1. NW-V001C; Cavity batten layout
2. NW-V002C; Battening options
3. NW-V002C; Battening options – steel framing
4. NW-V003C; Base channel & fixing detail
5. NW-V004C; Base channel over timber floor
6. NW-V005C; Base channel over waterproof deck
7. NW-S004; Base channel mitred corner detail
8. NW-V006C; Base channel / external 90˚ corner isometric
9. NW-V007C; External 90˚ corner
10. NW-V008C; Internal 90˚ corner
11. NW-V009C; Horizontal joint
12. NW-V010C; Window sill section
13. NW-V011C; Window jamb section
14. NW-V012C; Window head section
15. NW-V013C; Window head & sill soaker flashing detailing
16. NW-V014C; Window head flashing end detail
17. NW-V015C; Meter box sill section
18. NW-V016C; Meter box jamb section
19. NW-V017C; Meter box head section
20. NW-V018C; Soffit trim section
21. NW-V019C; Pipe penetration
22. NW-V020C; Roof / wall junction
23. NW-V021C; Parapet flashing
24. NW-V022C; Deck junction
25. NW-V023C; Gutter / wall junction
Horizontal cavity battens. Refer to Drawing NW-V002C for suitable batten options.

Cavity battens under the opening must be located no closer than 100mm to the edge of the opening.

Maximum nog spacing at 600mm
NW-VO02C - Vertical Cladding over Drained & Verted Cavity Battening Options

1. USING TREATED TIMBER BATTEN

- Distance from top edge to impervious barrier (WPE or similar) between batten & cladding
- Passage and minimum 15° slope to top edge to shed water
- Note: Battens should have castellated profile to permit air

2. USING CAVIJAT PLASTIC BATTEN

- 15mm drip edge
- Drainage holes @ 500mm centres
- Base channel - Drill 5mm
- Cavity dosage per NZBC
- Universal Fixing Bracket

- Universal Fixing Bracket
- Ø60mm centres
- 8x60 s/s csk screw

- NCT3
- NC203
- NC204
- NC226
Scale NTS

NW-VO02C - Vertical Cladding over Drained & Vented Cavality Battening Options on Steel Frame

1. Using Treated Timber Battens

2. Using Cavimat R Plastic Battens

NOTE: Battens should have castellated profile to permit air passage and minimum 15° slope to top edge to shed water.

Wall Underlay

600mm centres (will 10 gauge hole) @
Universal Fixing Bracket

NC2036

Steel Frame by 17mm minimum.
10G Cavity Tek screw to penetrate

NC204

Intrusive barrier (MDF or

NC226

Ep's Thermal Break

600mm centres (will 10 gauge hole) @
Universal Fixing Bracket

NC2036

Base Channel - Drill 5mm

NC134

Drainage holes @ 500mm centres.

Wall Underlay

600mm centres

NC134

Cavity茄子 (section 9.1.8.3)
Cavity dose per NZBC

1.5m drip edge

Cavity茄子 (section 9.1.8.3)
Cavity dose per NZBC

1.5m drip edge

1.5m drip edge
NOTE:
Standard fixing spec. for timber framing shown. Can vary depending upon substrate and wind load.

Horizontal cavity battens. Refer to Drawing NW-V002C for suitable batten options.

Wall Underlay compliant with E2/AS1 Table 23

NC203
Universal Fixing Bracket @ 600mm centres.

NC204
8g x 50 s/s csk screw.

NC226
Impervious barrier (MDPE or similar) between batten & cladding.

Drained & vented cavity as per NZBC Clause E2/AS1 (section 9.1.8)

2.8mm x 50mm Hot Dip Galv Clout staggered @ 300 centres.

NC134
Base Channel - Drill 5mm drainage holes @ 500mm centres.

Cavity closure per NZBC Clause E2/AS1 (section 9.1.8.3)

50mm minimum

100mm to permanent paving or 175mm to unfinished ground

NW-V003C - Vertical Cladding over Drained & Vented Cavity Base Channel & Fixing

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NC226
Impervious barrier (MDPE or similar) between batten & cladding

NC203
Universal Fixing Bracket @ 600mm centres

NC204
8gx50 s/s csk screw

2.8mm x 50mm Hot Dip Galv Clout staggered @ 300mm centres.

