## Index

## Details for -**Board and Batten** 20mm Cavity Batten - Flexible Underlay

2-4-001	Index
2-4-101	Nail Fixing
2-4-111	Penetrations
2-4-151	Meter Box - Bottom
2-4-152	Meter Box - Side
2-4-153	Meter Box - Head
2-4-211	Bottom of Wall - Timber Floor
2-4-221	Bottom of Wall - Concrete Floor
2-4-301	External Boxed Corner
2-4-351	Internal Corner - Option A
2-4-352	Internal Corner - Option B
2-4-501	Door Sill
2-4-502	Door Jamb
2-4-503	Door Head
2-4-601	Window Sill
2-4-602	Window Jamb
2-4-603	Window Head
2-4-801	Eave Soffit
2-4-802	Flush Eave
2-4-851	Barge Soffit
2-4-852	Flush Barge
2-4-901	Roof to Wall - Top of roofing
2-4-902	Roof to Wall - Side of roofing
2-4-911	Parapet
2-4-951	Inter-storey Break
2-4-961	Horizontal Break

## 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



Drawing No.

2-4-001

- 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

· Selected Board & Batten (HTL123 Batten shown)

Cavity Battens[1]

Timber Framing

Pre drill in the middle of the Batten at slight up angle for

90mm x 3.2mm RH annular grooved nails  $^{[2]}$ , nailed flush (Oil Finish) or

90mm x 4mm JH nails<sup>[2]</sup>, punched (paint finish) into dwangs/nogs at 480mm crs max

Stud

Pre drill in the middle of the Board at slight up angle for

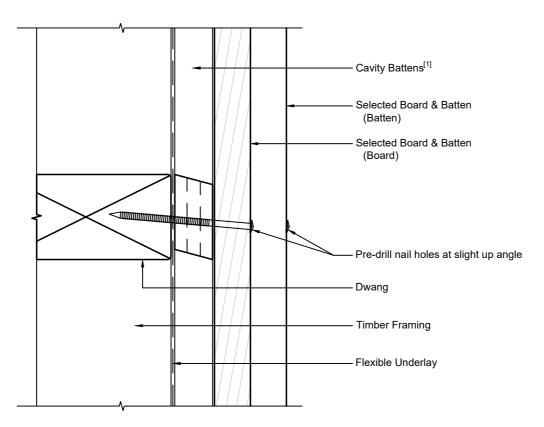
75mm x 3.2mm RH annular grooved nails<sup>[2]</sup>, nailed flush (Oil Finish) or

75mm x 3.15mm JH nails<sup>[2]</sup>, punched (paint finish) into dwangs/nogs at 480mm crs max

Selected Board & Batten (HTL120 Board shown)

Flexible Wall Underlay

Horizontal Cross section



Vertical cross sction



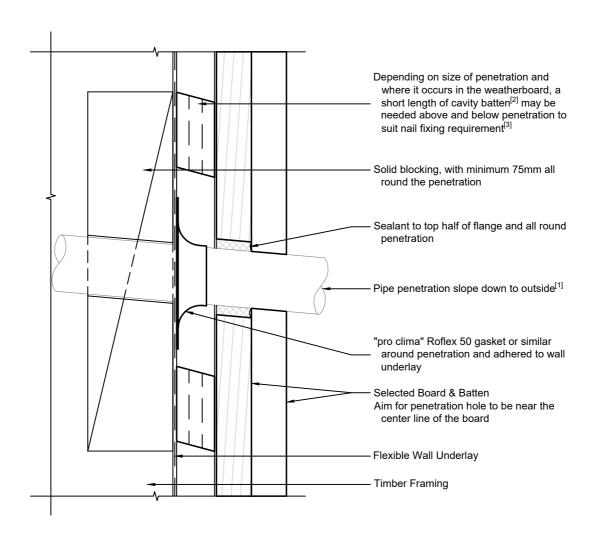
Ph: 03 544 6006 Email: sales@htlgroup.co.nz Website: www.htlgroup.co.nz 48 Beach Road, Richmond, Nelson 7020 P O Box 3050, Richmond, Nelson 7050

