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### Details for -Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay

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#### Notes;

Standards refered to in these Details;

- E2/AS1 External Moisture (Amendment 9 June 2019)
- NZS3604:2011 Timber-framed Buildings

All Details have been 'exploded' for clarity

Aluminium Joinery profiles used in these details are from "Nulook", change these profiles for the profiles of the Joinery company you are using



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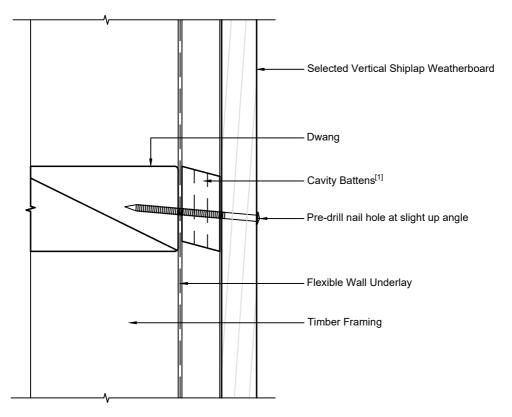
Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Index 1:1 @ A4

2022/03/11

Drawing No. 1-4-001

## Note: 1/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails 2/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 Cavity Battens<sup>[1]</sup> dimensions for Direct Fixed Stud Selected Vertical Shiplap Weatherboard (HTL51 shown) Pre drill board at slight up angle for 70mm x 3.2mm min RH annular grooved nails $^{[2]}$ , nailed flush (Oil Finish) or 75mm x 3.15mm min JH nails<sup>[2]</sup>, punched (paint into dwangs/nogs at 480mm crs max 40mm from edge of board **Timber Framing**

#### Horizontal cross section



Vertical cross section



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**Vertical Shiplap Weatherboards** 20mm Cavity Batten - Flexible Underlay **Nail Fixing detail** 

1:2 @ A4

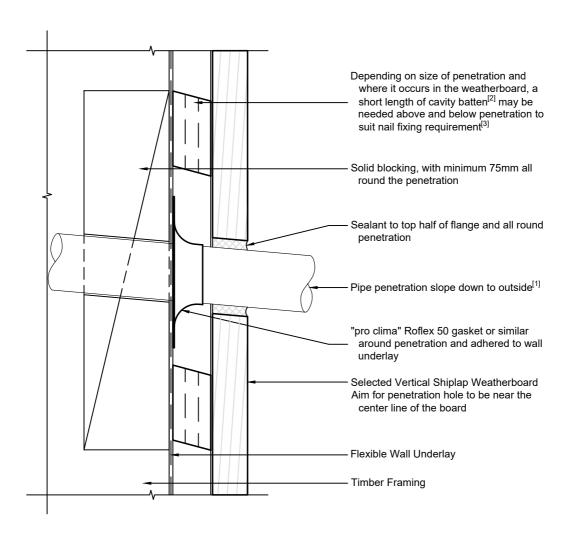
Drawing No.

2022/03/11

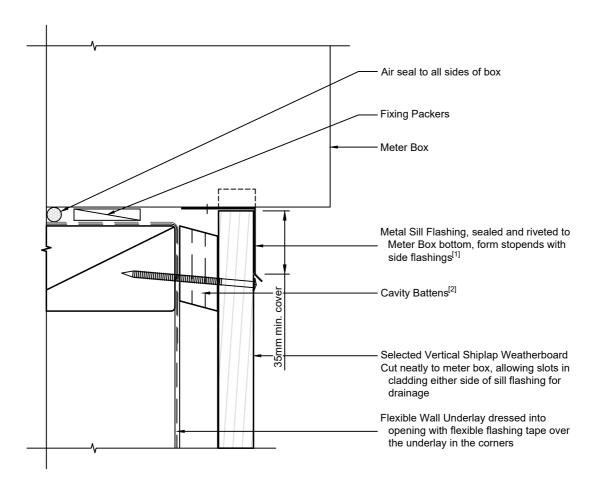
# Note: 1/ Penetration to comply with

E2/AS1 para. 9.1.9.3 & Fig. 68
2/ Cavity Battens are Horizontal
Castellated timber battens
(HTLBH20) and plain vertical
battens (HTLBV20), temporarily
fixed with cladding nails
3/ Cladding Fixings are not currently
covered by E2/AS1. Approx 20mm
has been added to the E2/AS1

dimensions for Direct Fixed



- 1/ To comply with E2/AS1 para. 9.1.9.3
- 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 3/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed





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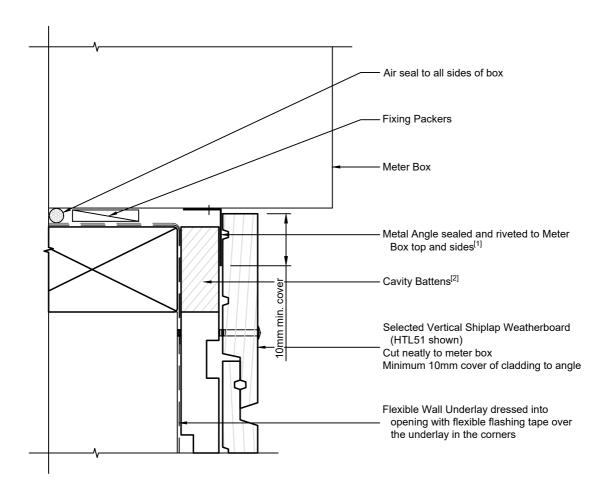
**Vertical Shiplap Weatherboards** 20mm Cavity Batten - Flexible Underlay Meter Box - Bottom detail

1:2 @ A4

Drawing No.

2022/03/11

- 1/ To comply with E2/AS1 para. 9.1.9.3
- 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 3/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed



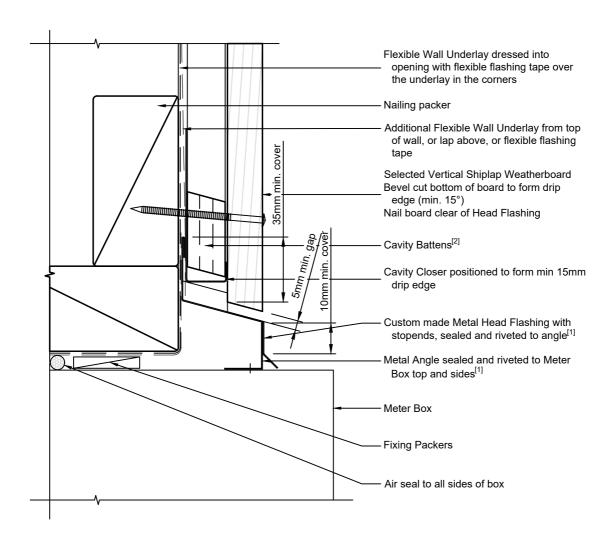


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Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Meter Box - Side detail 1:2 @ A4

Drawing No. 1-4-152

- 1/ To comply with E2/AS1 para. 9.1.9.3 & Fig. 69
- 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 3/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed





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Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Meter Box - Head detail 1:2 @ A4

Drawing No. 1-4-153

# Note: 1/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails 2/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed Cavity Battens[1] 3/ Refer E2/AS1 para. 9.1.3.5(a) **Timber Framing Bottom Plate** Pre-drill board at slight up angle for 70mm x 3.2mm min RH annular grooved nails<sup>[2]</sup>, nailed flush (Oil Finish) or 75mm x 3.15mm min JH nails[2], punched (paint finish) DPC Flooring Flexible Wall Underlay Selected Vertical Shiplap Weatherboard - Timber Subfloor Framing Fixing nail Cavity Closer to suit 20 Bottom end of boards to be cut 50mm below floor structure<sup>[3]</sup> Bevel cut bottom of board to form drip edge (min. 15°)



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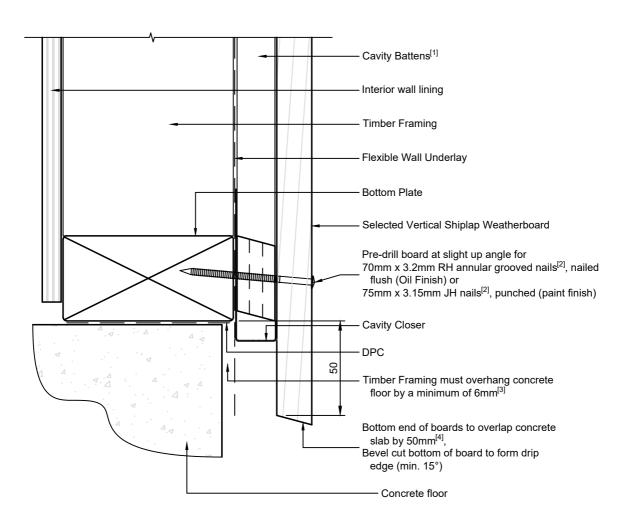
**Vertical Shiplap Weatherboards** 20mm Cavity Batten - Flexible Underlay **Bottom of Wall detail Timber Floor** 

1:2 @ A4

Drawing No.

