DENDRO Shiplap
Technical Manual

CONTENTS

Technical Info

Architectural Drawings

PRODUCT WARRANTY

DENDRO is Southern Pine's premium product range of H3.2 treated, solid, clear weatherboards. Manufactured from high quality, pruned New Zealand Radiata Pine. This product is warranted for 25 years if used in accordance with the enclosed terms and conditions.

Southern Pine Products Ltd (SPP) warrants to replace and / or compensate for defective or substantial product failure subject to the claimant providing;

- proof that the product has been made or supplied by SPP and has failed or is substantially unfit for purpose
- timely written notification of the failure of the product (within 30 days of becoming apparent)
- reasonable evidence to indicate the product has been stored, installed and maintained in keeping with normal best practises and consistent with SPP instructions (as per SPP website and brochures)

Warranty is limited to replacement of product or cost value of product at SPP sole discretion and does not extend to any labour or consequential damage caused to other product. Such replacement will be considered full and final compensation.

Cladding and exterior products must be installed by a qualified builder (LBP).

H3.2 Treated DENDRO
25 Year Limited Product Warranty

Inclusions:

- Southern Pine DENDRO products
- Product delamination, splitting or breaking not for reasons excluded below
- Product decay or rot
- Gross manufacturing defects
- Incorrect profiling other than minor variations

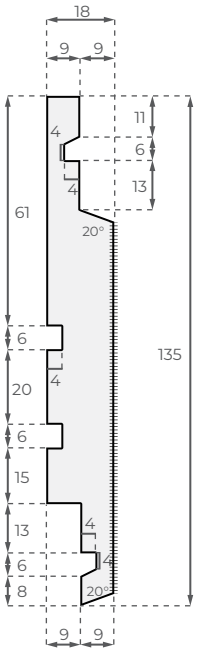
Exclusions:

- Evidence that the product has not been correctly stored, installed or maintained. For example, product wet due to incorrect storage, incorrect fixing of weatherboards, failing to properly seal cut ends or punch nails, not applying paint in a timely manner etc.
- Extreme climate areas where regular maintenance has not been carried out such as coastal zones which may require regular washing, or high UV zones which may require more frequent re-painting
- Inappropriate product use that is not consistent with best practise. For example, H3.2 treated product placed in contact with the ground
- Product impacted by natural disasters
- Damage after purchase or delivery
- Fair wear and tear with regard to product's age and conditions of use

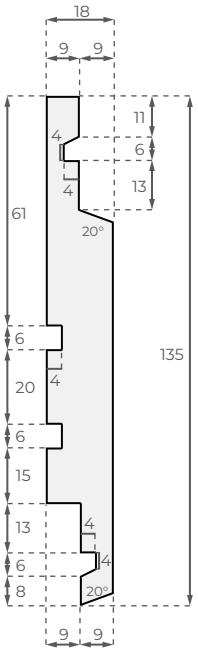
PROFILES

All SPP Shiplap weatherboard profiles have been machined to be compliant with NZS 3617 and BRANZ BU411.

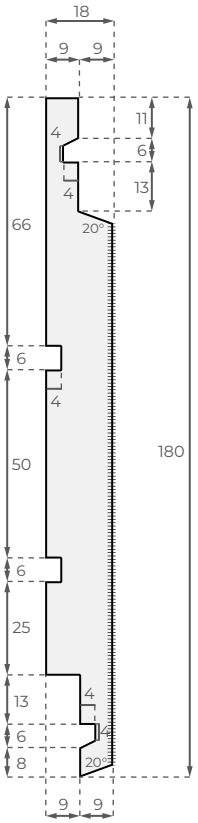
Scale 1:2 at A4



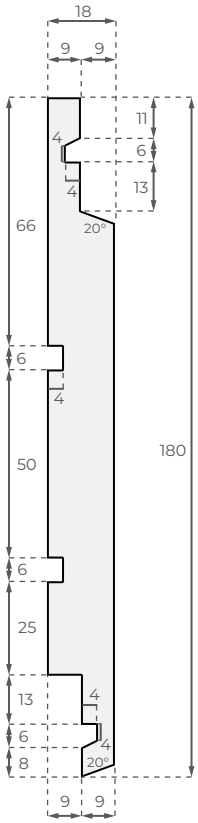
Shiplap 135x18
Bandsawn Face
Unprimed:
PC2CCWBSBS13518
Preprimed:
PC2PPWBSBS13518



Shiplap 135x18
Dressed Face
Unprimed:
PC2CCWBSDF13518
Preprimed:
PC2PPWBS13518



Shiplap 180x18
Bandsawn Face
Unprimed:
PC2CCWBSBS18018
Preprimed:
PC2PPWBSBS18018



Shiplap 180x18
Dressed Face
Unprimed:
PC2CCWBSDF18018
Preprimed:
PC2PPWBS18018

Bandsawn Face

Dressed Face

Weatherboard Conversion Chart

Profile	Nominal/ Ex Size (mm)	Finished Size (mm)	Effective Cover (mm)	L/M per m^2
Vertical Shiplap	150x25	135x18	110	9.09
	200x25	180x18	155	6.45

KEEP WEATHERBOARDS & FASCIA
FLAT, DRY AND PROTECTED

- PROTECT
- PREPARE
- INSTALL
- PAINT

Protect, prepare, install & paint weatherboards
as per the Instructions sticker on every length

BUILDING CODE

The SPP Vertical Shiplap Weatherboard System, if designed and installed as per this literature, will meet the following provisions of the New Zealand Building Code (NZBC):

- Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.4 (a), (b), (c), (d) and (e) for the relevant physical conditions of B1.3.3 (a), (e), (f), (h), (j), and (q)
- Clause B2 Durability: Performance B2.3.1(b) and B2.3.2(b)
- Clause E2 External Moisture: Performance E2.3.2, E2.3.3, E2.3.5, E2.3.7(b) and (c)
- Clause F2 Hazardous Building Materials: Performance F2.3.1

SCOPE & LIMITATIONS OF USE

The SPP Vertical Shiplap Weatherboard System must be installed by a suitably qualified and experienced trade person. Where Restricted Building Work (RBW) applies, the installer shall be a Licensed Building Practitioner (LBP) or supervised by an LBP. It is the specifier's responsibility to ensure that the details in this specification are appropriate for the intended application and that additional detailing is obtained for a specific design or any areas that fall outside the scope of the SPP E2/AS1 Acceptable solution.

HEALTH & SAFETY

This product should be handled in accordance with safe work practices.

As with all wood and timber products, exposure to dust from this product may cause irritation to the eyes, respiratory system and skin via inhalation or skin contact.

Work areas should be kept clean. Sawing, sanding, and routing equipment should be fitted with dust extractors so that dust levels are kept within standards laid down by WorkSafe New Zealand. Wearing a dust mask conforming to AS/NZS 1715 and AS/NZS 1716 and eye protection conforming to AS/NZS 1337 is highly recommended. Repeated inhalation of wood dust over many years may increase the risk of cancer.

When handling SPP products or using tools use appropriate PPE including, but not limited to, eye, ear and breathing protection for yourself and others who could be affected. Offcuts and sawdust of treated and/or coated timber are to be disposed of in accordance with local council requirements. Follow other manufacturer's advice on the use, handling and disposal of other products such as coatings and adhesives.

TYPICAL FIXING DETAIL

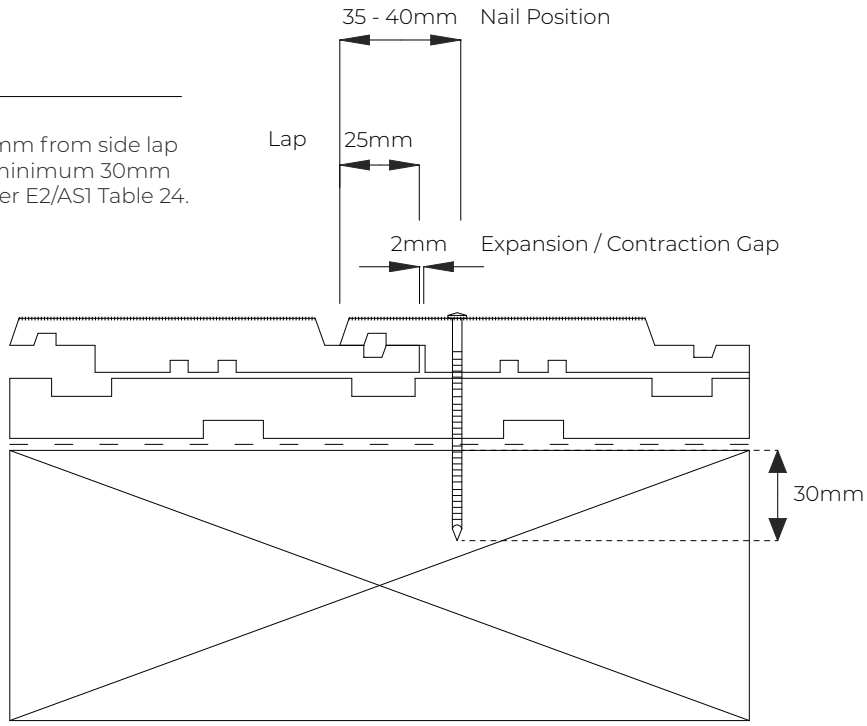
Bandsawn Face

Weatherboards to be single fixed, 10mm from side lap (40mm from edge of board), with a minimum 30mm penetration into framing timber as per E2/AS1 Table 24.

Vertical Shiplap Weatherboard
WBSBS 135x18 / WBSBS 180x18

Band Sawn Face Fixing Options

Nail Stainless Steel T316 Rose Head with Annular Grooved 75 x 3.15mm (or equivalent annular grooved RH nail). The head of the fixing must sit flush with the face of the board.



Dressed Face

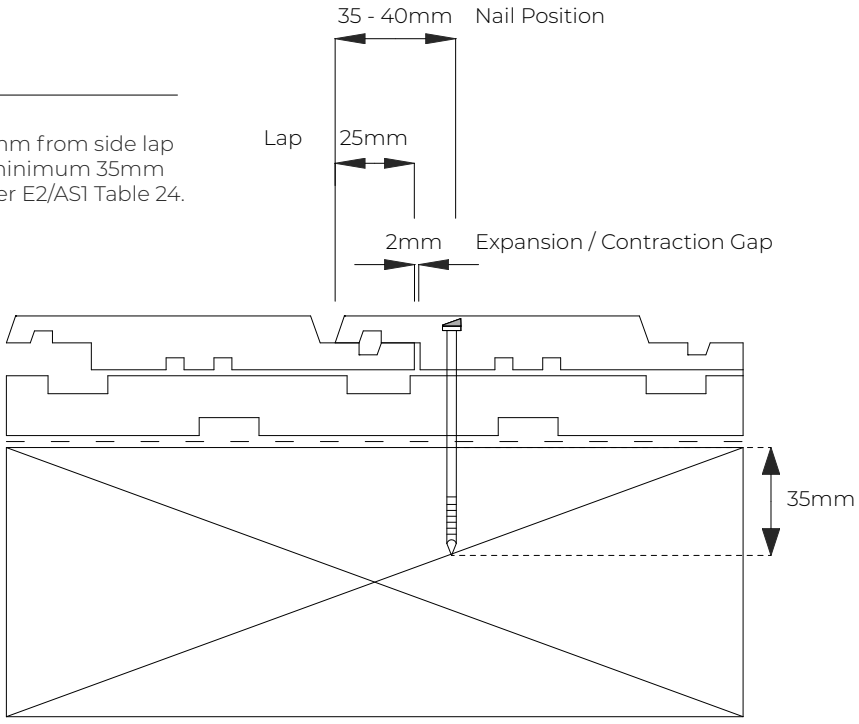
Weatherboards to be single fixed, 10mm from side lap (40mm from edge of board), with a minimum 35mm penetration into framing timber as per E2/AS1 Table 24.

Vertical Shiplap Weatherboard
WBS 135x18 / WBS 180x18

Dressed Face Fixing Options

Jolt Head Nail (Hand Driven)
- 65 x 3.15mm for direct fix
- 75 x 3.15mm on cavity fix

ECKO T-REX17 Weatherboard
Jolt Screw
- 8G x 65mm for direct fix
- 8G x 75mm on cavity fix
(or equivalent jolt head screw)



SPP DENDRO is a range of H3.2 treated, solid timber products which are supplied in either pre-primed and un-primed states. Timber products treated to H3.2 may be used in external applications and in accordance with NZ 3602:2003 sections 110 and 111.

Pre-primed DENDRO weatherboard have factory applied alkyd oil-based primer. To ensure the best protection ensure that at least one additional alkyd primer/undercoat is applied on site followed by at least two quality acrylic finishing coatings to complete weather proofing.

Note: H3.2 has a green (copper) tinge which fades over time. Product requiring staining may be affected by the H3.2 solution.

1. GRADE AND FINISH

- SPP DENDRO solid weatherboards are available in Premium Clear 2 and better.
- Sourced from a pruned log, clear on three faces as per No.1 Clears, but the reverse face is allowed some natural defects (small knot, resin pocket, or other tight defect).
- Profiles are available in both dressed finish and bandsawn finish.

2. HANDLING

SPP weatherboards and other products should be unloaded by hand, or with a Hiab forklift. Do not tip these products from a truck. Avoid scratching the face of the board, and always carry individual boards with their long sections upright to avoid excessive bending.

3. STORAGE

SPP weatherboards must remain dry at all times prior to installation. Product should be stored indoors on a flat surface, with gluts at 1m centres and at least 150mm off the ground.

Avoid direct sunlight and protect from both rain and ground moisture uptake. If storing outside use a secondary waterproof cover and groundsheet whilst allowing for good air circulation.

4. ACCLIMATISATION

At the time of installation, the cladding moisture content must be near the average moisture content which can be expected at site (typically 10% – 16% depending on the location and the time of year). Please allow approximately 3-5 days for the cladding to acclimatise before installation.

5. DIMENSIONAL CHANGE

Timber is hygroscopic (absorbs moisture from the atmosphere) and will take up and release moisture until it reaches the equilibrium moisture content (EMC) with the surrounding environment. During this process, which is ongoing, the timber expands and contracts and thus some dimensional change will occur. This will be minimised by the application of a quality paint system.

6. WEATHERBOARD MOVEMENT

Timber weatherboards are designed to accommodate moisture, thermal and seismic movement in the board laps. DO NOT USE ANY SEALANTS OR GLUES between the boards or board laps, as this may inhibit the natural expansion and contraction of the cladding.

7. PAINT AND COATINGS (PRIOR TO INSTALL)

To avoid laplines which may occur, pre-paint/stain the overlap of the profiles in the same colour as the intended topcoat finish.

Seal all cut ends with two coats of oil-based exterior primer.

8. WEATHERBOARD INSTALLATION

Weatherboard must be installed as per the current building code and BRANZ recommended good building practices.

Single fix all weatherboard profiles. Refer to E2/AS1 Table 24 for limitations. (Please note: This is profile specific refer to SPP technical drawings for nail position.)

When fixing to H3.2 CCA treated timber in either cavity or frame the use of 304/316 Stainless Steel fixings (or durable equivalents, such as silicon bronze) is a requirement of the NZ Building Code.

Ensure weatherboards, once installed, are at least 150mm from the ground and 100mm from decks and terraces as per the NZ Building Code.

Fixing with Paint Finish

When fixing to H3.2 CCA treated timber, in either cavity or frame, the use of 304/316 Stainless Steel fixings (or durable equivalents, such as silicon bronze) is a requirement of the NZ Building Code.

As per E2/AS1 Table 24. When fixing DENDRO cladding for the intention of painting a jolt head fixing with a minimum framing penetration of 35mm is required.

SPP recommend the use of 304/316 Stainless Steel for all DENDRO cladding.

Punch nails/screws, putty over and spot prime immediately to avoid moisture penetration.

Fixing with Stain Finish
Galvanised fixings cannot be used with stain for exterior purposes when installed as part of a cladding system.

As per E2/AS1 Table 24. When fixing DENDRO cladding for the intention of staining a Rose Head Nail or equivalent with a minimum framing penetration of 30mm is required. The head of the fixing must sit flush with the face of the board. SPP recommend the use of 304/316 Stainless Steel fixings for all DENDRO cladding as per the NZBC standards outlined below.

NZ Building Code Standard 3602 105.4 states "Preservative treated timber may affect the durability of metal fixings and components... To satisfy the durability provisions of Clause B2 of the NZBC and those acceptable solutions set out in NZS 3604 the correct protective system or grade of stainless steel shall be used." Further, C105.4 states "Timber treatments may affect the life of fasteners... Hot dipped galvanized nails, wire dogs, bolts and sheet fixings in contact with copper chrome arsenate (CCA) treated timber in damp conditions can have an expected life of less than 15 years."

9. RESIN BLEED
Resin Bleed is when resin comes to the surface of a painted weatherboard. Whilst unsightly, the occurrence of resin bleed does not affect the durability or long-term performance of the weatherboard The choice of a light top colour and a correctly applied quality paint system will help to minimise this occurrence.

SPP makes every effort to source non-resinous lumber and identify resin pockets during the manufacturing process, however we do not warranty against this natural feature.

10. COLOUR CHOICE
Dark colours absorb heat from the sun and may cause excessive movement, distortion and possibly resin bleed. Light colours reflect the suns heat. Therefore, only light colours with a light reflectance value (LRV) of greater than or equal to 45% may be used. Refer paint colour charts for details.

11. FINISHING AND PAINTING
- Painting should take place as soon as possible after installation. If boards have been exposed for longer than 4 weeks, some sanding and re-priming may be required.
- Check the moisture content of the boards before painting. Equilibrium Moisture Content (EMC) should be at 16% or less. Use a correctly calibrated moisture meter to check.
- Once installed, remove all loose material such as dirt from the surface. Spot prime any exposed timber with two coats of oil-based exterior primer. Spot prime the filled nail holes.
- Once prepared, apply a minimum of one coat of oil-based primer/under coat followed by two full coats of 100% premium acrylic low gloss house paint to the manufacturer's specification, at a rate of 12-14m2/L.
- Once applied, the two topcoats should have a combined thickness of no less than 50 microns.
- The onus is on the painter to ensure that the primed surface remains well adhered to the timber substrate and is a suitable base for the subsequent topcoats. This is particularly important where the boards have been exposed for longer than 4 weeks before top coating.
- Refer to the AS/NZ 2311 guide to painting buildings.

It is the responsibility of the homeowner to ensure that annual maintenance is carried out. In some cases, this may be required more regularly e.g. sea spray.

12. MAINTENANCE AND CARE OF PAINTED TIMBER PRODUCTS
Wash all exterior surfaces using a low pressure wash system to remove dust, dirt and other contaminants.
Do not use a high pressure washing system. If the washing does not remove stubborn areas of mould or dirt, use a soft brush or broom and an appropriate cleaning agent to remove these deposits. Check with the paint manufacturer and read the directions on the product to apply the cleaning agent.

Once the building is clean and the surfaces have been inspected for damage, wear and tear and paint coating degrade then repairs must be undertaken immediately.
If the paint surface has been damaged, then:
- Remove all damaged paint, sand back if required
- Apply primer on any bare timber
- Once the primer has dried apply two top coats of a quality top coat paint

Timber weatherboard homes should be repainted every 5-7 years as per paint manufacturer's specifications. Repainting may be required earlier depending on condition and exposure to harsher elements.

13. MAINTENANCE AND CARE OF STAINED TIMBER PRODUCTS ON H3.2 TREATED RADIATA PINE

As per GOOD PRACTICE GUIDE TIMBER CLADDING:

9.3.1 Clear finishes and stains are applied where the natural colour or grain of the timber is to be retained but a degree of weather protection is required. Clear finishes and stains will only slow but not stop the weathering process. The rate of weathering will depend on the transparency or amount of UV-blocking pigment contained in the finish. Generally, the more pigment, the less the transparency and the greater the protection.

9.3.2 Stains and clear finishes include:
- penetrating wood oil, which soaks into the timber
- penetrating stain, which soaks into the timber
- film-forming stain, which adheres to the timber surface (similar to paint)
- film-forming clear finish.

9.3.3 When selecting an oil or a stain:
- rough-sawn timber is better coated with a low-build penetrating oil or a stain
- a film-forming stain is more durable and will last longer on a smooth surface - if used on a rough-sawn surface, the timber fibres may protrude through the coating providing a potential route for water entry into the timber
- a pigmented finish provides better and longer-lasting protection to the timber than a clear finish
- a film-forming stain must only be applied to dry timber and is likely to blister if applied to timber where the moisture content is too high – check the manufacturer's instructions before application.

As with paint, do not use dark colours as these tend to absorb more heat and accelerate damage to the stain or paint.
Always follow the manufacturer's instructions including coating the stain on all sides and exposed edges on the first coat. This includes staining the ends of boards, which are susceptible to absorbing moisture. Follow up with at least three further coatings once the product is installed. The harsher the environment, the more coatings needed.

Check the condition of the stain every few months (more if in harsh environments). If in, or near, salt spray zone, regularly wash the exterior timber with clean water to dilute the salt. Other air pollutants can be harsh on paint/stain systems including vehicle fumes, geothermal and dust/grit. Do not use high pressure systems such as water blasters as they can damage existing coatings and the timber.

Edges and corners of timber are more susceptible as less stain protection is often applied. Make sure such areas are liberally coated.

A regular program of washing the timber and re-coating is best. Re-coat before the stain breaks down (flaking or cracking) as this will expose the raw timber to the weather and the likelihood of absorbing excess moisture.

ARCHITECTURAL DRAWINGS GENERAL NOTES

This document has been specifically designed to help Architects, Designers and Builders.

A4 SITE DRAWINGS
The details in this section are full scale 1:2 at A4. You can easily read these drawings and are intended for the builder.

ARCHITECTS AND DESIGNERS RESPONSIBILITY
We have made the drawings as accurate as possible. We have specified extra flashing's in some areas that are over and above the NZ Building Code E2/AS1 External Moisture. But it is the Architects/Designers responsibility to confirm the suitability of these details for his particular projects and his client. The Architect/Designer will need to determine the "RISK MATRIX" that is project-specific, which then determines the details required. Builders that have questions about these details, will need to contact their project-specific Architect or Designer.

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Southern Pine Products Ltd and its Agent AIPdesignNZ Ltd Does not:

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Technical Information

a) The AutoCAD drawings have all the Xref,s embedded as blocks.
Erase the title block and Xref in your title block.

b) These drawings have been KEY NOTED
This makes the details more readable, people then focus on the actual important notes on the drawing. This also allows for easer revisions. You only need to change one keynote reference. You will need to personalise these notes to make them specific to your project.

c) The Drawings are coloured and have pen assignments to the colours, a PGP file will be supplied in the Zip file. All the drawing output sheets are default set to print a PDF drawing. It is recommended that you print these detail in PDF then print your paper copies from the PDF file.

d) The AutoCAD drawings are made up of multiple details. The A1/A3 drawings also link into the A4 details drawings. These A4 drawings have special scaled down notes and blocks. (annotative Scale) But it is the exact same information.

e) These drawings are Copyrighted to “Southern Pine Products Limited” (All Rights Asserted) and their Approved Clients. The Drawings have two methods of electronic protection. You will receive your own personal password to open the drawings.

Disclaimer

This information is supplied in good faith, and we recommend the installer and painters familiarise themselves with all relevant building and painting codes. Builders using weatherboards should purchase the BRANZ Good Practice Guide for Timber Cladding, a comprehensive detailing and installation guide.

Southern Pine Products will not be liable for any losses incurred resulting from the failure to adhere to good building and painting practices. Although every effort has been made to ensure the information in this data sheet compiles with existing building standards and recognised codes of practice, no responsibility is accepted for any errors and omissions nor for any specifications or work based on this information.

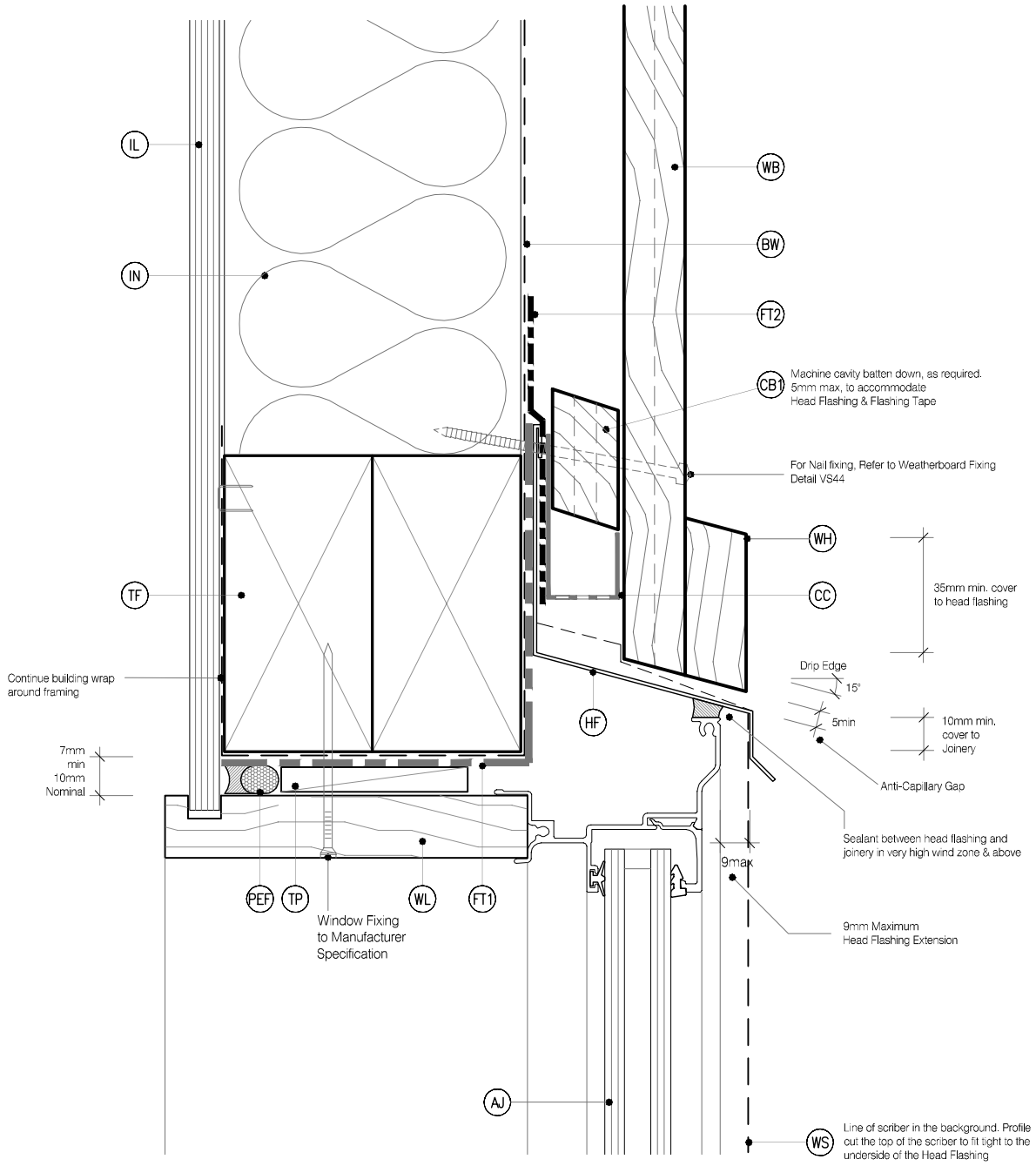
A3/A1 ARCHITECTURAL DETAILS - INDEX

Sheet Number	Sheet Title
SPP A000	TEMPLATE SHEET
SPP CF20 VS01	A4 COVER SHEET
SPP CF20 VS02	A4 COVER SHEET - INDEX
SPP CF20 VS03	A4 COVER SHEET - INDEX (2)
SPP CF20 VS04	A4 COVER SHEET - NOTES
SPP CF20 VS10	WINDOW HEAD DETAIL
SPP CF20 VS11	WINDOW SILL DETAILS
SPP CF20 VS12	WINDOW JAMB DETAIL
SPP CF20 VS13	WINDOW FLASHING DETAILS
SPP CF20 VS20	DOOR HEAD DETAIL
SPP CF20 VS21	DOOR SILL DETAIL
SPP CF20 VS22	DOOR JAMB DETAIL
SPP CF20 VS23	DOOR FLASHING DETAILS
SPP CF20 VS30	METER BOX HEAD DETAIL
SPP CF20 VS31	METER BOX SILL DETAIL
SPP CF20 VS32	METER BOX JAMB DETAIL
SPP CF20 VS33	METER BOX FLASHING DETAILS
SPP CF20 VS40	EXTERNAL CORNER
SPP CF20 VS41	3D EXTERNAL CORNER
SPP CF20 VS42	INTERNAL CORNER
SPP CF20 VS43	3D INTERNAL CORNER
SPP CF20 VS44	WEATHERBOARD FIXING
SPP CF20 VS45	DRAINED INTER-STOREY JOINT
SPP CF20 VS50	EXTERNAL BOXED CORNER
SPP CF20 VS51	3D EXTERNAL BOXED CORNER