Board and Batten
20mm Cavity Batten - Flexible Underlay
Nail Fixing detail

1:2 @ A4 | 2021/01/26

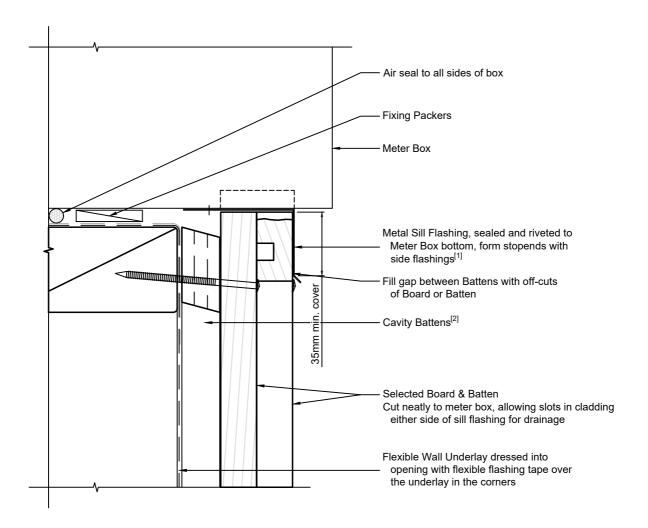
# Note: 1/ Penetration to comply with

- 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 F2/AS1 Approx 20mm
- 3/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed



2021/01/26

- 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



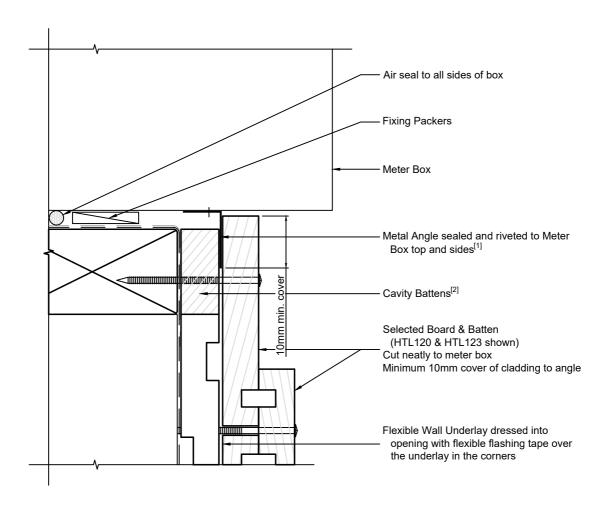
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Board and Batten
20mm Cavity Batten - Flexible Underlay
Meter Box - Bottom detail

1:2 @ A4

2021/01/26

- 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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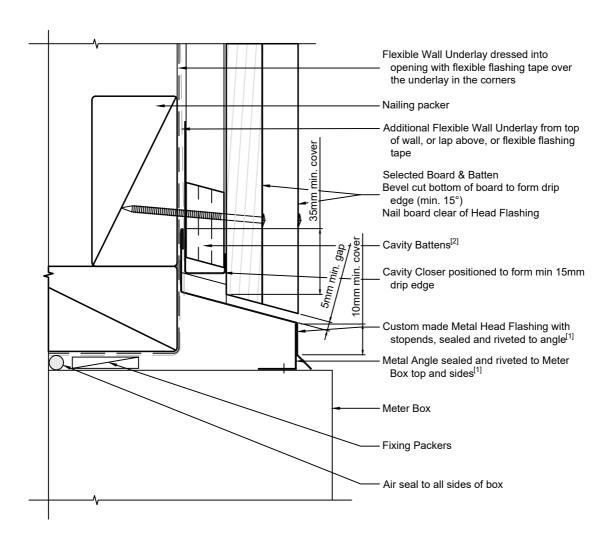
Board and Batten
20mm Cavity Batten - Flexible Underlay
Meter Box - Side detail

