Product Description and Building System Details

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# CELCRETE PANEL VENEER SYSTEM

## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Description</td>
<td>2</td>
</tr>
<tr>
<td>Performance</td>
<td>3</td>
</tr>
<tr>
<td>Design Considerations</td>
<td>4</td>
</tr>
<tr>
<td>Components</td>
<td>5</td>
</tr>
<tr>
<td>Installation</td>
<td>7</td>
</tr>
<tr>
<td>External Plaster and Paint System</td>
<td>11</td>
</tr>
<tr>
<td>Maintenance</td>
<td>12</td>
</tr>
<tr>
<td>Construction Details</td>
<td>13</td>
</tr>
<tr>
<td>Plaster and Paint Specifications</td>
<td>Appendix 1</td>
</tr>
<tr>
<td>Pre-Cladding Checklist</td>
<td>Appendix 2</td>
</tr>
<tr>
<td>Pre-Coating Checklist</td>
<td>Appendix 3</td>
</tr>
</tbody>
</table>
CELCRETE PANEL VENEER SYSTEM

General Description
An exterior wall system comprising autoclaved aerated concrete masonry panels 50mm thick and reinforced with vertical and horizontal corrosion protected steel wires. It is suitable for the external walls of both single and two storeyed residential and light commercial buildings. After fixing, the external surfaces are coated with a reinforced plaster system (see Appendix 1 for Plaster & Paint Specifications).

CELCRETE PANEL VENEER SYSTEM is the innovative marriage of this well proven masonry material with New Zealand lightweight timber or steel framing construction & external plaster finish.

The panels are fixed to the timber wall frame of the building using either a 40x40x200mm H3.2 timber batten tie that creates a 40mm cavity between the panels and the framing or a 20x40x300mm batten tie that creates a 20mm cavity between the panels and framing. The panels are 600mm wide, with a dry density of 500kg/m3, about 1/5th that of concrete. CELCRETE 50mm veneer panels are available in a standard length of 2200mm.

Material Properties – 50mm Panel
CELCRETE PANELS have the following material properties:

- **Dry Density:** 500kg/m³
- **Working Density** 610kg/m³
- **Compressive strength, f’c:** 4.0 MPa
- **Modulus of Elasticity, E:** 1500MPa
- **Water absorption (by volume):** up to 24 – 35%
- **Thermal Conductivity:** 0.114 W/(mK)
- **Thermal Resistivity, R:** 0.56 m²K/W
CELCRETE PANEL VENEER SYSTEM

Performance

THE CELCRETE PANEL VENEER SYSTEM fixed in accordance with the details and instructions in this Technical Manual will meet the relevant clauses of the New Zealand Building Code (NZBC) being:
- B1 – Structure
- B2 – Durability
- E2 – External Moisture
- F2 – Hazardous Building Materials

Structure:

The panels and their fixings are able to withstand earthquake and wind loadings (up to and including extra high) in all areas of New Zealand in terms of NZS 3604:2011. The CELCRETE PANEL VENEER SYSTEM can also be used in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 2.5kPa.

Durability:

When installed and maintained in accordance with this technical information as an exterior wall cladding system, the CELCRETE PANEL VENEER SYSTEM will meet the requirements of NZBC Clause B2.3.1(b).

External Moisture:

Provided that the integrity of the external plaster and coating system, flashings and any sealed joints are maintained, the requirements of clause E2.3.2 relating to the resistance of water penetration, are met by the system.

Maintenance: To ensure the integrity of the coating system is maintained, regular cleaning and inspections of the jointing and coating systems, plasters, flashings and any sealed joints must be carried out to ensure they remain in a weatherproof condition and routine maintenance performed as and when required. Any damage to the coating system must be promptly repaired by an approved applicator.

Hazardous Building Materials:

CELCRETE PANELS are non-hazardous in terms of Clause F2 of the NZBC providing the safety precautions included in this literature are adhered to.