NC134
Base Channel - Drill 5mm drainage holes @ 500mm centres.

50mm overhang

Cavity closer as per NZBC Clause E2/AS1 (section 9.1.8.3)

Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8)

Timber floor structure in accordance with NZS 3604

Wall Underlay

Timber framing over DPC

Finished ground level

NW-V004C - Vertical Cladding over Drained & Vented Cavity Starter; Timber Floor

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Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8)

NC226
Impervious barrier (MDPE or similar) between batten & cladding

Wall Underlay

NC134
Base Channel - Drill 5mm drainage holes @ 500 centres.

Cavity closure per NZBC Clause E2/AS1 (section 9.1.3.8)

Bottom Plate

Floor structure

Deck waterproof membrane to carry up behind building underlay past wall framing bottom plate.

150mm minimum membrane upstand

100mm

50mm

50mm

Corner fillet

Waterproof deck structure
1. Cut ends of NC134 at 45 degrees. Check out rear upstand on both ends; 75mm high x 50mm wide. Fit NC134 to achieve mitred corner as shown.

2. Fit NC109X into space created by checking out upstands. Ensure no overlapping occurs.

3. After cladding boards have been fitted, measure and cut NC107X to finish above front upstand of NC134 as shown. Fit NC107X.

NW-S004  Base channel mitred corner - to give improved aesthetic when visible from below
NC226
Impervious barrier (MDPE or similar) between batten & cladding.

NC220
19mm x 15mm Closed-Cell Foam Tape

NC109X
Male Corner

NC107X
Female Corner

NC134
Base Channel - Drill 5mm drainage holes @ 500mm centres.

Check out 15mm of rear upstand to achieve correct fit of Corner Cap with Base Channel.
For an internal corner detail, check out front upstand of Base Channel.

NW-V006C - Vertical Cladding over Drained & Vented Cavity Base Channel / Corner Isometric
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NC220
19mm x 15mm Closed-Cell
Foam Tape

NC226
Impervious barrier (MDPE
or similar) between treated
timber batten & cladding.

NC107X / NC109X
Female/Male Corner extends
min. 50mm below bottom plate

2.8mm x 50mm Hot Dip Galv
Clout @ 600mm centres.

NC232F
Universal Locator Bracket
used to commence cladding.

Drained & vented cavity as per
NZBC Clause E2/AS1 (section 9.1.8).
Refer to Drawing NW-V002C for
suitable batten options.

Wall Underlay continuous around corner

NW-V007C - Vertical Cladding over Drained & Vented Cavity - External 90° Corner

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2.8mm x 50mm Hot Dip Galv Clout @ 600mm centres.

NC220
19mm x 15mm Closed-Cell Foam Tape

NC232F
Universal Locator Bracket (snapped) used to commence cladding

NC107X / NC109X
Female/Male Corner extends min. 50mm below bottom plate

NC226
Impervious barrier (MDPE or similar) between treated timber batten & cladding.

Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8). Refer to Drawing NW-V002C for suitable cladding options.

Wall Underlay continuous around corner

NW-V008C - Vertical Cladding over Drained & Vented Cavity - Internal 90° Corner

Scale 1:2
NW-V009C - Vertical Cladding over Drained & Vented Cavity - Horizontal Joint

Scale 1:2

NOTE:
This detail is to be used to limit continuous cavities to the lesser of two storeys or 7 metres. Refer E2/AS1 Table 7 for flashing cover requirements.
Aluminium Support Bar

Flexible flashing tape along entire sill, 100mm up each jamb and 50mm onto face of wall underlay.

8mm minimum packer

Air seal over PEF backing rod

NC138
Jamb Flashing Base - riveted to Support Bar

NC229
Closed cell PVC foam tape

NC139
Jamb Flashing Cap

NC227
Plastic Soaker Flashing behind Jamb Flashing Base and extends down into Base Channel or into a Horizontal Joint

NC226
Impervious barrier (MDPE or similar) between batten & cladding

Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8)

Wall Underlay

NOTE: Cladding fixings omitted for clarity.