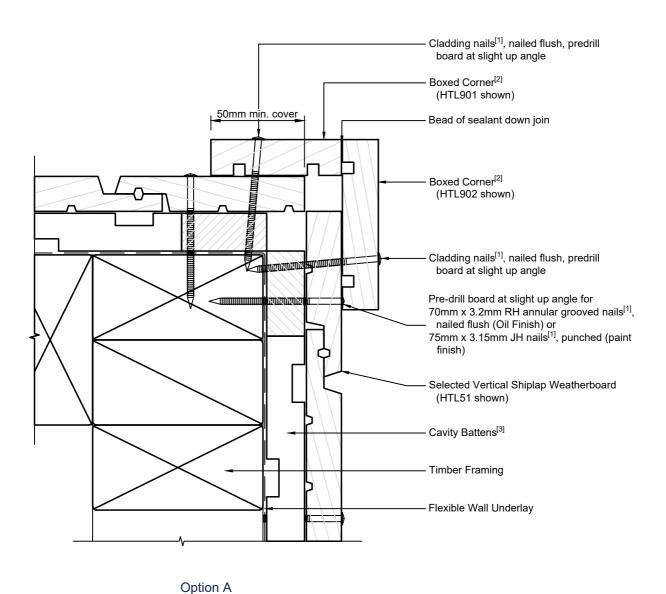
2022/03/11

- 1/ Cavity Battens are Horizontal
  Castellated timber battens
  (HTLBH20) and plain vertical
  battens (HTLBV20), temporarily
  fixed with cladding nails
  2/ Cladding Fixings are not currently
- 2/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed
- 3/ Refer E2/AS1 para. 9.1.3.3(c)
- 4/ Refer E2/AS1 para. 9.1.3.3(b)



1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ The minimum cover of Boxed Corner boards to comply with E2/AS1 para. 9.4.5.3(a) & Fig. 80 3/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily

fixed with cladding nails



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Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay **External Corner detail Option A - Boxed Corner** 

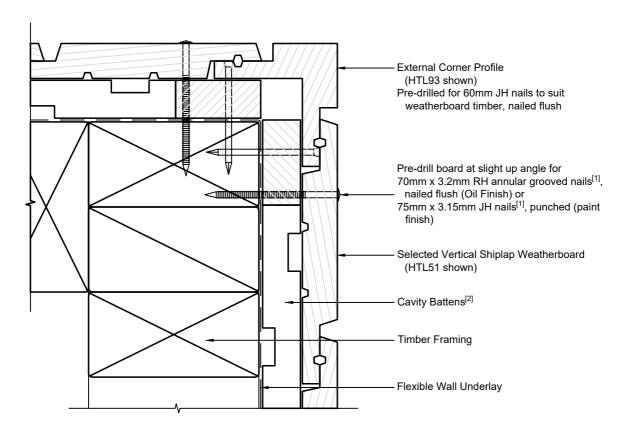
1:2 @ A4

Drawing No.

2022/03/11

Note:

1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails



Option B



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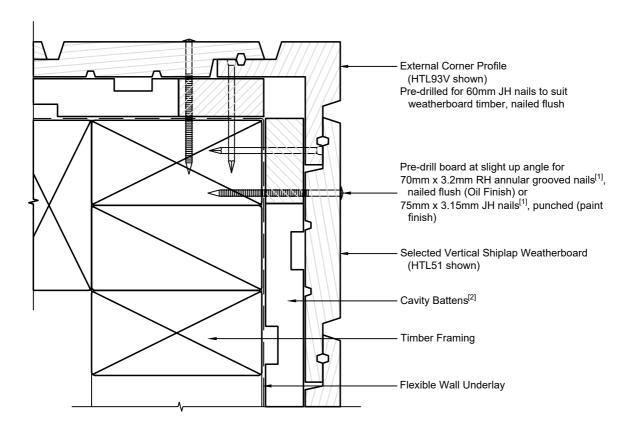
Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay **External Corner detail** Option B - Sq Corner Mould

1:2 @ A4

Drawing No. 1-4-302

Note:

1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails



Option C



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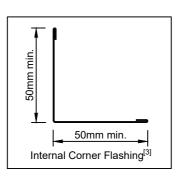
Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay **External Corner detail** Option C - V Corner Mould

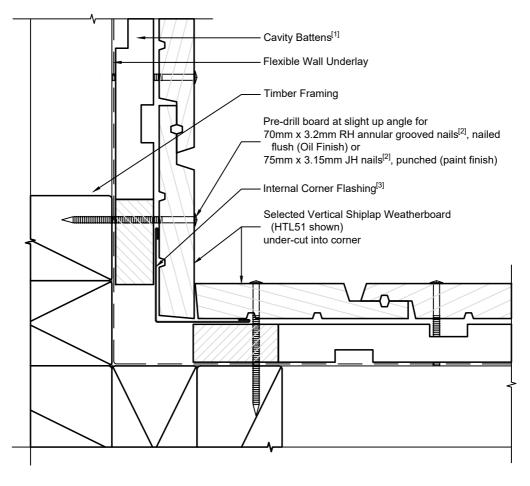
1:2 @ A4

Drawing No.