Mass:

The working density of 50mm CELCRETE PANELS without the coating system is 31 kg/m². The weight per panel is 41kg. Once the coating system is applied the total weight is approximately 36kg/m² and the overall mass is within the range for medium wall cladding defined in NZS 3604:2011

Insulation:

Insulation is installed to meet the requirements set out in H1/AS1. The CELCRETE PANEL VENEER SYSTEM alone does not meet NZBC Acceptable Solution E3/AS1, Paragraph 1.1.1(a). Buildings must be designed with an adequate combination of thermal resistance and ventilation, and space temperature must be provided to all habitable spaces, laundries and other spaces where moisture may be generated or may accumulate.
**Design Considerations**  
(CAD REFs relate to 40mm Cavity System)

**General:**
While CELCRETE PANELS can be readily cut to sizes to suit, maximum efficiency and speed of installation is gained where wall and soffit heights and window and door openings are set out to a vertical 600mm module as panels are fixed horizontally. This is best established at the design stage, with due allowance being made for the corner details (CAD REF 3-1) and floor rebate or overhang of the floor slab.

**Footings:**
CELCRETE PANEL VENEER SYSTEM can be a used in place of thin sheet cladding material eg. fibre cement sheeting or polystyrene cladding and fixed with a 40mm or 20mm cavity on a timber frame. The panel shall be sat on a rebated step down in a similar manner to that provided for brick veneer, or alternatively shall be fixed with an overhang of the concrete slab or timber base (CAD REFs 4-1, 4-2, 4-3 & 4-4) in accordance with NZS 3604: 2011 Section 6.

**Framing:**
Timber studs shall be spaced at nominal 600 mm centres. Studs shall be sized as normal to suit the wind loadings, vertical loading and stud height in accordance with NZS 3604: 2011 Section 8 (see Appendix 2 and 2a for Pre-Cladding Checklist). All timber framing treatment is to comply with NZBC Acceptable Solution B2/AS1.

**Damp Proof Course:**
DPC to be in accordance with NZS 3604:2011 Section 2.3.3.

**Bracing:**
The timber framed walls shall be braced for a medium weight wall cladding in accordance with NZS 3604:2011 Section 5.

**Wall Underlays:**
Wall underlay to comply with Acceptable Solution E2 / AS1 Table 23 must be fixed to the exterior wall framing in accordance with Section 9.1.7 of E2 / AS1 before the CELCRETE PANELS are installed. Rigid underlay is required in Extra High Wind Zone and specifically designed buildings up to 2.5kPa design differential ULS wind pressure. Unlined gables and walls must incorporate a rigid wall underlay or an air barrier which meets the requirements of NZBC Acceptable Solution E2/AS1, Table 23. For attached garages, wall underlays must be selected in accordance with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.3.4. Where rigid wall underlays up to 7mm thick are used, the 33mm Celcrete battens must be used. Where rigid underlay greater than 7mm are used, the cavity batten fixing lengths must be increased by a minimum of the thickness of the underlay.

**Control Joints:**
Horizontal control joints are used when timber joists are not seasoned (CAD REF 6-2). Inter-storey drained joints are used when wall height exceeds two storeys or 7m (CAD REF 6-3). If the distance between corners exceeds 8m then vertical control joints shall be located in line with window and door openings and at the sides of any large penetrations such as ranch sliders or garage doors (CAD REF 6-1). Non-expressed control joints are located at internal and external corners. These joints require 4-8mm gaps between panels that are injected with low expandable PU foam (CAD REFS 5-1 & 5-2).

**Two storeyed construction:** CELCRETE PANELS can be used for two storeyed construction when fixed in accordance with the detail in CAD REF 3-3.
Components
NOTE: Only components specified by CELCRETE are to be used in the CELCRETE PANEL VENEER SYSTEM and all references to components in the CAD details are for these products. All components are supplied to trained installers by Licensed Celcrete Distributors.

Panels:
600x2200x50mm autoclaved aerated concrete panels that are reinforced with vertical and horizontal corrosion protected steel wires.

Nails:
75mm galvanised ringshank nails are used to fix the timber batten ties to the framing. All nails to comply with Acceptable Solution E2 / AS1 Table 20.

Screws:
10x75mm stainless steel screws are used for fixing the 50mm panels to the timber batten ties. All screws to comply with Acceptable Solution E2 / AS1 Table 20. They are suitable for all New Zealand conditions providing that they are fixed through the face of the panel and embedded a minimum of 5mm, and that the panel receives a RENDERTEK external plaster finish and paint finish that is properly maintained. Screws are positioned a minimum of 40mm in from the top and bottom edges of the panels.

Mortar Glue:
CELCRETE Mortar Glue is supplied by CELCRETE for use in the jointing and stopping of CELCRETE PANELS. This mortar is mixed on site and applied with the aid of a trowel.

Sealants:
Low expandable PU foam for use in control joints of CELCRETE PANELS. Paintable urethane sealant. All sealants shall comply with E2/AS1 Section 9.1.6 or be covered by a valid BRANZ Appraisal.