1:2 @ A4

Drawing No. 2-4-152

2021/01/26

- 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





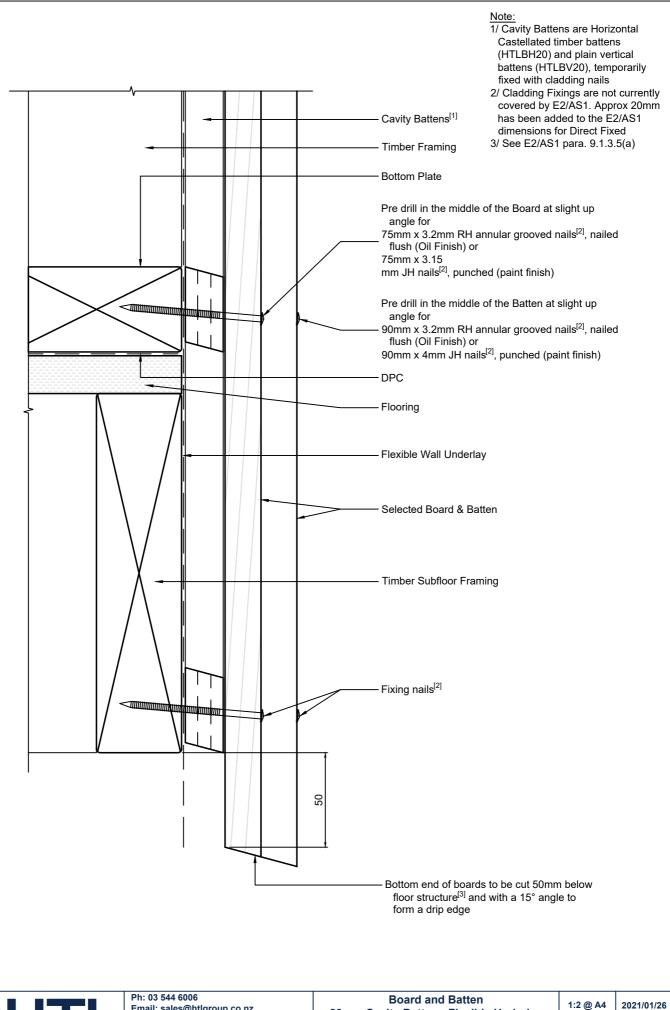
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Board and Batten
20mm Cavity Batten - Flexible Underlay
Meter Box - Head detail

1:2 @ A4

Drawing No. 2-4-153

2021/01/26



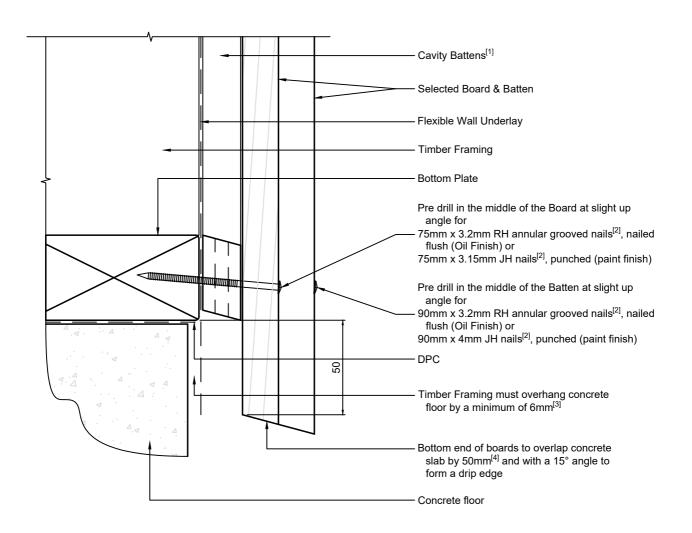


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20mm Cavity Batten - Flexible Underlay **Bottom of Wall detail Timber Floor** 

1:2 @ A4

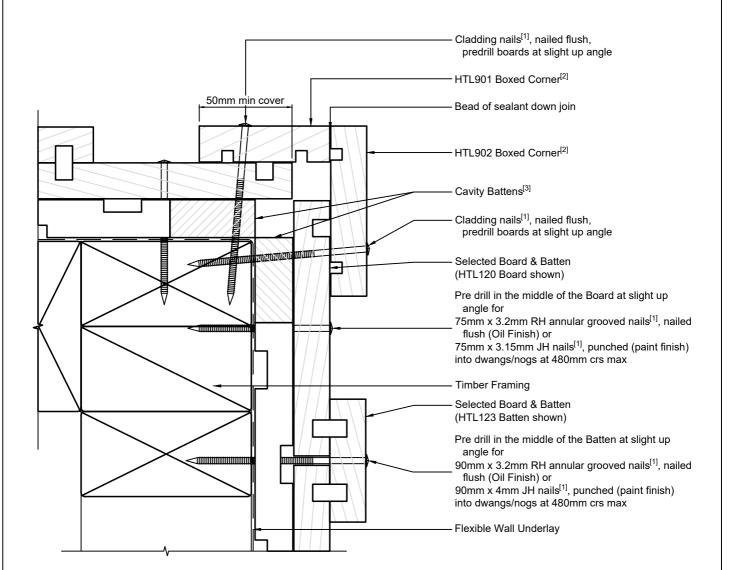
- 1/ Cavity Battens are Horizontal
  Castellated timber battens
  (HTLBH20) and plain vertical
  battens (HTLBV20), temporarily
  fixed with cladding nails
  2/ Cladding Fixings are not surrous
- 2/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions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