SPP CF20 VS52	INTERNAL BOXED CORNER
SPP CF20 VS53	3D INTERNAL BOXED CORNER
SPP CF20 VS54	PIPE PENETRATION
SPP CF20 VS55	3D PIPE PENETRATION
SPP CF20 VS60	BASE OF WALL - TIMBER
SPP CF20 VS61	BASE OF WALL - CONCRETE
SPP CF20 VS62	SOFFIT DETAIL AT WALL
SPP CF20 VS63	SOFFIT DETAIL AT FASCIA
SPP CF20 VS64	APRON FLASHING - ROOF TO WALL JUNCTION
SPP CF20 VS65	BALUSTRADE CAPPING OR PARAPET DETAIL
SPP CF20 VS70	BASE OF WALL, MEMBRANE ROOF
SPP CF20 VS71	DECK TO ROOF MEMBRANE - SADDLE FLASHING - STAGE ONE
SPP CF20 VS72	DECK TO ROOF MEMBRANE - SADDLE FLASHING - STAGE TWO
SPP CF20 VS73	DECK TO ROOF MEMBRANE - SADDLE FLASHING - STAGE THREE
SPP CF20 VS74	TYPICAL PARAPET CAPPING JOINT DETAILS
SPP CF20 VS75	PARAPET SECTION TO MEMBRANE ROOF
SPP CF20 VS90	HALF WALL - SILL WEATHERBOARD TO BRICK
SPP CF20 VS91	CANTILEVER FLOOR - BRICK TO WEATHERBOARD
SPP CF20 VS92	IN-LINE JUNCTION - WEATHERBOARD TO BRICK
SPP CF20 VS93	INTERNAL CORNER - WEATHERBOARD TO BRICK
SPP CF20 VS94	EXTERIOR JUNCTION - WEATHERBOARD TO BRICK
SPP CF20 VS95	FLASHINGS - WEATHERBOARD TO BRICK
SPP CF20 VS100	HALF WALL - SILL - PLASTER PANEL TO WEATHERBOARD
SPP CF20 VS101	CANTILEVER FLOOR - PLASTER PANEL TO WEATHERBOARD
SPP CF20 VS102	IN-LINE JUNCTION - PLASTER PANEL TO WEATHERBOARD
SPP CF20 VS103	INTERNAL CORNER - PLASTER PANEL TO WEATHERBOARD
SPP CF20 VS104	EXTERIOR JUNCTION - PLASTER PANEL TO WEATHERBOARD
SPP CF20 VS105	FLASHINGS - PLASTER PANEL TO WEATHERBOARD

DENDRO
BY SOUTHERN PINE

WINDOW HEAD DETAIL

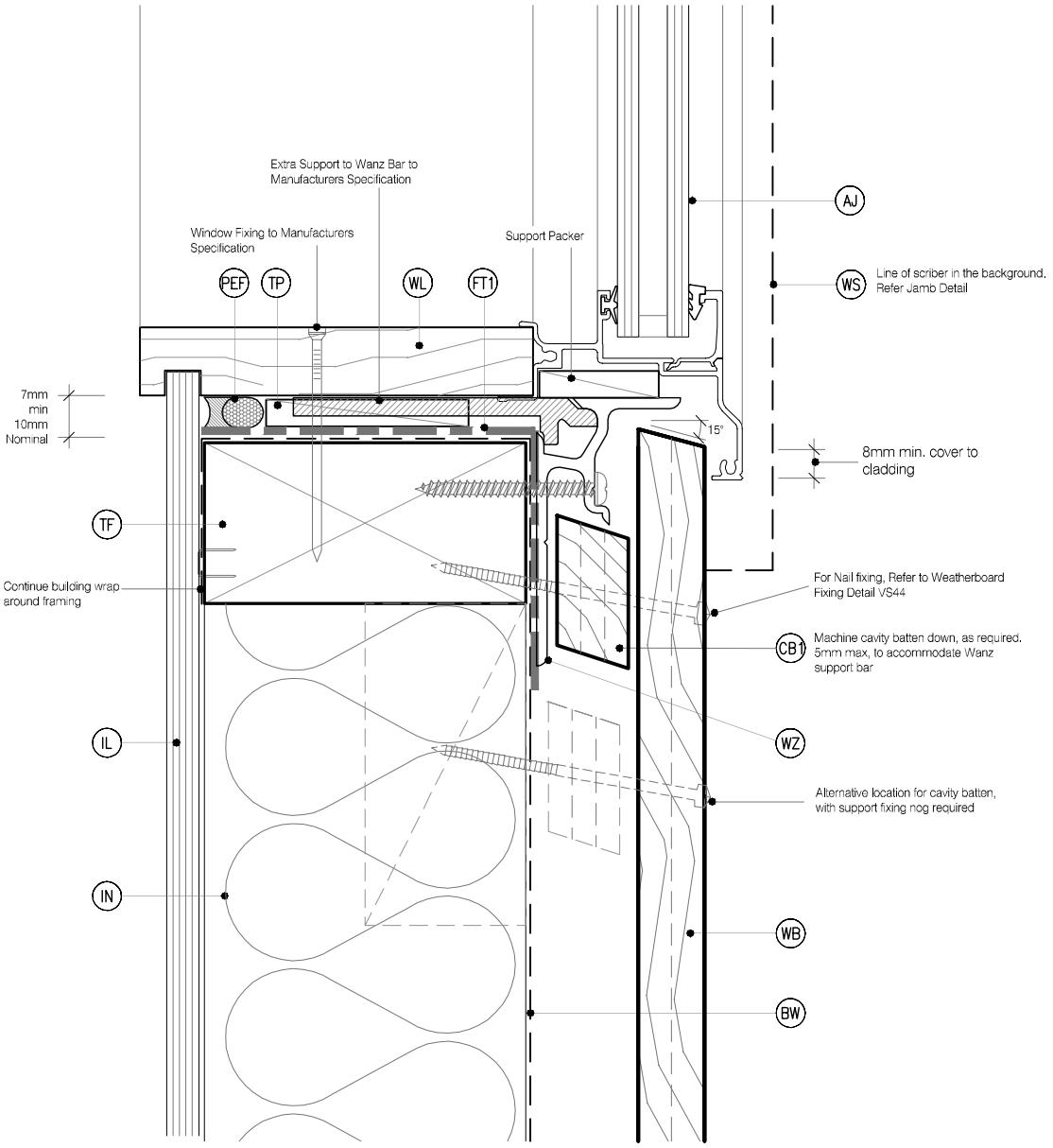


LEGEND:

- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery. To E2/AS1 9.1.10
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Tan H3.2 Treated Packer
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (WL) WINDOW LINER: As Specified
- (WH) WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WS) WINDOW SCRIBER: Southern Pine SDA18 x 18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer

DENDRO
BY SOUTHERN PINE

WINDOW SILL DETAIL



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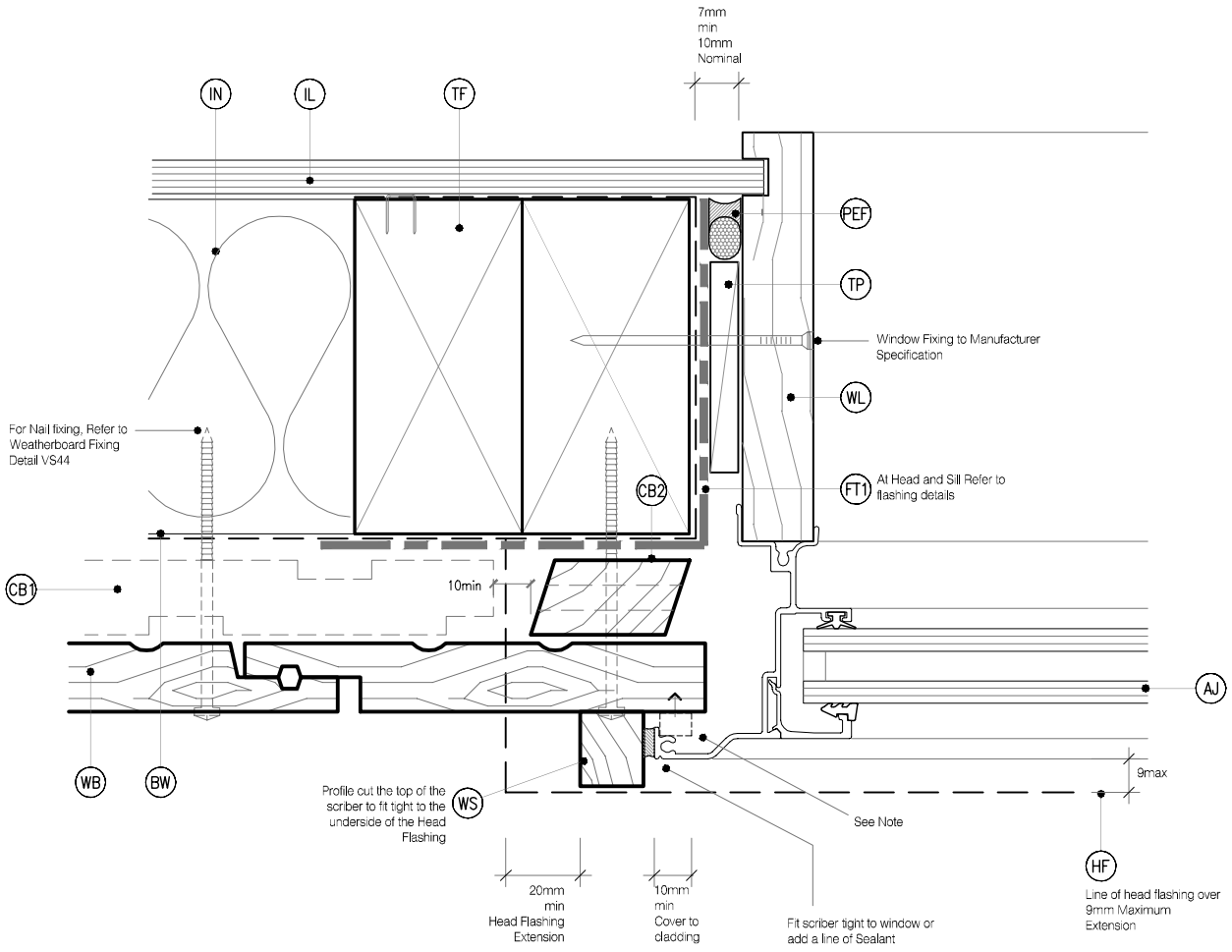
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- FT1 — FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- FT2 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- HF — HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- IL — INTERNAL LINING: Selected Internal Lining
- IN — INSULATION: Selected Insulation
- PEF — PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- TF — TIMBER FRAME: H1.2 min treated timber framing
- TP — TIMBER PACKER: Tan H3.2 Treated Packer
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- WL — WINDOW LINER: As Specified
- WH — WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- WS — WINDOW SCRIBER: Southern Pine SDA18 x 18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.
- WZ — WANZ SUPPORT: Provide window support as required by joinery manufacturer

DENDRO
BY SOUTHERN PINE

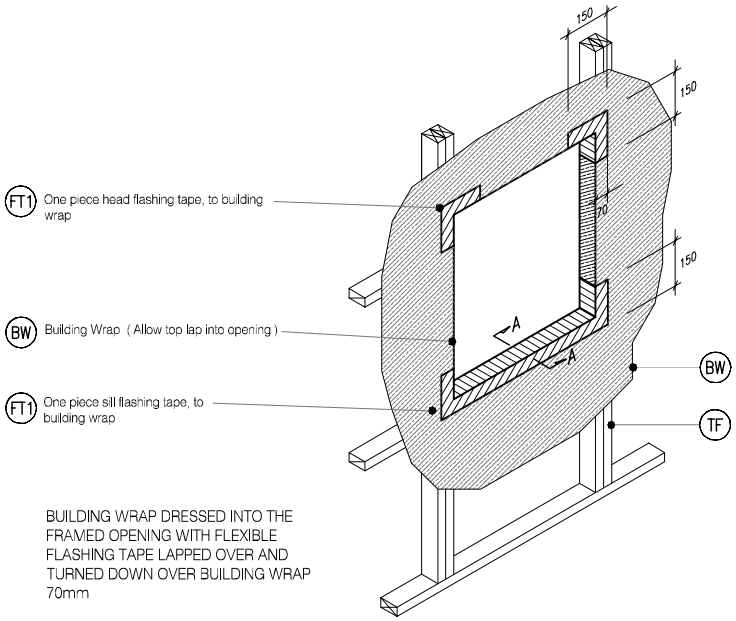
WINDOW JAMB DETAIL



NOTE : No Scriber Option :
The Aluminium Joinery must sit hard against the back of the joinery flange and the timber weatherboards with a E.P.S Compressible bond breaker foam seal between

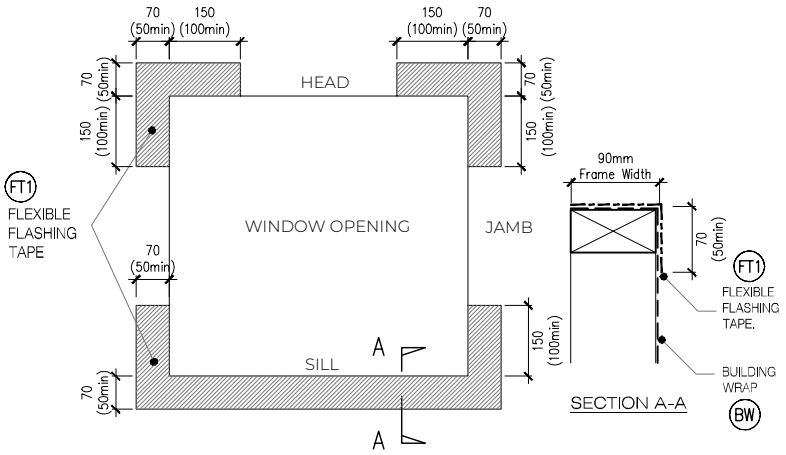
LEGEND:

- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery. To E2/AS1 9.1.10
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Tan H3.2 Treated Packer
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (WL) WINDOW LINER: As Specified
- (WH) WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WS) WINDOW SCRIBER: Southern Pine SDA18 x 18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer



W4 VS13 TYPICAL WINDOW OPENING (FLASHING TAPE)

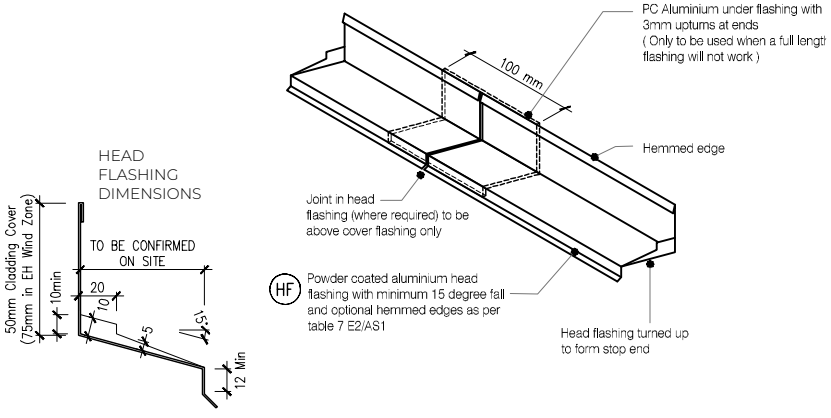
SCALE : N.T.S



1. DENDRO® is Southern Pine's premium product range of H3.2 treated, solid, clear weatherboards. Manufactured from, high quality, pruned NZ Radiata Pine. Product warranty, 25 years if used in accordance with the Installation & Maintenance Guide.
2. All Southern Pine Weatherboard profiles have been machined to be complaint with NZS 3617 and BRANZ BU411
3. The Southern Pine Weatherboard System, if designed and installed as per the Installation & Maintenance Guide, will meet the following provisions of the New Zealand Building Code (NZBC):
   - Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.4 (a), (b), (c), (d) and (e) for the
   - Clause B2 Durability: Performance B2.3.1(b) and B2.3.2(b)
   - Clause E2 External Moisture: Performance E2.3.2, E2.3.3, E2.3.5, E2.3.7(b) and (c)
   - Clause F2 Hazardous Building Materials: Performance F2.3.1
4. This Weatherboard System must be installed by a qualified trade person. Restricted Building Work (RBW) requires a Licensed Building Practitioner (LBP) or supervised by an LBP. It is the specifies responsibility to ensure that the details are appropriate for the intended application and that additional detailing is obtained for a specific design or any areas that fall outside the scope of the Southern Pine Products & E2/AS1 Acceptable solution.

W5 VS13 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3



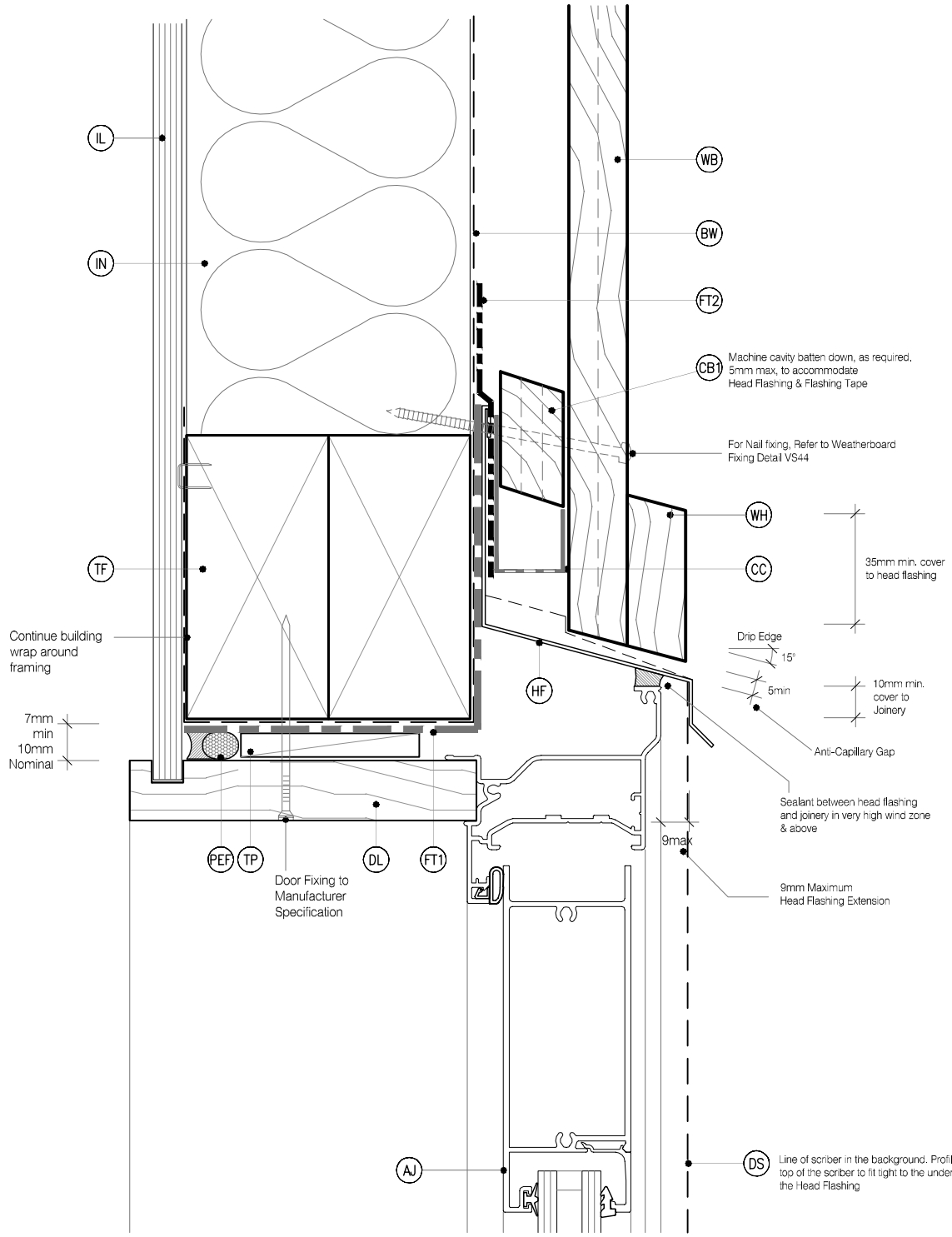
ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

W6 VS13 TYPICAL HEAD & FLASHING JOINT

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

DENDRO
BY SOUTHERN PINE

WINDOW HEAD DETAIL



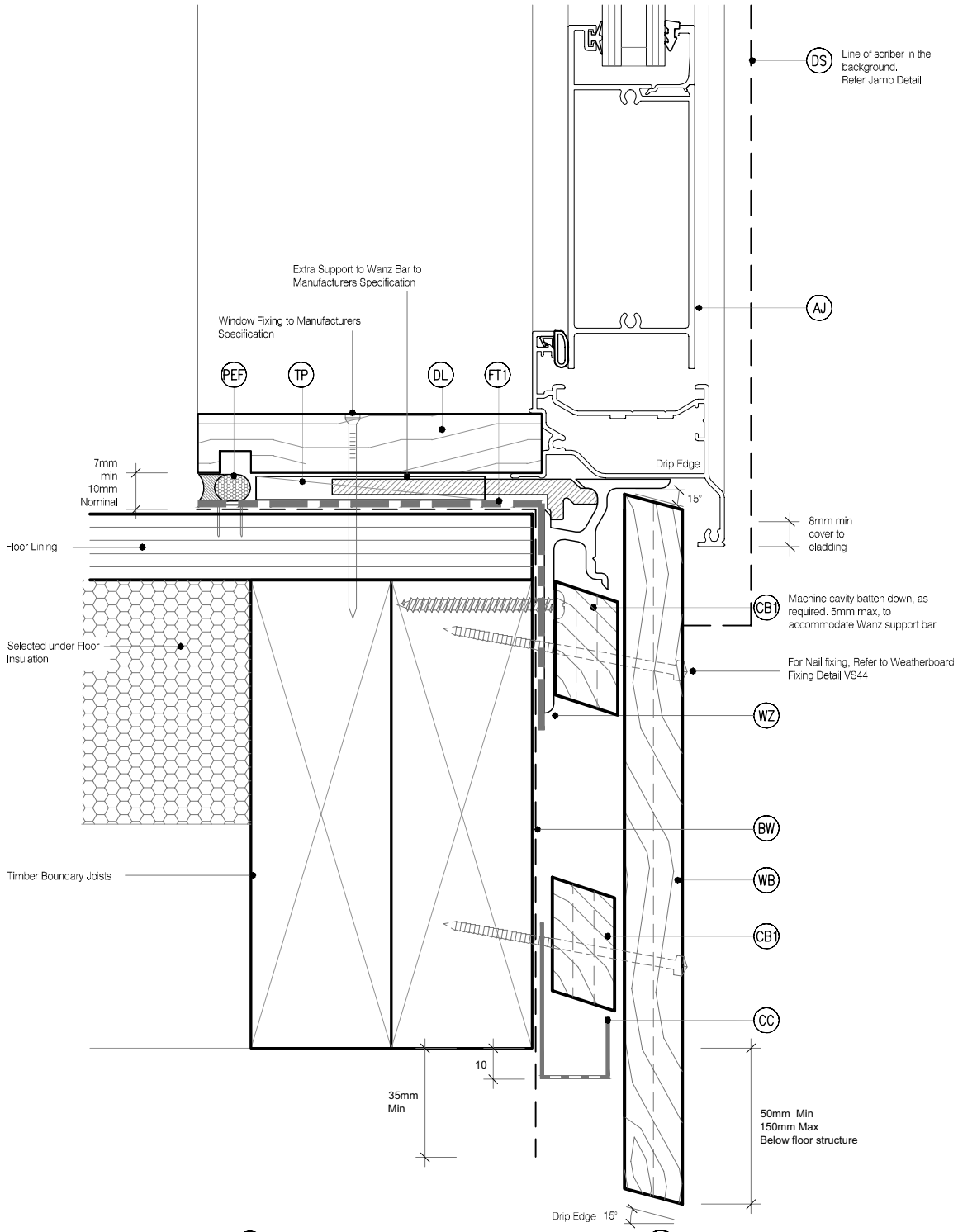
LEGEND:

- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery. To E2/AS1 9.1.10
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or Castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Tan H3.2 Treated Packer
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (DL) DOOR LINER: As Specified
- (WH) WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (DS) DOOR SCRIBER: Southern Pine SDA18 x 18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer

DENDRO

BY SOUTHERN PINE

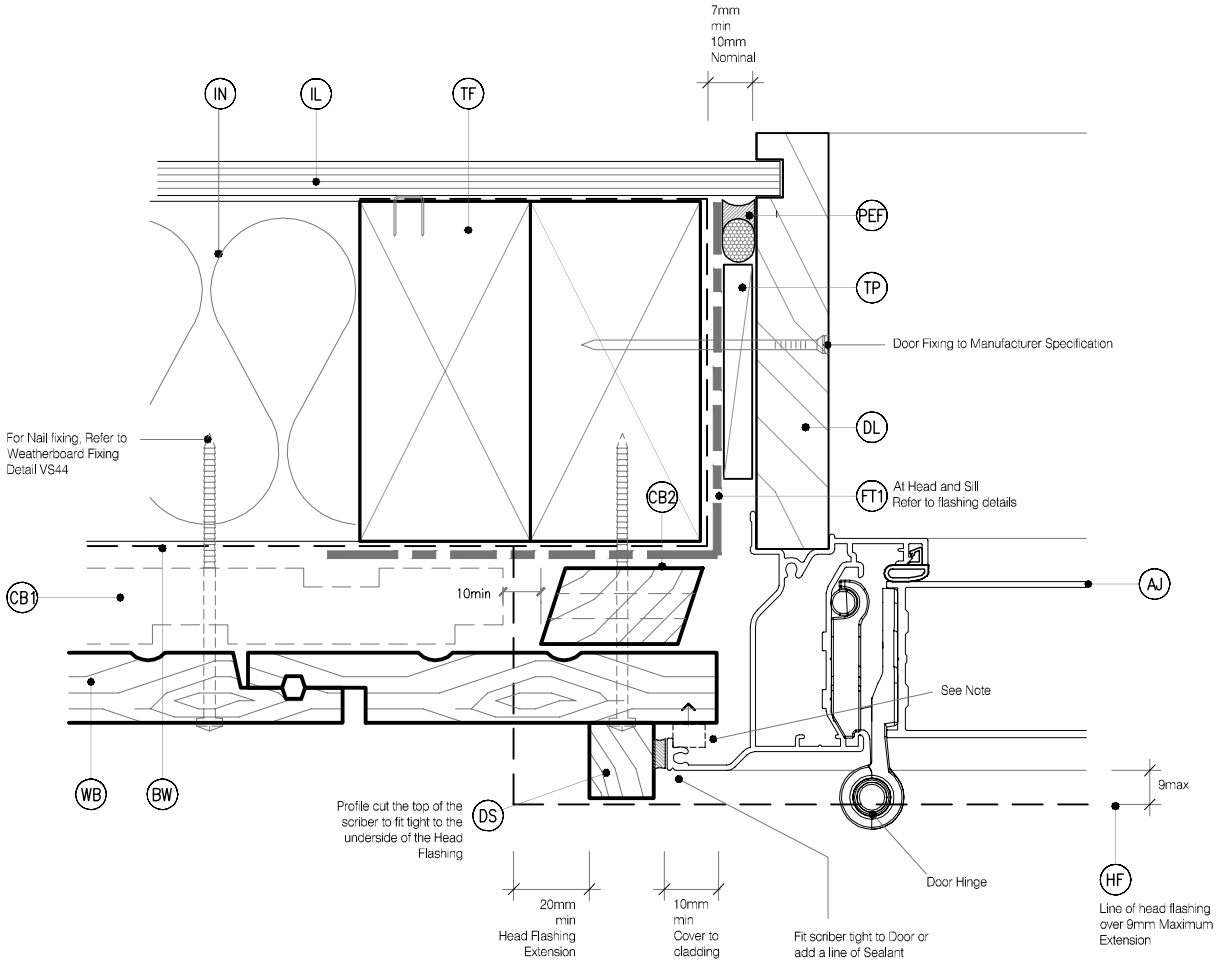
DOOR SILL DETAIL



LEGEND:

- AJ — ALUMINIUM JOINERY: Selected double glazed aluminium joinery. To E2/AS1 9.1.10
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or Castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- FT1 — FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- FT2 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- HF — HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- IL — INTERNAL LINING: Selected Internal Lining
- IN — INSULATION: Selected Insulation
- PEF — PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- TF — TIMBER FRAME: H1.2 min treated timber framing
- TP — TIMBER PACKER: Tan H3.2 Treated Packer
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- DL — DOOR LINER: As Specified
- WH — WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- DS — DOOR SCRIBER: Southern Pine SDA18 x 18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.
- WZ — WANZ SUPPORT: Provide window support as required by joinery manufacturer

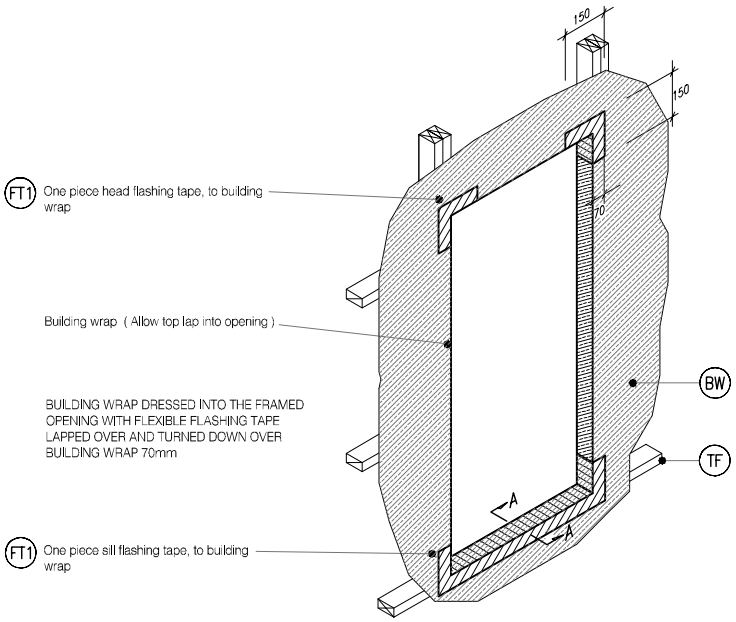
DOOR JAMB DETAIL



NOTE : No Scriber Option :
The Aluminium Joinery must sit hard against the back of the joinery flange and the timber weatherboards with a E.P.S Compressible bond breaker foam seal between

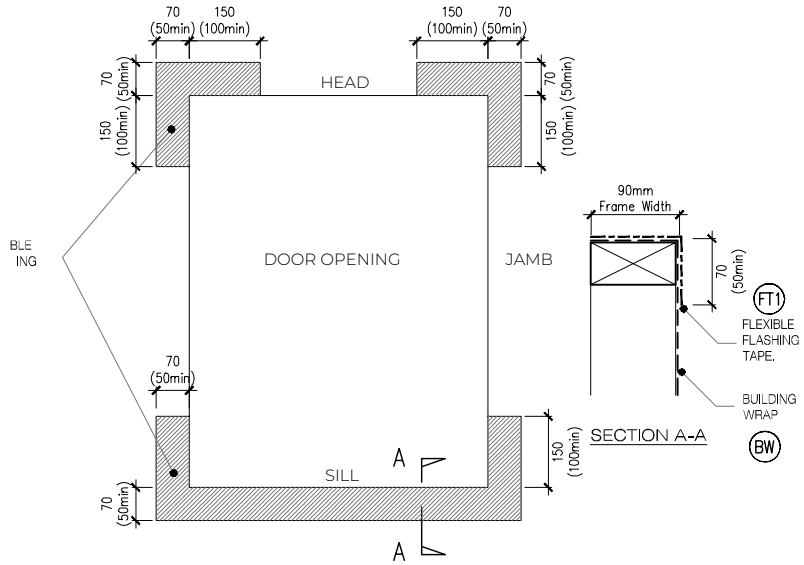
LEGEND:

- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery. To E2/AS1 9.1.10
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or Castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Tan H3.2 Treated Packer
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (DL) DOOR LINER: As Specified
- (WH) WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (DS) DOOR SCRIBER: Southern Pine SDA18 x 18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer



D4 VS23 TYPICAL DOOR OPENING (FLASHING TAPE)

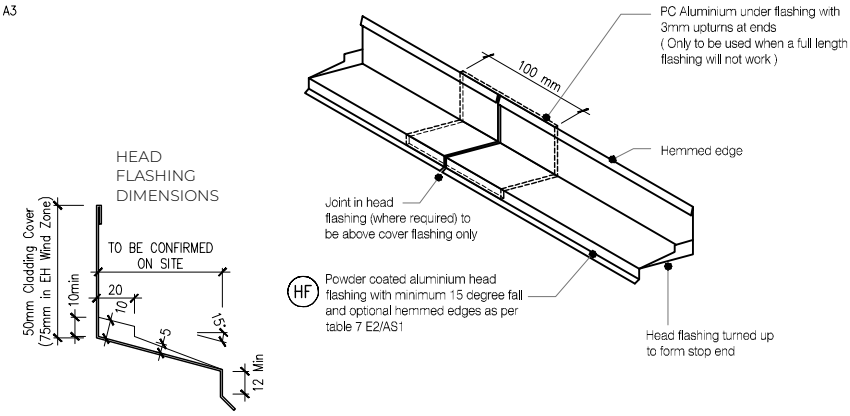
SCALE : N.T.S



1. DENDRO® is Southern Pine's premium product range of H3.2 treated, solid, clear weatherboards. Manufactured from, high quality, pruned NZ Radiata Pine. Product warranty, 25 years if used in accordance with the Installation & Maintenance Guide.
2. All Southern Pine Weatherboard profiles have been machined to be complaint with NZS 3617 and BRANZ BU411
3. The Southern Pine Weatherboard System, if designed and installed as per the Installation & Maintenance Guide, will meet the following provisions of the New Zealand Building Code (NZBC):
   - Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.4 (a), (b), (c), (d) and (e) for the
   - Clause B2 Durability: Performance B2.3.1(b) and B2.3.2(b)
   - Clause E2 External Moisture: Performance E2.3.2, E2.3.3, E2.3.5, E2.3.7(b) and (c)
   - Clause F2 Hazardous Building Materials: Performance F2.3.1
4. This Weatherboard System must be installed by a qualified trade person. Restricted Building Work (RBW) requires a Licensed Building Practitioner (LBP) or supervised by an LBP. It is the specifies responsibility to ensure that the details are appropriate for the intended application and that additional detailing is obtained for a specific design or any areas that fall outside the scope of the Southern Pine Products & E2/AS1 Acceptable solution.