Zinc Primer:
Zinc primer complying with AS/NZS 2311:2000, Part 2.3 is applied to all exposed reinforcing steel.

Vents: (CAD REF 1-3)
Celcrete PVC vents are 110mm x 40mm (opening size) with vermin gauze.

Battens: (CAD REFS 2-1, 2-2 & 2-3)
40x40x200mm H3.2 timber batten ties.
33x40x200mm H3.2 timber batten ties.
20x40x300mm H3.2 timber batten ties.

Flashings: (CAD REF 1-2)
Celcrete PVC reveal bead flashing
Celcrete PVC sill flashing
Powder coated aluminium head flashings
Mouldings: (CAD REFS 1-1 & 1-2)
Celcrete PVC window head moulding
Celcrete PVC soffit moulding.
Celcrete PVC base cap moulding
Control Joint moulding

Adhesive:
All PVC flashings and mouldings are glued to the CELCRETE PANELS using a solvent based construction adhesive.

Plaster System:
RENDETEK external mesh plaster system is used over CELCRETE PANELS (see Appendix 1 for plaster specifications).

Fibreglass reinforcing mesh:
Alkali-resistant fibreglass reinforcing mesh that complies with Paragraph 9.9.3.2 of E2/AS1 is embedded in the Rendertek plaster system.

Paint System:
Once plaster has cured a paint system of at least two coats of an exterior grade latex acrylic paint complying with any of Parts 7,8,9 or 10 of AS3730 is applied (see Appendix 1 for paint specifications).
CELCRETE PANEL VENEER SYSTEM

Installation
General:
CELCRETE PANEL VENEER SYSTEM must be constructed or supervised by trained and certified installers to ensure quality of workmanship. Please contact Celcrete International for details of Licensed Celcrete Distributors on 0508 CELCRETE (0508 2352 7383)

Handling & storage:
CELCRETE PANELS should be stored on site on the pallets provided and kept dry until required. Care is required in handling the product and edges and corners must be protected from damage.

Safety precautions:
Autoclaved Aerated Concrete (AAC) dust contains crystalline silica in common with the dust from other concrete products including fibre cement products. This dust is irritating to the eyes, skin and respiratory system and inhalation may cause irreversible damage to health. Avoid breathing the dust and contact with eyes and skin. Wear suitable protective clothing and gloves.
When cutting, grinding or drilling panel do so in the open air or in well ventilated spaces and wear approved safety glasses and dust mask. All aspects of cutting, grinding or drilling must comply with the latest regulations of the Occupational Safety & Health (OSH) division of the Labour Department.

Tools:
Tools that will be required to install CELCRETE PANELS include:
- Power drill with square drive
- Power saw with metal or diamond blade.
- Power planer
- Nail gun
- Safety glasses & dust mask
- Mortar mixer & bucket
- 50mm spreader trowel
- Stopping blade & sanding float
Construction Method 1 – Rebated Step-down:

1. Ensure builder has completed items set out in pre-cladding checklist (see Appendix 2).

2. Check to ensure framing is straight and plumb with a straight edge, especially corner studs, and is sheathed with wall underlay in accordance with Acceptable Solution E2/AS1 Table 23.

3. Measure 600mm up the stud from the step down of the footing then mark a horizontal line around the building. Repeat this method at 600mm intervals up to the soffit line or top plate (CAD REF 3-1).

4. Nail 200mm long x 40mm thick or 300mm long x 20mm thick H3.2 timber batten ties vertically with two nails, firstly from the bottom of the bottom plate, in line with studs. In extra high wind zones three nails per batten tie are required. Repeat this method on existing chalk lines, at 600mm centres, so that the batten ties are centralised. Batten ties can be planed to allow for any irregularities in the framing. In areas where there is face-mounted brace ply substitute the 40mm thick batten ties for 33mm thick batten ties. When using a 20mm thick batten tie brace ply must be checked in flush with the framing.

5. Calculate the quantity of panels required for the first course around the building. Making allowances for window and door openings cut slots for PVC vents (110mm long x 40mm high) into the bottom of the panels at a maximum of 1200mm intervals.