2021/01/26

- 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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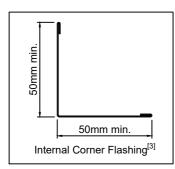
**Board and Batten** 20mm Cavity Batten - Flexible Underlay **External Corner detail** 

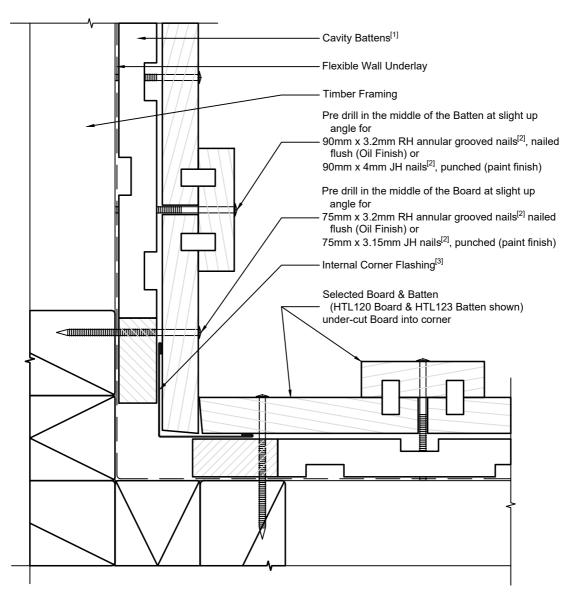
1:2 @ A4 2021/01/26

Drawing No.

2-4-301

- 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





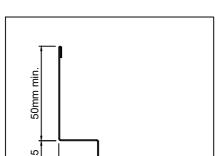
Option A



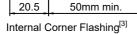
Ph: 03 544 6006 Email: sales@htlgroup.co.nz Website: www.htlgroup.co.nz 48 Beach Road, Richmond, Nelson 7020 P O Box 3050, Richmond, Nelson 7050 Board and Batten 20mm Cavity Batten - Flexible Underlay Internal Corner detail Option A

1:2 @ A4

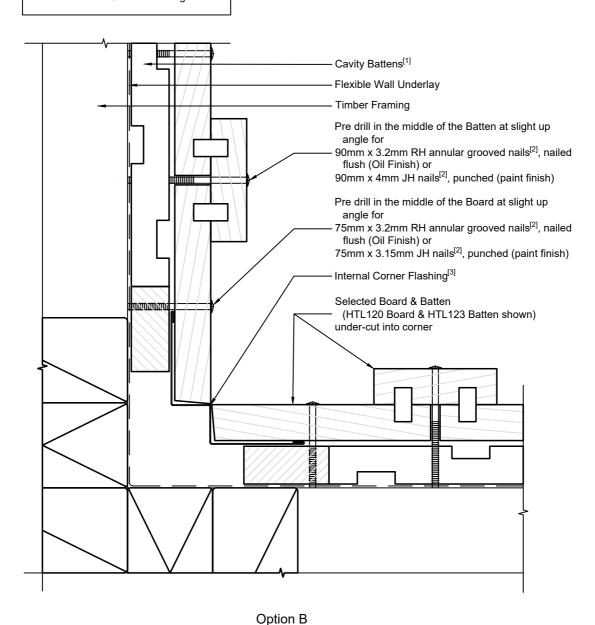
2021/01/26



- 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



20.