D5 VS23 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3



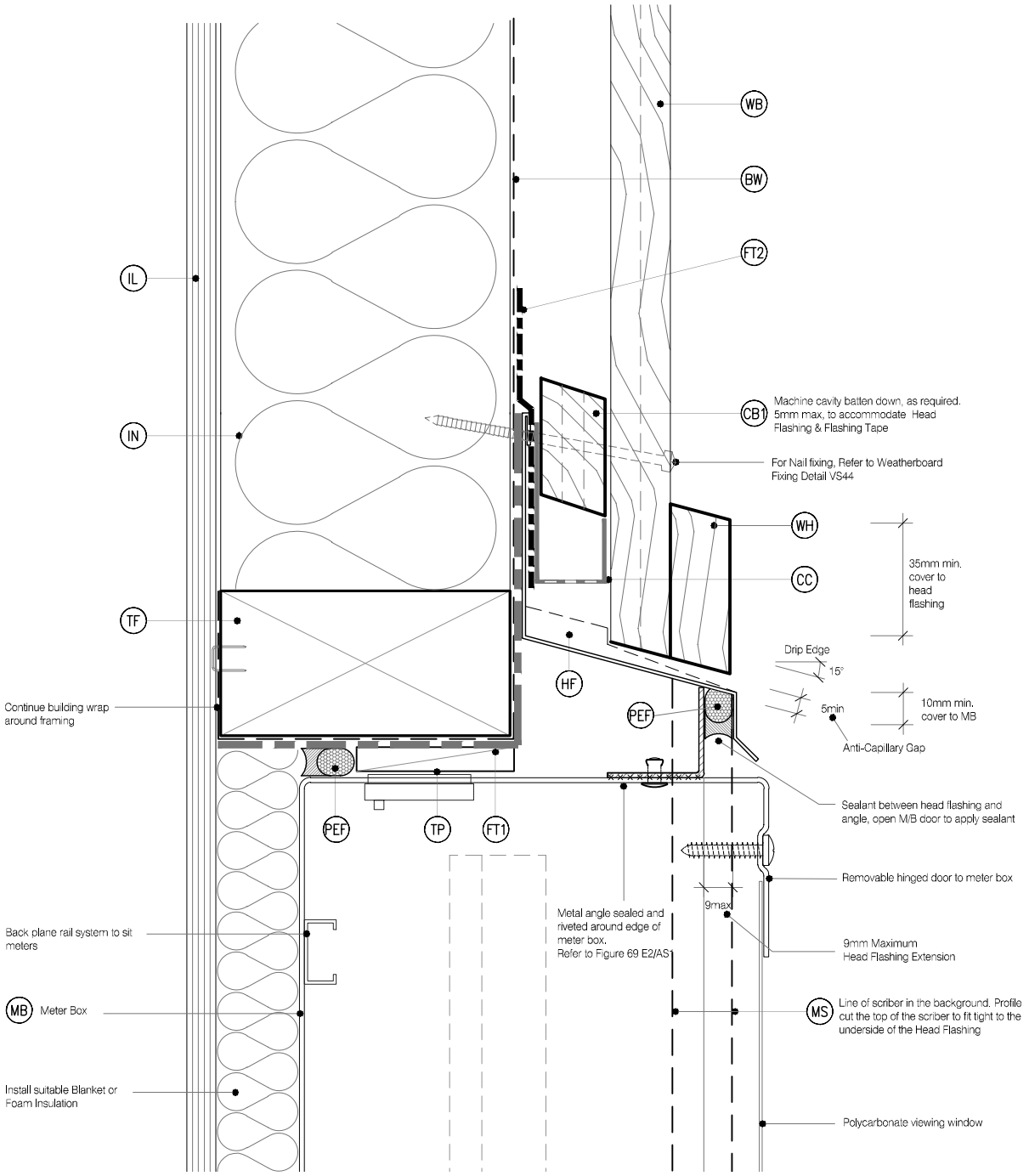
ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

D6 VS23 TYPICAL HEAD & FLASHING JOINT

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

DENDRO
BY SOUTHERN PINE

METER BOX HEAD DETAIL

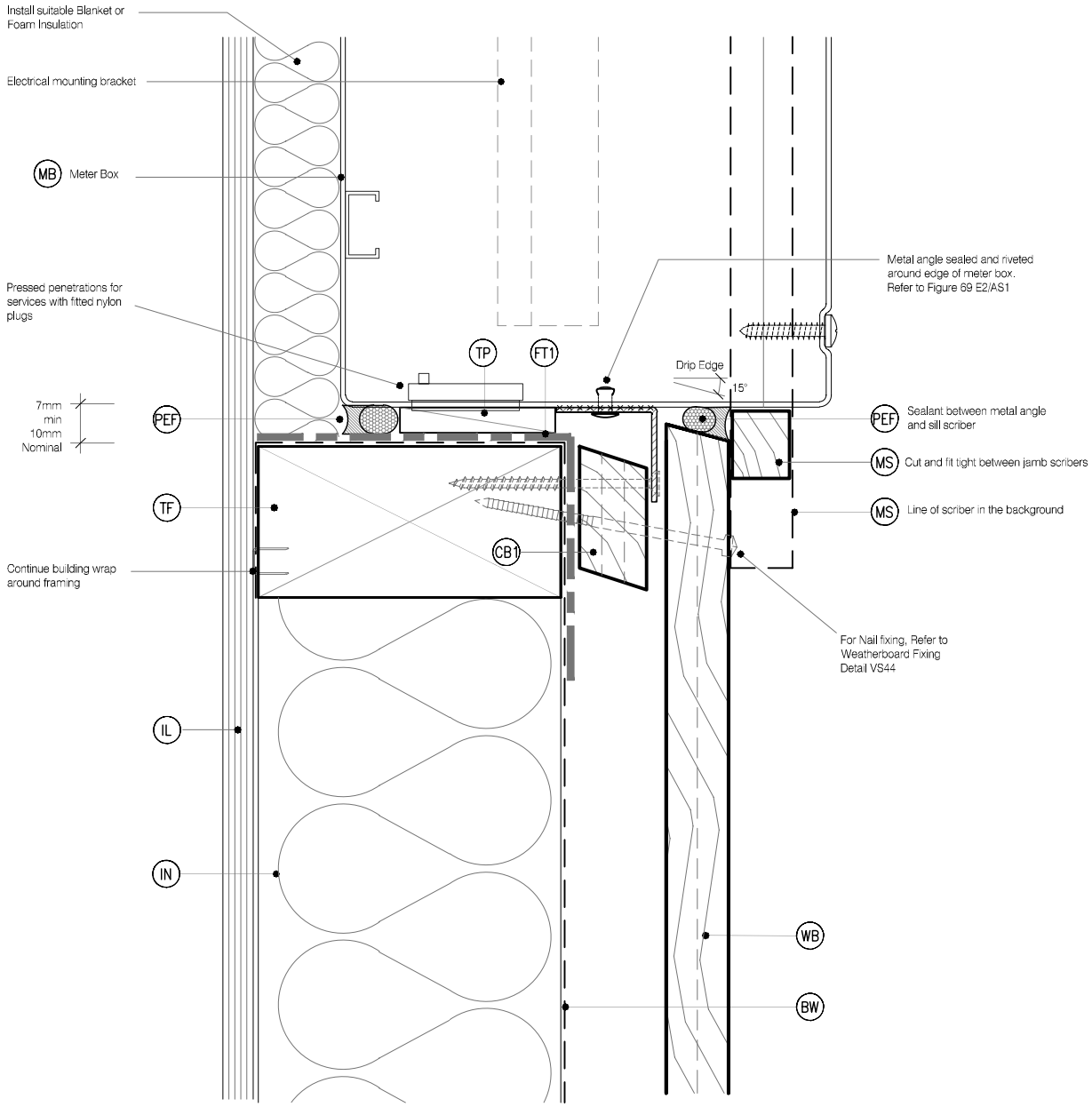


LEGEND:

- MB — METER BOX: Electrical meter box, with removable hinged door and polycarbonate viewing window
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or Castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- FT1 — FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- FT2 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- HF — HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- IL — INTERNAL LINING: Selected Internal Lining
- IN — INSULATION: Selected Insulation
- PEF — PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- TF — TIMBER FRAME: H1.2 min treated timber framing
- TP — TIMBER PACKER: Tan H3.2 Treated Packer
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- WL — WINDOW LINER: As Specified
- WH — WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above meter box as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- MS — METER BOX SCRIBER: Southern Pine SDA18x18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.

DENDRO
BY SOUTHERN PINE

METER BOX SILL DETAIL



LEGEND:

- MB — METER BOX: Electrical meter box, with removable hinged door and polycarbonate viewing window
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or Castellated H3.2
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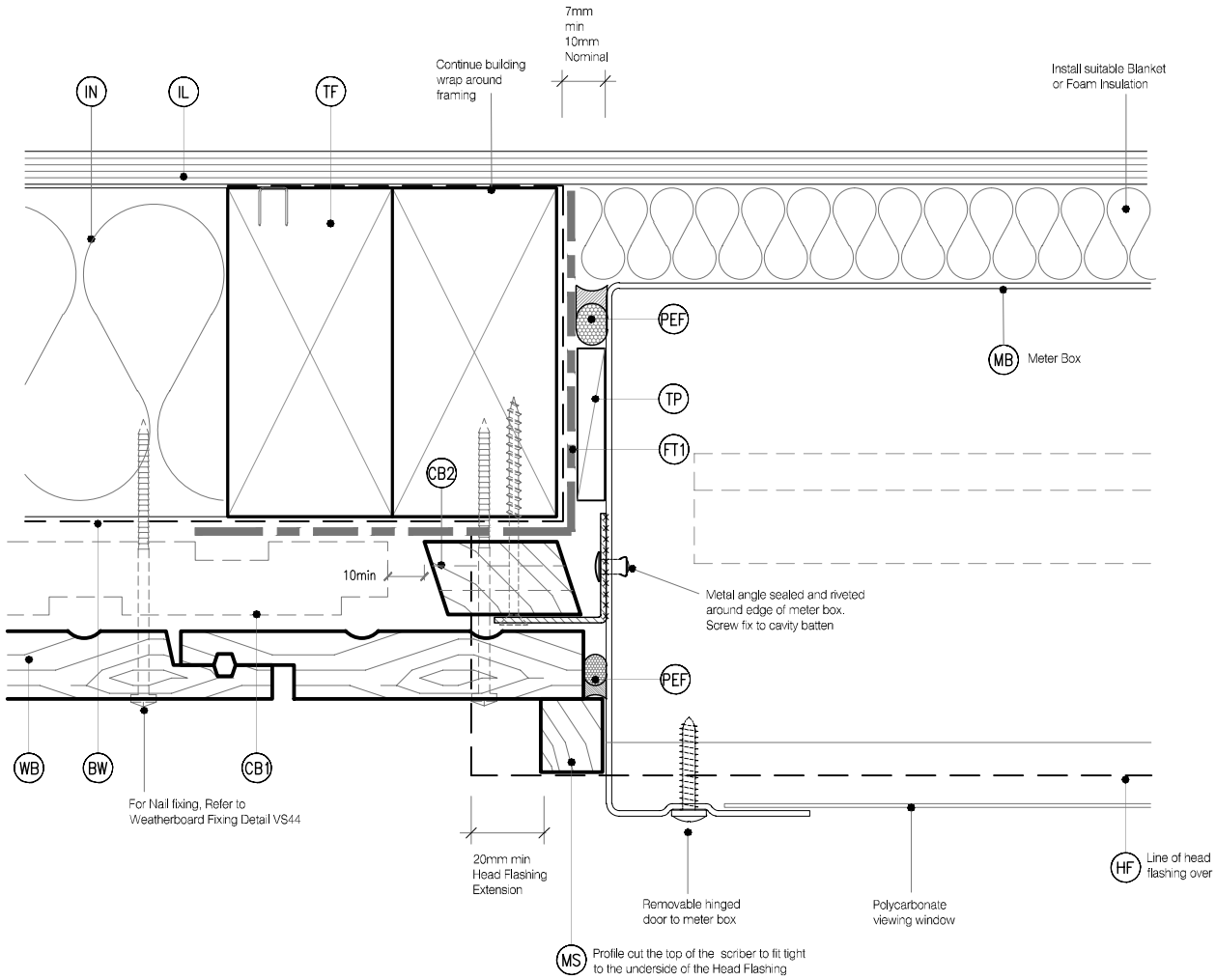
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- FT1 — FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- FT2 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- HF — HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- IL — INTERNAL LINING: Selected Internal Lining
- IN — INSULATION: Selected Insulation
- PEF — PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- TF — TIMBER FRAME: H1.2 min treated timber framing
- TP — TIMBER PACKER: Tan H3.2 Treated Packer
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- WL — WINDOW LINER: As Specified
- WH — WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above meter box as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- MS — METER BOX SCRIBER: Southern Pine SDA18x18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.

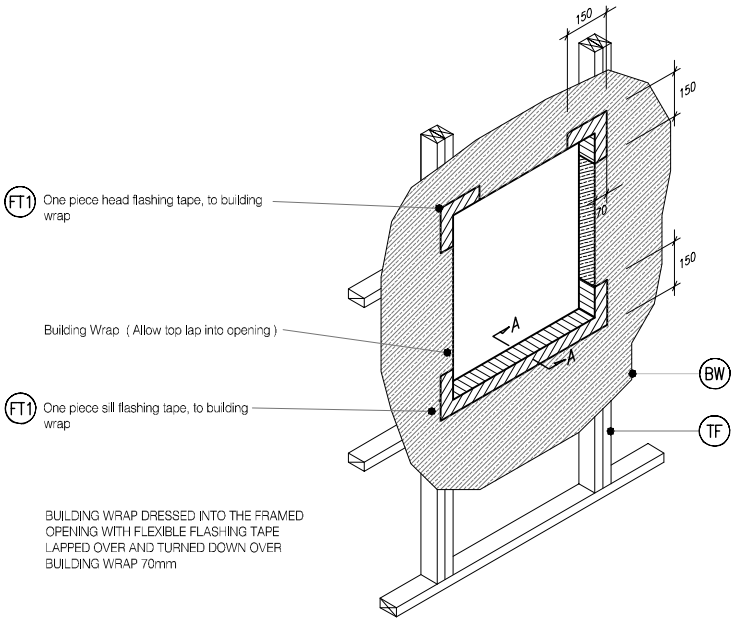
DENDRO
BY SOUTHERN PINE

METER BOX JAMB DETAIL



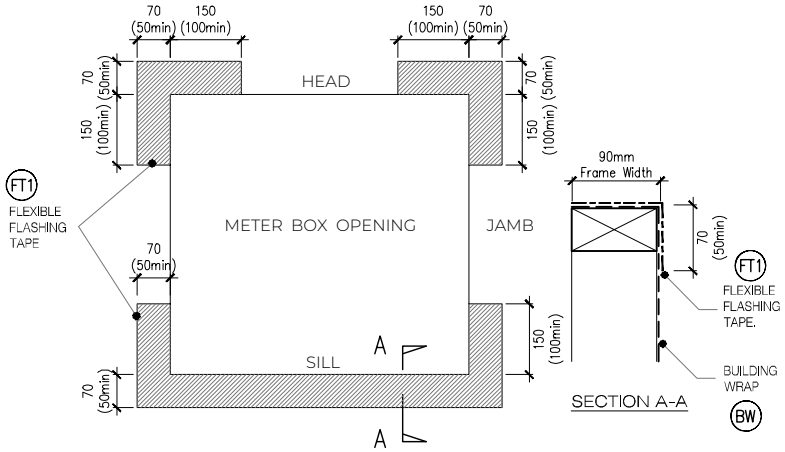
LEGEND:

- (MB) METER BOX: Electrical meter box, with removable hinged door and polycarbonate viewing window
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or Castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap, taped joint to top of timber frame
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall, optional hemmed edges as per table 7 E2/AS1
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Tan H3.2 Treated Packer
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (WL) WINDOW LINER: As Specified
- (WH) WEATHERHEAD: (OPTIONAL) Southern Pine, Horizontal batten above meter box as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (MS) METER BOX SCRIBER: Southern Pine SDA18x18, sealant to back of SDA and 75 x 3.15mm 316 Stainless Steel nail in 3mm predrilled hole.



M4 VS33 TYPICAL METER BOX OPENING (FLASHING TAPE)

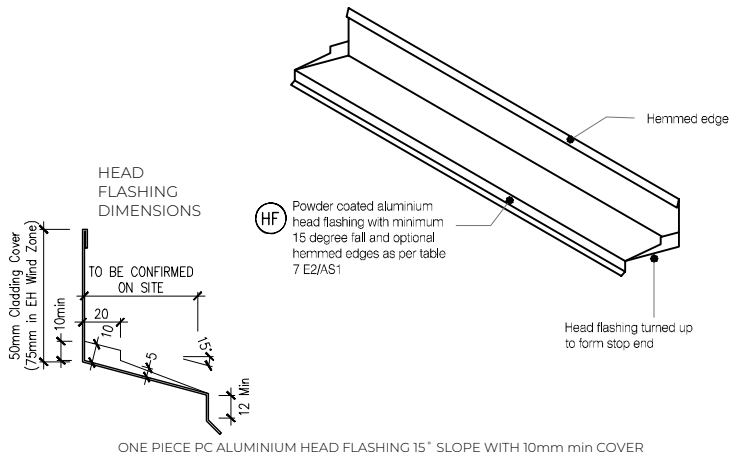
SCALE : N.T.S



1. DENDRO® is Southern Pine's premium product range of H3.2 treated, solid, clear weatherboards. Manufactured from, high quality, pruned NZ Radiata Pine. Product warranty, 25 years if used in accordance with the Installation & Maintenance Guide.
2. All Southern Pine Weatherboard profiles have been machined to be complaint with NZS 3617 and BRANZ BU411
3. The Southern Pine Weatherboard System, if designed and installed as per the Installation & Maintenance Guide, will meet the following provisions of the New Zealand Building Code (NZBC):
   - Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.4 (a), (b), (c), (d) and (e) for the
   - Clause B2 Durability: Performance B2.3.1(b) and B2.3.2(b)
   - Clause E2 External Moisture: Performance E2.3.2, E2.3.3, E2.3.5, E2.3.7(b) and (c)
   - Clause F2 Hazardous Building Materials: Performance F2.3.1
4. This Weatherboard System must be installed by a qualified trade person. Restricted Building Work (RBW) requires a Licensed Building Practitioner (LBP) or supervised by an LBP. It is the specifies responsibility to ensure that the details are appropriate for the intended application and that additional detailing is obtained for a specific design or any areas that fall outside the scope of the Southern Pine Products & E2/AS1 Acceptable solution.

M5 VS33 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3

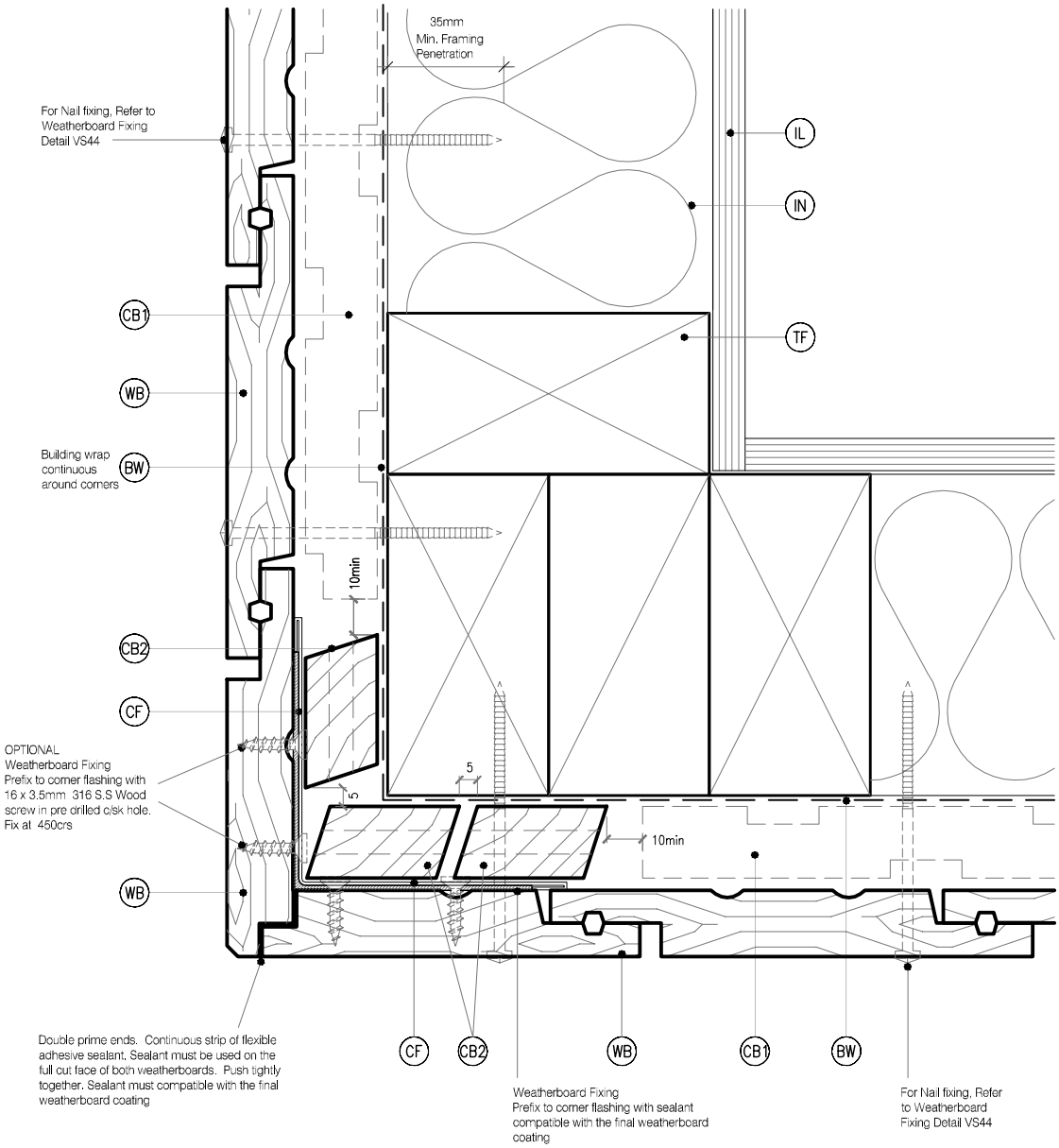


ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

M6 VS33 TYPICAL HEAD & FLASHING JOINT

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

EXTERNAL CORNER

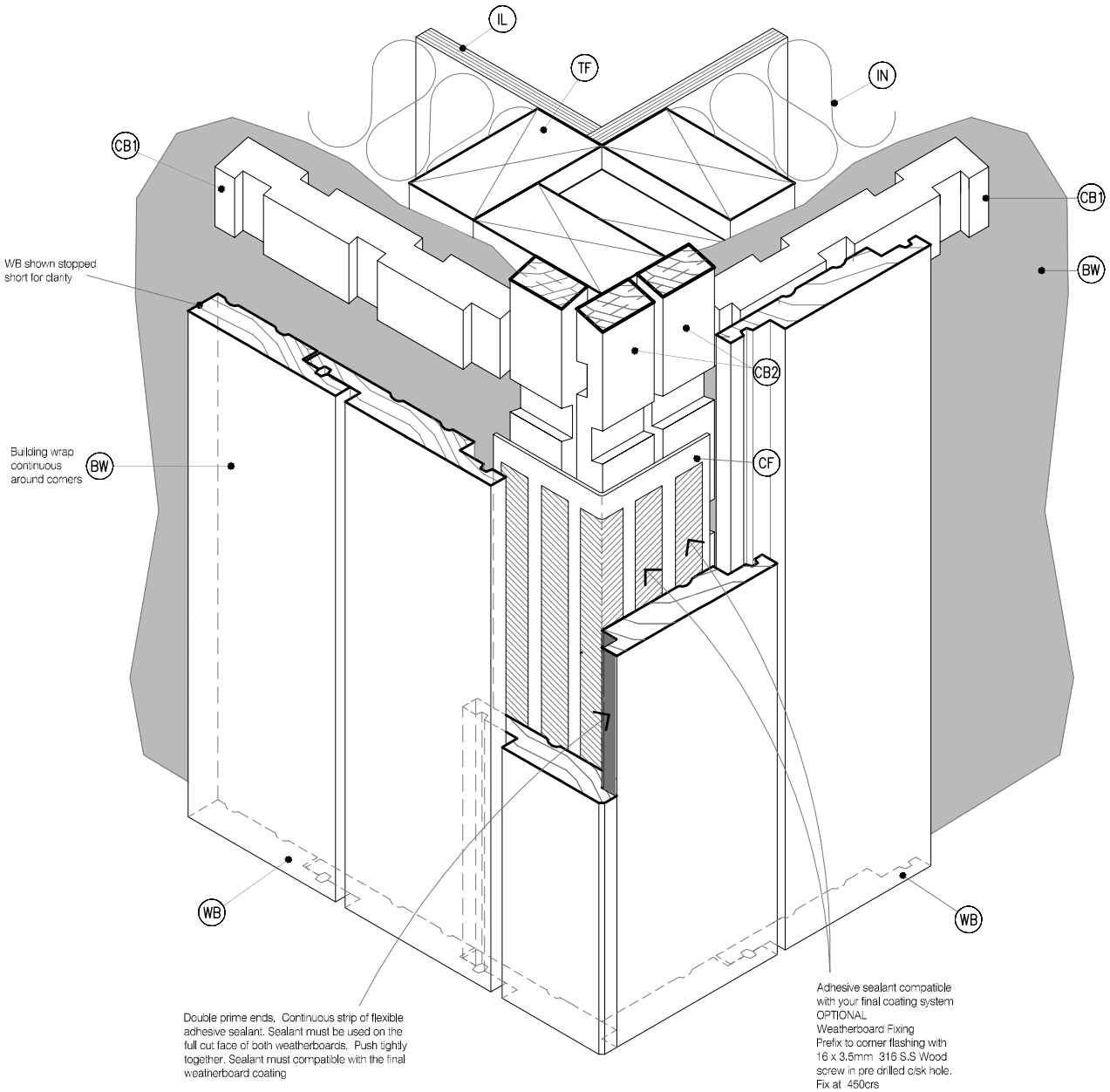


LEGEND:

- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IN) INSULATION: Selected Insulation
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. Not required by E2/AS1
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (TF) TIMBER FRAME: H1.2 min Treated timber framing
- (IL) INTERNAL LINING: Selected Internal Lining
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

3D EXTERNAL CORNER



LEGEND:

- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IN) INSULATION: Selected Insulation
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. Not required by E2/AS1
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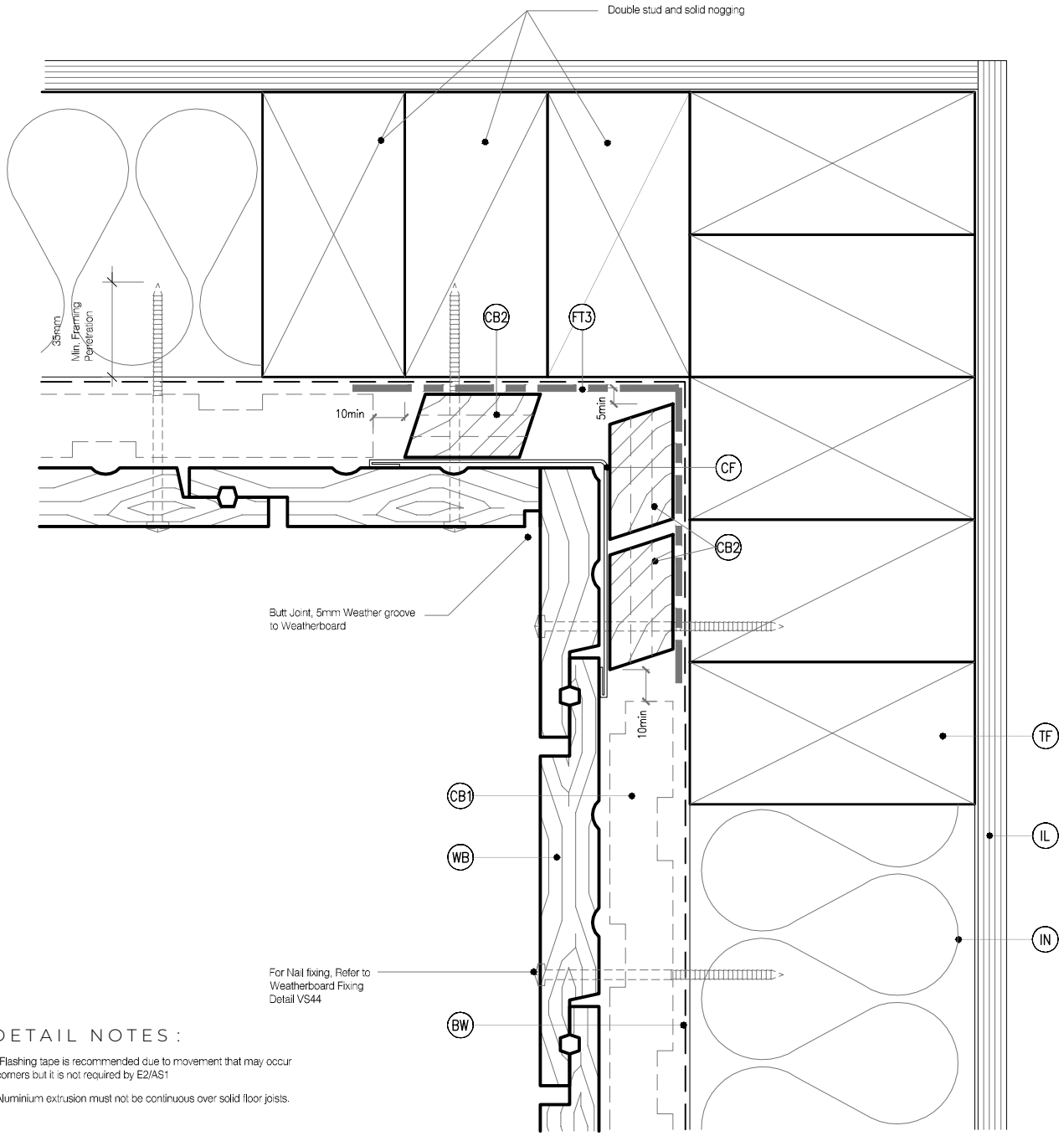
- (TF) TIMBER FRAME: H1.2 min Treated timber framing
- (IL) INTERNAL LINING: Selected Internal Lining
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

INTERNAL CORNER



DETAIL NOTES :

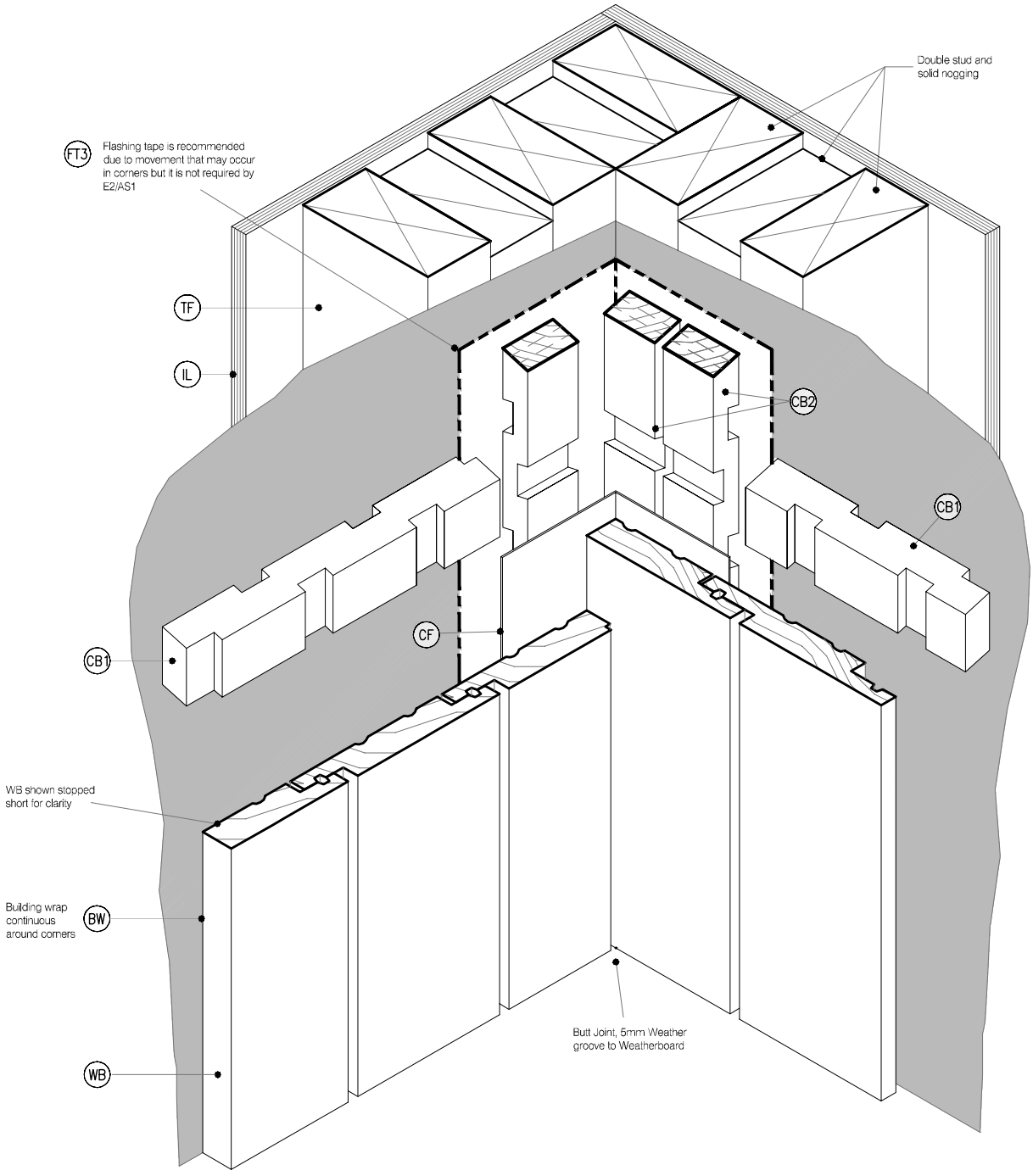
1. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1
2. Aluminium extrusion must not be continuous over solid floor joists.

LEGEND :

- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IN) INSULATION: Selected Insulation
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. Not required by E2/AS1
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (TF) TIMBER FRAME: H1.2 min Treated timber framing
- (IL) INTERNAL LINING: Selected Internal Lining
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

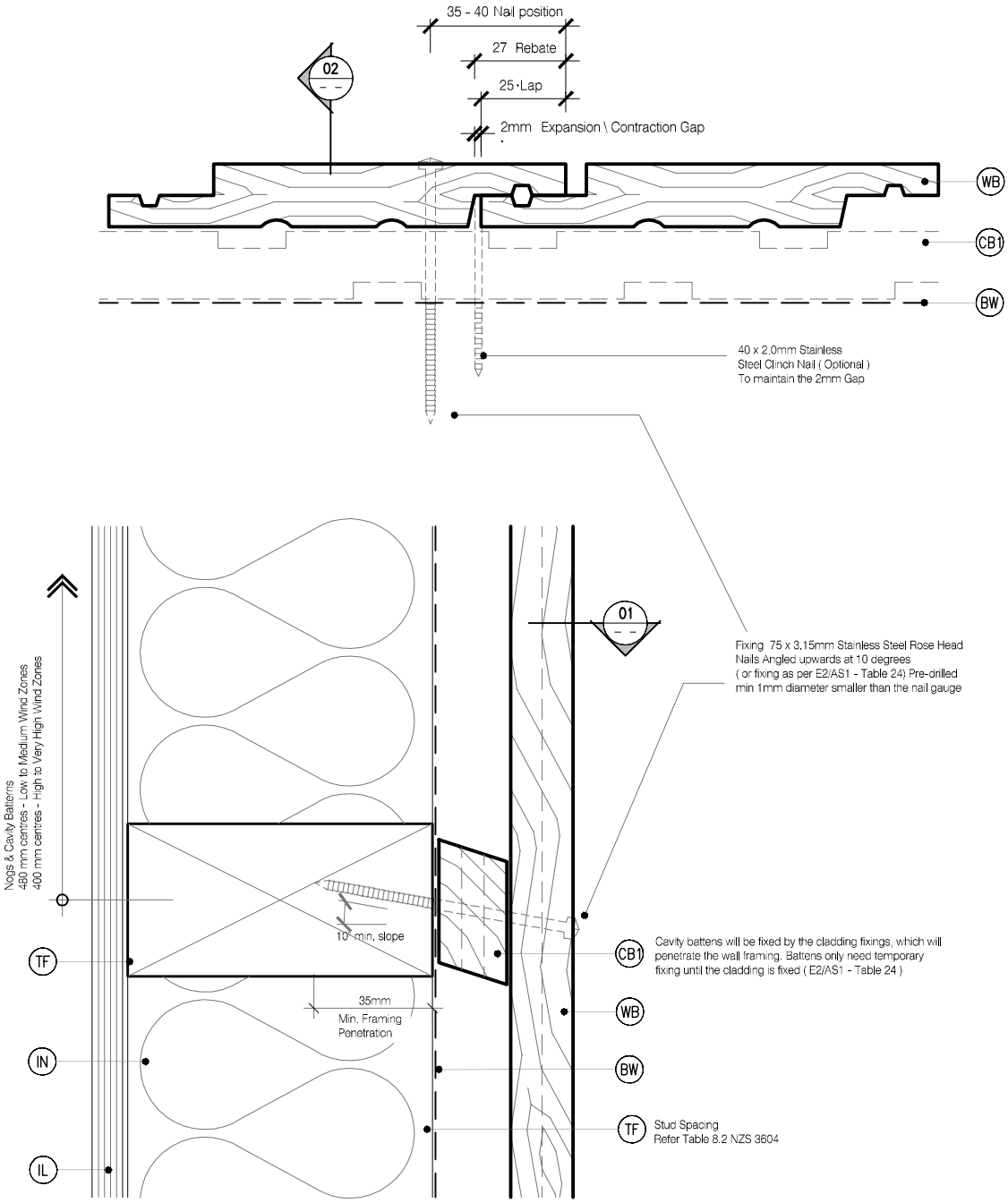
3D INTERNAL CORNER



LEGEND:

- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- IN — INSULATION: Selected Insulation
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- FT3 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. Not required by E2/AS1
- CF — CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- TF — TIMBER FRAME: H1.2 min Treated timber framing
- IL — INTERNAL LINING: Selected Internal Lining
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

WEATHERBOARD FIXING

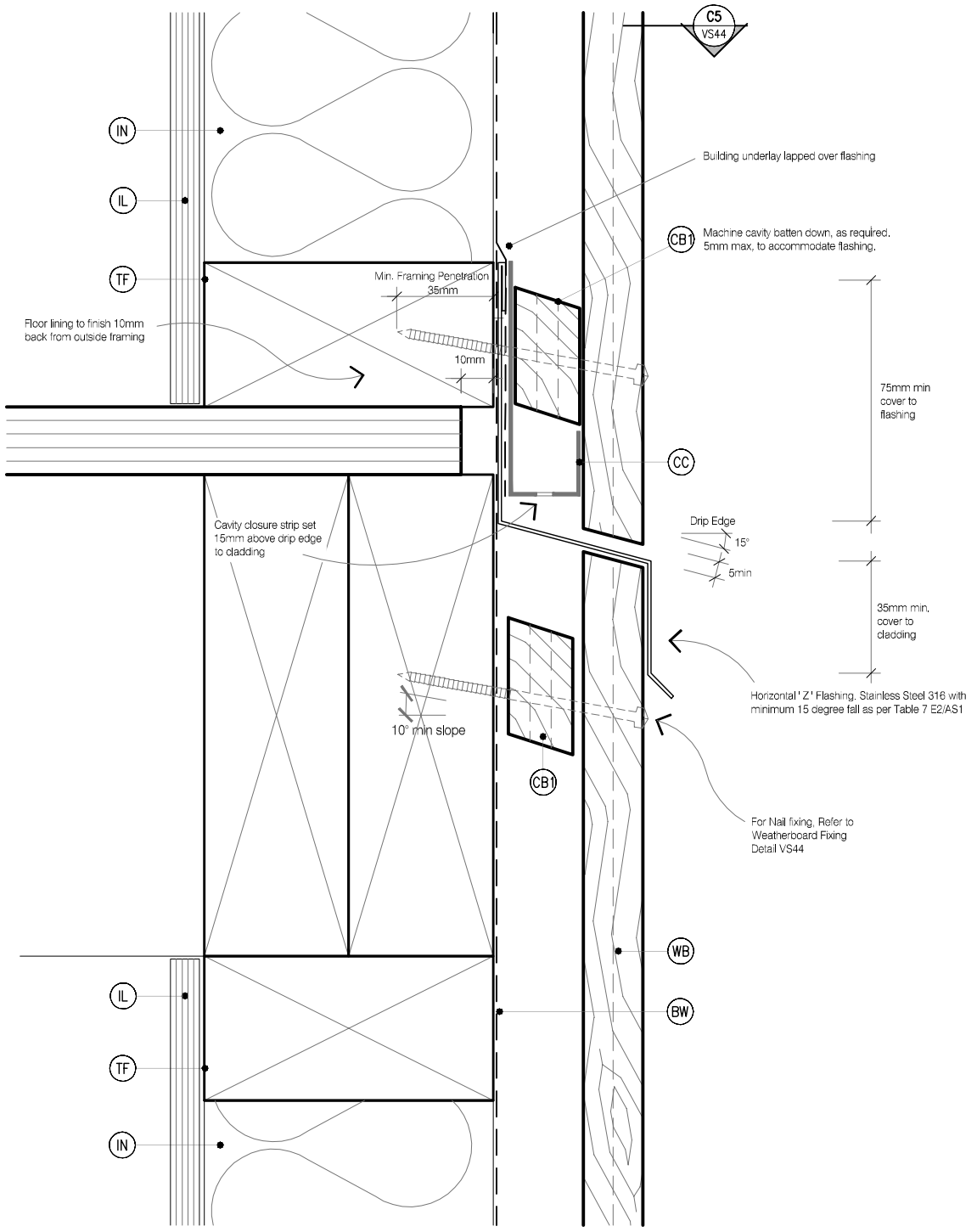


LEGEND:

- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IN) INSULATION: Selected Insulation
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. Not required by E2/AS1
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (TF) TIMBER FRAME: H1.2 min Treated timber framing
- (IL) INTERNAL LINING: Selected Internal Lining
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

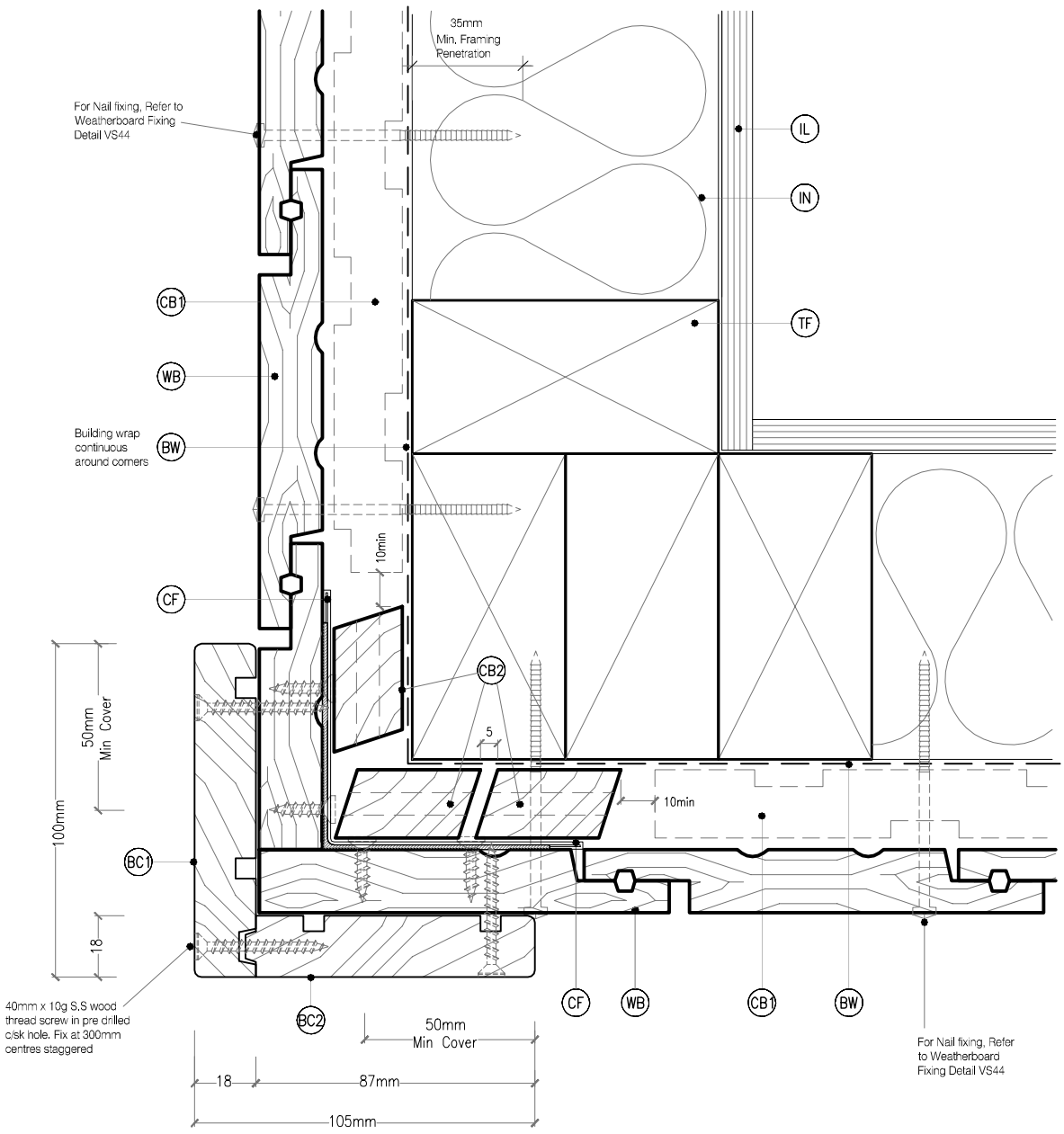
DRAINED INTER-STOREY JOINT



LEGEND:

- **BW** — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- **CB1** — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- **CB2** — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- **IN** — INSULATION: Selected Insulation
- **CB3** — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- **CC** — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- **FT3** — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. Not required by E2/AS1
- **CF** — CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- **TF** — TIMBER FRAME: H1.2 min Treated timber framing
- **IL** — INTERNAL LINING: Selected Internal Lining
- **WB** — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

EXTERNAL BOXED CORNER

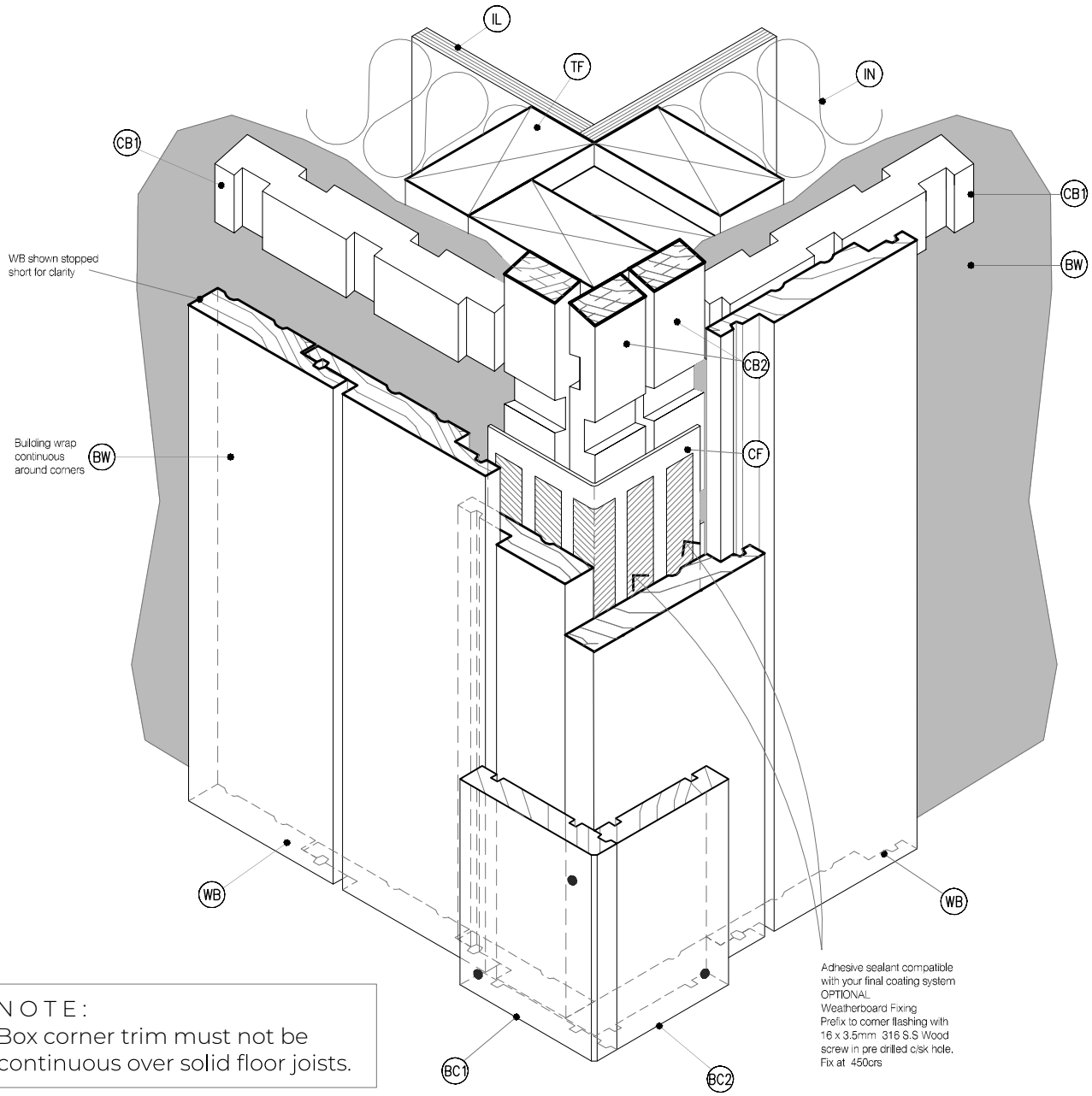


LEGEND:

- BC1 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 External box corner
- BC2 — BOXED CORNER COVER : Southern Pine 87 x 18 H3.1 Reversible box corner
- BC3 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 Internal box corner
- IL — INTERNAL LINING: Selected Internal Lining
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- CF — CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- PEF — PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- FT3 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. (Not required by E2/AS1)
- FT4 — FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- IN — INSULATION: Selected Insulation
- TF — TIMBER FRAME: H1.2 min treated timber framing
- WB — WEATHER BOARD: Souther Pine H3.2 Vertical Shiplap WB. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

3D EXTERNAL BOXED CORNER



NOTE:
Box corner trim must not be continuous over solid floor joists.

LEGEND:

- BC1 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 External box corner
- BC2 — BOXED CORNER COVER : Southern Pine 87 x 18 H3.1 Reversible box corner
- BC3 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 Internal box corner
- IL — INTERNAL LINING: Selected Internal Lining
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
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- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
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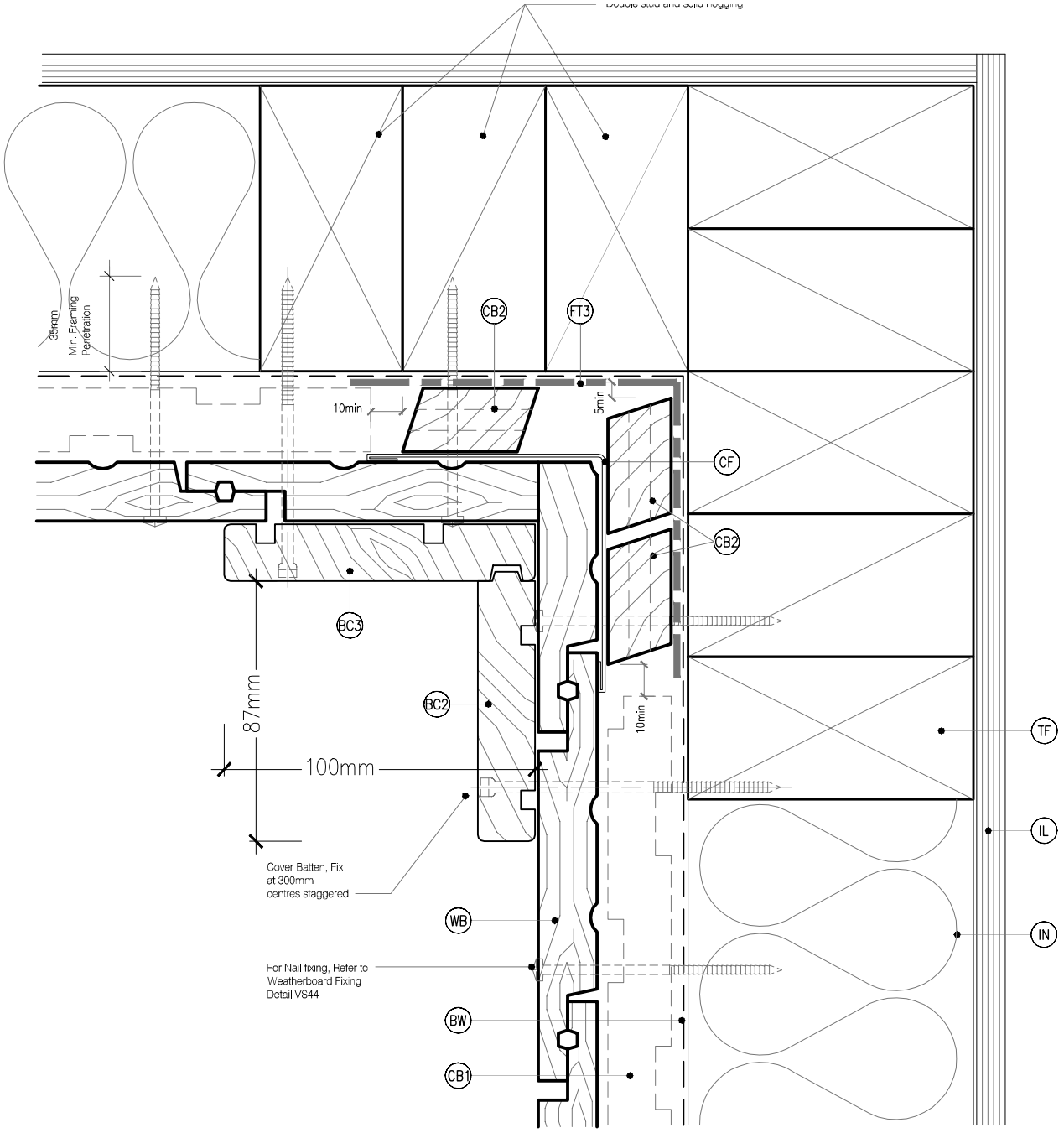
- FT4 — FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- IN — INSULATION: Selected Insulation
- TF — TIMBER FRAME: H1.2 min treated timber framing
- WB — WEATHER BOARD: Souther Pine H3.2 Vertical Shiplap WB. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

INTERNAL BOXED CORNER



DETAIL NOTES :

1. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1

LEGEND:

- BC1 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 External box corner
- BC2 — BOXED CORNER COVER : Southern Pine 87 x 18 H3.1 Reversible box corner
- BC3 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 Internal box corner
- IL — INTERNAL LINING: Selected Internal Lining
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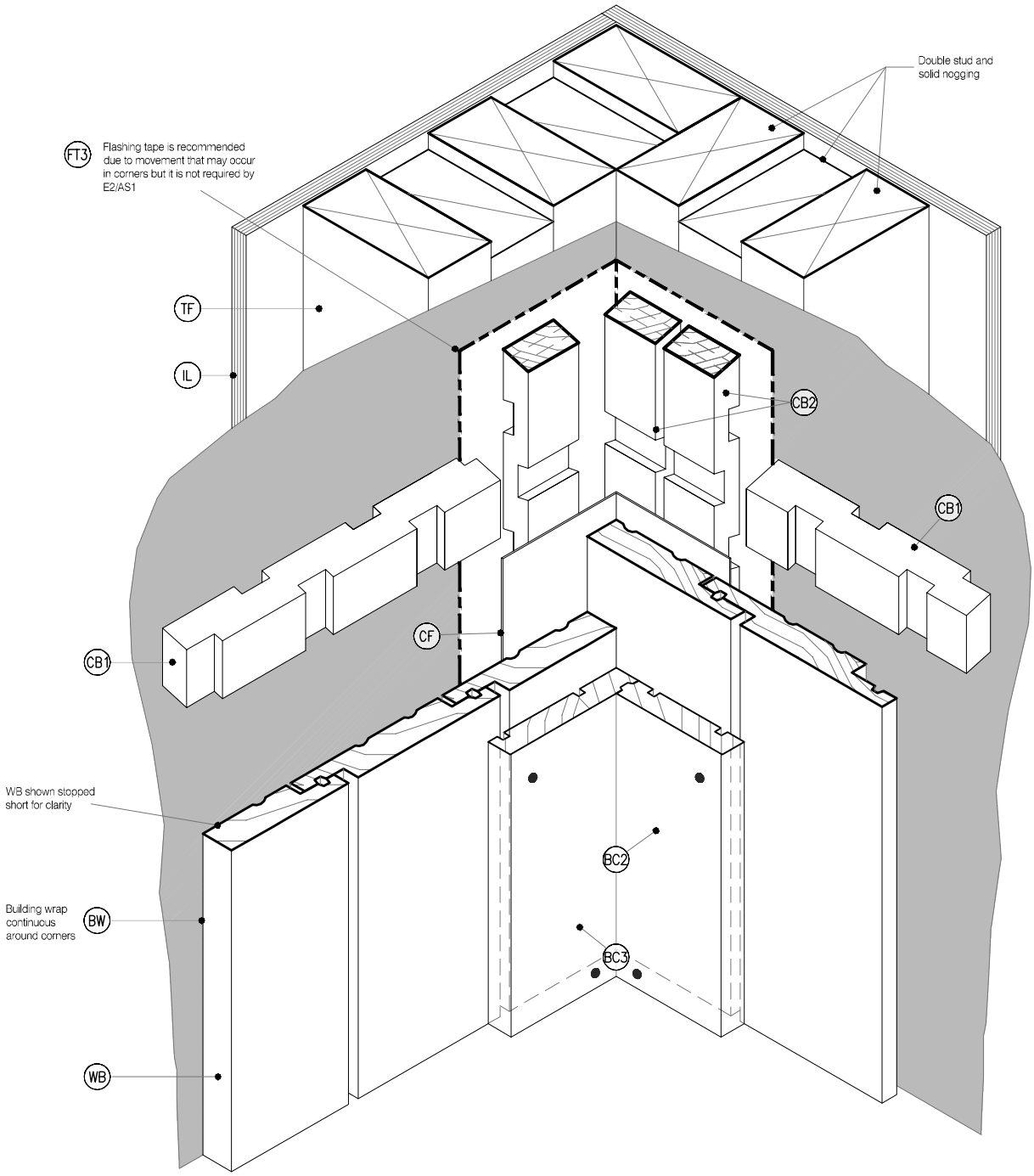
- FT4 — FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- IN — INSULATION: Selected Insulation
- TF — TIMBER FRAME: H1.2 min treated timber framing
- WB — WEATHER BOARD: Souther Pine H3.2 Vertical Shiplap WB. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

3D INTERNAL BOXED CORNER



LEGEND:

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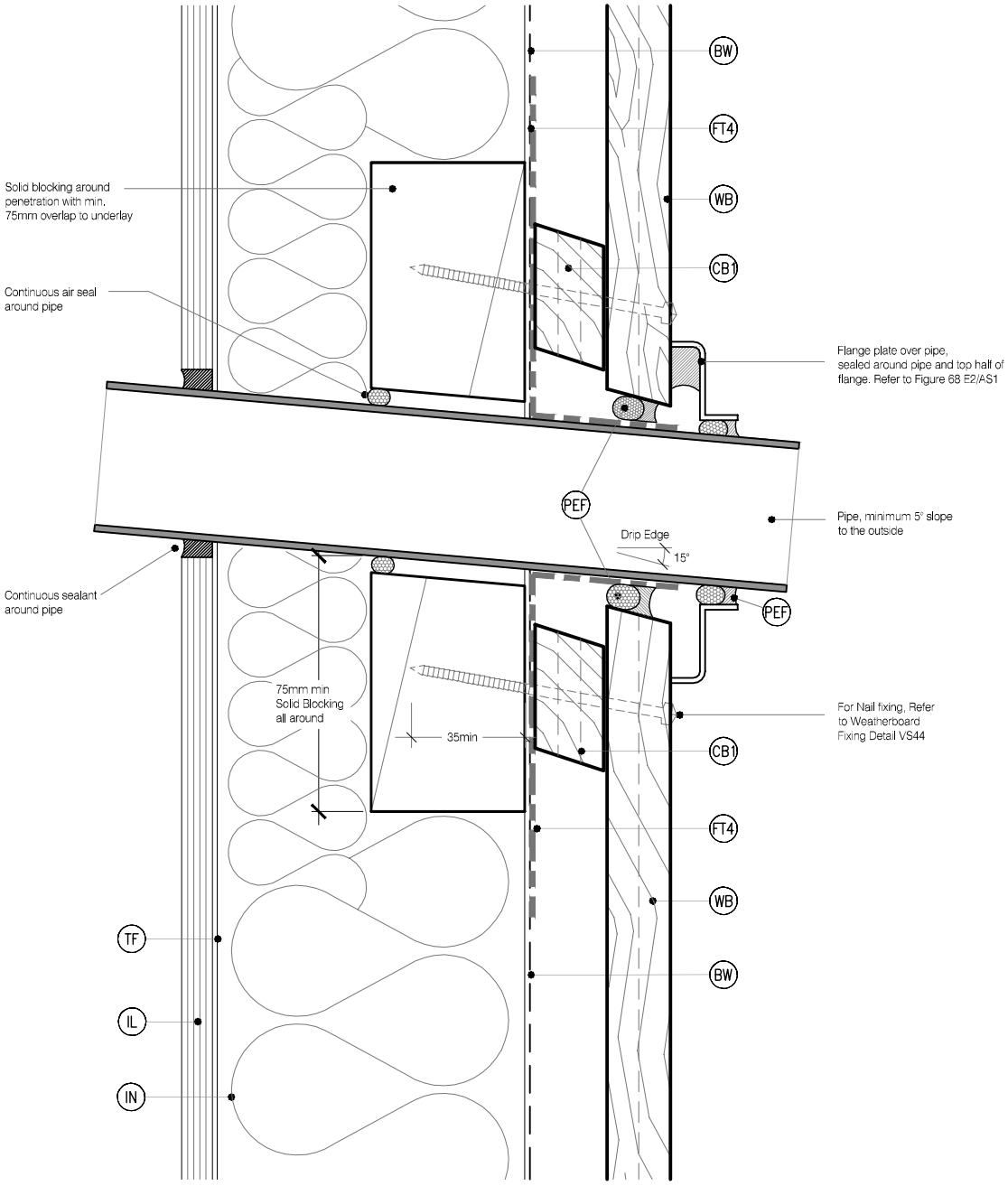
- BC2 — BOXED CORNER COVER : Southern Pine 87 x 18 H3.1 Reversible box corner
- BC3 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 Internal box corner
- IL — INTERNAL LINING: Selected Internal Lining
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2
70mm x 45mm SP Radiata Pine, H3.2
Castellated with a 18 degree bevelled slope.
To form a 45mm cavity
- CF — CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
50x50 Hem or Hook to Flashing Edges
75x75 NO, Hem or Hook Required
EXTRA HIGH WIND ZONE
100x100 Hem or Hook to Flashing Edges,
Refer NZBC E2/AS1 4.5.1
- PEF — PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- FT3 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. (Not required by E2/AS1)
- FT4 — FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- IN — INSULATION: Selected Insulation
- TF — TIMBER FRAME: H1.2 min treated timber framing
- WB — WEATHER BOARD: Souther Pine H3.2 Vertical Shiplap WB. Profile to NZS 3617

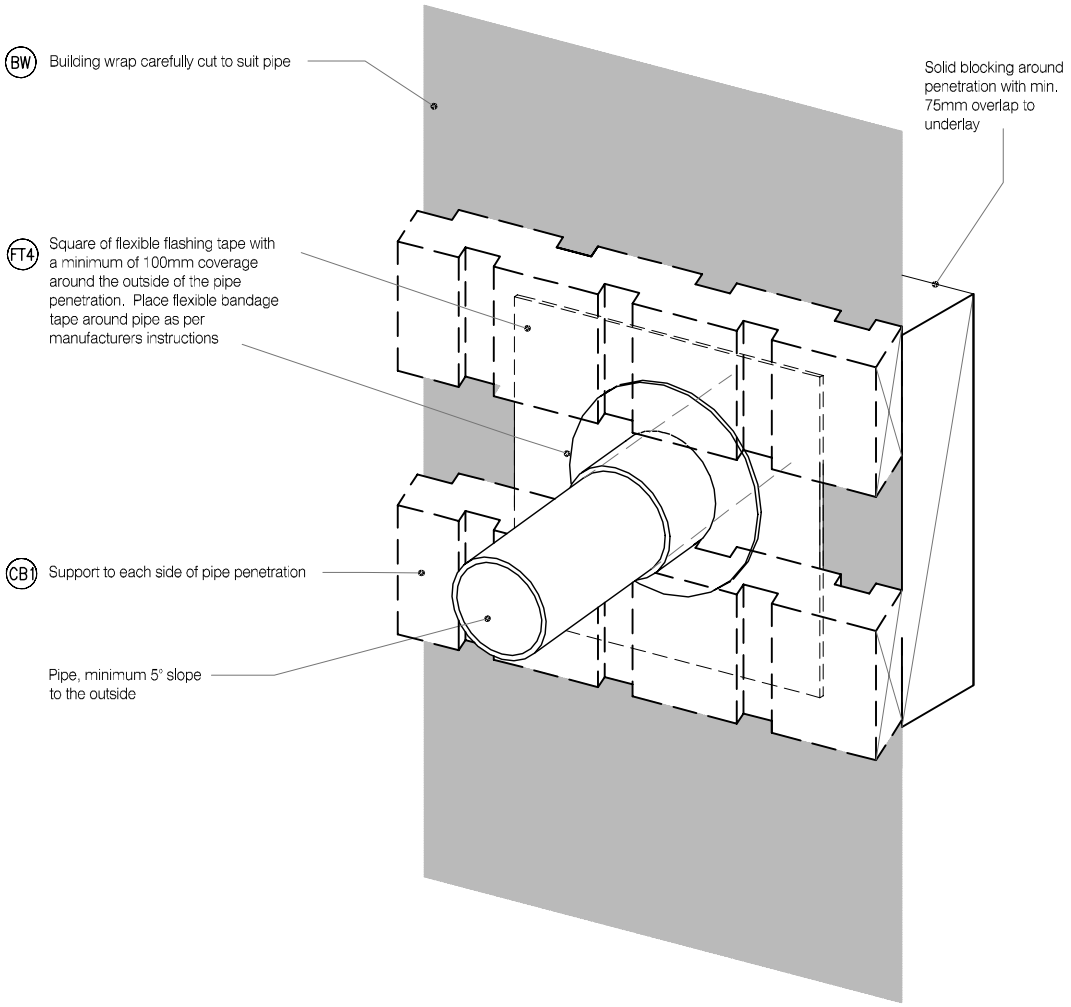
PIPE PENETRATION



LEGEND:

- BC1 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 External box corner
- BC2 — BOXED CORNER COVER : Southern Pine 87 x 18 H3.1 Reversible box corner
- BC3 — BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 Internal box corner
- IL — INTERNAL LINING: Selected Internal Lining
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- CF — CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- PEF — PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- FT3 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. (Not required by E2/AS1)
- FT4 — FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- IN — INSULATION: Selected Insulation
- TF — TIMBER FRAME: H1.2 min treated timber framing
- WB — WEATHER BOARD: Souther Pine H3.2 Vertical Shiplap WB. Profile to NZS 3617

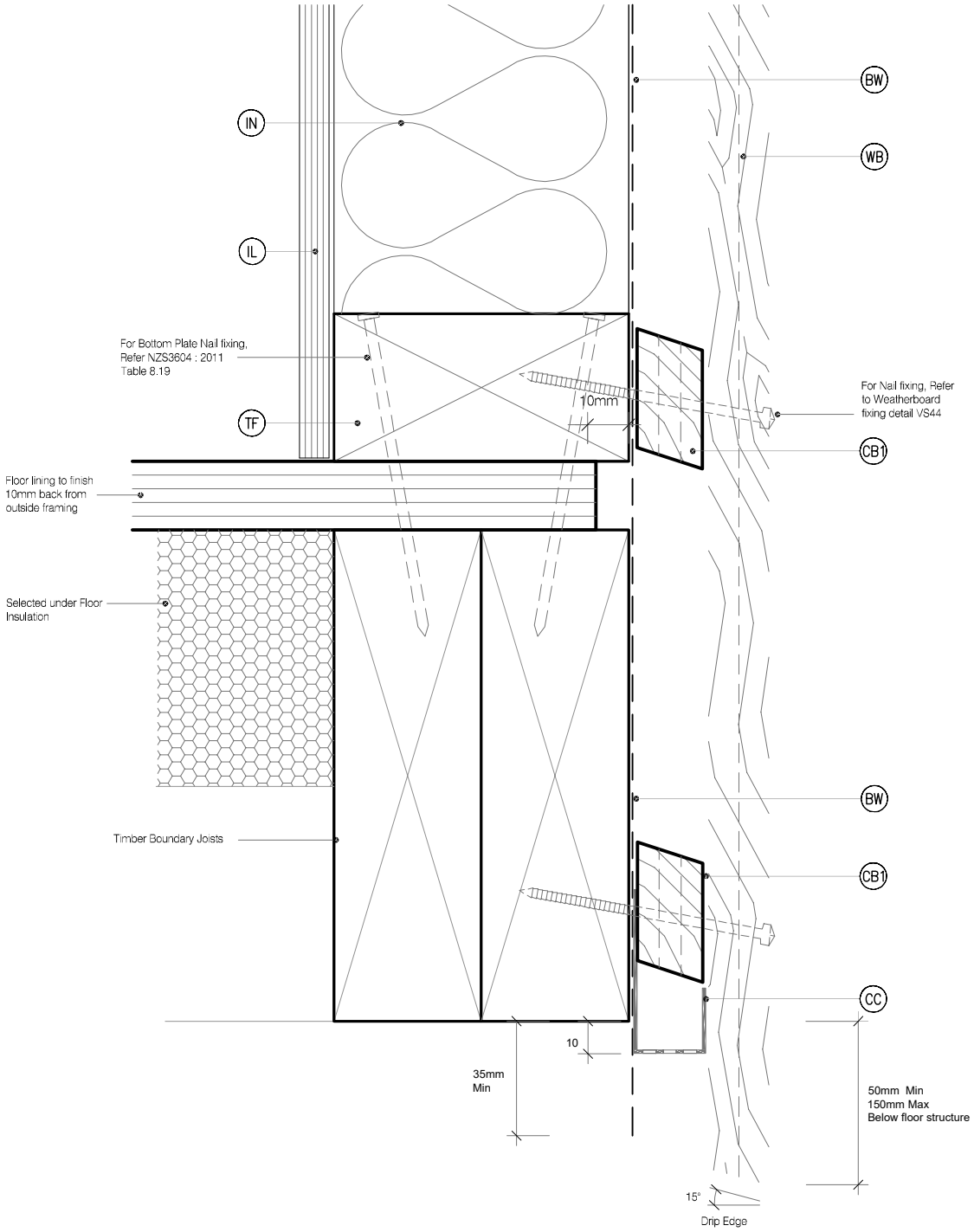
3D PIPE PENETRATION



LEGEND:

- BC1 BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 External box corner
- BC2 BOXED CORNER COVER : Southern Pine 87 x 18 H3.1 Reversible box corner
- BC3 BOXED CORNER COVER : Southern Pine 100 x 18 H3.1 Internal box corner
- IL INTERNAL LINING: Selected Internal Lining
- BW BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CB1 CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- CF CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- PEF PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- FT3 FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11 Flashing tape is recommended due to movement that may occur in corners. (Not required by E2/AS1)
- FT4 FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- IN INSULATION: Selected Insulation
- TF TIMBER FRAME: H1.2 min treated timber framing
- WB WEATHER BOARD: Souther Pine H3.2 Vertical Shiplap WB. Profile to NZS 3617

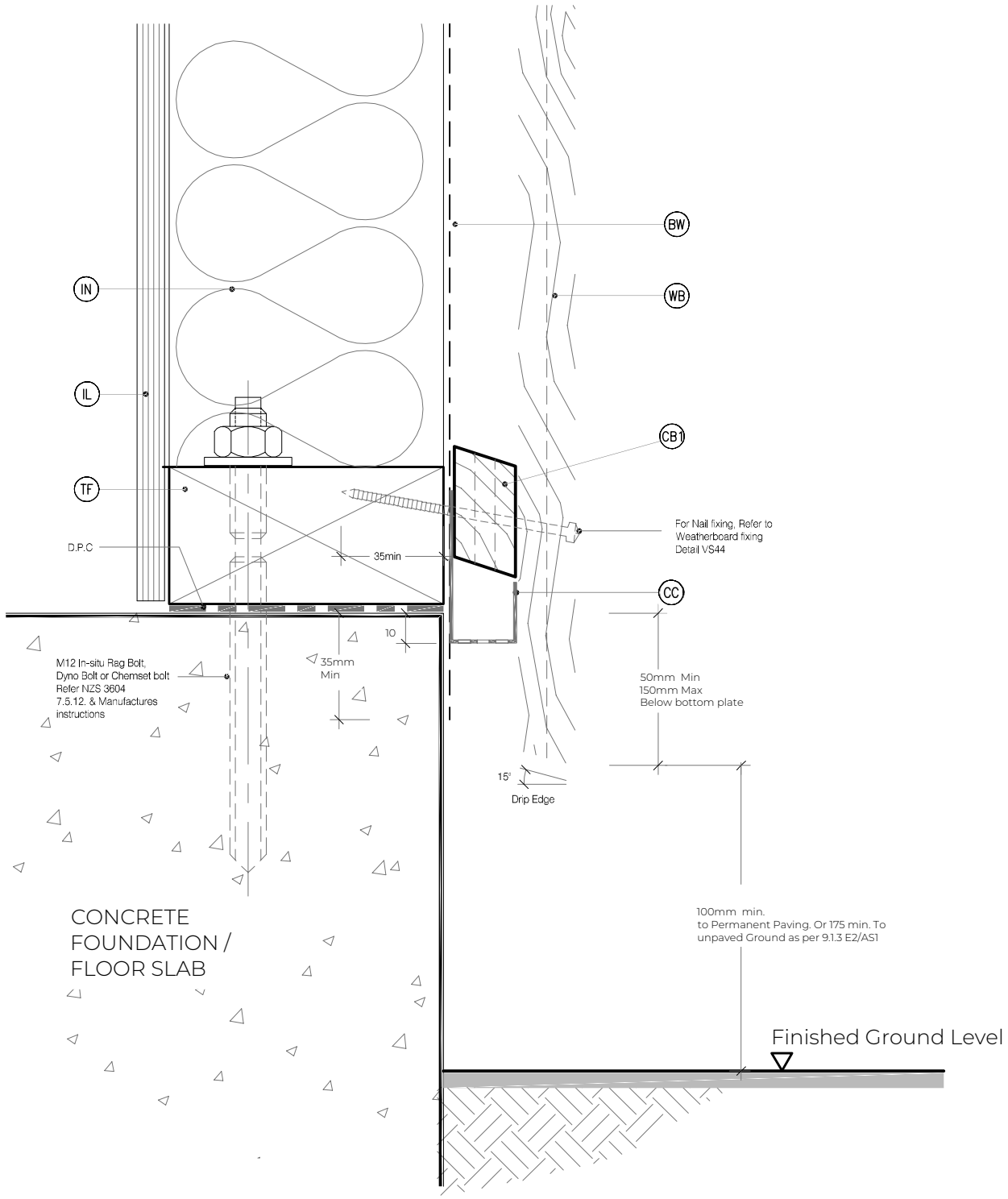
BASE OF WALL TIMBER



LEGEND:

- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (HS) HEAD SOFFIT SCRIBER: Southern Pine Eaves Mould EM40x27. Fix with 75 x 3.15mm 316 S.S nail in 2.5mm predrilled hole
- (MR) METAL ROOFING : Selected Metal Roofing
- (SL) SOFFIT LINING: Selected Soffit Lining
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: H3.2 treated at 300crs to allow ventilation over the top of the wall.
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

BASE OF WALL CONCRETE

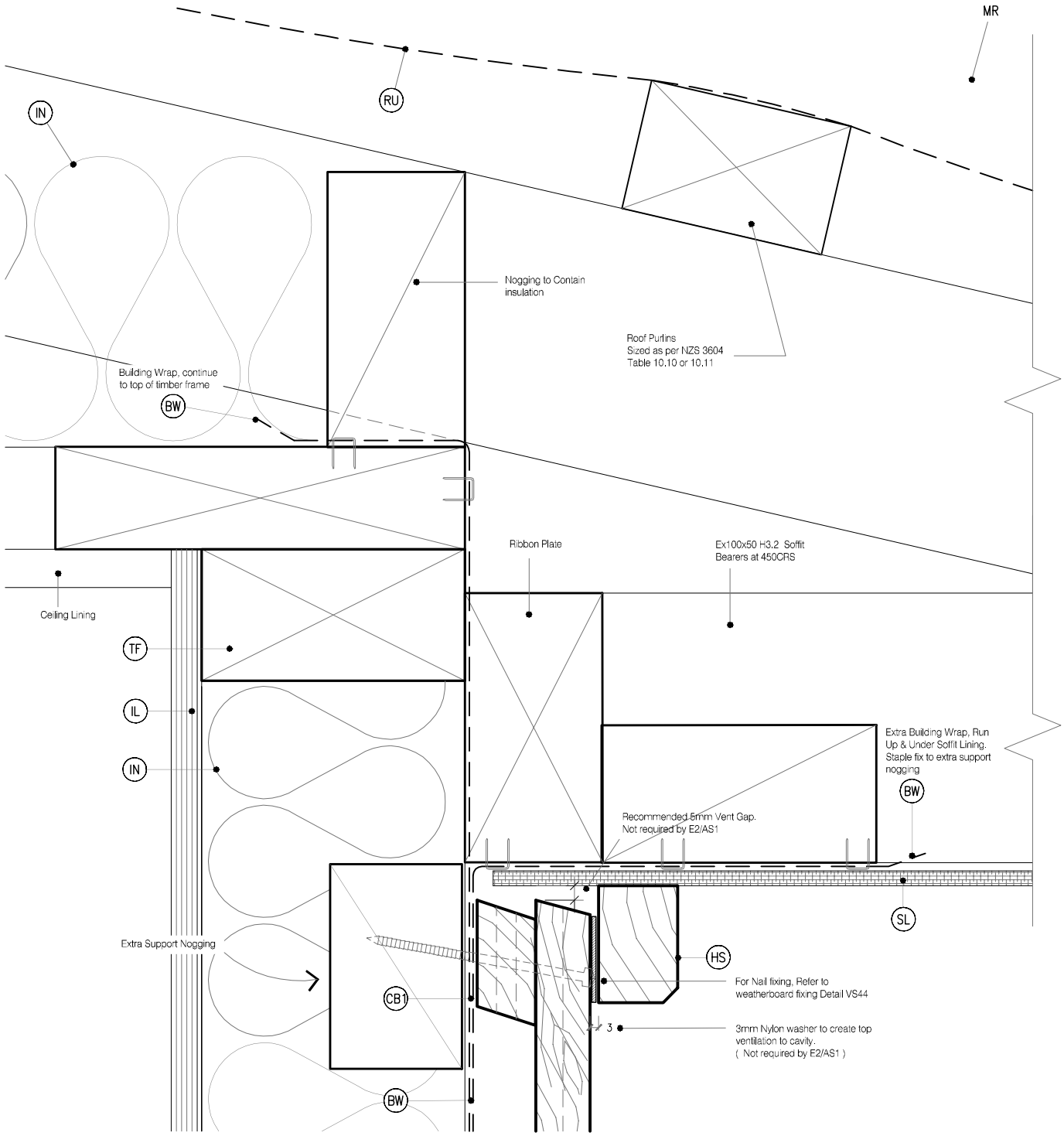


LEGEND:

- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (HS) HEAD SOFFIT SCRIBER: Southern Pine Eaves Mould EM40x27. Fix with 75 x 3.15mm 316 S.S nail in 2.5mm predrilled hole
- (MR) METAL ROOFING : Selected Metal Roofing
- (SL) SOFFIT LINING: Selected Soffit Lining
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: H3.2 treated at 300crs to allow ventilation over the top of the wall.
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

SOFFIT DETAIL AT WALL

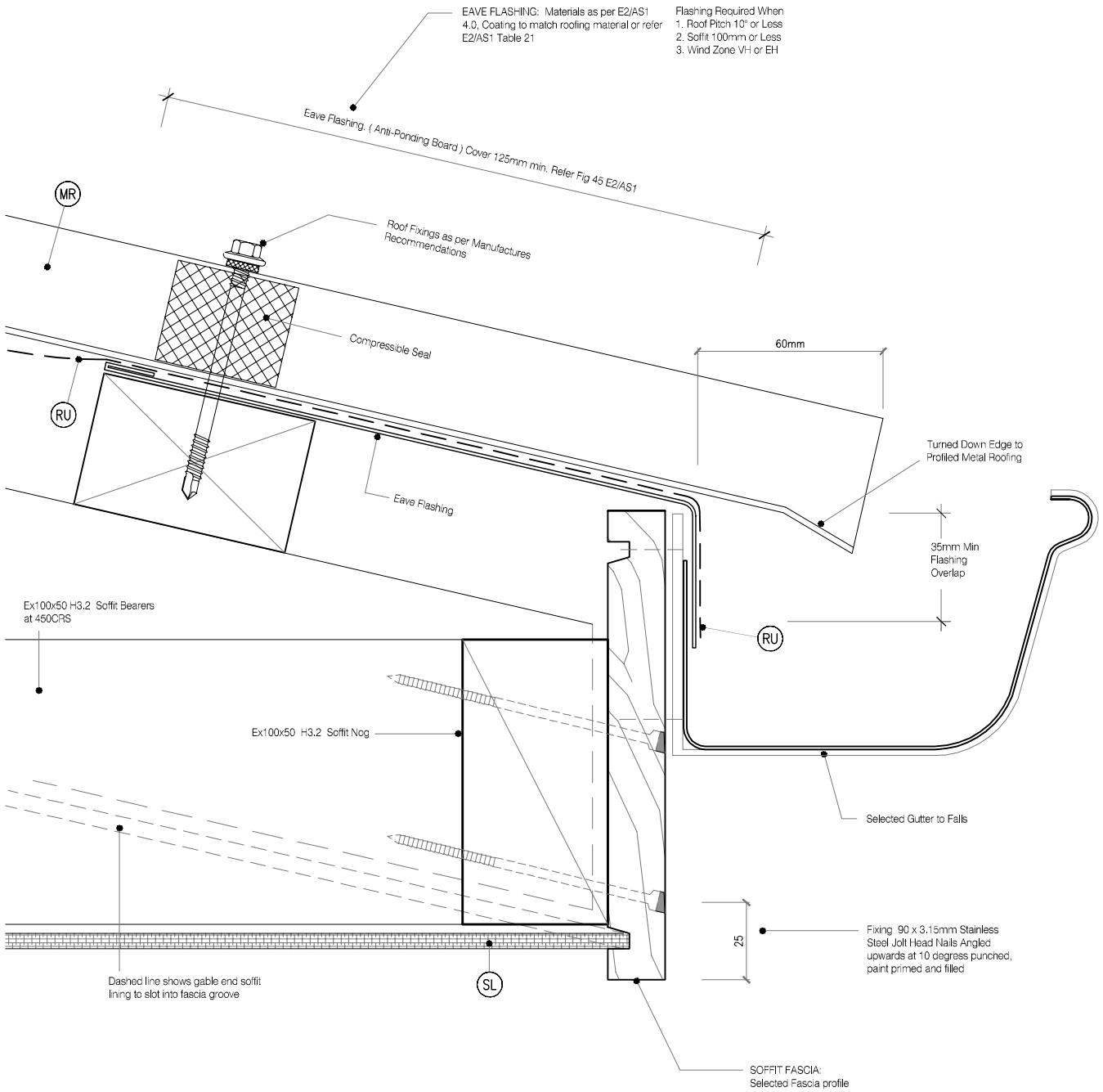


LEGEND:

- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (HS) HEAD SOFFIT SCRIBER: Southern Pine Eaves Mould EM40x27. Fix with 75 x 3.15mm 316 S.S nail in 2.5mm predrilled hole
- (MR) METAL ROOFING : Selected Metal Roofing
- (SL) SOFFIT LINING: Selected Soffit Lining
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: H3.2 treated at 300crs to allow ventilation over the top of the wall.
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