6. Spread Celcrete mortar glue onto rebate (approx 2-3mm thick) and starting from a corner place the first panel, horizontally, onto the mortar. Using a spirit level ensure panel is level and is flush with the rebate edge. Push the panel hard against the batten ties and screw fix through the exterior face into the 200mm or 300mm long H3.2 batten ties, a minimum of 400mm in from the edge of the panel. The screw must be wound into the panel until the head is embedded by 5mm and a minimum of six screws are required per panel. Panels must span a minimum of two studs, cantilevered a maximum of 500mm beyond the stud.

7. Spread Celcrete mortar glue 2-3mm thick along the vertical edge of the panel and abut the next panel hard against the fixed panel. Ensure this panel is level also and screw to batten ties as before. This procedure is repeated around the perimeter of the building.

8. Spread Celcrete mortar glue, approx 2-3mm thick along the top edge of the first row of panels, approx. one panel length at a time. Lay the next row of panels with a half or quarter stretcher bond, then screw panels to timber batten ties as before.

9. Panels must be cut to size so that wherever possible no reinforcing steel is exposed to openings or corners. Where exposed it must be treated with zinc primer.

10. At window and door openings fix sill flashings and window head mouldings to edge of panels prior to screwing panels to timber batten ties (CAD REFs 7-1, 7-3 & 7-6).

11. For non-expressed control joints on external corners extend the panels 90mm for a 40mm cavity or 70mm for a 20mm cavity past the corner of the framing with the abutting panel installed, end to side, with a 4-8mm gap which shall be injected with a low expandable PU foam (CAD REF 5-1). For non-expressed control joints at internal corners panels abut, end to side, with a 4-8mm gap and they shall be filled in the same way as external control joints (CAD REF 5-2).

12. When installing Celcrete panels around window and door openings wherever possible abut the factory edge of the panel into the joinery. Where cut panels are abutting the aluminium joinery, any exposed steel reinforcing must be treated with zinc primer. Where
openings are over 2.2m in length and panels are abutting the joinery make sure that the factory edge on the off-cut panel is abutting the joinery.

**Construction Method 2 – Panels Overhanging Foundation:**

1. Ensure the builder has completed items set out in pre-cladding checklist (see Appendix 2).

2. Check to ensure framing is straight and plumb with a straight edge, especially corner studs and is sheathed with wall underlay in accordance with Acceptable Solution E2/AS1Table 23.

3. Measure a minimum of 50mm down from floor level and mark with a chalk line, then measure up 600mm from this line and mark a horizontal line around the building. Repeat this method at 600mm intervals up to the soffit line of top plate.

4. Starting from the baseline nail the 200mm long x 40mm thick or 300mm long x 20mm thick H3.2 timber batten ties, vertically, to the studs (two nails per batten tie or three nails per batten tie in extra high wind zones). Repeat this method on marked chalk lines at 600mm centres, so that the batten ties are centralised. Batten ties can be planed to allow for any irregularities in the framing. In areas where there is face-mounted brace ply substitute the 40mm thick H3.2 batten ties for 33mm thick batten ties. When using a 20mm thick H3.2 batten tie brace ply must be checked in flush with the framing.

5. Starting from a corner place the first Celcrete panel horizontally on to timber support blocks, if required, and using a spirit level ensure the panel is level. Push the panel hard against the batten ties and screw fix through the exterior face into the 200mm long H3.2 batten ties, a minimum of 40mm in from the edge of the panel. The screw must be wound into the panel until the head is embedded by 5mm and a minimum of six screws are required per panel. Panels must span a minimum of two studs, cantilevered a maximum of 500mm beyond the stud.

6. Spread Celcrete mortar glue, 2-3mm thick along the vertical edge of the panel and abut the next panel hard against the fixed panel. Ensure this panel is level also and screw to batten ties as before. This procedure is repeated around the perimeter of the building.

7. Fix the Celcrete PVC base cap/vermin strip to the bottom edge of the panels (CAD REF 4-2) using a solvent based construction adhesive.

8. Spread Celcrete mortar glue, approx. 2-3mm thick along the top edge of the first row of panels, approx. one panel length at a time. Lay the next row of panels with a half or quarter stretcher bond, then screw panels to timber batten ties as before.

9. Panels must be cut to size so that wherever possible no reinforcing steel is exposed to openings or corners. Where exposed it must be treated with zinc primer.

10. At window and door openings fix sill flashings and window head mouldings to edge of panels prior to screwing panels to timber batten ties (CAD REFS 7-1, 7-3 & 7-6).