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1:2 @ A4

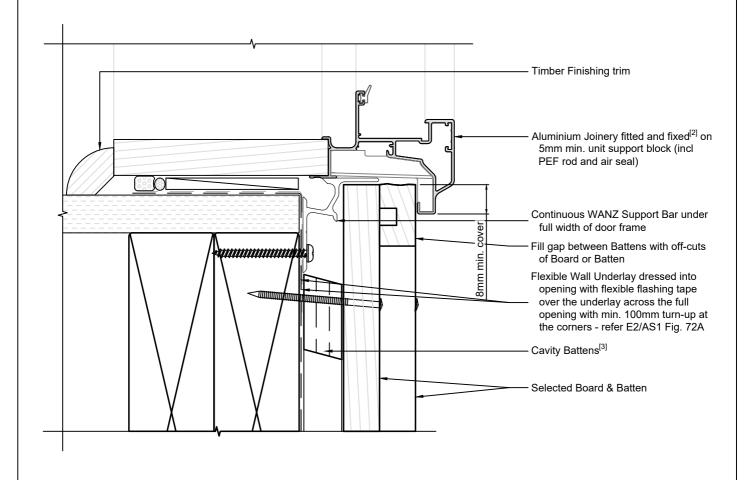
2021/01/26

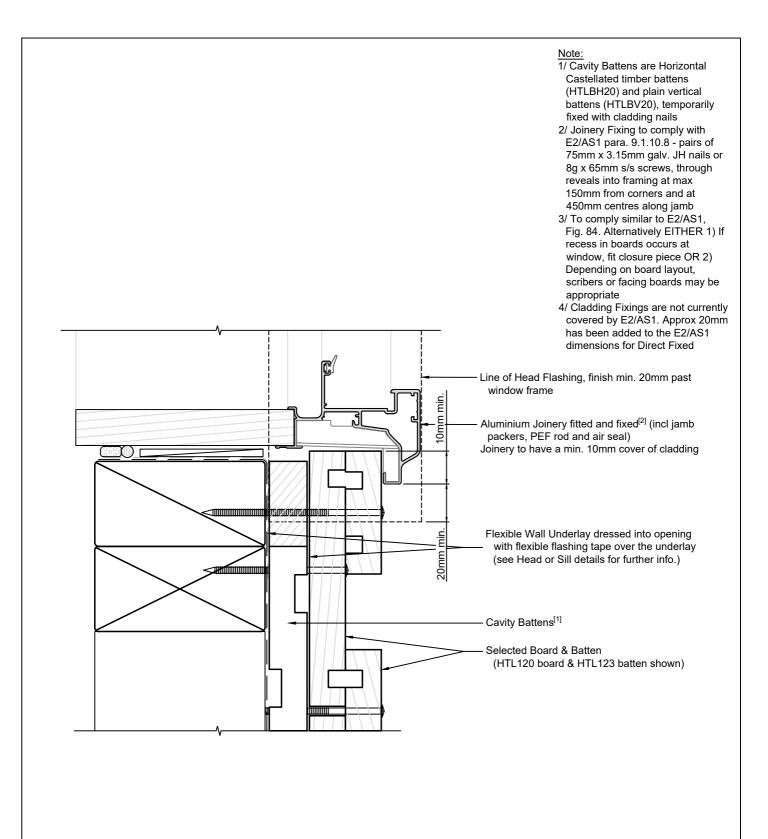
# Note: 1/ To comply similar to E2/AS1, Fig. 84 2/ Joinery Fixing to comply with

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 sill

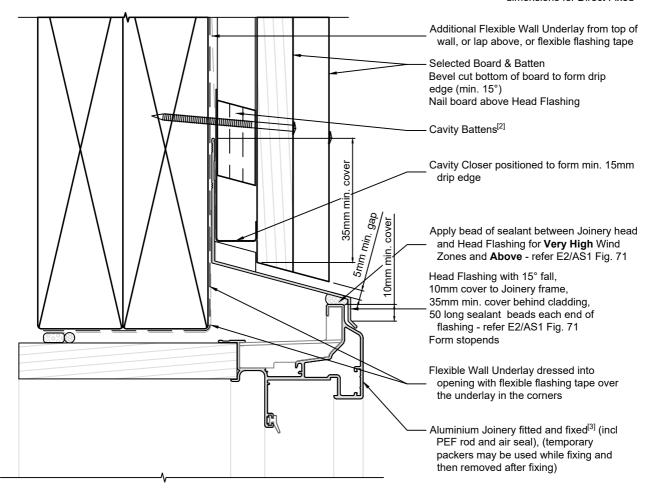
3/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails

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. 84
- 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

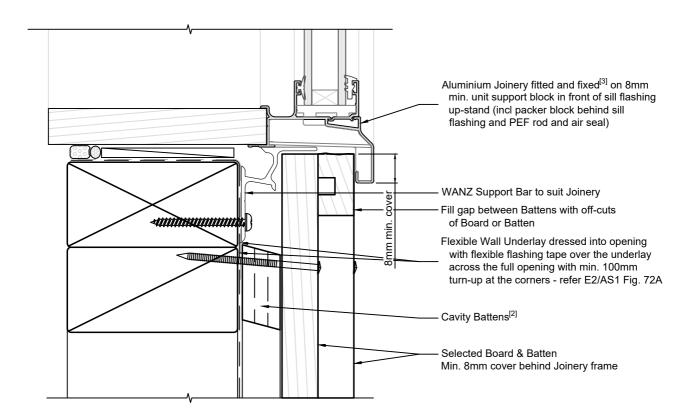


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Board and Batten
20mm Cavity Batten - Flexible Underlay
Door Head detail