SOFFIT DETAIL AT FASCIA

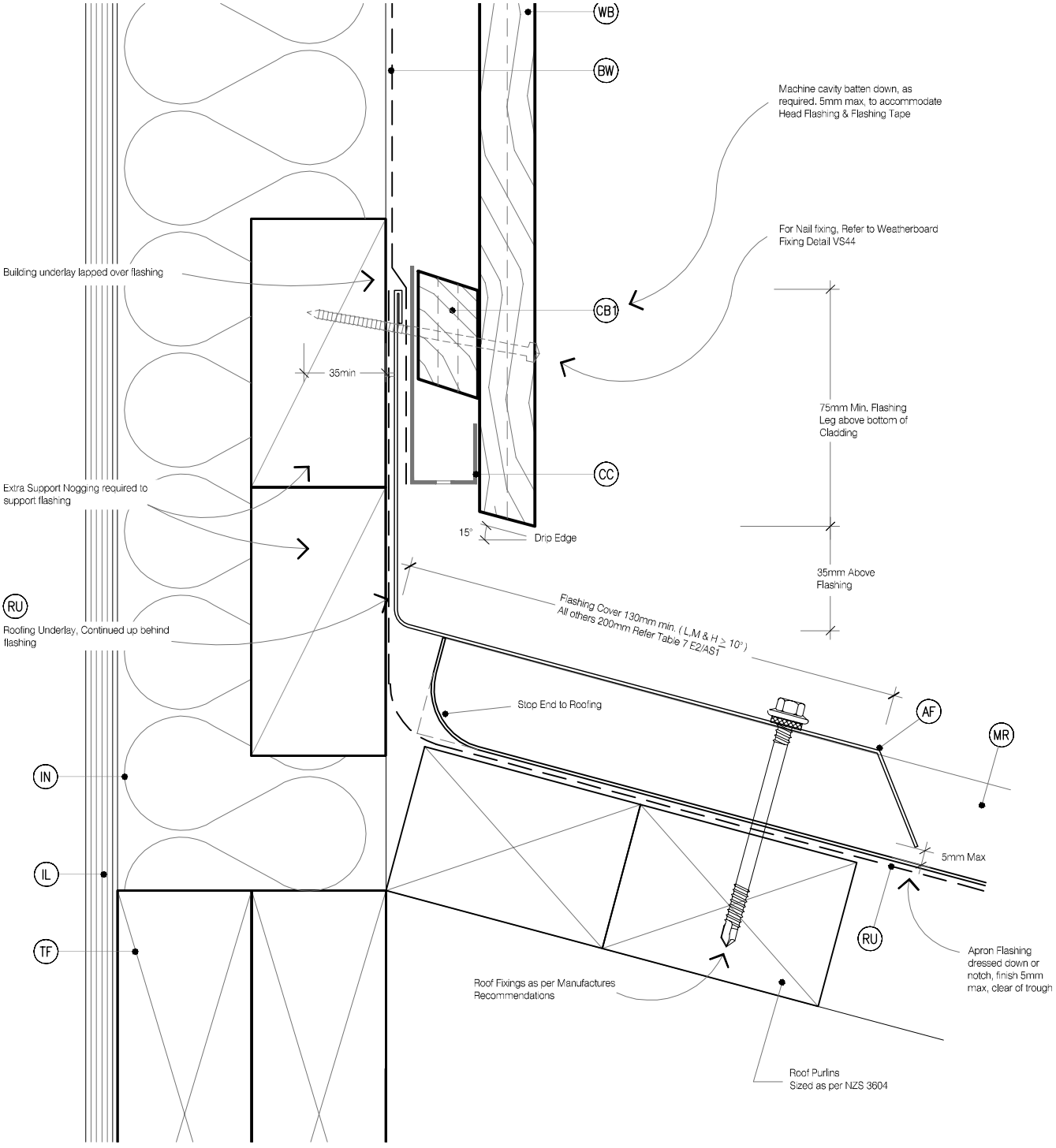


LEGEND:

- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (HS) HEAD SOFFIT SCRIBER: Southern Pine Eaves Mould EM40x27. Fix with 75 x 3.15mm 316 S.S nail in 2.5mm predrilled hole
- (MR) METAL ROOFING : Selected Metal Roofing
- (SL) SOFFIT LINING: Selected Soffit Lining
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: H3.2 treated at 300crs to allow ventilation over the top of the wall.
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

APRON FLASHING ROOF TO WALL JUNCTION

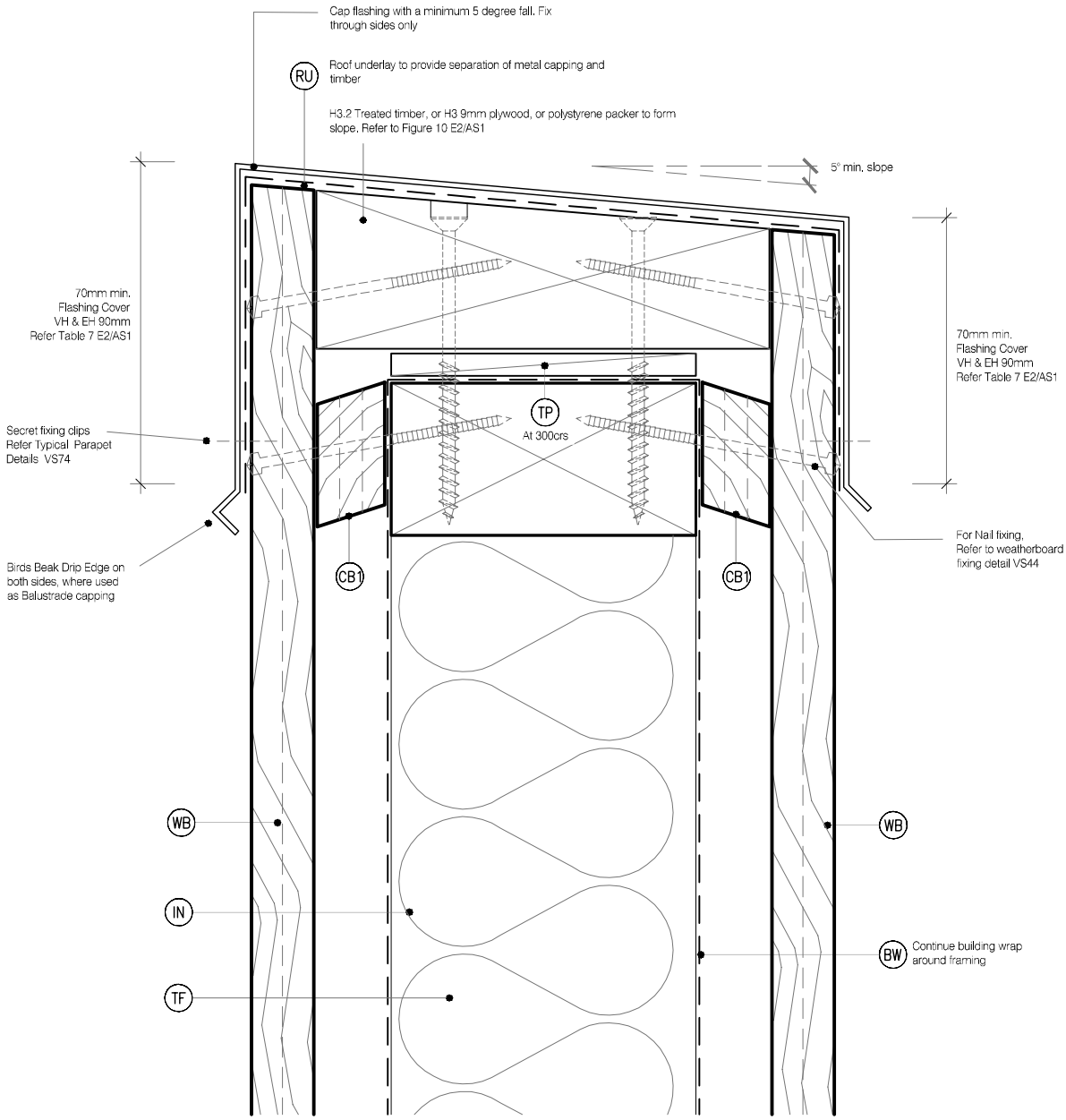


LEGEND:

- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (HS) HEAD SOFFIT SCRIBER: Southern Pine Eaves Mould EM40x27. Fix with 75 x 3.15mm 316 S.S nail in 2.5mm predrilled hole
- (MR) METAL ROOFING : Selected Metal Roofing
- (SL) SOFFIT LINING: Selected Soffit Lining
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: H3.2 treated at 300crs to allow ventilation over the top of the wall.
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

BALUSTRADE CAPPING OR PARAPET DETAIL

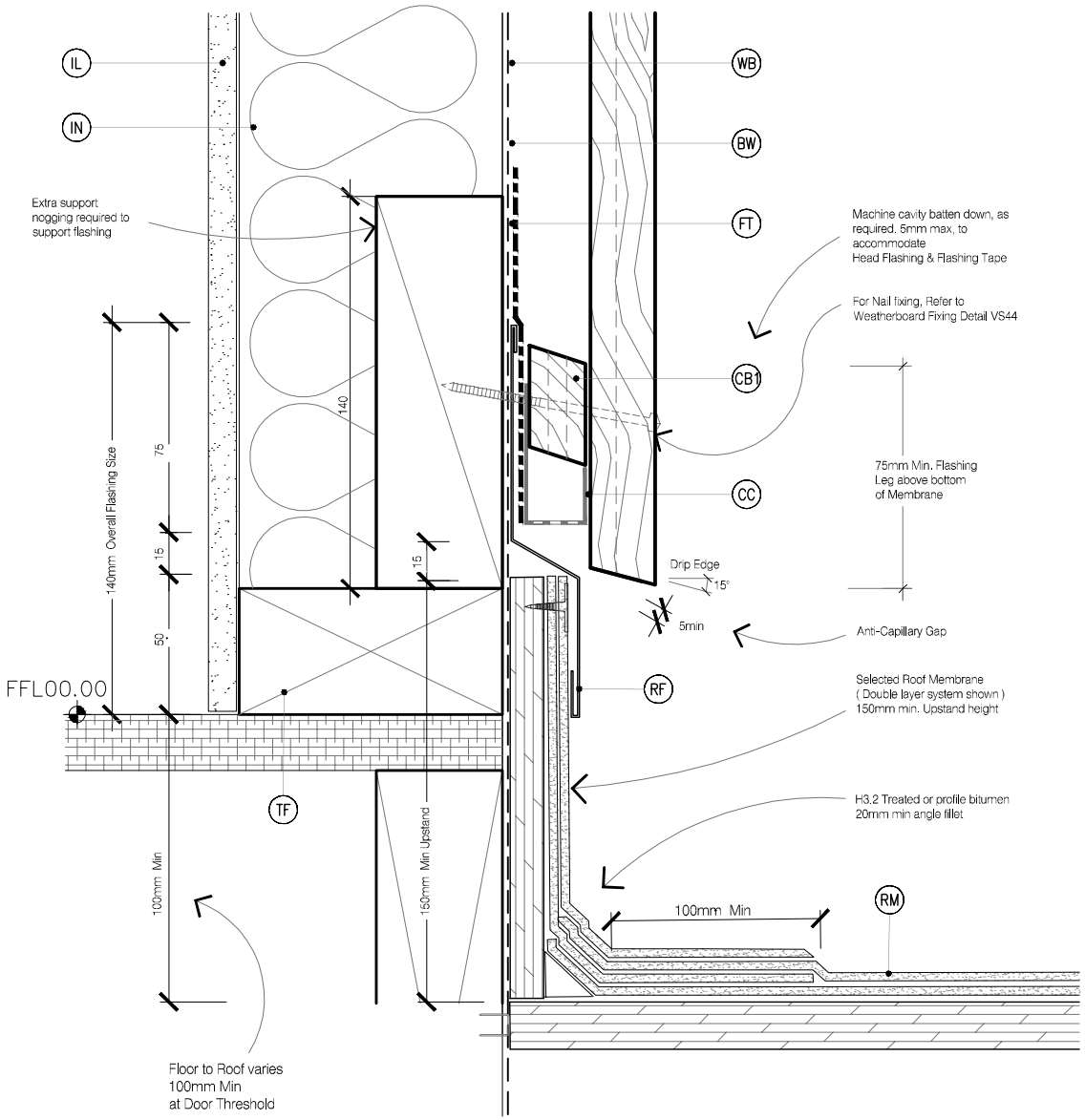


LEGEND:

- AF — APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- IL — INTERNAL LINING: Selected Internal Lining
- IN — INSULATION: Selected Insulation
- HS — HEAD SOFFIT SCRIBER: Southern Pine Eaves Mould EM40x27. Fix with 75 x 3.15mm 316 S.S nail in 2.5mm predrilled hole
- MR — METAL ROOFING : Selected Metal Roofing
- SL — SOFFIT LINING: Selected Soffit Lining
- TF — TIMBER FRAME: H1.2 min treated timber framing
- TP — TIMBER PACKER: H3.2 treated at 300crs to allow ventilation over the top of the wall.
- RU — ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617

DENDRO
BY SOUTHERN PINE

BASE OF WALL
MEMBRANE ROOF

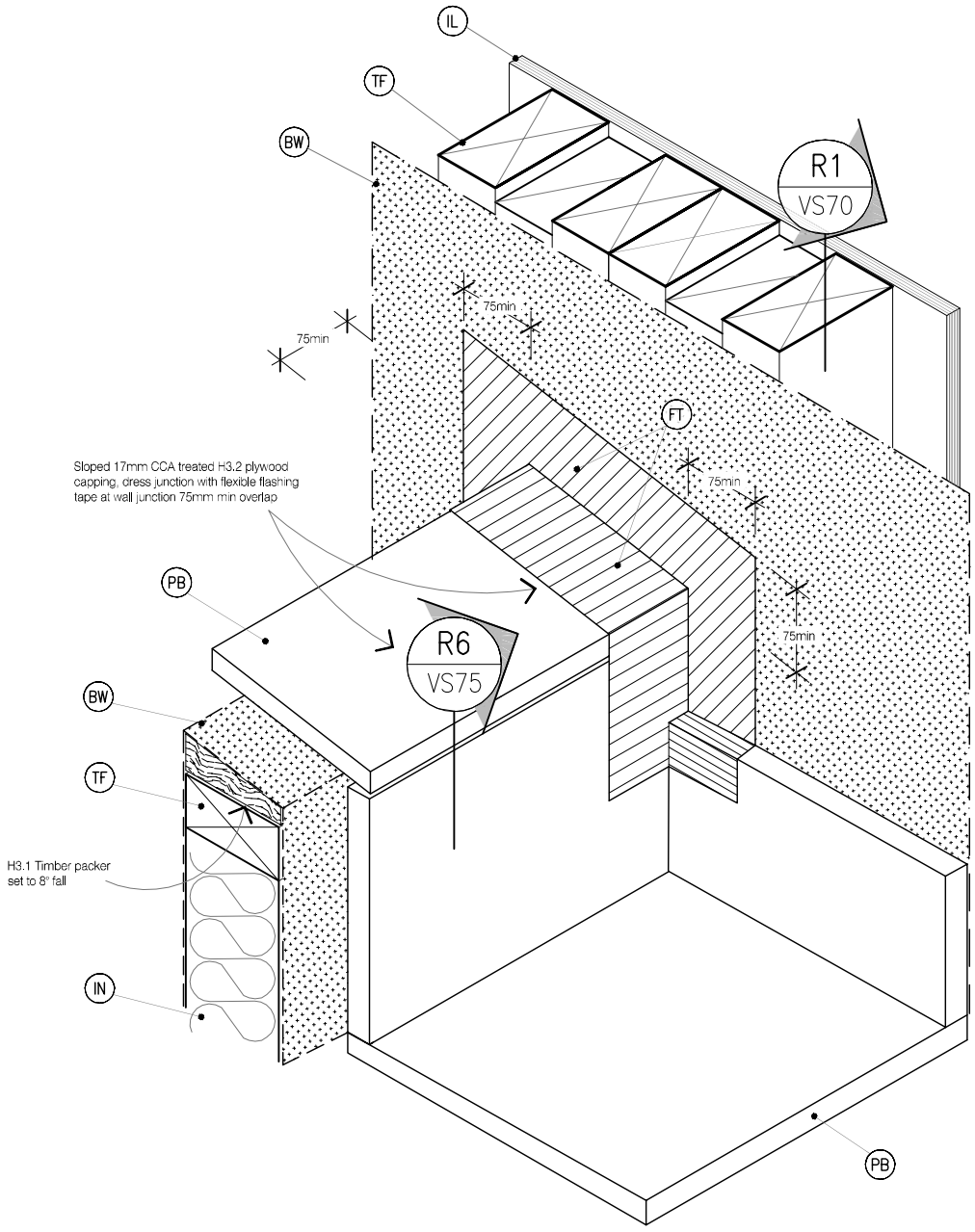


LEGEND:

- **PSF** — PARAPET SADDLE FLASHING: Materials as per E2/AS1 4.0, refer E2/AS1 Figure 11 & 12 . Typically 0.45mm Min 316 Stainless Steel. Refer Table 20 & Table 21 for Comparability of Materials in Contact
- **BW** — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- **CC** — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- **CB1** — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- **CB2** — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- **CB3** — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- **FT** — FLASHING TAPE: As per E2/AS1 4.3.11
- **CF** — CAP FLASHING: Continuous parapet flashing. Materials as per E2/AS1 4.3 + Figure 9 & Table 7
- **IL** — INTERNAL LINING: Selected Internal Lining
- **RM** — ROOFING MEMBRANE: Selected System on 17mm CCA treated H3.2 grade plywood glued and screwed to Rafters. Roof Membrane requires 400mm solid block support each way & solid support to all sheet edges
- **IN** — INSULATION: Selected Insulation
- **PB** — PLYWOOD BACKING: 17mm CCA treated H3.2 grade plywood substrate
- **RF** — ROOF FLASHING: Materials as per E2/AS1 4.3
- **WB** — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- **TF** — TIMBER FRAME: H1.2 min treated timber framing

DENDRO
BY SOUTHERN PINE

ROOF TO DECK MEMBRANE SADDLE FLASHING STAGE ONE



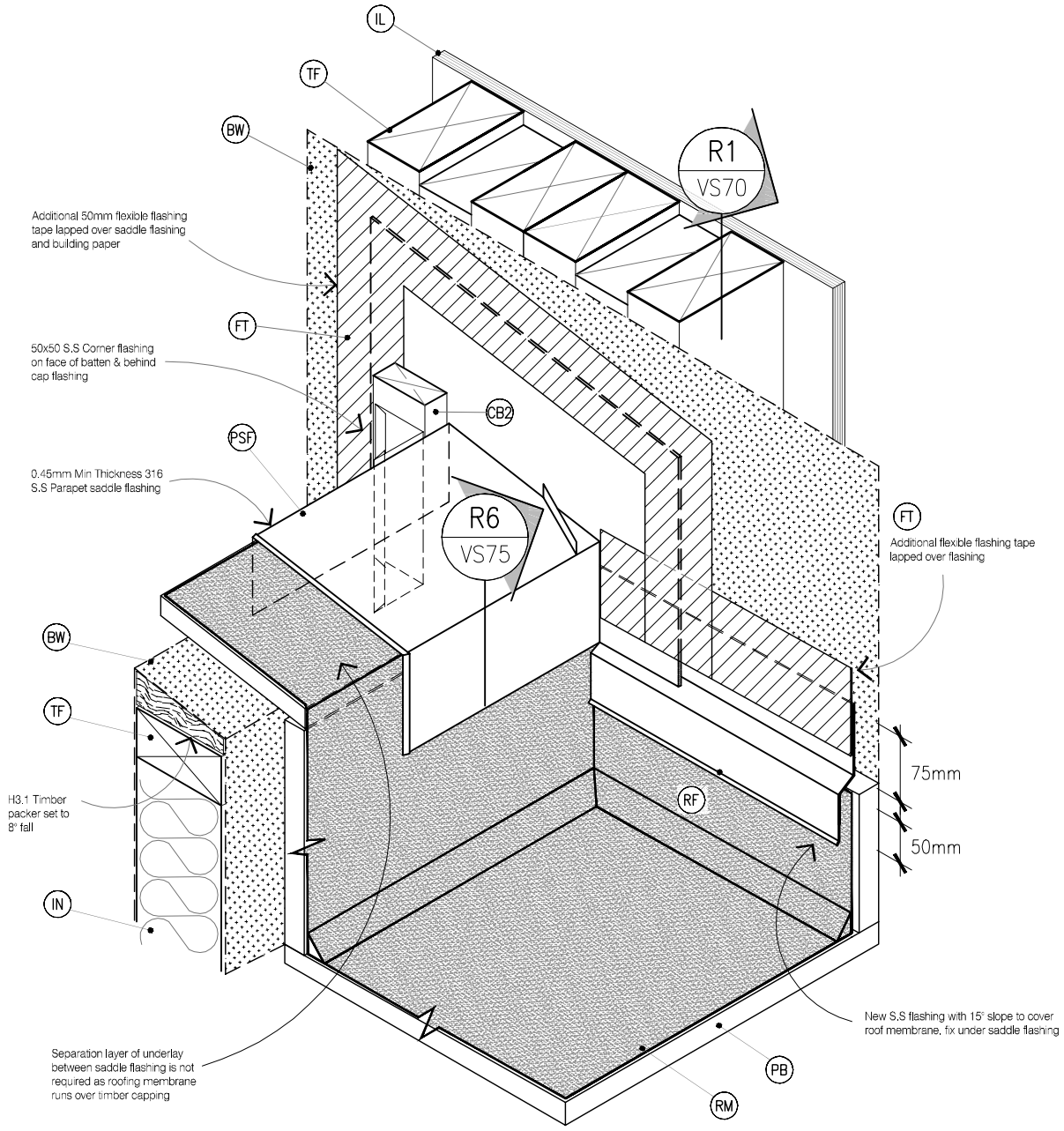
STAGE ONE

LEGEND:

- (PSF) PARAPET SADDLE FLASHING: Materials as per E2/AS1 4.0, refer E2/AS1 Figure 11 & 12 . Typically 0.45mm Min 316 Stainless Steel. Refer Table 20 & Table 21 for Comparability of Materials in Contact
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (FT) FLASHING TAPE: As per E2/AS1 4.3.11
- (CF) CAP FLASHING: Continuous parapet flashing. Materials as per E2/AS1 4.3 + Figure 9 & Table 7
- (IL) INTERNAL LINING: Selected Internal Lining
- (RM) ROOFING MEMBRANE: Selected System on 17mm CCA treated H3.2 grade plywood glued and screwed to Rafters. Roof Membrane requires 400mm solid block support each way & solid support to all sheet edges
- (IN) INSULATION: Selected Insulation
- (PB) PLYWOOD BACKING: 17mm CCA treated H3.2 grade plywood substrate
- (RF) ROOF FLASHING: Materials as per E2/AS1 4.3
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (TF) TIMBER FRAME: H1.2 min treated timber framing

DENDRO
BY SOUTHERN PINE

DECK TO ROOF MEMBRANE SADDLE FLASHING STAGE TWO



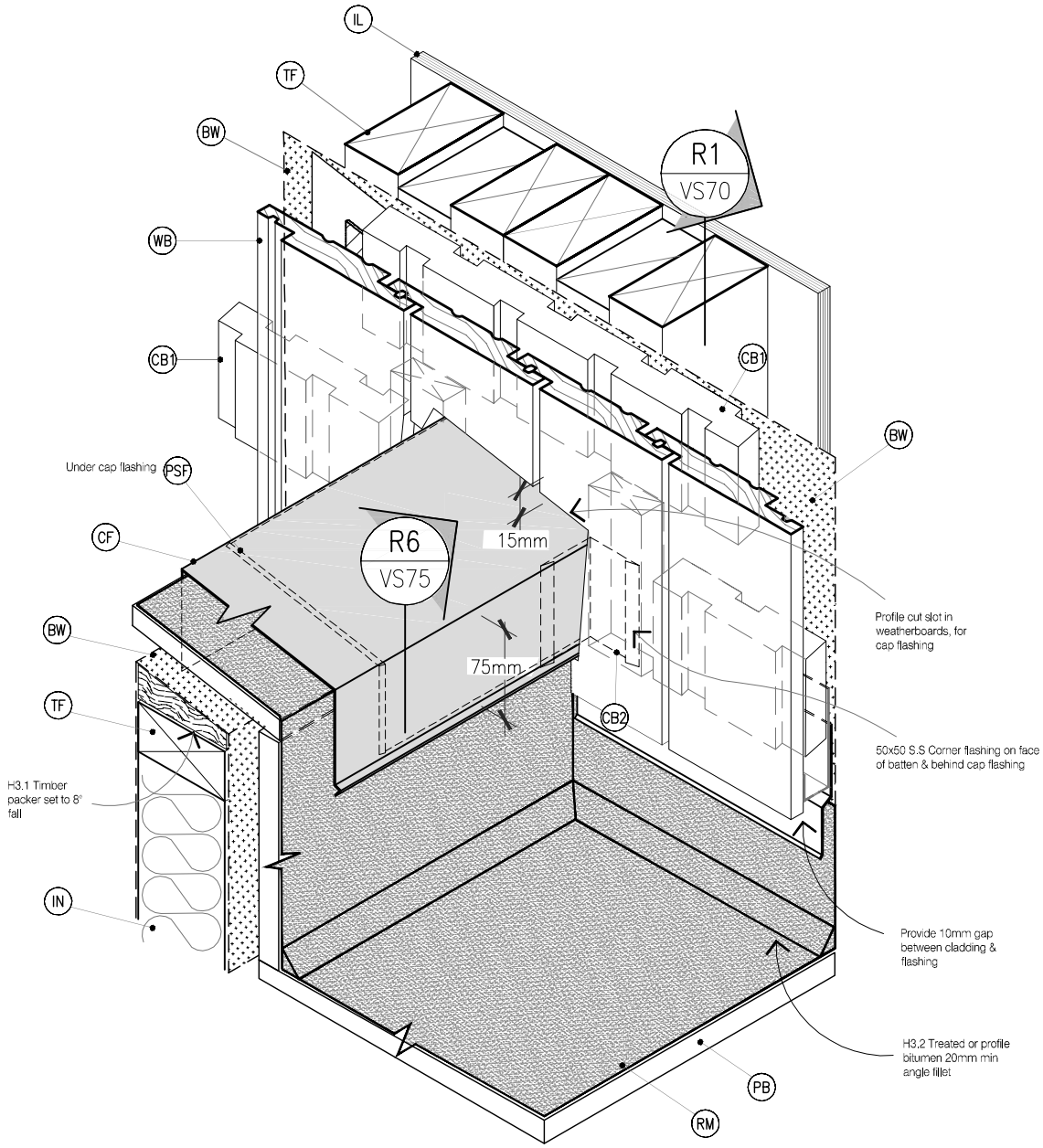
STAGE TWO

LEGEND:

- PSF — PARAPET SADDLE FLASHING: Materials as per E2/AS1 4.0, refer E2/AS1 Figure 11 & 12 . Typically 0.45mm Min 316 Stainless Steel. Refer Table 20 & Table 21 for Comparability of Materials in Contact
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- FT — FLASHING TAPE: As per E2/AS1 4.3.11
- CF — CAP FLASHING: Continuous parapet flashing. Materials as per E2/AS1 4.3 + Figure 9 & Table 7
- IL — INTERNAL LINING: Selected Internal Lining
- RM — ROOFING MEMBRANE: Selected System on 17mm CCA treated H3.2 grade plywood glued and screwed to Rafters. Roof Membrane requires 400mm solid block support each way & solid support to all sheet edges
- IN — INSULATION: Selected Insulation
- PB — PLYWOOD BACKING: 17mm CCA treated H3.2 grade plywood substrate
- RF — ROOF FLASHING: Materials as per E2/AS1 4.3
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- TF — TIMBER FRAME: H1.2 min treated timber framing

DENDRO
BY SOUTHERN PINE

DECK TO ROOF MEMBRANE SADDLE FLASHING STAGE THREE



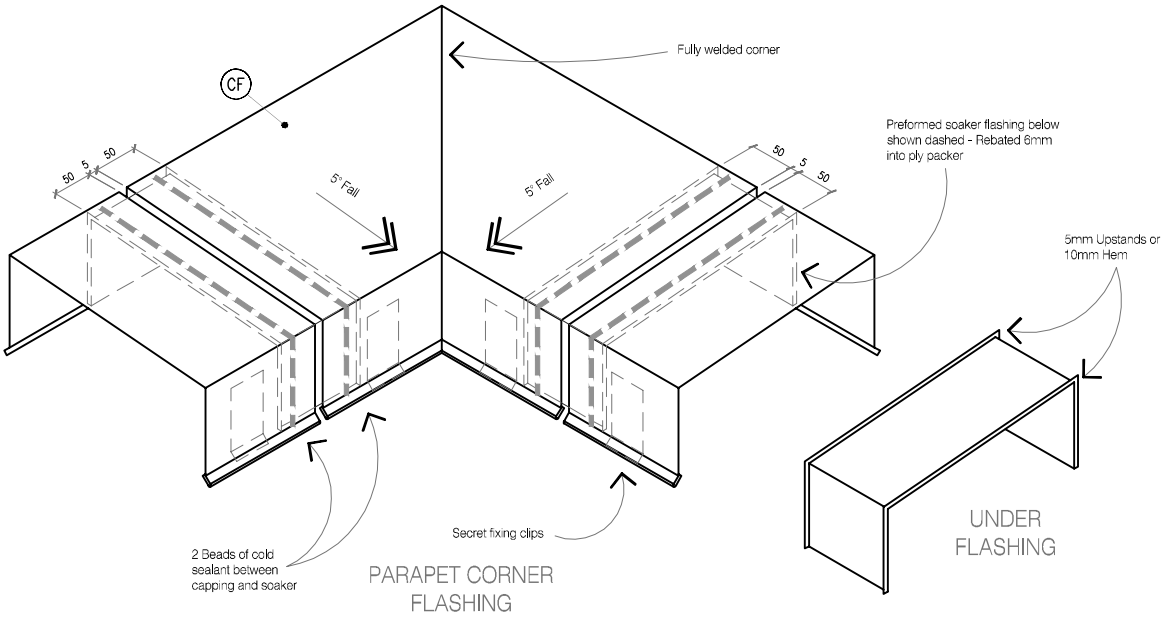
STAGE THREE

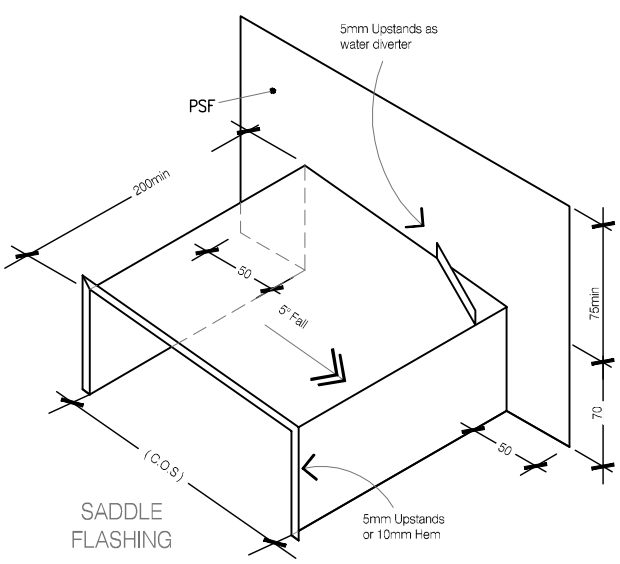
LEGEND:

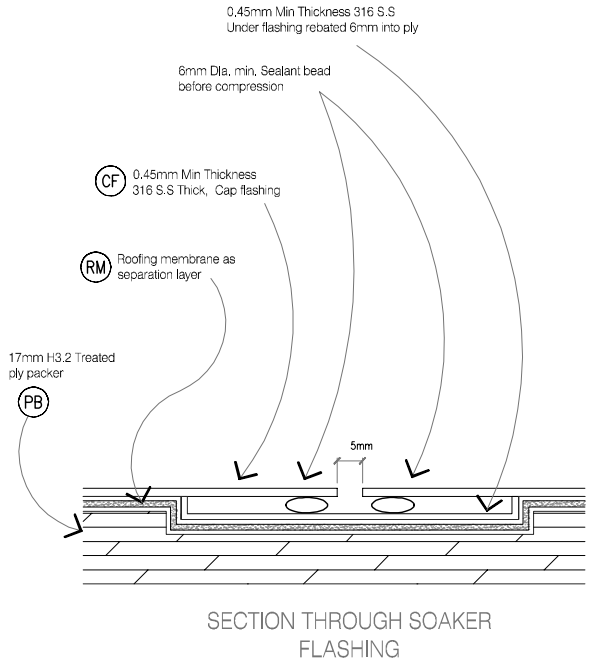
- PSF — PARAPET SADDLE FLASHING: Materials as per E2/AS1 4.0, refer E2/AS1 Figure 11 & 12 . Typically 0.45mm Min 316 Stainless Steel. Refer Table 20 & Table 21 for Comparability of Materials in Contact
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- FT — FLASHING TAPE: As per E2/AS1 4.3.11
- CF — CAP FLASHING: Continuous parapet flashing. Materials as per E2/AS1 4.3 + Figure 9 & Table 7
- IL — INTERNAL LINING: Selected Internal Lining
- RM — ROOFING MEMBRANE: Selected System on 17mm CCA treated H3.2 grade plywood glued and screwed to Rafters. Roof Membrane requires 400mm solid block support each way & solid support to all sheet edges
- IN — INSULATION: Selected Insulation
- PB — PLYWOOD BACKING: 17mm CCA treated H3.2 grade plywood substrate
- RF — ROOF FLASHING: Materials as per E2/AS1 4.3
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- TF — TIMBER FRAME: H1.2 min treated timber framing

DENDRO
BY SOUTHERN PINE

TYPICAL PARAPET CAPPING JOINT DETAILS





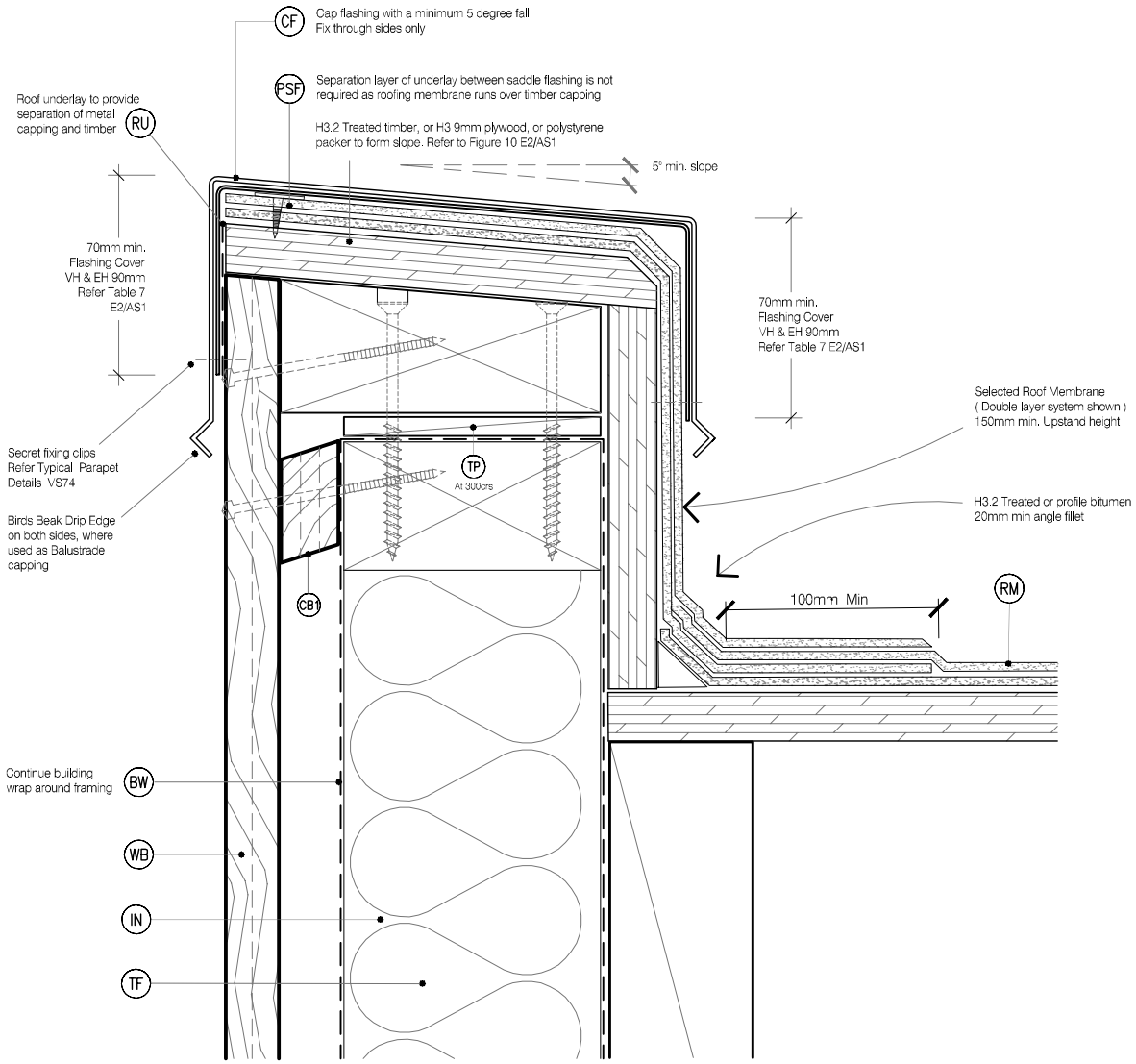


LEGEND:

- PSF — PARAPET SADDLE FLASHING: Materials as per E2/AS1 4.0, refer E2/AS1 Figure 11 & 12 . Typically 0.45mm Min 316 Stainless Steel. Refer Table 20 & Table 21 for Comparability of Materials in Contact
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- FT — FLASHING TAPE: As per E2/AS1 4.3.11
- CF — CAP FLASHING: Continuous parapet flashing. Materials as per E2/AS1 4.3 + Figure 9 & Table 7
- IL — INTERNAL LINING: Selected Internal Lining
- RM — ROOFING MEMBRANE: Selected System on 17mm CCA treated H3.2 grade plywood glued and screwed to Rafters. Roof Membrane requires 400mm solid block support each way & solid support to all sheet edges
- IN — INSULATION: Selected Insulation
- PB — PLYWOOD BACKING: 17mm CCA treated H3.2 grade plywood substrate
- RF — ROOF FLASHING: Materials as per E2/AS1 4.3
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- TF — TIMBER FRAME: H1.2 min treated timber framing

DENDRO
BY SOUTHERN PINE

PARAPET SECTION TO MEMBRANEE ROOF

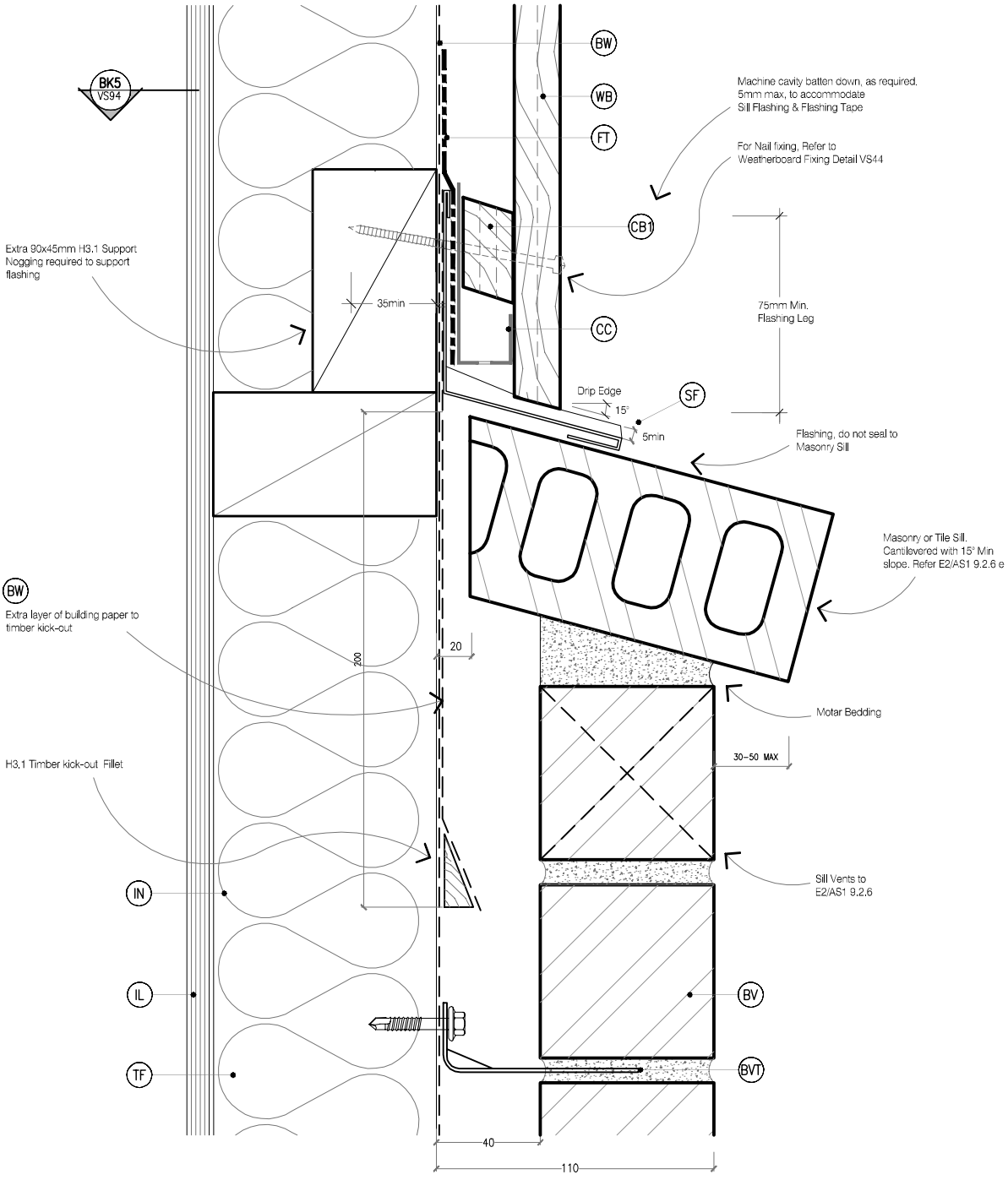


LEGEND:

- PSF — PARAPET SADDLE FLASHING: Materials as per E2/AS1 4.0, refer E2/AS1 Figure 11 & 12 . Typically 0.45mm Min 316 Stainless Steel. Refer Table 20 & Table 21 for Comparability of Materials in Contact
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- CB3 — CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- FT — FLASHING TAPE: As per E2/AS1 4.3.11
- CF — CAP FLASHING: Continuous parapet flashing. Materials as per E2/AS1 4.3 + Figure 9 & Table 7
- IL — INTERNAL LINING: Selected Internal Lining
- RM — ROOFING MEMBRANE: Selected System on 17mm CCA treated H3.2 grade plywood glued and screwed to Rafters. Roof Membrane requires 400mm solid block support each way & solid support to all sheet edges
- IN — INSULATION: Selected Insulation
- PB — PLYWOOD BACKING: 17mm CCA treated H3.2 grade plywood substrate
- RF — ROOF FLASHING: Materials as per E2/AS1 4.3
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- TF — TIMBER FRAME: H1.2 min treated timber framing

DENDRO
BY SOUTHERN PINE

HALF WALL SILL WEATHERBOARD TO BRICK

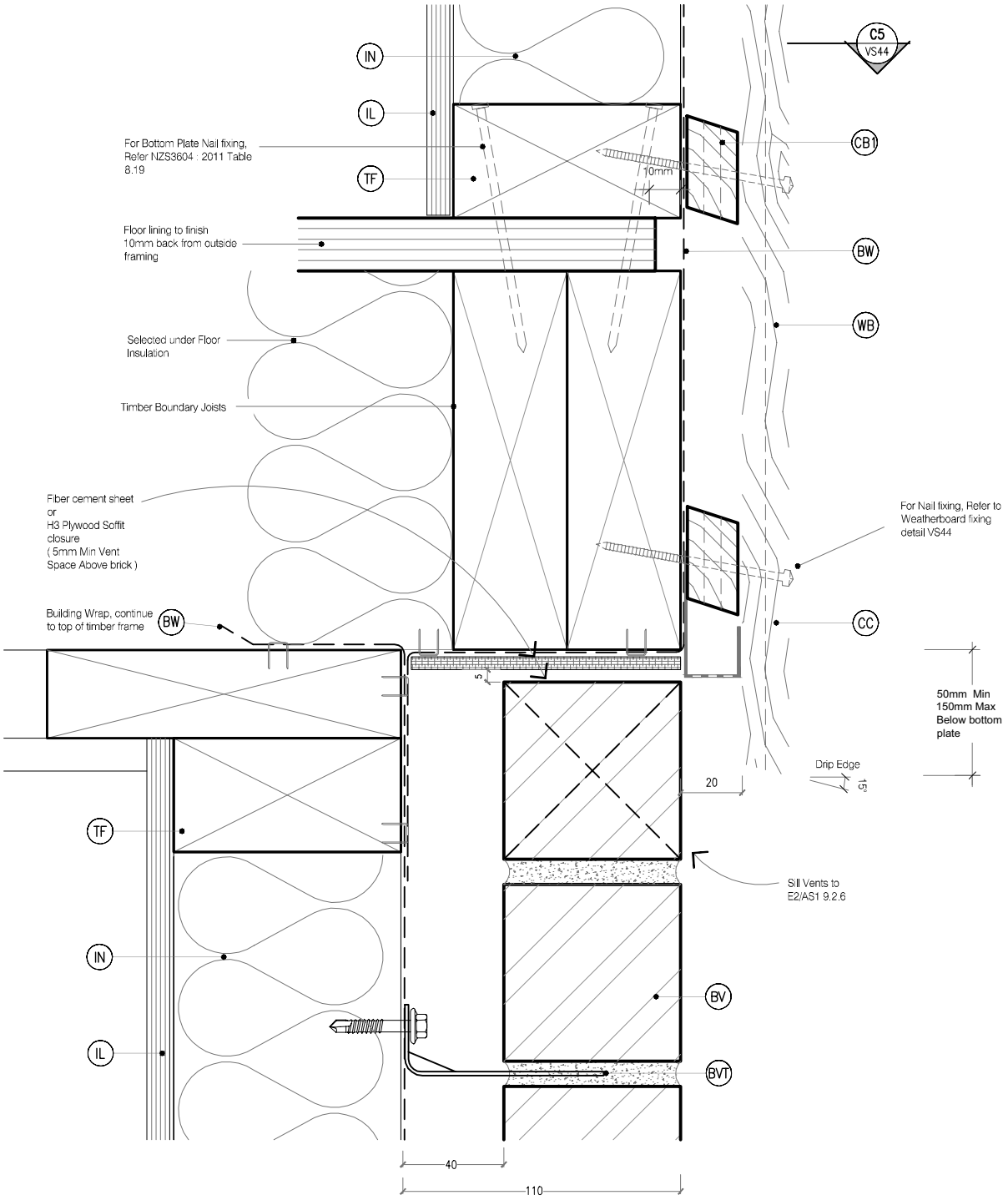


LEGEND:

- (SF) SILL FLASHING: Continuous flashing on 15° min slope with turn back ends at end of walls. Materials as per E2/AS1 4.0 Typically 0.45mm Min 316 Stainless Steel.
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (BV) BRICK VENEER: Selected brick veneer. Typically 70 series clay brick veneer on 40mm cavity
- (FT) FLASHING TAPE: As per E2/AS1 4.3.11
- (BVT) BRICK VENEER TIES: Stainless Steel brick Veneer ties screw fixed to framing - spacing NZS4210, ties to be within 300mm of internal or external corner
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SPP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CF) CORNER FLASHING: 316 Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3. 75x75 Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (FF) FLAT FLASHING: 316 Stainless Steel 100mm Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150mm Hem or Hook to Flashing Edges

DENDRO
BY SOUTHERN PINE

CANATALEVER FLOORBRICK TO WEATHERBOARD

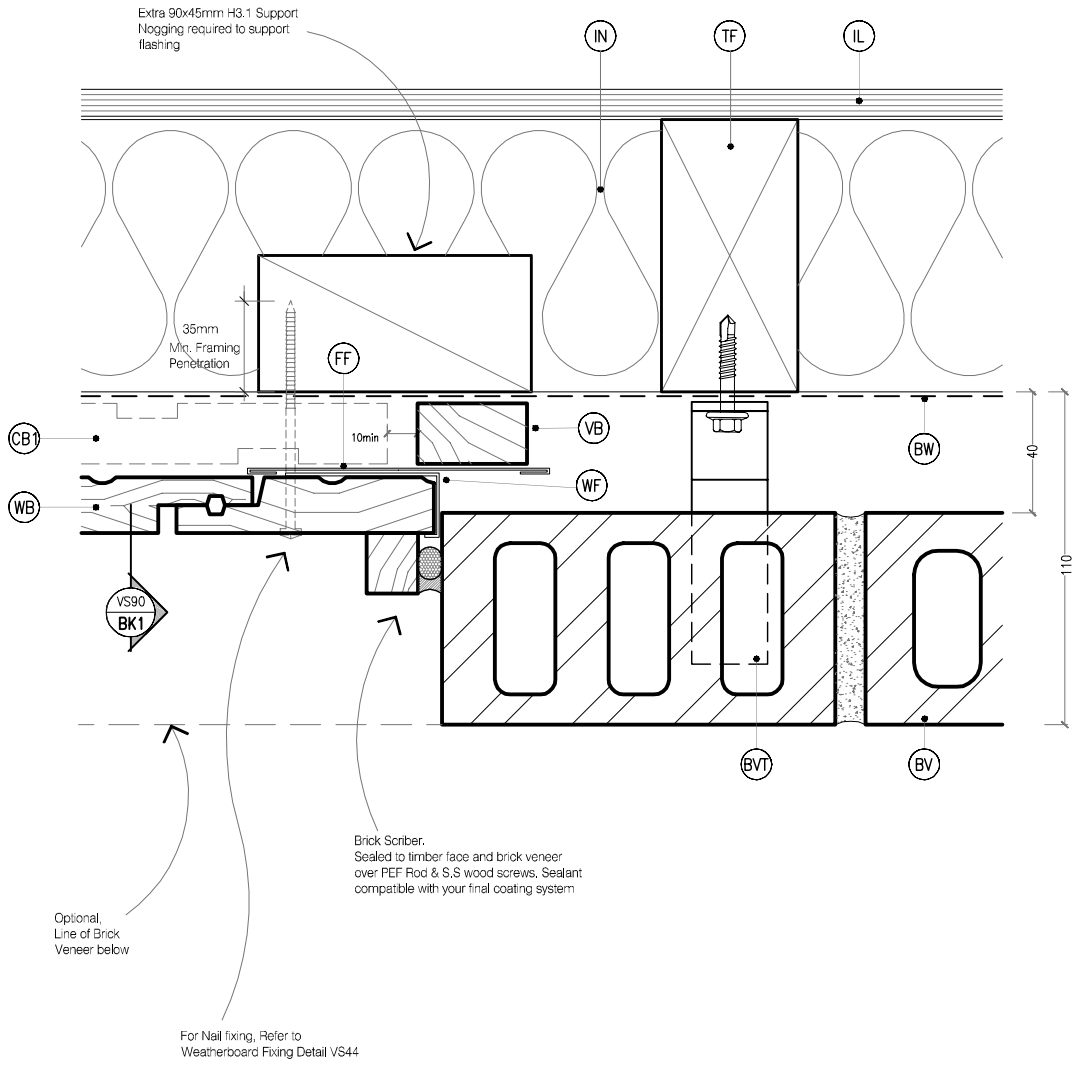


LEGEND:

- (SF) SILL FLASHING: Continuous flashing on 15° min slope with turn back ends at end of walls. Materials as per E2/AS1 4.0 Typically 0.45mm Min 316 Stainless Steel.
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (BV) BRICK VENEER: Selected brick veneer. Typically 70 series clay brick veneer on 40mm cavity
- (FT) FLASHING TAPE: As per E2/AS1 4.3.11
- (BVT) BRICK VENEER TIES: Stainless Steel brick Veneer ties screw fixed to framing - spacing NZS4210, ties to be within 300mm of internal or external corner
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SPP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CF) CORNER FLASHING: 316 Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3. 75x75 Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (FF) FLAT FLASHING: 316 Stainless Steel 100mm Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150mm Hem or Hook to Flashing Edges

DENDRO
BY SOUTHERN PINE

IN-LINE JUNCTION WEATHERBOARD TO BRICK

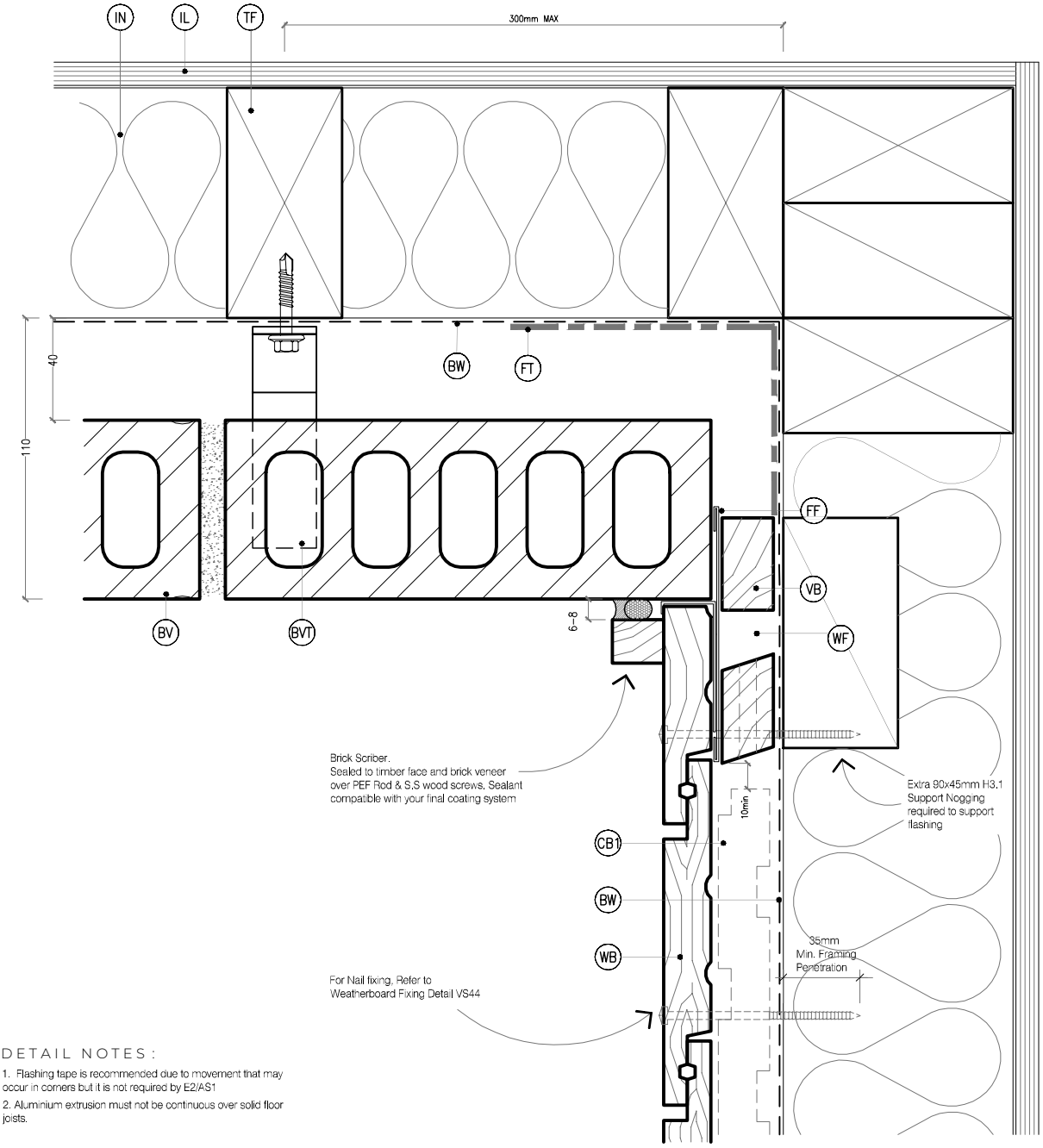


LEGEND:

- (SF) SILL FLASHING: Continuous flashing on 15° min slope with turn back ends at end of walls. Materials as per E2/AS1 4.0 Typically 0.45mm Min 316 Stainless Steel.
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (BV) BRICK VENEER: Selected brick veneer. Typically 70 series clay brick veneer on 40mm cavity
- (FT) FLASHING TAPE: As per E2/AS1 4.3.11
- (BVT) BRICK VENEER TIES: Stainless Steel brick Veneer ties screw fixed to framing - spacing NZS4210, ties to be within 300mm of internal or external corner
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SPP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CF) CORNER FLASHING: 316 Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3. 75x75 Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (FF) FLAT FLASHING: 316 Stainless Steel 100mm Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150mm Hem or Hook to Flashing Edges

DENDRO
BY SOUTHERN PINE

INTERNAL CORNER WEATHERBOARD TO BRICK



DETAIL NOTES :

1. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1
2. Aluminium extrusion must not be continuous over solid floor joists.