11. For non-expressed control joints on external corners extend the panels 90mm for a 40mm cavity or 70mm for a 20mm cavity past the corner of the framing with the abutting panel installed, end to side, with a 4-8mm gap which shall be injected with a low expandable PU foam (CAD REF 5-1). For non-expressed control joints at internal corners panels abut, end to side, with a 4-8mm gap and they shall be filled in the same way as external control joints (CAD REF 5-2)
12. When installing Celcrete panels around window and door openings wherever possible abut the factory edge of the panel into the joinery. Where cut panels are abutting the aluminium joinery, any exposed steel reinforcing must be treated with zinc primer. Where openings are over 2.2m in length and panels are abutting the joinery make sure that the factory edge on the off-cut panel is abutting the joinery.

**PVC Flashings / Mouldings:**
All PVC flashings and mouldings are glued to the CELCRETE PANELS using a solvent based construction adhesive.
Celcrete window head mouldings are fixed above all openings (excluding meter box) (CAD REF 7-1).
Celcrete sill flashings are fixed below openings (CAD REF 7-3).
Celcrete PVC reveal bead are fixed to jambs (CAD REF 7-2).
Celcrete base cap moulding are fixed to bottom of panels in all situations where panel is overhanging foundation (CAD REF 4-2, 4-3 & 4-4), overhanging roofs (CAD REF 8-1) and any other area (other than openings) where panel is not sitting on rebate (CAD REFS 9-2 & 12-2).
Celcrete soffit mouldings are fixed to soffit edge (CAD REF 8-2).
Control joint mouldings are used when seasoned joists have not been used (CAD REF 6-2).
They are also used for vertical and horizontal control joints (CAD REF 6-1).
Celcrete vents are fitted once plastering is completed.

**Openings:**
Typical window details are shown in CAD REFS 7-1, 7-1a, 7-2, 7-3, 7-4, 7-5 & 7-6.
Panels over doors and windows shall be as provided or cut from full CELCRETE PANELS.

**Penetrations:**
Typical penetrations are shown in CAD REFS 11-1 & 11-2.

**Corners:**
CELCRETE PANELS are butted together, end to side, at corners allowing for a 4-8mm non-expressed control joint (CAD REFS 5-1 & 5-2).

**Control joints:**
Non-expressed control joints are formed at external and internal corners by separating adjacent panels by 4-8mm and the gap filled with a low expandable PU foam (CAD REFS 5-1 & 5-2). If the distance between corners exceeds 8m then vertical control joints are located in line with window and door openings and at the sides of large penetrations such as garage doors and ranch sliders (CAD REF 6-1). Horizontal control joints are required if seasoned joists have not been used (CAD REF 6-2). Inter-storey drained joints are required if wall height exceeds two storeys or 7m (CAD REF 6-3).

CELCRETE PANELS cannot be used for retaining walls or in any situation where they come into contact with the ground.
CELCRETE PANEL VENEER SYSTEM

External Plaster and Paint System
(See Appendix 1 for Plaster and Paint Specifications)

General:
Rendertek Plaster is the only plaster system to be applied over CELCRETE. It is a specially formulated polymer modified cement based plaster system with a fibreglass reinforcing mesh trowelled into the first coat.

Preparation:
Full and thorough preparation of the CELCRETE PANELS must be carried out prior to the application of the Rendertek Plaster. Ensure all items listed on pre-coating checklist have been completed (see Appendix 3).

Application of Plaster:
The Rendertek Plaster system is only to be applied by an applicator approved by CELCRETE INTERNATIONAL.
Before commencing application the applicator must ensure that all required preparation has been carried out and that the CELCRETE PANELS are suitably dry and ready for the application.
Apply the base coat of plaster with the reinforcing mesh trowelled in. Apply the second coat to bring the plaster to a flat and level finish.
Allow the plaster to dry before applying a further finishing coat of plaster if a decorative finish is required.

Application of Paint:
After plaster has cured a paint system of at least two coats of an exterior grade latex acrylic paint complying with any of parts 7,8,9 or 10 of AS3730 is applied to provide colour and water protection. CELCRETE INTERNATIONAL recommends Dulux Acra Tex 968 Elastomeric 201.
CELCRETE PANEL VENEER SYSTEM

Maintenance:

Regular maintenance is essential to ensure that the performance requirements of the NZBC are continually met.

An annual inspection must be made to ensure that all aspects of the cladding system are in a weatherproof condition. This means that the paint coating system, plaster, flashings and all sealed joints must be thoroughly checked to confirm that they are still weathertight. All cracks, damaged areas or areas showing signs of deterioration which would allow water ingress must be repaired immediately. These areas must be repaired with materials specified by CELCRETE. Sealant, paint coatings etc. must be repaired in accordance with manufacturer’s specifications.