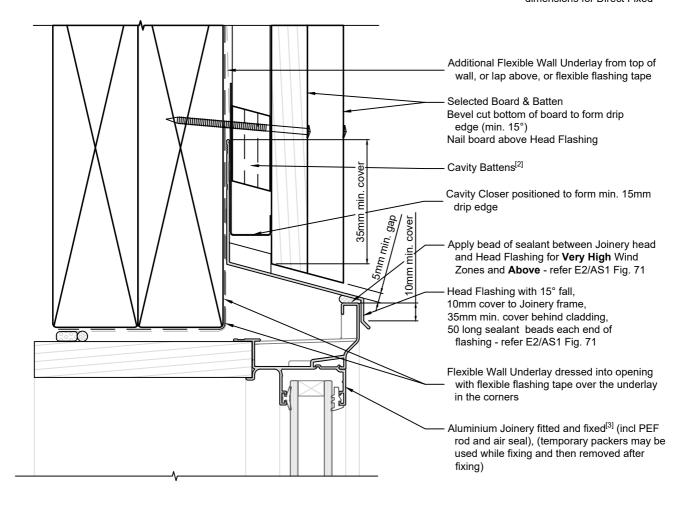
1:2 @ A4 | 2021/01/26

- 1/ To comply similar to E2/AS1, Fig. 84
- 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

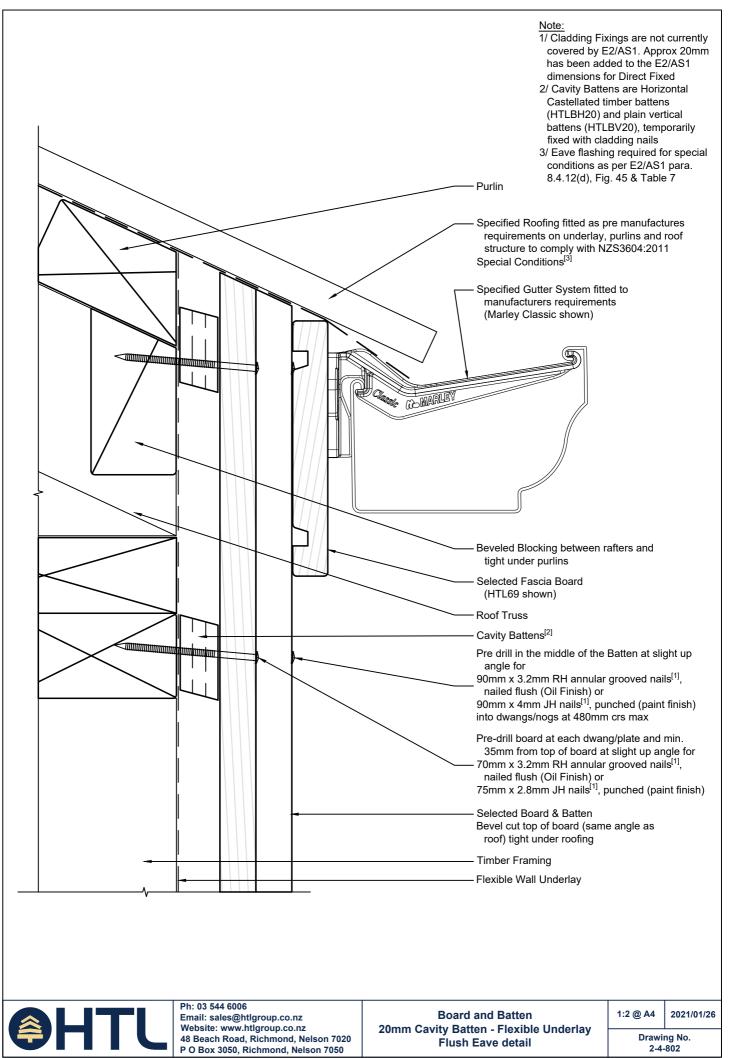


## Note: 1/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails 2/ Joinery Fixing to comply with E2/AS1 para. 9.1.10.8 - pairs of 75mm x 3.15mm galv. JH nails or 8g x 65mm s/s screws, through reveals into framing at max 150mm from corners and at 450mm centres along sill 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 Line of Head Flashing, finish min. 20mm past window frame 10mm min. Aluminium Joinery fitted and fixed<sup>[2]</sup> (incl jamb packers, PEF rod and air seal) Joinery to have a min. 10mm cover of cladding ..... Cavity Battens<sup>[1]</sup> E. 0mm Flexible Wall Underlay dressed into opening with flexible flashing tape over the underlay (see Head or Sill details for further info.) Selected Board & Batten (HTL120 Board & HTL123 Batten shown) Cut slots in board adjacent to window for Head flashing