LEGEND:

- (SF) SILL FLASHING: Continuous flashing on 15° min slope with turn back ends at end of walls. Materials as per E2/AS1 4.0 Typically 0.45mm Min 316 Stainless Steel.
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- (BV) BRICK VENEER: Selected brick veneer. Typically 70 series clay brick veneer on 40mm cavity
- (FT) FLASHING TAPE: As per E2/AS1 4.3.11
- (BVT) BRICK VENEER TIES: Stainless Steel brick Veneer ties screw fixed to framing - spacing NZS4210, ties to be within 300mm of internal or external corner
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SPP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
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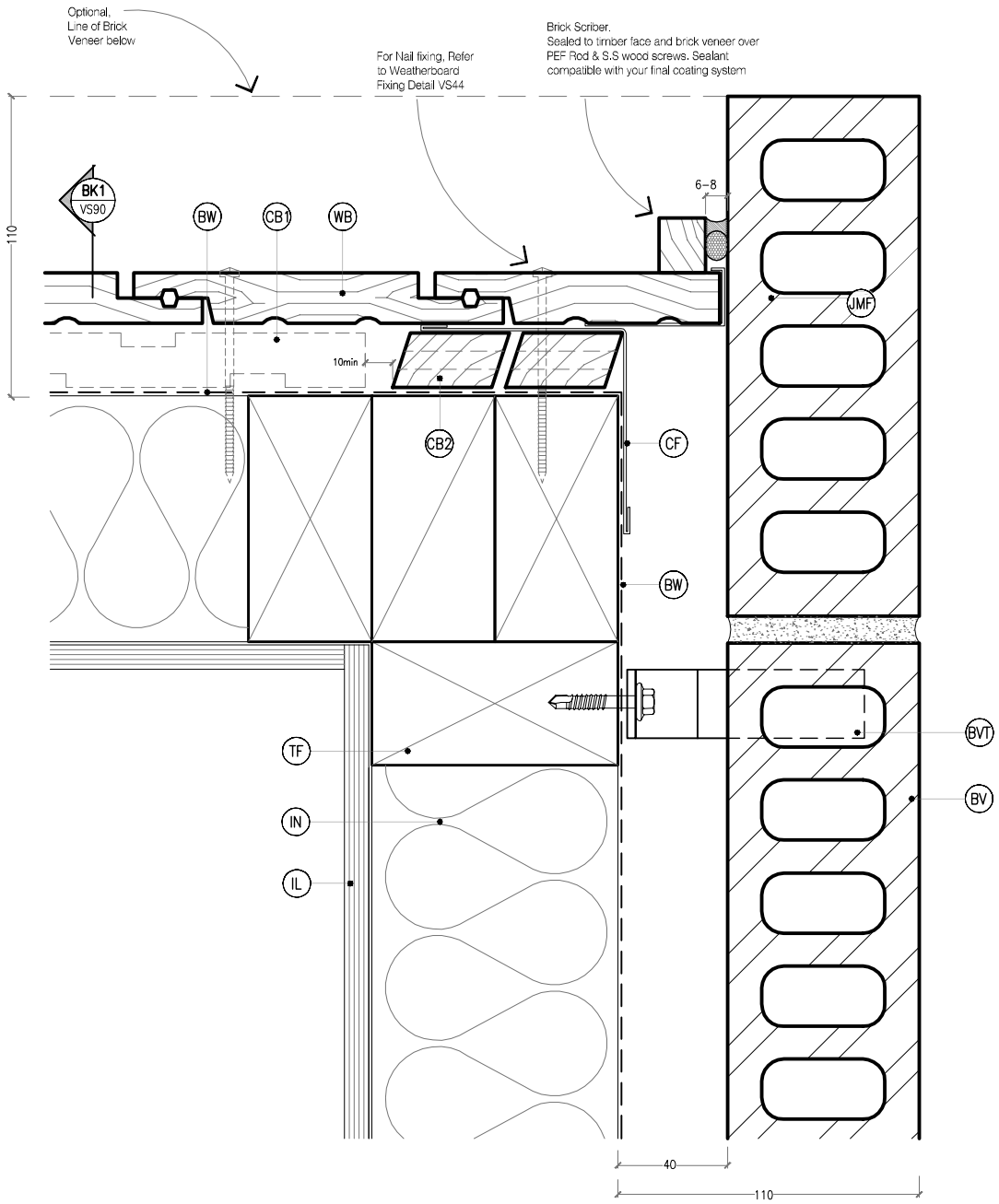
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (FF) FLAT FLASHING: 316 Stainless Steel 100mm Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150mm Hem or Hook to Flashing Edges

DENDRO
BY SOUTHERN PINE

EXTERIOR JUNCTION
WEATHERBOARD TO BRICK

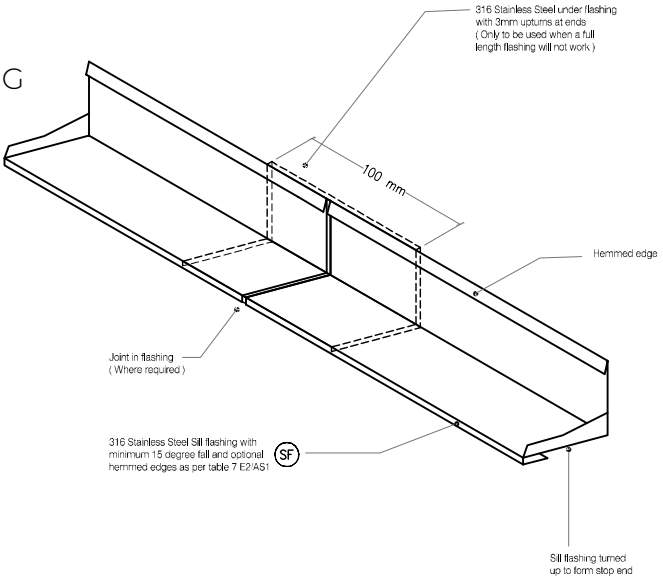


LEGEND:

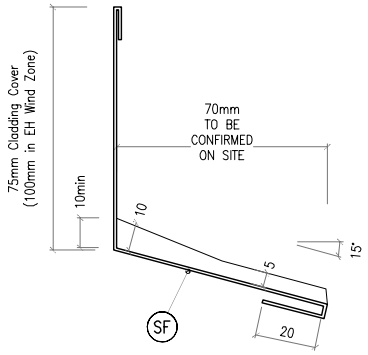
- (SF) SILL FLASHING: Continuous flashing on 15° min slope with turn back ends at end of walls. Materials as per E2/AS1 4.0 Typically 0.45mm Min 316 Stainless Steel.
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (BV) BRICK VENEER: Selected brick veneer. Typically 70 series clay brick veneer on 40mm cavity
- (FT) FLASHING TAPE: As per E2/AS1 4.3.11
- (BVT) BRICK VENEER TIES: Stainless Steel brick Veneer ties screw fixed to framing - spacing NZS4210, ties to be within 300mm of internal or external corner
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SPP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CF) CORNER FLASHING: 316 Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3. 75x75 Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (FF) FLAT FLASHING: 316 Stainless Steel 100mm Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150mm Hem or Hook to Flashing Edges

WINDOW SILL DETAIL

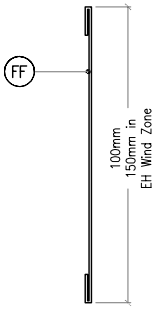
3D SILL FLASHING



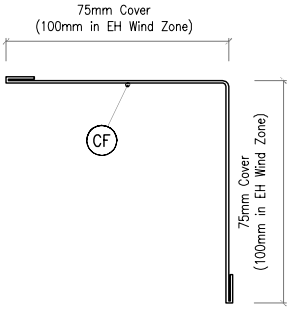
SILL FLASHING DIMENSIONS



INLINE & INTERNAL FLASHING DIMENSIONS



EXTERNAL FLASHING DIMENSIONS

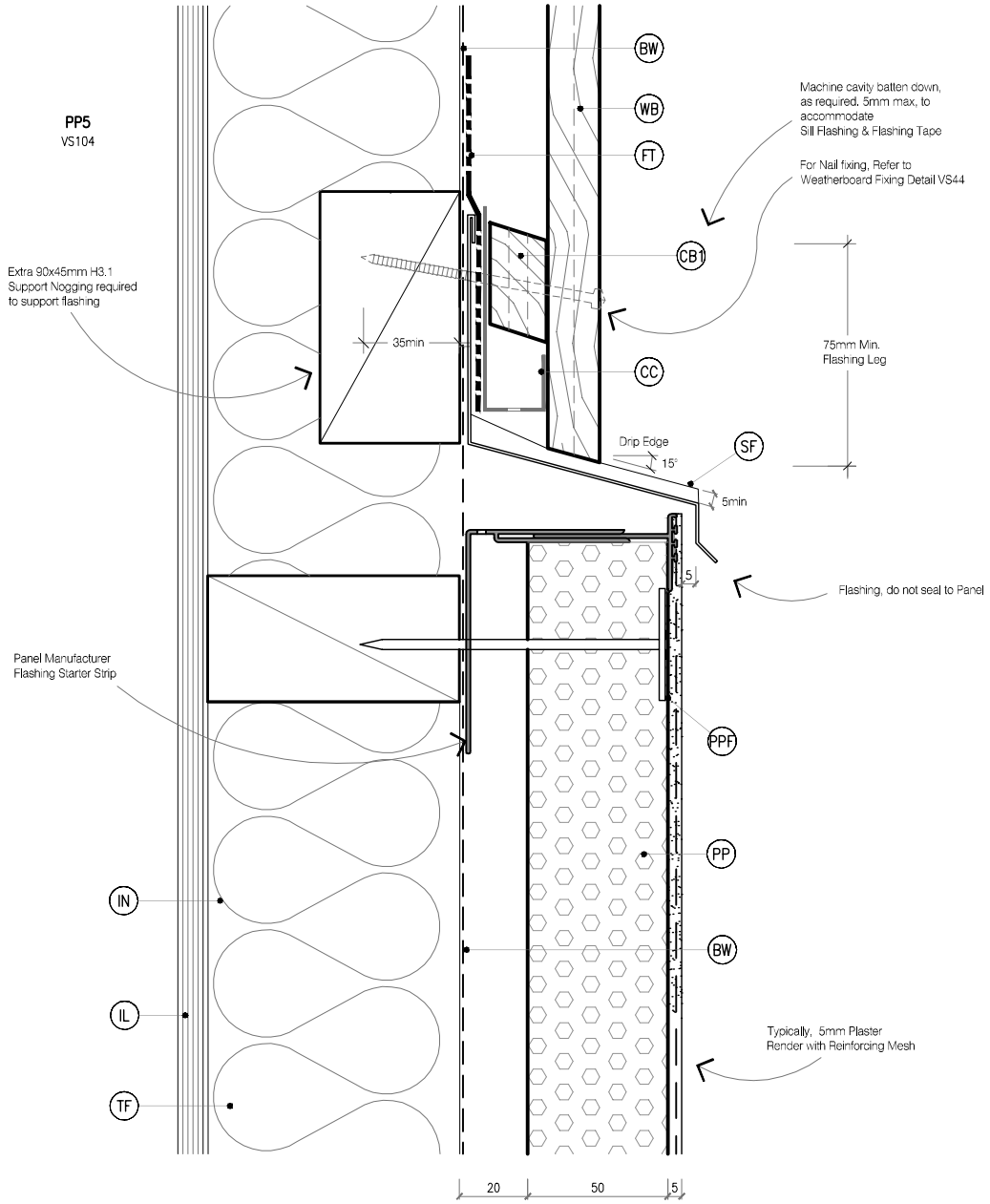


LEGEND:

- (SF) SILL FLASHING: Continuous flashing on 15° min slope with turn back ends at end of walls. Materials as per E2/AS1 4.0 Typically 0.45mm Min 316 Stainless Steel.
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (BV) BRICK VENEER: Selected brick veneer. Typically 70 series clay brick veneer on 40mm cavity
- (FT) FLASHING TAPE: As per E2/AS1 4.3.11
- (BVT) BRICK VENEER TIES: Stainless Steel brick Veneer ties screw fixed to framing - spacing NZS4210, ties to be within 300mm of internal or external corner
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SPP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or castellated H3.2
- (CB3) CAVITY BATTEN, HORIZONTAL - STRUCTURALLY FIXED : 45mm x 45mm SP Radiata Pine, H3.2 70mm x 45mm SP Radiata Pine, H3.2 Castellated with a 18 degree bevelled slope. To form a 45mm cavity
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CF) CORNER FLASHING: 316 Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3. 75x75 Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (FF) FLAT FLASHING: 316 Stainless Steel 100mm Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150mm Hem or Hook to Flashing Edges

DENDRO
BY SOUTHERN PINE

HALF WALL SILL PLASTER PANEL TO WEATHERBOARD

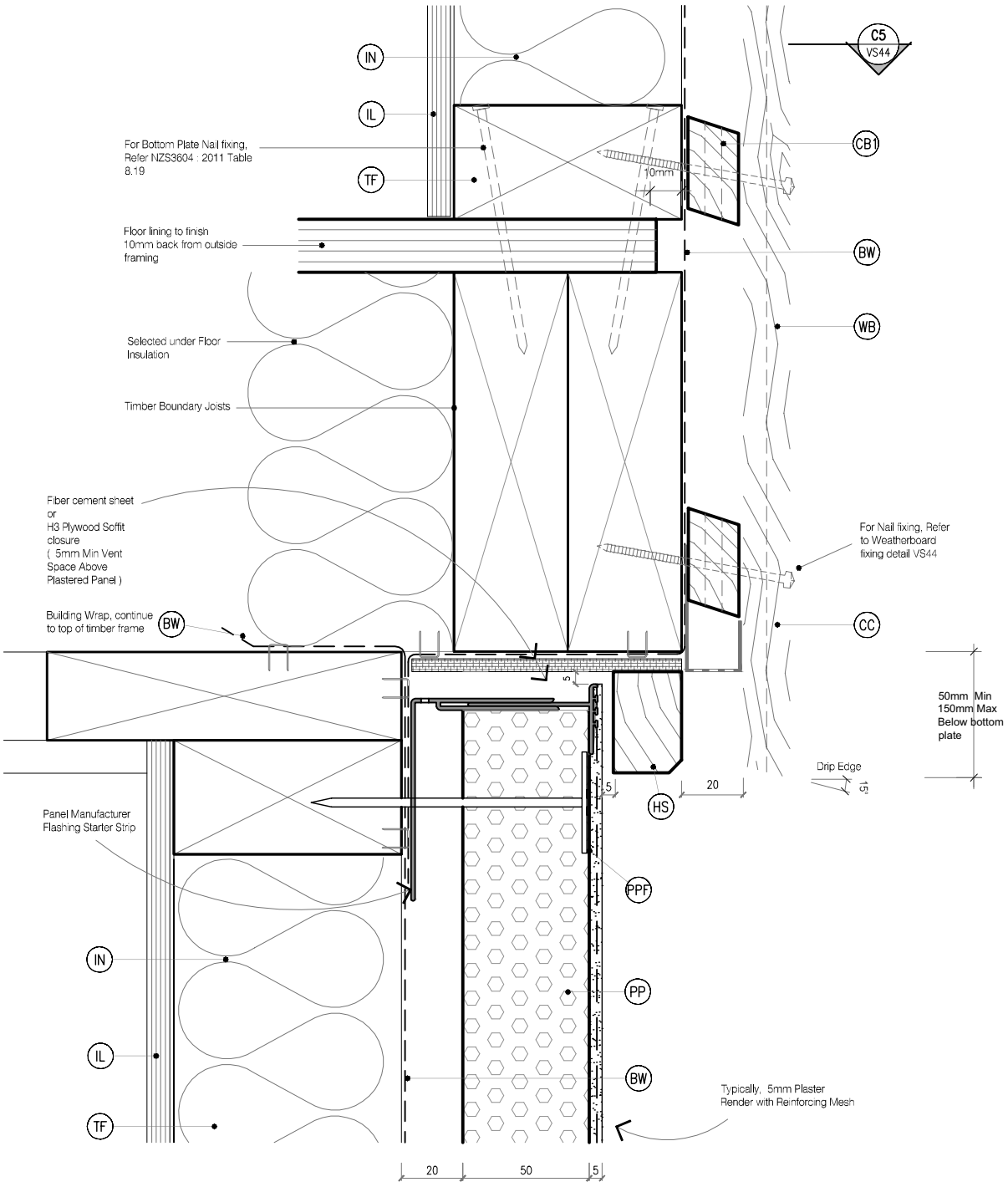


LEGEND:

- SF — SILL FLASHING: Continuous flashing on 15° min slope with turn back ends at end of walls. Materials as per E2/AS1 4.0 Typically 0.45mm Min 316 Stainless Steel.
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- PP — PLASTER PANEL: Selected Insulated Facade Panel System. Typically 50mm Thick, fixed to 20mm vertical cavity batten
- FT — FLASHING TAPE: As per E2/AS1 4.3.11
- PPF — PLASTER PANEL FIXING: Specific designed panel fixing system. Install to manufactures instructions
- CB1 — CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- CB2 — CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or Castellated H3.2
- HS — HEAD SOFFIT SCRIBER: Southern Pine Eaves Mould EM40 x 27. Fix with 75 x 3.15mm 316 S.S nail in 2.5mm predrilled hole
- CC — CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- WB — WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- ECF — EXTERNAL CORNER FLASHING: 316 S.S Corner flashing. Refer NZBC E2/AS1 4.3. 125x75 Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150x100 Hem or Hook to Flashing Edges
- ICF — INTERNAL CORNER FLASHING: As per External Corner Flashing Hem & Hook flipped.
- IL — INTERNAL LINING: Selected Internal Lining
- IN — INSULATION: Selected Insulation
- FF — FLAT FLASHING: 316 Stainless Steel 100mm Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150mm Hem or Hook to Flashing Edges
- TF — TIMBER FRAME: H1.2 min treated timber framing

DENDRO
BY SOUTHERN PINE

CANTILEVER FLOOR PLASTER PANEL TO WETHERBOARD

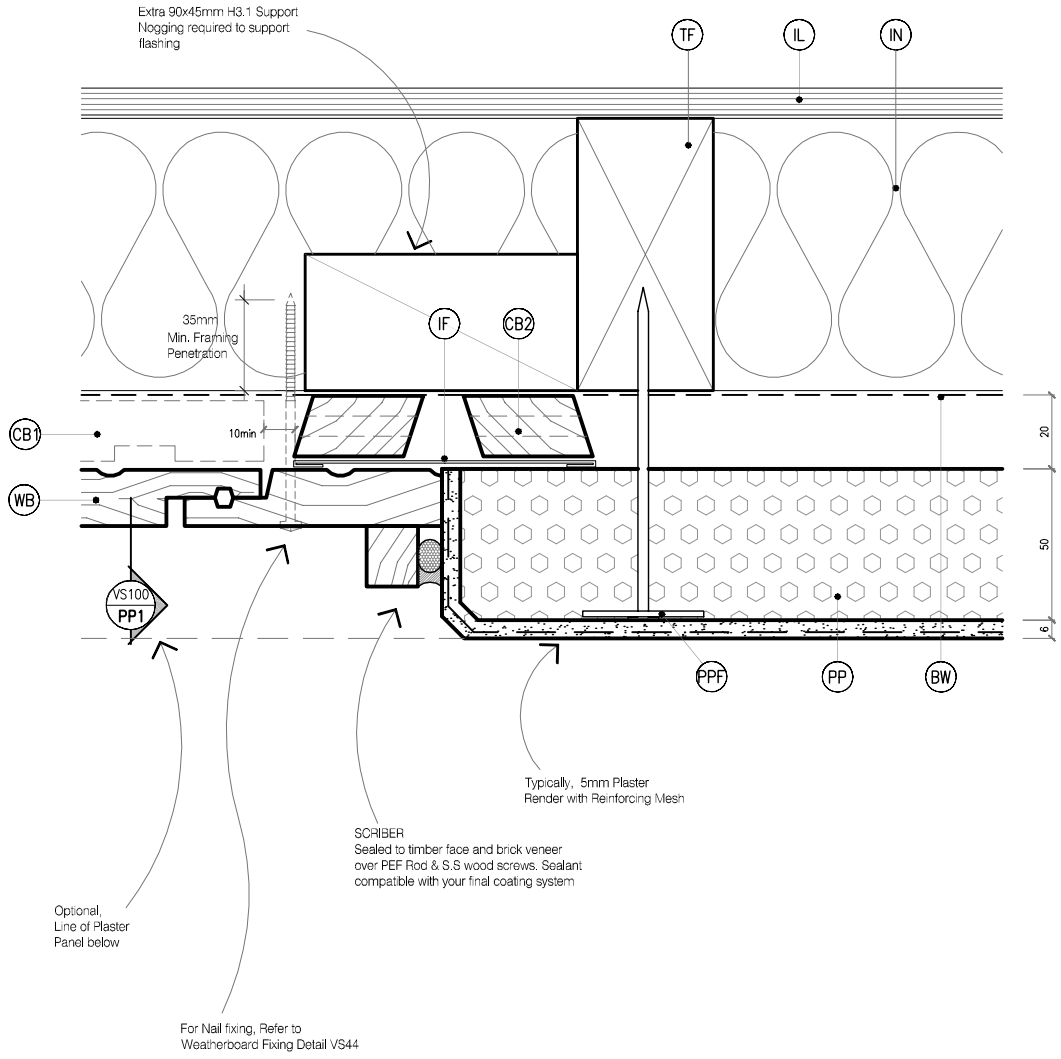


LEGEND:

- (SF) SILL FLASHING: Continuous flashing on 15° min slope with turn back ends at end of walls. Materials as per E2/AS1 4.0 Typically 0.45mm Min 316 Stainless Steel.
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (PP) PLASTER PANEL: Selected Insulated Facade Panel System. Typically 50mm Thick, fixed to 20mm vertical cavity batten
- (FT) FLASHING TAPE: As per E2/AS1 4.3.11
- (PPF) PLASTER PANEL FIXING: Specific designed panel fixing system. Install to manufactures instructions
- (CB1) CAVITY BATTEN, HORIZONTAL - NON STRUCTURAL : 20mm x 45mm SP Radiata Pine H3.2, Castellated with a 18 degree bevelled slope. To form a 20mm cavity
- (CB2) CAVITY BATTEN, VERTICAL: 20mm x 45mm. To form a 20mm cavity. Standard H3.1 or Castellated H3.2
- (HS) HEAD SOFFIT SCRIBER: Southern Pine Eaves Mould EM40 x 27. Fix with 75 x 3.15mm 316 S.S nail in 2.5mm predrilled hole
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (WB) WEATHER BOARD: Southern Pine Vertical Shiplap Weatherboard. Profile to NZS 3617
- (ECF) EXTERNAL CORNER FLASHING: 316 S.S Corner flashing. Refer NZBC E2/AS1 4.3. 125x75 Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150x100 Hem or Hook to Flashing Edges
- (ICF) INTERNAL CORNER FLASHING: As per External Corner Flashing Hem & Hook flipped.
- (IL) INTERNAL LINING: Selected Internal Lining
- (IN) INSULATION: Selected Insulation
- (FF) FLAT FLASHING: 316 Stainless Steel 100mm Hem or Hook to Flashing Edges. EXTRA HIGH WIND ZONE 150mm Hem or Hook to Flashing Edges
- (TF) TIMBER FRAME: H1.2 min treated timber framing

DENDRO
BY SOUTHERN PINE

IN-LINE JUNCTION PLASTER PANEL TO WEATHERBOARD



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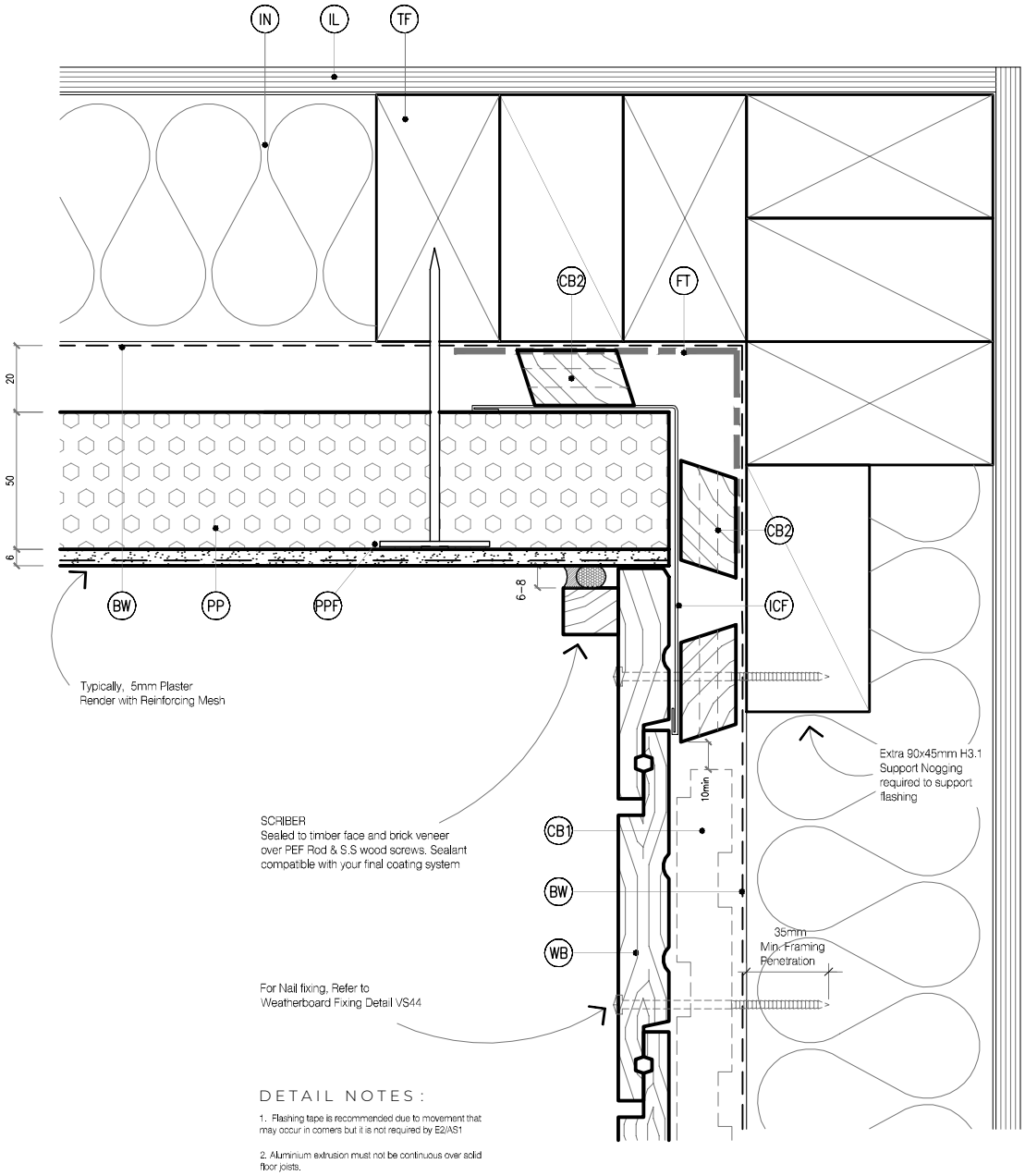
DENDRO
BY SOUTHERN PINE

INTERNAL CORNER PLASTER PANEL TO WEATHERBOARD



DETAIL NOTES :

1. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1

2. Aluminium extrusion must not be continuous over solid floor joists.

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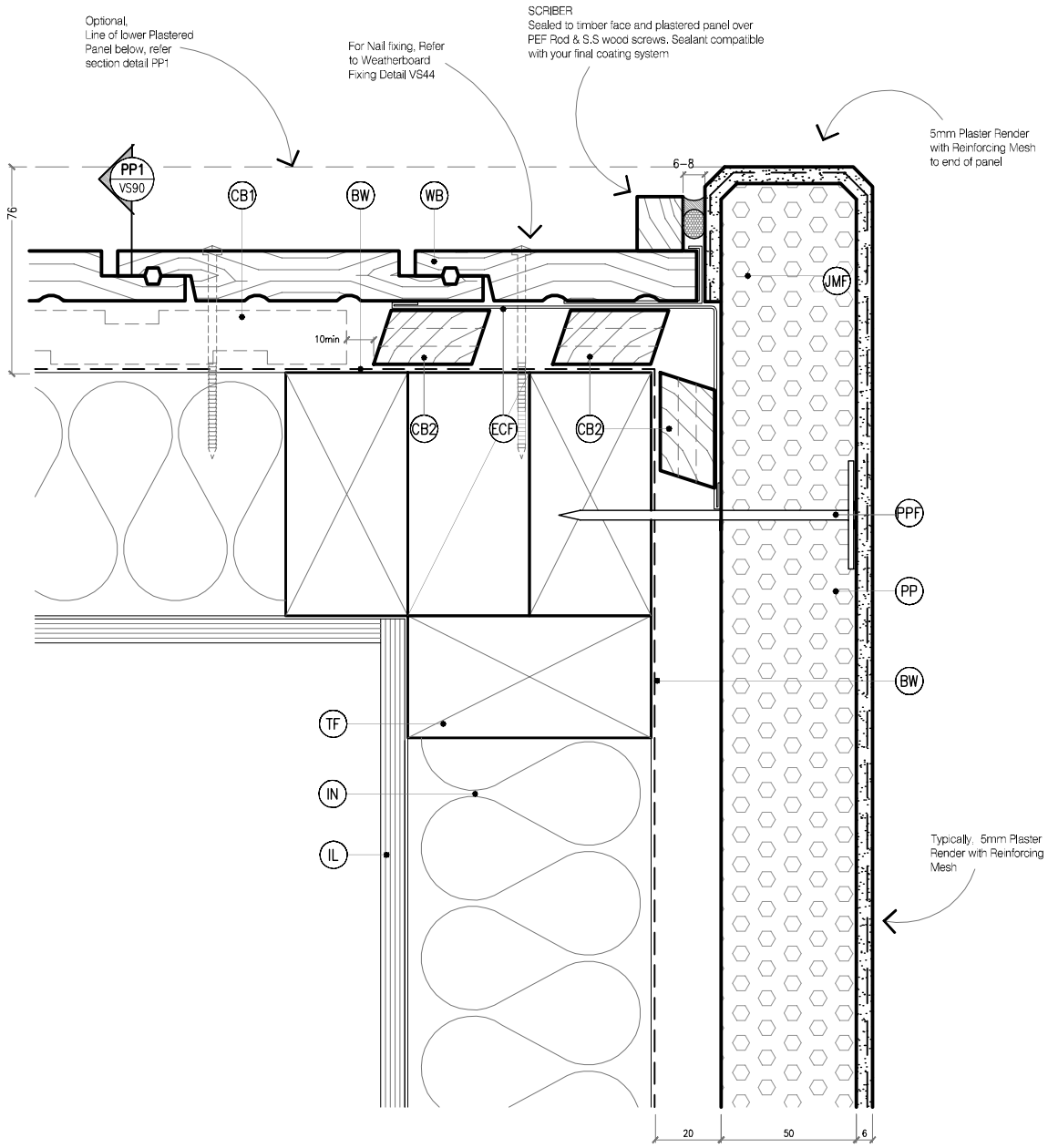
EXTERIOR JUNCTION PLASTER PANEL TO WEATHERBOARD



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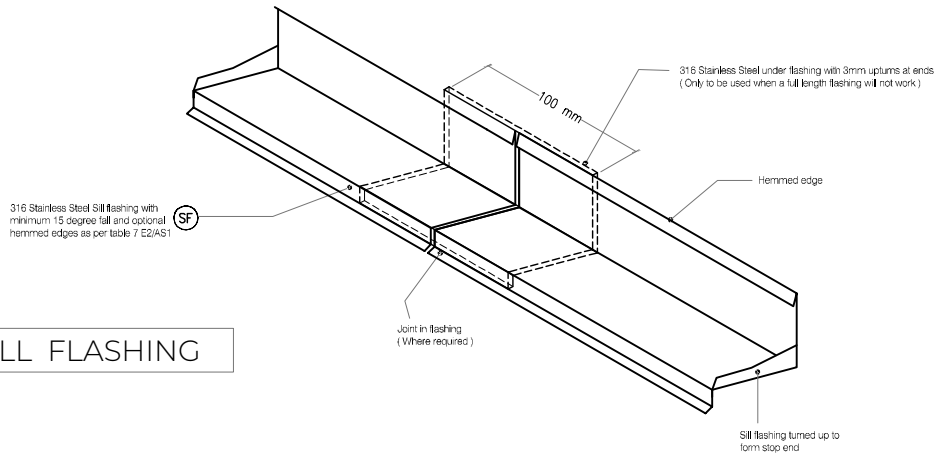
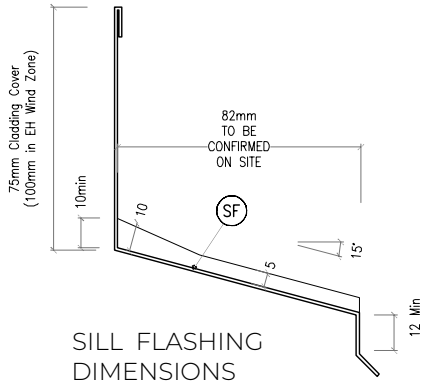
DENDRO
BY SOUTHERN PINE

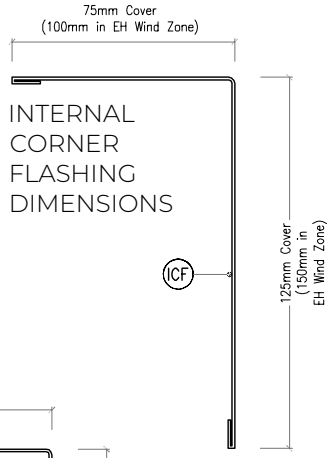
FLASHINGS PLASTER PANEL TO WEATHERBOARD



3D SILL FLASHING

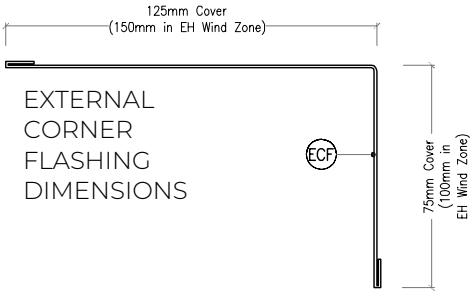


SILL FLASHING DIMENSIONS



INTERNAL CORNER FLASHING DIMENSIONS

INLINE FLASHING DIMENSIONS



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