75mm galv D-head ring shank nail fixing to 40x20x300mm H3.2 timber batten tie

CELCRETE BATTEN TIES - 20mm CAVITY
H3.2 timber
CAD REF 2-3
SCALE 1:10

Celcrete Panel Veneer System
Issue Date: Sept 2012
**CELCRETE 50mm PANEL VENEER SYSTEM FIXING DETAILS - 20mm CAVITY**

**Issue Date:** Sept 2012

**SCALE 1:20**

- **40mm x 20mm x 300mm H3.2 timber batten ties**
- **20mm cavity**
- **Rendertek external mesh plaster system & paint system**
- **Insulation to meet building code requirements**
- **Wall lining**
- **75mm stainless steel screw fixing through celcrete panel into 40x20x300mm H3.2 timber batten ties**
- **50mm celcrete panel**
- **2-3mm Celcrete mortar glue between panel units all edges**
- **Wall underlay on framing**
- **Vents @ 1200mm cc max**
- **2mm Celcrete mortar glue between panel and base block**
- **DPC as per NZS 3604**
- **Non expressed control joint see CAD-REF 5-1**
- **Vents @ 1200mm cc max**

Timber batten ties placed at 22° angle at multiple stud locations on sides of all window & door openings to align & support joint.
40mm x 20mm x 300mm H3.2 timber batten ties

40mm x 20mm x 300mm H3.2 timber batten placed @ 22° angle to horizontal behind panels to align & support joint

Timber batten ties placed at 22° angle at multiple stud locations on sides of all window & door openings

wall underlay to continue under lintel and taped with Protecto Sill System (or similar) at corners by builder

Protecto Sill System (or similar) by builder continuous along sill. Extend flashing tape 100mm up jamb & 50mm onto face of wall underlay

wall underlay strapping @300mm cc

approved proprietary breather type wall underlay continuous around framing by builder

CELCRETE 50mm PANEL VENEER SYSTEM FIXING DETAILS - 20mm CAVITY

CAD REF 3-1-a - 20
SCALE 1:20

Celcrete Panel Veneer System
Issue Date: Sept 2012
**SINGLE STOREY SECTION - 20mm CAVITY**

**CAD REF 3-2 - 20**
**SCALE 1:20**

Celcrete Panel Veneer System

*Issue Date: Sept 2012*

- **75mm galv ring shank nail fixing to 40x20x300mm H3.2 timber batten tie**
- **20mm cavity**
- **Celcrete 50mm panel laid horizontally**
- **Wall underlay**
- **Timber framing**
- **40x20x300mm long H3.2 timber batten ties @ 600mm cc max**
- **Vents @ 1200mm cc max**
- **175mm min**
- **100 mm min**
- **50mm min**
- **Ground**
- **Pavers**
- **25 series concrete block perimeter**
- **DPC as per NZS 3604**
- **Reinforced concrete footing as per NZS 3604**

- **75mm stainless steel screw fixing into 40x20x300mm H3.2 batten tie, embedded 5mm into panel**
- **20mm cavity**
- **75mm galv ring shank nail fixing to 40x20x300mm H3.2 timber batten tie**
REBATED STEP-DOWN FOOTING DETAIL - 20mm CAVITY

CAD REF 4-1 - 20
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
OVERHANGING FOOTING DETAIL - 20mm CAVITY

- 75mm stainless steel screws
- 75mm galv ring shank nail fixing to 40x20x300mm H3.2 timber batten tie
- DPC as per NZS 3604
- 20 series concrete block
- reinforced concrete footing as per NZS 3604
- Celcrete PVC base cap moulding
- 50mm min. step-down
- 50mm min. to 250mm max
- 100mm
- 175mm min
- ground
- pavers
- wall underlay
- 50mm min.

Celcrete Panel Veneer System
Issue Date: Sept 2012

SCALE 1:5
CELCRETE PANEL EXTERNAL CORNER JUNCTION - 20mm CAVITY

Framing timber

Wall underlay continuous around corner

20mm cavity

H3.2 batten tie.