NW-V010C - Vertical Cladding over Drained & Vented Cavity - Window Sill with Support Bar

Scale 1:2

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Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8). Refer to Drawing NW-V002C for suitable batten options.
Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8) Refer to Drawing NW-V002C for suitable batten options.

NC134
Base Channel - Drill 5mm drainage holes @ 500mm centres

Sealant required for Very High and Extra High wind zones. Also refer to Note below.

5mm gap

10mm cover

Joinery head flashing with 15° slope & 20mm stop-ends (Extends 50mm each side of the window opening)

NC227
Plastic Soaker Flashing continued to finish into vented Base Channel or horizontal joint.

Wall Underlay folded into opening

Flashing tape or second layer of wall underlay over flashing upstand

2.8mm x 50mm Hot Dip Galv. Clout staggered @ 300mm centres.

35mm minimum flashing upstand

Cavity closure per NZBC Clause E2/AS1 (section 9.1.8.3)

10mm

Air seal over PEF backing rod

Packers

Flexible flashing tape at corners

NOTE:
Rigid Air Barrier (RAB) also required in Extra High wind zones. Refer to E2/AS1 (section 9.1.7.2)

NW-V012C - Vertical Cladding over Drained & Vented Cavity - Window Head

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NC134 - Base Channel - Drill 5mm drainage holes @ 500mm centres

NC227 - Plastic Soaker

NC138 / 139 - Window Head Flashing - Jamb Flashing - Base & Cap

Soaker formed into Base Channel

Top of soaker chamfered to ease path of soaker

Top of battens chamfered to ease path of soaker

Soaker located behind Jamb Flashing

Top of soaker located behind Head Flashing

Cut Soakers to length

Trim to suit

Trim

Soaker formed over batten

Top of soaker located behind Head Flashing

Soaker located behind Head Flashing - Window Head Flashing

Trim to suit

Form into Base Channel at bottom of cladding

NC134

NC227

NTS

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Junction prior to cladding around window head

Junction after cladding around window head

Plastic Soaker continued to finish in Base Channel or horizontal joint

Ref NW-V012C for sectional drawing

NW-V014C - Vertical Cladding over Drained & Vented Cavity - Head Flashing End Detail

Scale NTS

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Base Channel - Drill 5mm drainage holes @ 500mm centres

Board slotted around head flashing and Base Channel

Seal slot around end of head flashing and Base Channel

Jamb Flashing Cap

Head Flashing stop-ended and sealed with silicon NC227

Seal slot around end of head flashing and Base Channel

Window Head Flashing

Seal slot around end of head flashing and Base Channel

Jamb Flashing Cap NC139

Horizontal Joint finish in Base Channel or Plastic Soaker continued to NC227

Window Head Flashing Seal slot around end of head flashing and Base Channel

Seal slot around end of head flashing and Base Channel
Impervious barrier (MDPE or similar) between batten & cladding

50mm x 20mm aluminium angle sealed and riveted to meter box

Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8)

Plastic Soaker Flashing located behind Jamb Flashing Base continued to finish in Base Channel

Impervious barrier (MDPE or similar) between batten & cladding

Flexible flashing tape to sill and jambs

Wall Underlay folded into opening

Air seal over PEF rod around all sides of meter box

Metal Meter Box

50mm x 20mm aluminium angle sealed and riveted to meter box

Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8)

Plastic Soaker Flashing located behind Jamb Flashing Base continued to finish in Base Channel

Impervious barrier (MDPE or similar) between batten & cladding
NC139  Jamb Flashing Cap

NC220  19mm x 15mm Closed-Cel Foam Tape

NC227  Plastic Soaker Flashing - Ripped and continued to finish in Base Channel or horizontal joint.

NC138  Jamb Flashing Base

NC226  Impervious barrier (MDPE or similar) between treated timber batten & cladding.

Metal Meter Box

50mm x 20mm aluminium angle sealed & riveted to meter box

Drained & Vented cavity per NZBC Clause E2/AS1 (section 9.1.8). Refer to Drawing NW-V002C for suitable batten options.