2022/03/11

- 1/ Cavity Battens are Horizontal
  Castellated timber battens
  (HTLBH20) and plain vertical
  battens (HTLBV20), temporarily
  fixed with cladding nails
- 2/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed
- 3/ Corner Flashing dimensions to comply with E2/AS1 para. 9.4.5.3(b) & Fig. 79(c) & Table 7







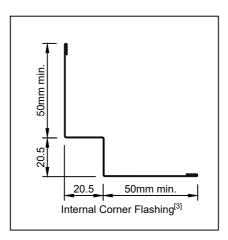
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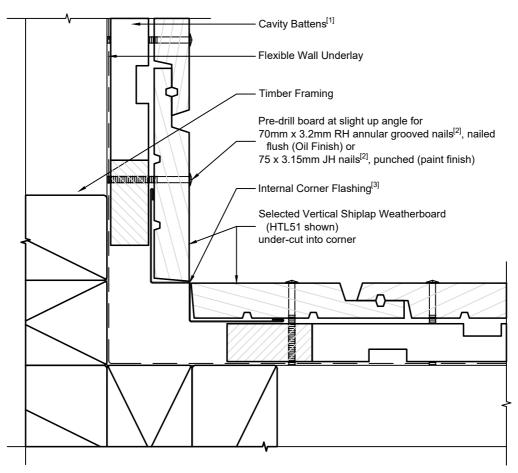
1:2 @ A4

Drawing No.

2022/03/11

- Note:
  1/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 2/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed
- 3/ Corner Flashing dimensions to comply with E2/AS1 para. 9.4.5.3(b) & Fig. 79(d) & Table 7





Option B



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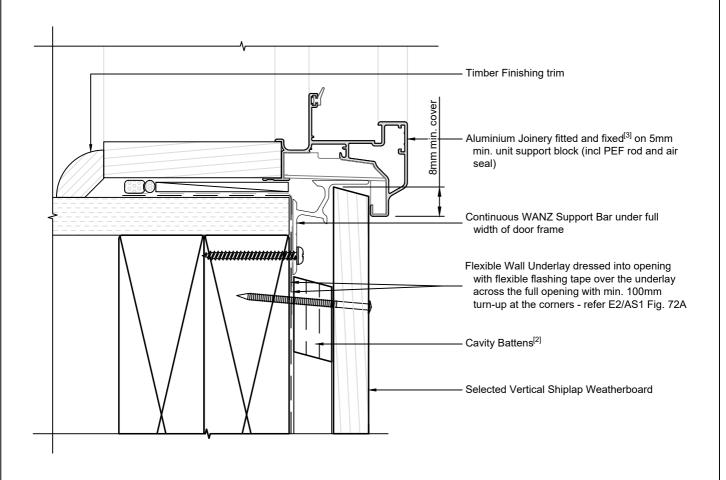
Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay **Internal Corner detail Option B** 

1:2 @ A4

Drawing No.

2022/03/11

- 1/ To comply similar to E2/AS1, Fig. 83
- 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 3/ Joinery Fixing to comply with E2/AS1 para. 9.1.10.8 - pairs of 75mm x 3.15mm galv. JH nails or 8g x 65mm s/s screws, through reveals into framing at max 150mm from corners and at 450mm centres along sill
- 4/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed



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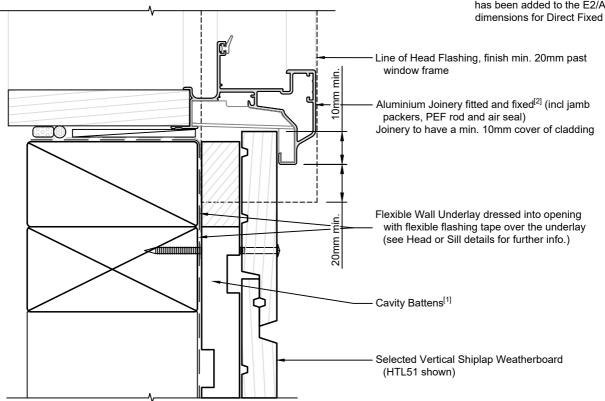
Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Door Sill detail 1:2 @ A4

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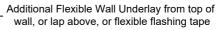
2022/03/11

Drawing No. 1-4-501

- 1/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 2/ Joinery Fixing to comply with E2/AS1 para. 9.1.10.8 pairs of 75mm x 3.15mm galv. JH nails or 8g x 65mm s/s screws, through reveals into framing at max 150mm from corners and at 450mm centres along jamb
- 3/ To comply similar to E2/AS1 Fig. 83. Alternatively EITHER 1) If recess in boards occurs at window, fit closure piece OR 2) Depending on board layout, scribers or facing boards may be appropriate
- 4/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed



- 1/ To comply similar to E2/AS1, Fig. 83
- 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 3/ Joinery Fixing to comply with E2/AS1 para. 9.1.10.8 pairs of 75mm x 3.15mm galv. JH nails or 8g x 65mm s/s screws, through reveals into framing at max 150mm from corners and at 450mm centres along head
- 4/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed



Selected Vertical Shiplap Weatherboard Bevel cut bottom of board to form drip edge (min. 15°) Nail board above Head Flashing

- Cavity Battens<sup>[2]</sup>

Cavity Closer positioned to form min. 15mm drip edge

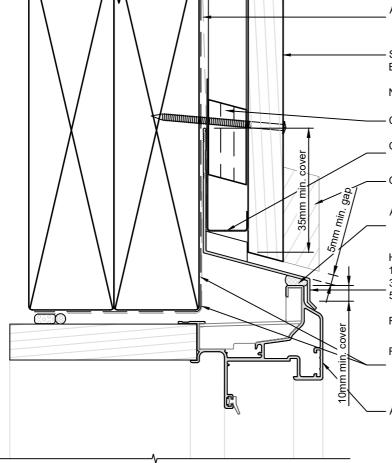
Optional Head Facing

Apply bead of sealant between Joinery head and Head Flashing for **Very High** Wind Zones and **Above** - refer E2/AS1 Fig. 71

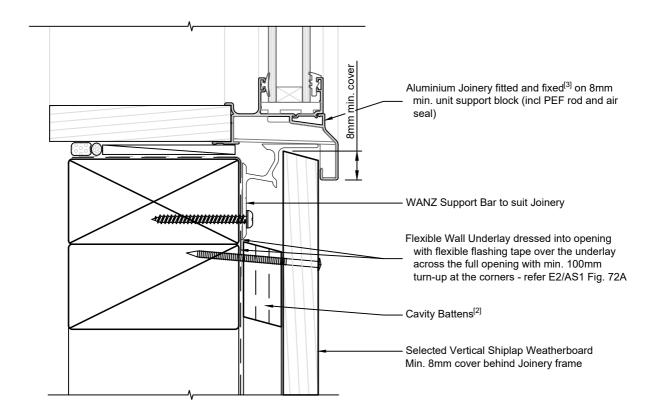
Head Flashing with 15° fall, 10mm cover to Joinery frame, 35mm min. cover behind cladding, 50 long sealant beads each end of flashing - refer E2/AS1 Fig. 71 Form stopends

Flexible Wall Underlay dressed into opening with flexible flashing tape over the underlay in the corners

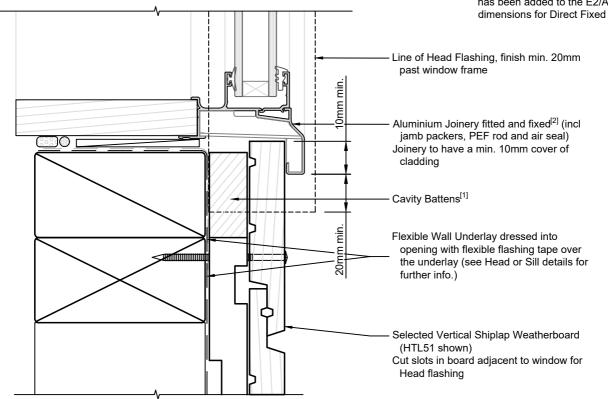
Aluminium Joinery fitted and fixed<sup>[3]</sup> (incl PEF rod and air seal), (temporary packers may be used while fixing and then removed after fixing)



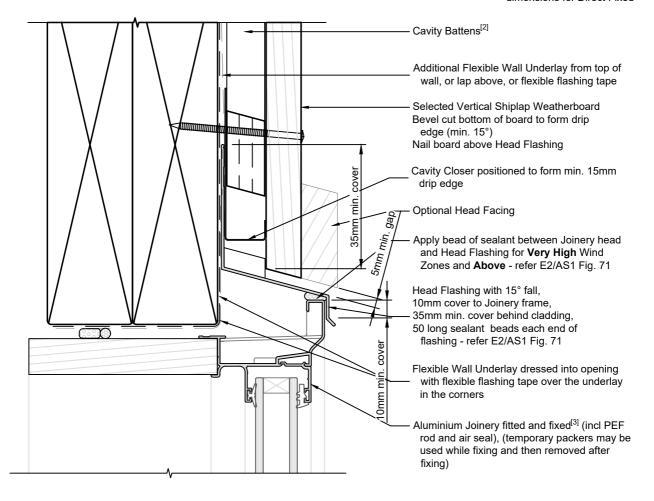
- 1/ To comply similar to E2/AS1, Fig. 83
- 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 3/ Joinery Fixing to comply with E2/AS1 para. 9.1.10.8 - pairs of 75mm x 3.15mm galv. JH nails or 8g x 65mm s/s screws, through reveals into framing at max 150mm from corners and at 450mm centres along sill
- 4/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed



- 1/ Cavity Battens are Horizontal
  Castellated timber battens
  (HTLBH20) and plain vertical
  battens (HTLBV20), temporarily
  fixed with cladding nails
- 2/ Joinery Fixing to comply with E2/AS1 para. 9.1.10.8 - pairs of 75mm x 3.15mm galv. JH nails or 8g x 65mm s/s screws, through reveals into framing at max 150mm from corners and at 450mm centres along jamb
- 3/ To comply similar to E2/AS1
  Fig.83. Alternatively EITHER 1) If
  recess in boards occurs at
  window, fit closure piece OR 2)
  Depending on board layout,
  scribers or facing boards may be
  appropriate
- 4/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed



- 1/ To comply similar to E2/AS1, Fig. 83
- 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 3/ Joinery Fixing to comply with E2/AS1 para. 9.1.10.8 pairs of 75mm x 3.15mm galv. JH nails or 8g x 65mm s/s screws, through reveals into framing at max 150mm from corners and at 450mm centres along head
- 4/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed





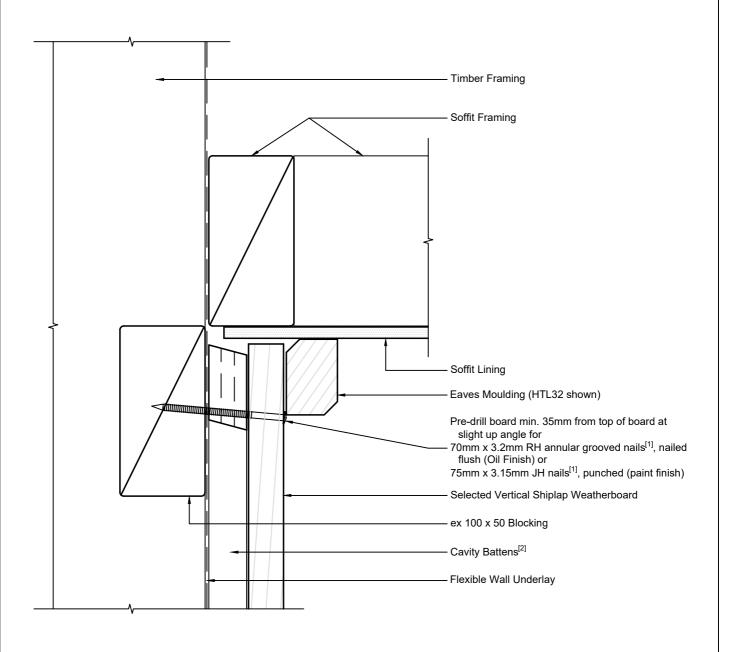
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Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Window Head detail 1:2 @ A4