Please contact CELCRETE INTERNATIONAL on 0508 CELCRETE (0508 2352 7383) for a list of CELCRETE materials and for information on carrying out any repairs that may be required.

Annual cleaning of the paint coating by washing down with warm water, detergent and a soft brush shall be carried out to maximise the life of the coating. The paint coating system shall be recoated approx, every 5-10 years in accordance with manufacturer’s specifications.

It is essential that the CELCRETE PANELS maintain the minimum ground clearance at all times in accordance with the details and specifications set out in this Technical Manual.
CELCRETE PANEL VENEER SYSTEM

The following construction details describe the most commonly used applications of the CELCRETE PANEL VENEER SYSTEM. If designers / specifiers require additional or modified details please contact Celcrete International immediately on: 0508 CELCRETE (0508 2352 7383).

1-1 Mouldings & flashings
1-2 Mouldings & flashings
1-3 Celcrete vent

2-1 Celcrete batten ties – 40mm cavity
2-2 Celcrete batten ties for ply brace sheets
2-3 Celcrete batten ties – 20mm cavity

40mm cavity details

3-1 Celcrete panel veneer system fixing details
3-2 Single storey section
3-3 Two storey section

4-1 Rebated step down footing detail
4-2 Overhanging footing detail
4-3 Timber floor detail
4-4 Timber floor detail
4-5 Mid concrete floor junction
4-6 Mid timber floor junction
4-7 Mid timber floor junction alternative detail

5-1 Celcrete panel external corner junction
5-2 Celcrete panel internal corner junction

6-1 Vertical control joint
6-2 Horizontal control joint
6-3 Inter-storey joint detail

7-1 Aluminium window head
7-1a Aluminium window head
7-2 Aluminium window jamb
7-3 Aluminium window sill with window support bar
7-4 Alternative sill detail
7-5 Standard door sill detail
7-6 Typical panel layout around windows

8-1 Roof / wall junction detail
8-2 Soffit edge detail
8-3 Exposed monoplane roof & soffit junction
8-4 Exposed monoplane roof & soffit junction
8-5 Celcrete panel clipped eaves detail
8-6 Celcrete panel soffit eaves junction detail
8-7 Roof kickout flashing
8-8 Roof / wall junction detail
<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-1</td>
<td>Deck barrier detail</td>
</tr>
<tr>
<td>9-2</td>
<td>Deck barrier detail</td>
</tr>
<tr>
<td>9-3</td>
<td>Deck barrier / handrail fixing detail</td>
</tr>
<tr>
<td>9-4</td>
<td>Celcrete panel corner junction at solid handrail</td>
</tr>
<tr>
<td>9-5</td>
<td>Solid handrail / wall intersection</td>
</tr>
<tr>
<td>9-6</td>
<td>Corner junction with fibre cement lining at solid h/rail</td>
</tr>
<tr>
<td>9-7</td>
<td>Rainwater head opening detail</td>
</tr>
<tr>
<td>9-8</td>
<td>Pergola wall plate fixing</td>
</tr>
<tr>
<td>9-9</td>
<td>Pergola rafter support bracket detail</td>
</tr>
<tr>
<td>9-10</td>
<td>Solid handrail / wall intersection</td>
</tr>
<tr>
<td>10-1</td>
<td>Post/beam detail</td>
</tr>
<tr>
<td>11-1</td>
<td>Penetration through wall cladding for pipes</td>
</tr>
<tr>
<td>11-2</td>
<td>Penetration through wall cladding for meter boxes</td>
</tr>
<tr>
<td>12-1</td>
<td>Parapet capping detail</td>
</tr>
<tr>
<td>13-1</td>
<td>Timber garage door head detail</td>
</tr>
<tr>
<td>13-2</td>
<td>Timber garage door jamb detail</td>
</tr>
<tr>
<td>14-1</td>
<td>Celcrete cavity abutting hor. timber weatherboards</td>
</tr>
<tr>
<td>14-2</td>
<td>Celcrete panel external corner with hor. timber weatherboards</td>
</tr>
<tr>
<td>14-3</td>
<td>Celcrete panel internal corner with hor. timber weatherboards</td>
</tr>
<tr>
<td>15-1</td>
<td>Celcrete cavity abutting titan board</td>
</tr>
<tr>
<td>16-1</td>
<td>Celcrete cavity abutting hor. corrugated iron</td>
</tr>
<tr>
<td>17-1</td>
<td>Celcrete planking junction</td>
</tr>
<tr>
<td>17-2</td>
<td>Celcrete abutting planking</td>
</tr>
<tr>
<td>18-1</td>
<td>Brick veneer below celcrete panel veneer junction</td>
</tr>
<tr>
<td>18-2</td>
<td>Brick veneer abutting celcrete panel veneer junction</td>
</tr>
<tr>
<td>18-3</td>
<td>Celcrete / brick internal corner junction</td>
</tr>
<tr>
<td>18-4</td>
<td>Celcrete / brick external corner junction</td>
</tr>
<tr>
<td>19-1</td>
<td>Celcrete panel / concrete block vertical junction detail</td>
</tr>
<tr>
<td>19-2</td>
<td>Celcrete panel / concrete block internal corner junction</td>
</tr>
<tr>
<td>19-3</td>
<td>Celcrete panel / concrete block external corner junction</td>
</tr>
</tbody>
</table>
### Selected 20mm cavity details