Rendertek external mesh plaster system & paint system

PVC corner bead with 100 x 100mm mesh to external corners

Low expandable PU foam [4-8mm gap] non expressed control joint plastered over

Celcrete 50mm panel

Rendertek external mesh plaster system & paint system

Celcrete Panel Veneer System

Issue Date: Sept 2012
CELCRETE PANEL INTERNAL CORNER JUNCTION - 20mm CAVITY

CAD REF 5-2 - 20
SCALE 1:5

builder to supply and install additional stud
framing timber

wall underlay continuous around corner

20mm cavity

20mm min. clearance
low expandable PU foam [4-8mm gap] non expressed control joint plastered over
Celcrete 50mm panel
rendertek external mesh plaster system & paint system

200mm

H3.2 batten tie.
ALUMINIUM WINDOW HEAD - 20mm CAVITY

15 deg
10mm

75mm galvanized ring shank nails

40x20x300mm long H3.2 batten tie.

Celcrete 50mm panel

rendertek external mesh plaster system & paint system.

wall underlay continuous into opening

75mm stainless steel screws

flexible flashing tape over flashing

20mm cavity

Celcrete PVC window head moulding sitting 5mm above Z flashing to allow water to drain

powder coated 0.9mm aluminium flashing folded up 20mm at each end finishing flush with outside flange of window

silicone bead between bottom of head flashing and top flange of window

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

HEAD FLASHING PROFILE supplied with joinery.

50mm
42mm
15mm
10mm

UPSTAND

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

10mm cover

8 min

35mm min cover

air seal using low expandable PU foam over P.E.F. rod

7.5mm min

5mm

75mm stainless steel screws

window underlay continuous into opening

20mm cavity

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

HEAD FLASHING PROFILE supplied with joinery.

50mm
42mm
15mm
10mm

UPSTAND

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

10mm cover

8 min

35mm min cover

air seal using low expandable PU foam over P.E.F. rod

7.5mm min

5mm

75mm stainless steel screws

window underlay continuous into opening

20mm cavity

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

HEAD FLASHING PROFILE supplied with joinery.

50mm
42mm
15mm
10mm

UPSTAND

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

10mm cover

8 min

35mm min cover

air seal using low expandable PU foam over P.E.F. rod

7.5mm min

5mm

75mm stainless steel screws

window underlay continuous into opening

20mm cavity

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

HEAD FLASHING PROFILE supplied with joinery.

50mm
42mm
15mm
10mm

UPSTAND

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

10mm cover

8 min

35mm min cover

air seal using low expandable PU foam over P.E.F. rod

7.5mm min

5mm

75mm stainless steel screws

window underlay continuous into opening

20mm cavity

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

HEAD FLASHING PROFILE supplied with joinery.

50mm
42mm
15mm
10mm

UPSTAND
ALUMINIUM WINDOW HEAD - 20mm CAVITY

wall underlay continuous into opening

flexible flashing tape over flashing

silicone sealant

powder coated 0.9mm aluminium flashing folded up 20mm at each end finishing flush with outside flange of window then sealed with silicone sealant at corner of fold

silicone bead between bottom of head flashing and top flange of window

8mm min clearance for PVC reveal bead flashing adhered to face of aluminium joinery down both sides of window and plastered in

air seal using low expandable PU foam installed over PEF rod

Celcrete Panel Veneer System

Issue Date: Sept 2012
Aluminium Window Jamb - 20 Cavity

- Celcrete PVC reveal bead flashing adhered to face of aluminium joinery and plastered in flexible flashing tape min 100mm up jamb.
- Jamb packer 40x20x300mm long H3.2 batten tie.
- Celcrete 50mm panel
- Rendertek external mesh plaster system & paint system
- 20mm cavity
- Wall underlay folded into opening
- 100mm DPC strip over wall underlay both sides of window
- Air seal using low expandable PU foam installed over PEF rod
- Interior wall linings

Plan View
Aluminium Window Jamb - 20 Cavity

CAD REF 7-2 - 20
Scale 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012
ALUMINIUM WINDOW SILL - 20mm CAVITY

WINDOW FIXING: Refer to E2/AS1 Paragraph 9.1.10.8

Celcrete Panel Veneer System
Issue Date: Sept 2012

CAD REF 7-3 - 20
SCALE 1:2

WANZ support bar
open between aluminium joinery and Celcrete panel to allow water to escape

Celcrete PVC sill flashing

wall underlay into opening

rendertek external mesh plaster system & paint system

wall underlay

Celcrete 50mm panel

75mm galvanized ring shank nails

75mm stainless steel screws

40x20x300mm long H3.2 batten tie.

