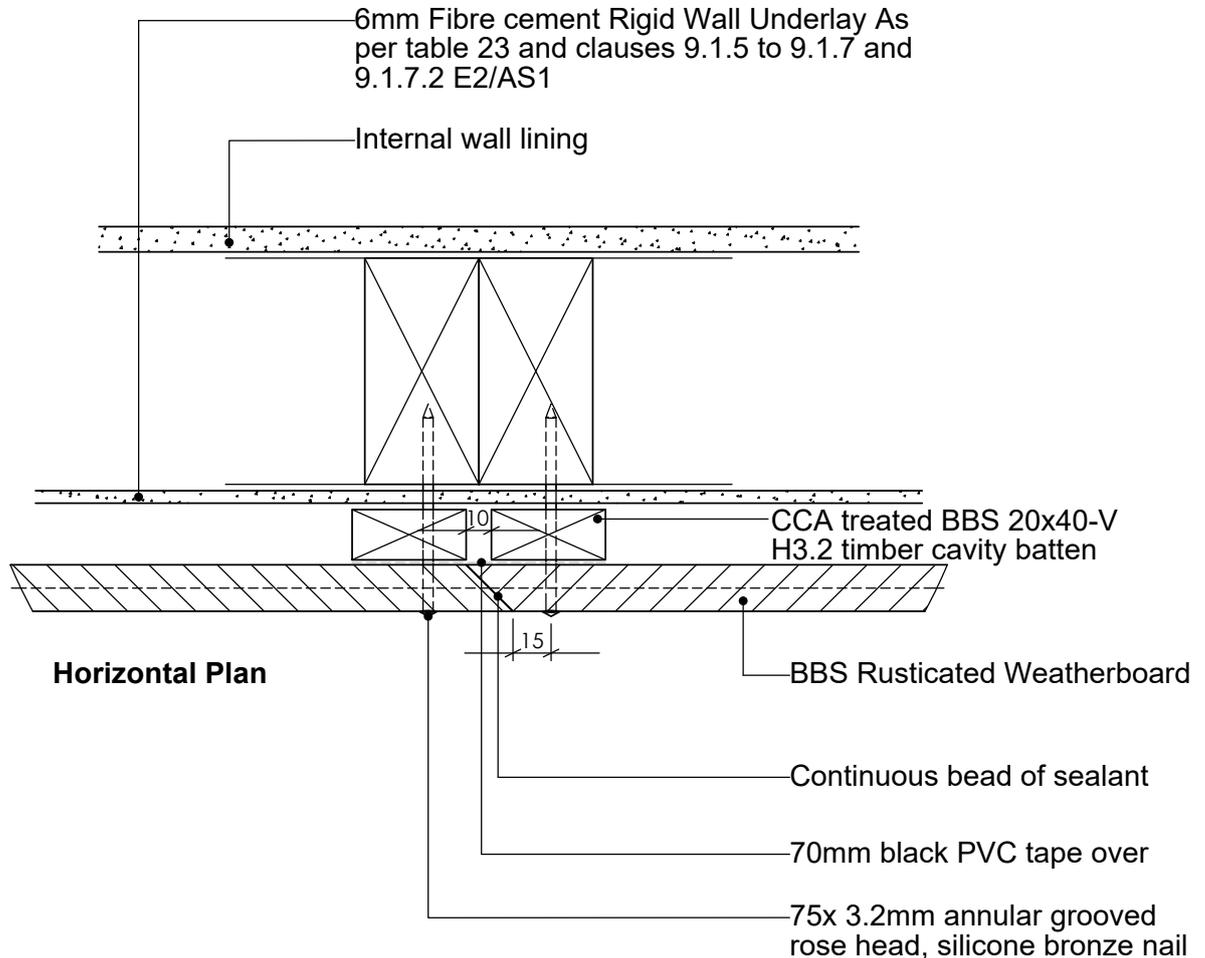
- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
- Provide PVC tape bond break between H3.2 battens and any flashing
- Rigid & Flexible underlay as per table 23 and clauses 9.1.5 to 9.1.7
- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch



TITLE:					copyright BBS Timbers LTD ©		Soffit detail	
	NAME	SIGNATURE	DATE	Rev	 27 Kioreroa road PO Box 1407 Whangarei 09 438 9358	DWG NO.	A4	
DRAWN						R-RB-14		
CHK'D								
APPVD						SCALE:1:10 DNS	SHEET 1 OF 1	

Notes:

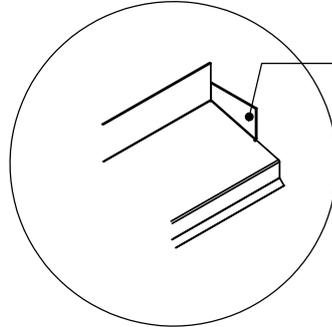
- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
- Provide PVC tape bond break between H3.2 battens and any flashing
- Rigid & Flexible underlay as per table 23 and clauses 9.1.5 to 9.1.7
- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch



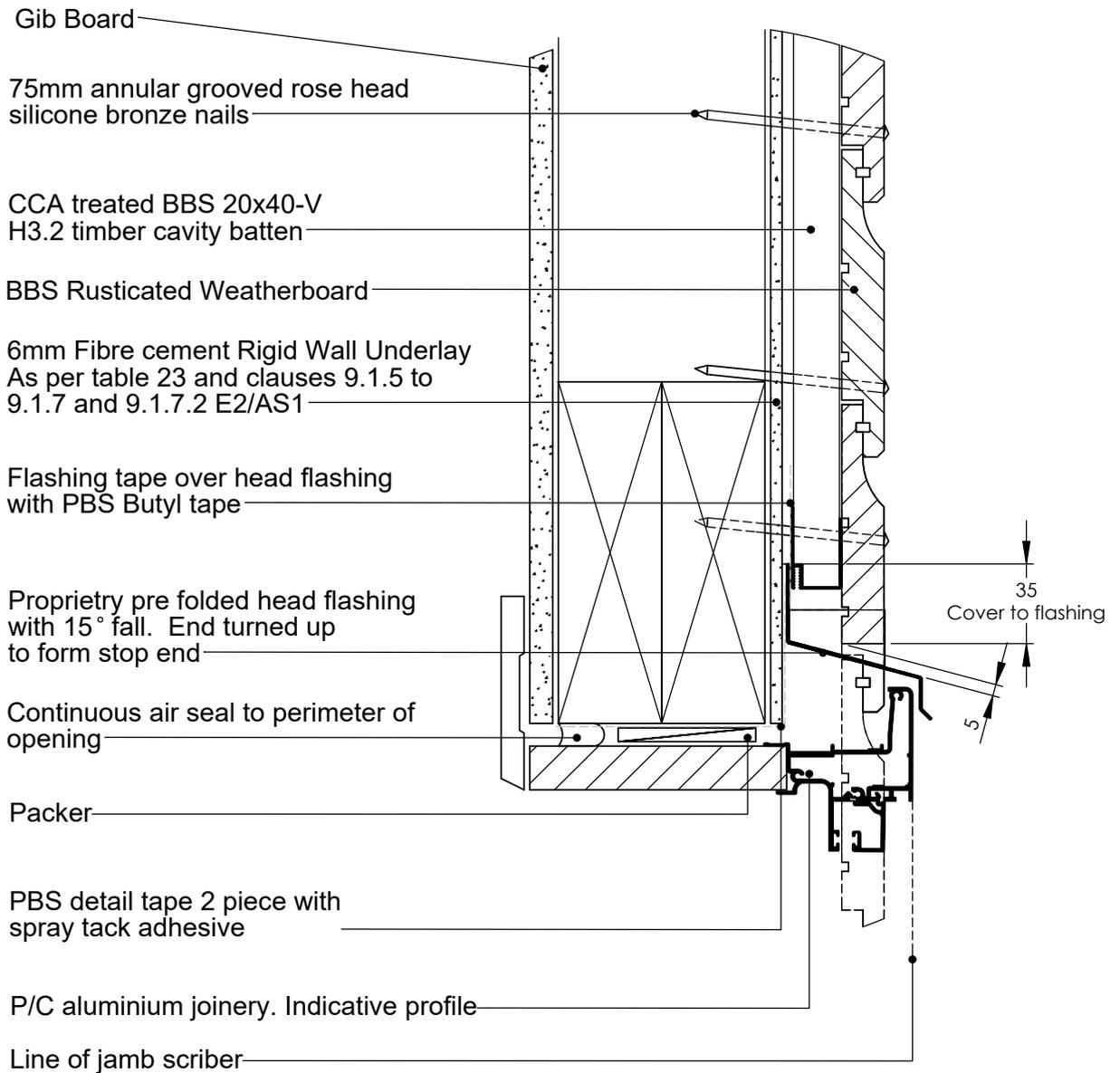
TITLE:					copyright BBS Timbers LTD ©		Scarf jointing detail	
	NAME	SIGNATURE	DATE	Rev		27 Kioreroa road PO Box 1407 Whangarei 09 438 9358	DWG NO.	A4
DRAWN							R-RB-15	
CHK'D								
APPVD							SCALE:1:10 DNS	SHEET 1 OF 1

Notes:

- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
- Provide PVC tape bond break between H3.2 battens and any flashing
- Rigid & Flexible underlay as per table 23 and clauses 9.1.5 to 9.1.7
- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch



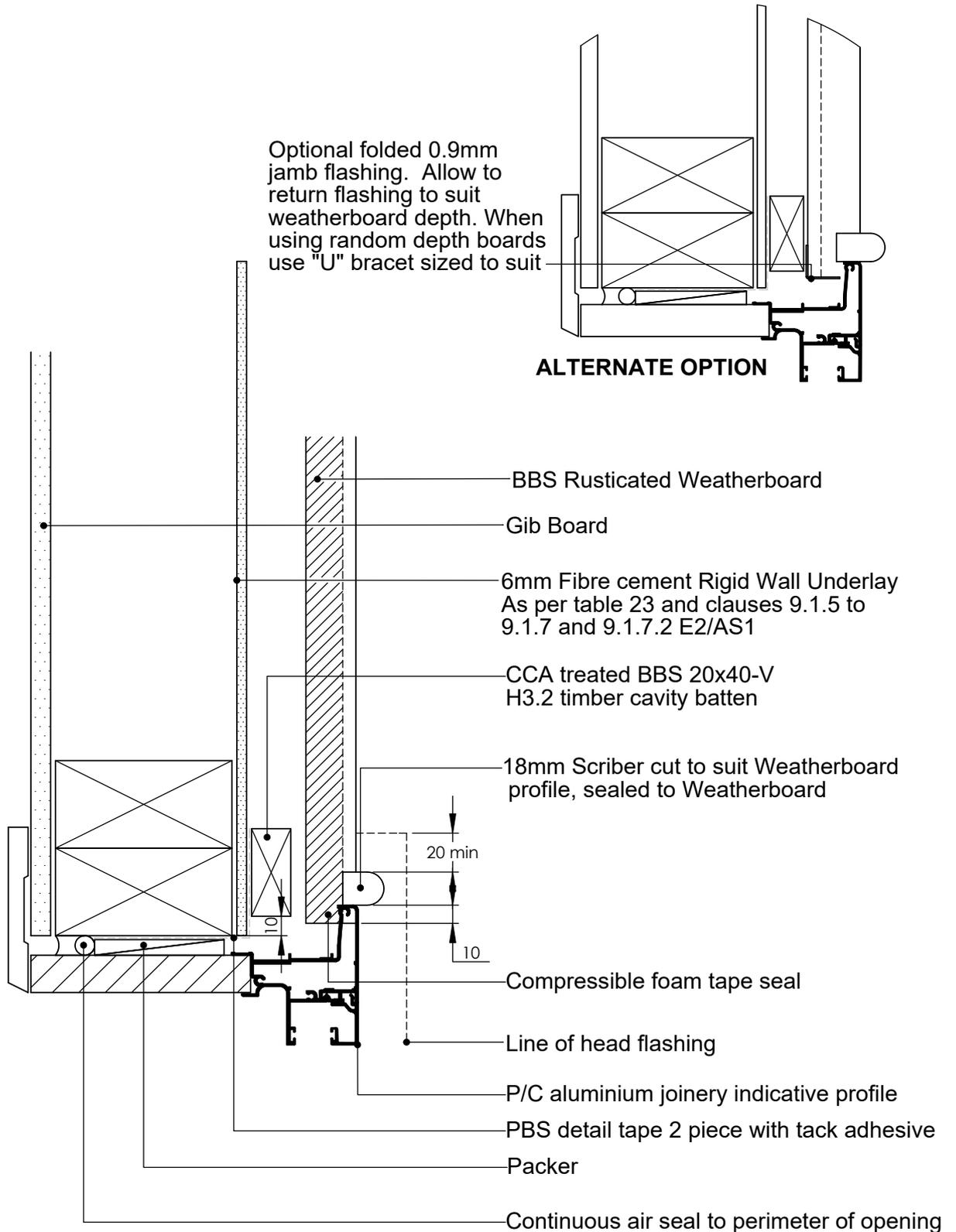
Head flashing turned up to form stop end. 50mm long



TITLE:					copyright BBS Timbers LTD ©		Aluminium Head Detail	
	NAME	SIGNATURE	DATE	Rev		27 Kioreroa road PO Box 1407 Whangarei 09 438 9358	DWG NO.	A4
DRAWN							R-RB-20	
CHK'D								
APPVD								
						SCALE:1:10	DNS	SHEET 1 OF 1

Notes:

- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
- Provide PVC tape bond break between H3.2 battens and any flashing
- Rigid & Flexible underlay as per table 23 and clauses 9.1.5 to 9.1.7
- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch

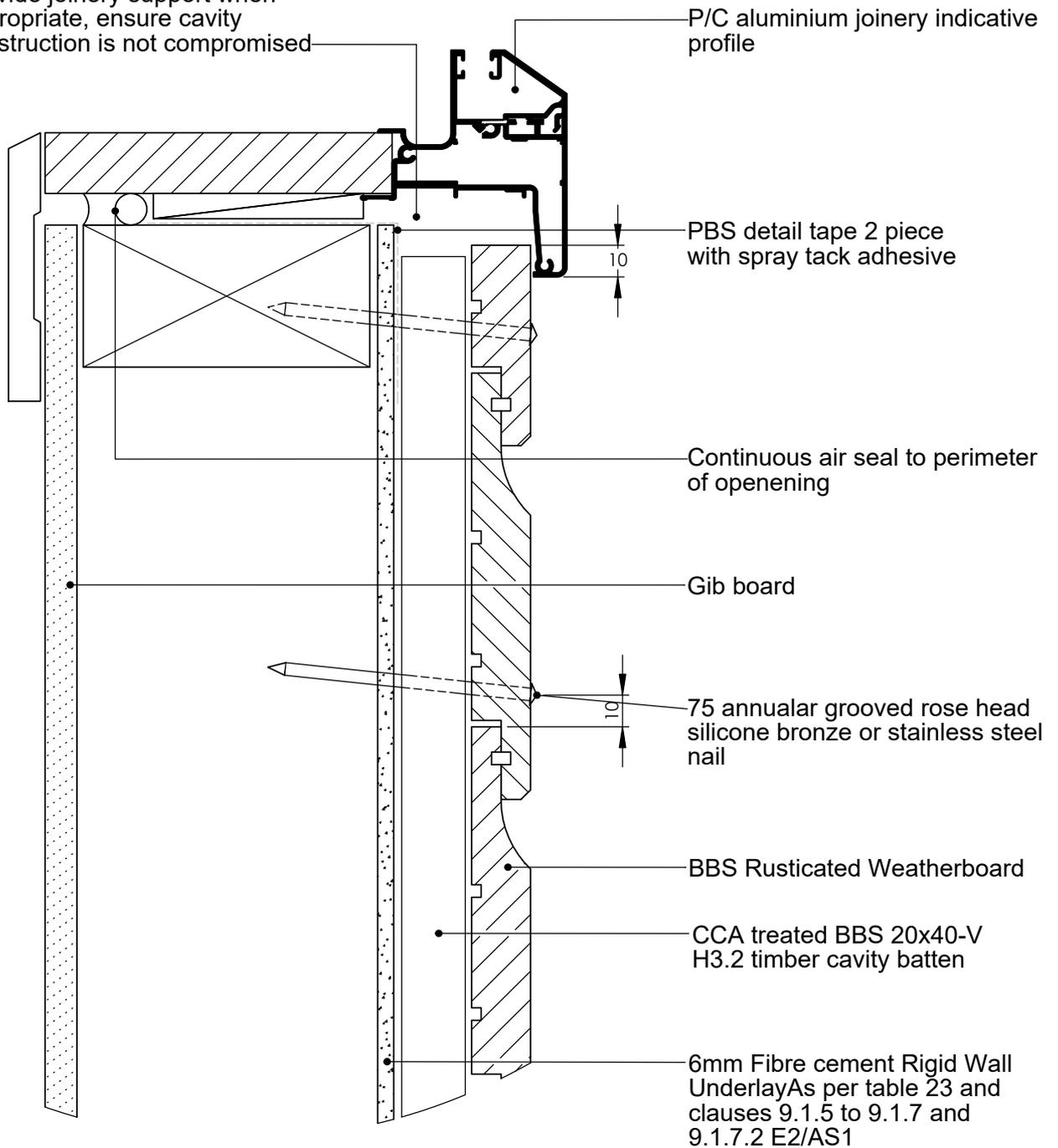


TITLE:					copyright BBS Timbers LTD ©		Aluminium Jamb Detail	
	NAME	SIGNATURE	DATE	Rev		27 Kioreroa road PO Box 1407 Whangarei 09 438 9358	DWG NO.	A4
DRAWN							R-RB-21	
CHK'D								
APP'VD							SCALE:1:10 DNS	SHEET 1 OF 1

Notes:

- All nail fixings pre-drilled minimum 1mm diameter smaller than nail gauge
- All products to be pre-coated & cut edges to be sealed as per Branz Bulletin 411
- All materials and fixtures are to comply with E2/AS1 clause 2.2
- Provide PVC tape bond break between H3.2 battens and any flashing
- Rigid & Flexible underlay as per table 23 and clauses 9.1.5 to 9.1.7
- Timber to NZBC B2 durability b2.3.1 (b), Western Red Cedar, Larch

Provide joinery support when appropriate, ensure cavity construction is not compromised



TITLE:					copyright BBS Timbers LTD ©		Aluminium Sill Detail	
	NAME	SIGNATURE	DATE	Rev		DWG NO.	R-RB-22	A4
DRAWN						27 Kioreroa road PO Box 1407 Whangarei 09 438 9358		
CHK'D								
APP'VD								
						SCALE:1:10	DNS	SHEET 1 OF 1