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1-20</td>
<td>Panel veneer system fixing details</td>
</tr>
<tr>
<td>3-1-20a</td>
<td>Panel veneer system fixing details</td>
</tr>
<tr>
<td>3-2-20</td>
<td>Single storey section</td>
</tr>
<tr>
<td>4-1-20</td>
<td>Rebated step-down footing detail</td>
</tr>
<tr>
<td>4-2-20</td>
<td>Overhanging footing details</td>
</tr>
<tr>
<td>5-1-20</td>
<td>Celcrete panel external corner junction</td>
</tr>
<tr>
<td>5-2-20</td>
<td>Celcrete panel internal corner junction</td>
</tr>
<tr>
<td>7-1-20</td>
<td>Aluminium window head</td>
</tr>
<tr>
<td>7-1a-20</td>
<td>Aluminium window head</td>
</tr>
<tr>
<td>7-2-20</td>
<td>Aluminium window jamb</td>
</tr>
<tr>
<td>7-3-20</td>
<td>Aluminium window sill</td>
</tr>
<tr>
<td>8-2-20</td>
<td>Soffit edge detail</td>
</tr>
<tr>
<td>8-3-20</td>
<td>Exposed monoplane roof &amp; soffit junction</td>
</tr>
<tr>
<td>8-6-20</td>
<td>Celcrete panel soffit eaves junction</td>
</tr>
<tr>
<td>8-8-20</td>
<td>Roof / wall junction detail</td>
</tr>
<tr>
<td>11-1-20</td>
<td>Penetration through wall cladding for pipes</td>
</tr>
<tr>
<td>11-2-20</td>
<td>Penetration through wall cladding for meter boxes</td>
</tr>
<tr>
<td>13-1-20</td>
<td>Timber garage door head detail</td>
</tr>
<tr>
<td>13-2-20</td>
<td>Timber garage door jamb detail</td>
</tr>
</tbody>
</table>

### Appendix

- **Appendix 1**: Plaster and Paint Specifications
- **Appendix 2 & 2a**: Builders Checklist
- **Appendix 3**: Pre-Coating Checklist
40mm CAVITY DETAILS
SOFFIT MOULDING

WINDOW HEAD / BASE CAP MOULDING 40mm

WINDOW HEAD / BASE CAP MOULDING 20mm

Celcrete Panel Veneer System
Issue Date: Sept 2012
50mm HOLLOW SILL FLASHING

CONTROL JOINT MOULDING

REVEAL BEAD

self adhesive foam tape

Cadetra Panel Veneer System
Issue Date: Sept 2012
75mm galv D-head ring shank nail fixing to 40x40x200mm H3.2 timber batten tie

CELCRETE BATTEN TIES - 40mm CAVITY

H3.2 timber
CAD REF 2-1
SCALE 1:10
CELCRETE BATTEN TIES FOR 7mm PLY BRACE SHEETS

H3.2 timber
CAD REF 2-2
SCALE 1:10

Celcrete Panel Veneer System
Issue Date: Sept 2012
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