- 1/ To comply similar to E2/AS1, Fig. 84
- 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

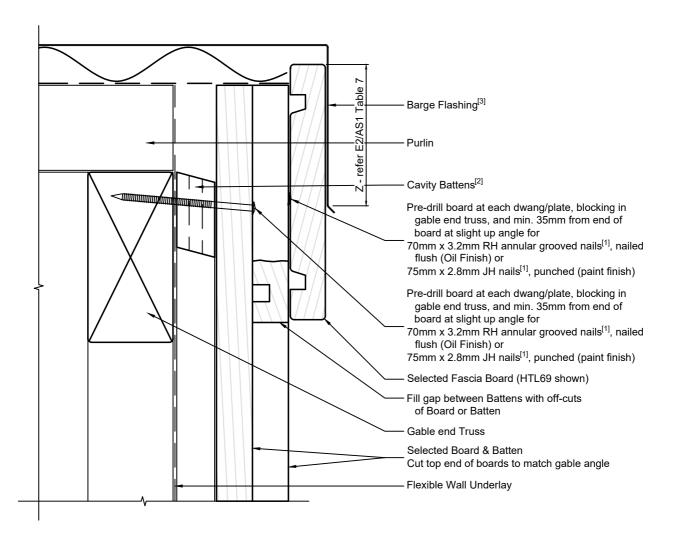


# Note: 1/Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails - Timber Framing Soffit Framing Soffit Lining HTL32 Eaves Moulding Pre drill in the middle of the Batten at slight up angle for 90mm x 3.2mm RH annular grooved nails<sup>[1]</sup>, nailed flush (Oil Finish) or 90mm x 4mm JH nails[1], punched (paint finish) Fill gap between Battens with off-cuts of Board Pre drill in the middle of the Board at slight up angle for 75mm x 3.2mm RH annular grooved nails<sup>[1]</sup>, nailed flush (Oil Finish) or 75mm x 3.15mm JH nails<sup>[1]</sup>, punched (paint finish) ex 100 x 50 Blocking Selected Board & Batten Flexible Wall Underlay Cavity Battens<sup>[2]</sup> Ph: 03 544 6006 1:2 @ A4 2021/01/26 **Board and Batten** Email: sales@htlgroup.co.nz Website: www.htlgroup.co.nz 20mm Cavity Batten - Flexible Underlay 48 Beach Road, Richmond, Nelson 7020 Drawing No. Soffit detail 2-4-801 P O Box 3050, Richmond, Nelson 7050



# 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 Barge Outrigger Barge Lining Fill gap between Battens with off-cuts of Board or Batten Eaves Moulding (HTL32 shown) Pre drill in the middle of the Batten at slight up angle for 90mm x 3.2mm RH annular grooved nails<sup>[2]</sup>, nailed flush (Oil Finish) or 90mm x 4mm JH nails[2], punched (paint finish) into dwangs/nogs at 480mm crs max Pre-drill board at each dwang/plate, blocking in gable end truss, and min. 35mm from end of board at slight up angle for 70mm x 3.2mm RH annular grooved nails[1], nailed flush (Oil Finish) or 75mm x 2.8mm JH nails<sup>[1]</sup>, punched (paint finish) Cavity Battens<sup>[2]</sup> Selected Board & Batten Cut top end of boards to match gable angle Gable end Truss Flexible Wall Underlay Ph: 03 544 6006 **Board and Batten** 1:2 @ A4 2021/01/26 Email: sales@htlgroup.co.nz Website: www.htlgroup.co.nz 20mm Cavity Batten - Flexible Underlay 48 Beach Road, Richmond, Nelson 7020 Drawing No. **Barge Soffit detail** 2-4-851 P O Box 3050, Richmond, Nelson 7050