20mm cavity

drainage holes

sill packer

air seal using low expandable PU foam installed over PEF rod

flexible flashing tape over building underlay continuous along sill, min 100mm up jambs and 50mm onto face of building underlay

interior wall linings

25mm

8mm min

7.5mm

8mm min

25mm

75mm stainless steel screws
SOFFIT EDGE DETAIL - 20mm CAVITY

wall underlay.

300mm long H3.2 batten tie.

Celcrete 50mm panel
rendertek external mesh plaster system & paint system
20mm cavity
Celcrete PVC soffit mould glued to Celcrete 50mm panel
ms sealant bead

SOFFIT FRAMING
soffit lining

15mm

Celcrete Panel Veneer System
Issue Date: Sept 2012
soffit linings installed after Celcrete 50mm panels

wall underlay must extend a minimum of 50mm beyond panel

Protecto Tape must extend min 100mm down vertical surface and min 100mm under soffit

(Protecto Tape work done by others, all Protecto Tape work must be done by licensed applicators.)

Celcrete 50mm panel

rendertek external mesh plaster system & paint system

300mm long H3.2 batten tie

wall underlay

20mm cavity

framing timber

EXPOSED MONOPLANE ROOF & SOFFIT - CELCRETE PANEL JUNCTION - 20mm CAVITY

CAD REF 8-3 - 20
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
CELCRETE PANEL  SOFFIT EAVES JUNCTION DETAIL - 20mm CAVITY

CAD REF 8-6 - 20
SCALE 1:5
ROOF/ WALL JUNCTION DETAIL - 20mm CAVITY

- building underlay over roofing membrane
- Celcrete 50mm panel
- 300mm long H3.2 batten tie.
- roof flashing secured to solid nog, min 115mm behind wall underlay
- rendertek external mesh plaster system & paint system
- Celcrete PVC base cap moulding
- 150mm min membrane upstand
- 35mm min membrane roofing by others
- roofing underlay up to underside of membrane flashing
- solid nog
- fillet corner

Celcrete Panel Veneer System
Issue Date: Sept 2012
Where cables penetrate cladding, a sleeve or conduit shall be provided and sealed into the celcrete 50mm panel system. All wires that pass through a conduit shall be sealed into position inside the conduit.
When installing window tape apply pressure along entire surface for a good bond to wall and meter box surfaces.

COMMENT:
Where possible, meter-boxes should be located in sheltered areas of the building, such as a porch, or be installed behind a weatherproof glazed panel.

When installing window tape apply pressure along entire surface for a good bond to wall and meter box surfaces.

Care must be taken to ensure that when using low expandable PU foam excess foam is cut off. A moisture compatible flexible sealant is to be spread over the exposed foam edge.

Detail tape may need to be used around the corners of the meterbox to ensure weathertightness.

PENETRATION THROUGH CELCRETE WALL CLADDINGS FOR METER BOXES - 20mm CAVITY

Celcrete Panel Veneer System
Issue Date: Sept 2012
300mm long H3.2 batten tie.

Celcrete 50mm panel
rendertek external mesh plaster system & paint system

20mm cavity
wall underlay

flexible flashing tape over flashing

90x45mm packer under PFC or other lintel

Celcrete PVC window head moulding

aluminium head flashing with 15° slope and 5mm min gap above head flashing with 20mm fold to ends

silicone bead between bottom of head flashing and timber garage door head

TIMBER GARAGE DOOR HEAD DETAIL - 20mm CAVITY
SECTIONAL VIEW OF GARAGE DOOR-HEAD
CAD REF 13-1 - 20
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012
STD TIMBER JAMB GARAGE DOOR DETAIL - 20mm CAVITY

Celcrete Panel Veneer System
Issue Date: Sept 2012

Celcrete 50mm panel
rendertek external mesh plaster system & paint system
20mm cavity
wall underlay
300mm long H3.2 batten tie.
DPC as per NZS 3604
paintable urethane sealant

Celcrete Panel Veneer System
Issue Date: Sept 2012
proprietary artificial stone cladding system with dry cavity

20mm cavity

breather type building wrap as installed by the builder

vertical 50mm x 20mm ventilated EPS battens

mortar or sealant over PEF rod

Celcrete 50mm Panel

Rendertek external mesh plaster system & paint system

Protecto EIFS tape to be adhered to EZpanel backing substrate and fibre cement backing prior to plastering. EIFS tape to cover each surface by a minimum of 100mm

VERITCAL JOINT ARTIFICIAL STONE VENEER
- 20mm CAVITY
PLAN VIEW OF JOINT

CAD REF 13-3 - 20
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012