2022/03/11

Drawing No. 1-4-603

1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails



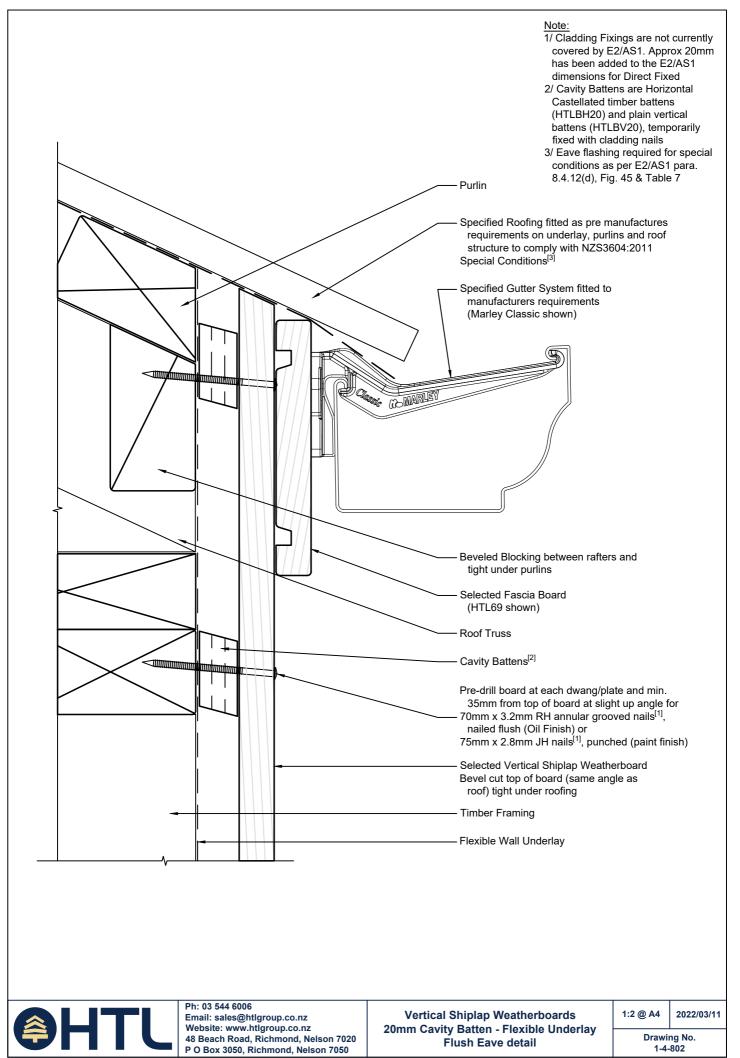


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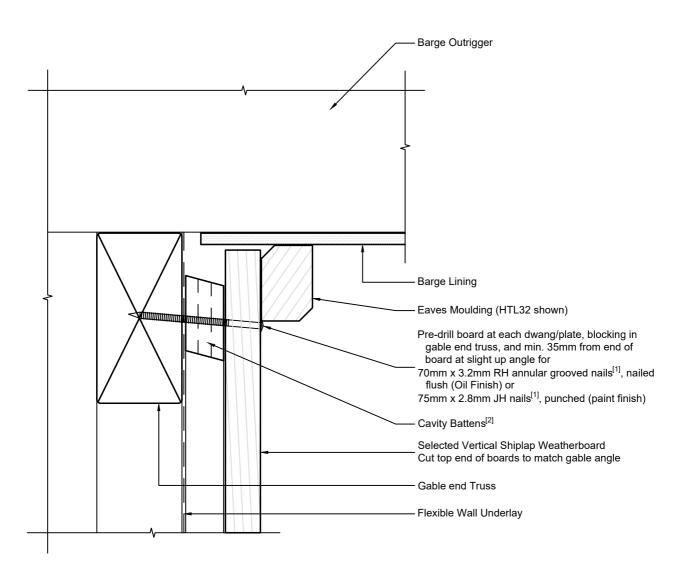
Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Eaves Soffit detail 1:2 @ A4

Drawing No.

2022/03/11



1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails





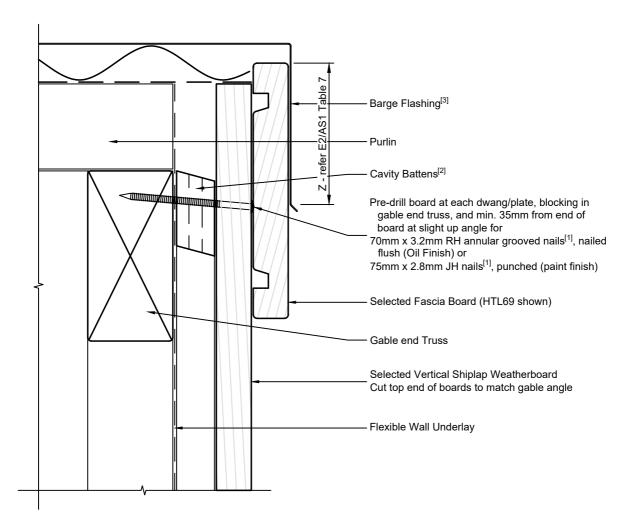
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Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Barge Soffit detail 1:2 @ A4

Drawing No.

2022/03/11

- 1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed
- 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 3/ Barge Flashing to comply with E2/AS1 para. 8.4.12(f), Fig. 47 & Table 7



# Note: 1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails 3/ Apron Flashing to comply with E2/AS1 para. 4.6.1.1, Fig. 7 & Table 7 Cavity Battens<sup>[2]</sup> Flexible Wall Underlay lapped over Apron flashing Solid blocking Selected Vertical Shiplap Weatherboard Bevel cut bottom of board to form drip edge (min. 15°) Nail board above Apron flashing upstand 75mm min. Cavity Closer positioned to form min. 15mm drip edge Apron Flashing<sup>[3]</sup> Secure flashing through hem at top of flashing Roofing underlay carried up face of framing behind Apron flashing upstand Specified roofing on roof framing as per NZS 3604:2011 Purlin Truss top chord or rafter Ph: 03 544 6006 Vertical Shiplap Weatherboards 1:2 @ A4 2022/03/11 Email: sales@htlgroup.co.nz 20mm Cavity Batten - Flexible Underlay Website: www.htlgroup.co.nz Wall to Roof detail 48 Beach Road, Richmond, Nelson 7020 Drawing No.