- 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



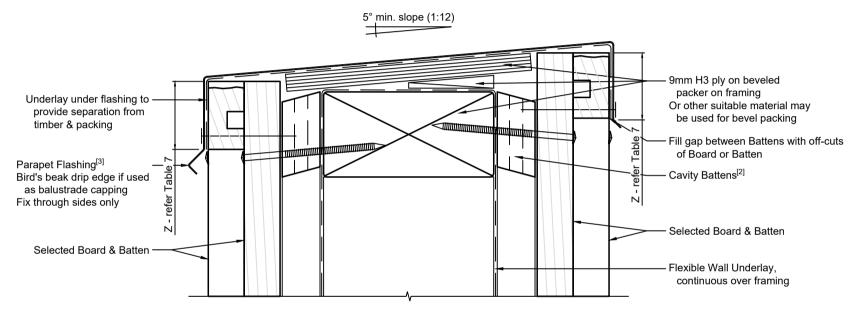
# Note: 1/ Cladding Fixings are not currently covered by E2/AS1. Approx 20mm has been added to the E2/AS1 dimensions for Direct Fixed 2/ Cavity Battens are Horizontal Castellated timber battens (HTLBH20) and plain vertical battens (HTLBV20), temporarily fixed with cladding nails 3/ Apron Flashing to 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 Board & Batten 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 $^{[3]}$ 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 **Board and Batten** 1:2 @ A4 2021/01/26 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.

2-4-901

**Top of Roof** 

# 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 Board & Batten 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 **Board and Batten** 1:2 @ A4 2021/01/26

- 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 Flashing to comply with E2/AS1 para. 6.0, Fig. 10 & Table 7



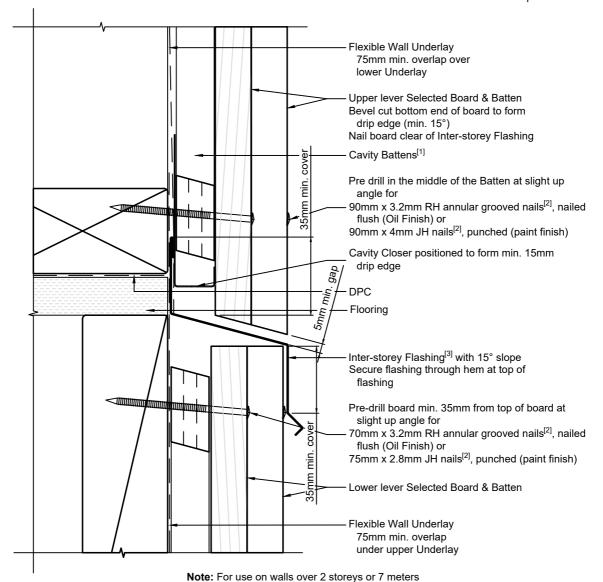


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Board and Batten
20mm Cavity Batten - Flexible Underlay
Parapet detail

1:2 @ A4 | 2021/01/26

- 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





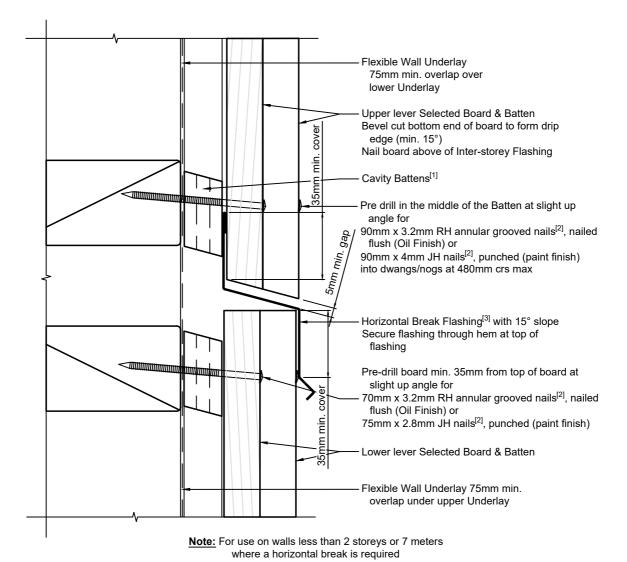
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**Board and Batten** 20mm Cavity Batten - Flexible Underlay Inter-storey Break detail

1:2 @ A4

2021/01/26

- 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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Board and Batten
20mm Cavity Batten - Flexible Underlay
Horizontal Break detail

1:2 @ A4

Drawing No.

2021/01/26

2-4-961