Wall Underlay folded into opening

Flexible flashing tape to sill and 100mm up jambs

Air seal over PEF rod around all sides of meter box

NW-V016C - Vertical Cladding over Drained & Vented Cavity - Meter Box Jamb Detail
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Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8). Refer to Drawing NW-V002C for suitable batten options.

NC226
Impervious barrier (MDPE or similar) between treated timber batten & cladding.

NC134
Base Channel - Drill 5mm drainage holes @ 500mm centres

5mm gap to be maintained between Base Channel and head flashing

Head flashing with 15° slope, 20mm stop-end and a minimum 35mm upstand

Wall Underlay continuous behind head flashing

Flashing Tape or second layer of Wall Underlay over head flashing

Nog as required

15mm drip edge

Cavity closure per NZBC Clause E2/AS1 (section 9.1.8.3)

10mm

Air seal over PEF rod around all sides of meter box

Flexible flashing tape at corners

50mm x 20mm aluminium angle sealed and riveted to meter box

Metal Meter Box

NC227
Plastic Soaker Flashing located behind head flashing, continued to finish in Base Channel

NW-V017C - Vertical Cladding over Drained & Vented Cavity - Meter Box Head Detail
Scale 1:2

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**Impervious barrier (MDPE or similar)** between batten & cladding

**Continuous horizontal batten to close off cavity**

**Scale 1:1**

NW-V018C - Vertical Cladding over Drained & Vented Cavity - Soffit Trim

**Wall Underlay**

**NC229**
Closed-Cell PVC foam tape

**NC139**
Jamb Flashing Cap

**NC138**
Jamb Flashing Base

**NC226**
Impervious barrier (MDPE or similar) between batten & cladding

Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8)
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Scale NTS

NW-V019C - Vertical Cladding over Drained & Vented Cavity - Pipe Penetration

- 0.7mm Aluminium Soaker
- Flashing tappered to fit inside
- Plastic Soaker Flashing
- Flexible Flashing Tape applied to soaker and pipe
- Proprietary flashing installed to manufacturer's specifications

A = Pipe diameter

100mm all round pipe and 25mm wide around pipe

Drained & vented cavity per NZBC Clause E2.4.1 (section 9.1.8)

Wall Underlay carefully cut to suit pipe

Impervious barrier (MDPE or similar) between battens and cladding

Pipe to have minimum 5° fall to outside

Flexible Flashing Tape over underlay

Flexible Soaker Flashing continued to finish in Base Channel

NC226

NC227
Wall Underlay lapped over flashing upstand

75mm minimum flashing leg above bottom of weatherboard

Horizontal cavity battens. Refer to Drawing NW-V002C for suitable batten options.

NC226
Impervious barrier (MDPE or similar) between batten & cladding

NC134
Base Channel - Drill 5mm drainage holes @ 500mm centres.

Cavity closure per NZBC Clause E2/AS1 (section 9.1.8.3)

35mm minimum clear gap

Nog as required

15

Roof Underlay continued up behind flashing

Selected roofing with stop-end

Apron flashing by others.

Edge of flashing dressed down or notched. Refer to NZBC Acceptable Solution E2/AS1 Table 7 for flashing cover requirements over roof and behind cladding.

NW-V020C - Vertical Cladding over Drained & Vented Cavity - Roof / Wall Junction

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Scale NTS

NW-V021C - Vertical Cladding over Drained & Vented cavity - Parapet Flashing

Continuous over framing

Wall Undertary

NZBC Clause E2/AS1 (Section 9.1.8)

Drained & Vented cavity per
See Table 7 E2/AS1

For both sides

Metal Flashing must be

Fixed to sides only

NCF226

Impermeable barrier (MDPE or

similar) between battens & cladding

5° Slope minimum

H3.1 Treated timber

Underlay to provide isolation

Packer to form slope
Deck joist

- H3.2 treated timber packer
  - 12mm thick at fixing locations

- H3.2 treated timber ribbon plate

- 50x50x3mm thick EPDM washer to suit, hole to be tight fit around bolt

- Drained & vented cavity per NZBC Clause E2/AS1 (section 9.1.8)

- NC226
  - Impervious barrier (MDPE or similar) between batten & cladding

- Structural blocking as per Engineering design

- Fixings as per Engineering design

- Wall Underlay

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