1-4-901

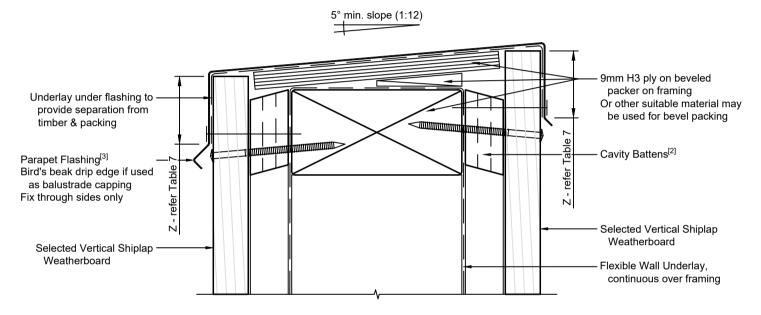
Top of roofing

# Note: 1/Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails 3/ Apron Flashing to comply with E2/AS1 para. 4.6.1.1, Fig. 7 &Table 7 Cavity Battens<sup>[2]</sup> Flexible Wall Underlay lapped over Apron flashing Solid blocking Selected Vertical Shiplap Weatherboard Bevel cut bottom of board to form drip edge (min. 15°) Nail board above Apron flashing upstand Cavity Closer positioned to form min. 15mm drip edge Apron Flashing<sup>[3]</sup> Secure flashing through hem at top of flashing Roofing underlay carried up face of framing behind Apron flashing upstand Specified roofing on roof framing as 35mm min per NZS 3604:2011 2 crests - refer E2/AS1 Table 7 Purlin Truss top chord or Rafter Ph: 03 544 6006 Vertical Shiplap Weatherboards 1:2 @ A4 2022/03/11 Email: sales@htlgroup.co.nz 20mm Cavity Batten - Flexible Underlay Website: www.htlgroup.co.nz Wall to Roof detail 48 Beach Road, Richmond, Nelson 7020 Drawing No.

1-4-902

Side of roofing

- 1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed
- 2/ Cavity Battens are Horizontal
  Castellated timber battens
  (HTLBH20) and plain vertical
  battens (HTLBV20), temporarily
  fixed with cladding nails
- 3/ Parapet flashings to comply with E2/AS1 para. 6.0, Fig. 10 & Table 7



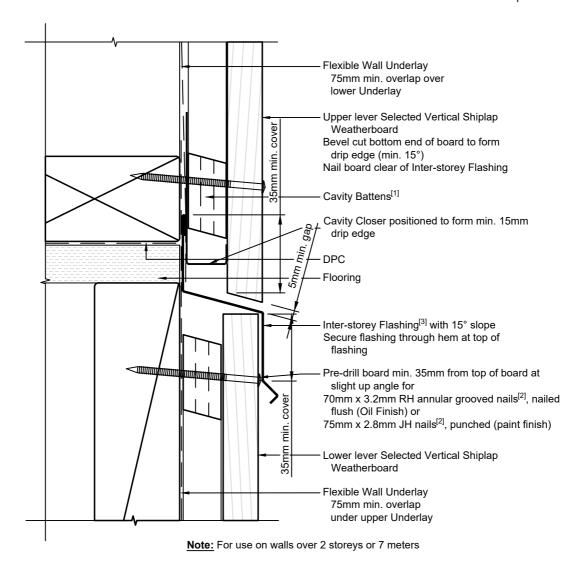


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Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Parapet detail 1:2 @ A4 2022/03/11

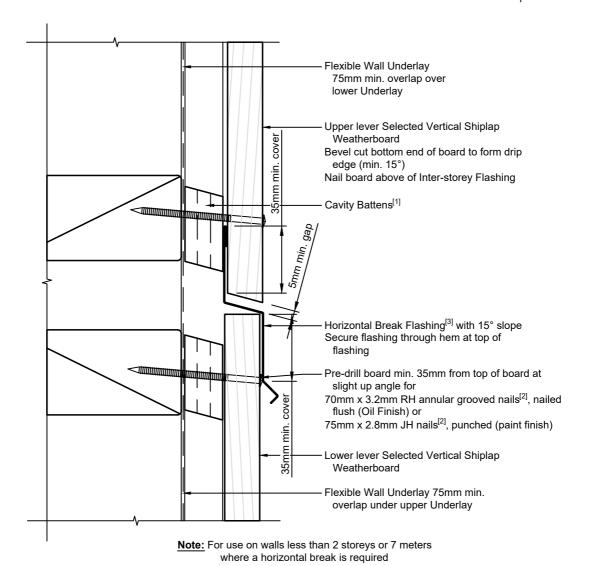
Drawing No. 1-4-911

- 1/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 2/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed
- 3/ Inter-storey Flashing to comply with E2/AS1 para. 9.1.9.4. & Fig. 70 or to suit common length of cladding, mitre at corners or form stop-ends as needed





- 1/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails
- 2/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed
- 3/ Horizontal break flashing to comply with E2/AS1 para. 9.1.9.4. & Fig. 70 or to suit common length of cladding, mitre at corners or form stop-ends as needed





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Vertical Shiplap Weatherboards 20mm Cavity Batten - Flexible Underlay Horizontal Break detail 1:2 @ A4

Drawing No.

2022/03/11