CELCRETE PANEL VENEER SYSTEM

CAD REF 3-1
SCALE 1:20

Celcrete Panel Veneer System
Issue Date: Sept 2012
SINGLE STOREY SECTION

CAD REF 3-2
SCALE 1:20

Celcrete Panel Veneer System
Issue Date: Sept 2012
TWO STOREY SECTION

timber framing

wall underlay

selected interior lining

40mm cavity

40x40x200mm long H3.2 timber batten ties @ 600mm cc

CAD REF 3-3
SCALE 1:20

DPC as per NZS 3604

25 series concrete block perimeter

reinforced concrete footing as per NZS 3604

Celcrete Panel Veneer System
Issue Date: Sept 2012
REBATED STEP-DOWN FOOTING DETAIL

CAD REF 4-1
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
OVERHANGING FOOTING DETAIL

Celcrete Panel Veneer System
Issue Date: Sept 2012

CAD REF 4-2
SCALE 1:5
Celcrete Panel Veneer System
Issue Date: Sept 2012

NOTE: Ventilation openings to provide minimum ventilation of 1000m² per lineal metre of wall

TIMBER FLOOR DETAIL
CAD REF 4-3
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
NOTE: Ventilation openings to provide minimum ventilation of 100mm² per lineal metre of wall

Celcrete Panel Veneer System
Issue Date: Sept 2012

Celcrete PVC base cap moulding

40x40x200mm long H3.2 batten tie.

DPC as per NZS 3604

selected flooring on subfloor framing

Cadre 50mm panel

Rendertek external mesh plaster system & paint system

Bearer on DPC

Vent strip with 15mm drip edge

Sub floor cladding with ventilation openings as per NZS 3604

Sub floor timber pile as per NZS 3604

175mm min

100mm min

100mm min

50mm min

175mm min

Pavers

Ground
MID CONCRETE FLOOR JUNCTION

Celcrete 50mm panel

rendertek external mesh plaster system & paint system

200mm long H3.2 batten tie.

vents @ 1200mm max, PVC control joint moulding, glue fixed to panel between vents

DPC as per NZS 3604

CONTROL JOINT & VENT ELEVATION

Celcrete panel

PVC control joint moulding, glue fixed to panel between vents

Celcrete vent

block wall

Celcrete Panel Veneer System
Issue Date: Sept 2012
TIMBER FLOOR JUNCTION

CAD REF 4-6
SCALE 1:5

1.0mm Butynol under celcrete panels & extended min 100mm up floor framing (by licensed applicator)

ex.150mmx50mm H3.1 splay cut plate on DPC. treat cut edge

25 series concrete block top course

DPC as per NZS 3604

20 series concrete block

vent @ 1200mm max cc, PVC control joint moulding glue fixed to panel between vents

Celcrete panel

PVC control joint moulding, glue fixed to panel between vents

Celcrete vent

CONTROL JOINT & VENT ELEVATION
SCALE 1:20

Celcrete Panel Veneer System
Issue Date: Sept 2012
TIMBER FLOOR JUNCTION
ALTERNATIVE DETAIL

CAD REF 4-7
SCALE 1:5

CONTROL JOINT & VENT ELEVATION
SCALE 1:20

Celcrete panel
PVC control joint
moulding, glue fixed
to panel between vents
Celcrete vent
block wall

DPC as per NZS 3604

vent @ 1200mm max cc,
PVC control joint moulding
glue fixed to panel
between vents

200mm long H3.2 batten tie.

20 series
concrete block

dPC as per NZS 3604

celcrete 50mm panel

celcrete 50mm panel

40mm cavity

framing timber

wall underlay

floor joists

1200mm cc max

100min

50min

min
Celcrete Panel Veneer System
Issue Date: Sept 2012

CELCRETE PANEL  EXTERNAL CORNER JUNCTION

CAD REF 5-1
SCALE 1:5

- framing timber
- low expandable PU foam [4-8mm gap]
  non expressed control joint plastered over
- PVC corner bead with 100mm x 100mm mesh to external corners
- rendertek external mesh plaster system & paint system
- wall underlay continuous around corner
- 40mm cavity
- H3.2 batten tie.
- celcrete 50mm panel
CELCRETE PANEL  INTERNAL CORNER JUNCTION

framing timber

wall underlay continuous around corner

H3.2 batten tie.

40mm 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

builder to supply and install additional stud

200mm

CELCRETE PANEL  INTERNAL CORNER JUNCTION

CAD REF 5-2
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
VERTICAL CONTROL JOINT DETAIL - MAXIMUM 8m CRS

Celcrete Panel Veneer System

Issue Date: Sept 2012
PVC control - joint moulding, glue fixed to panel

low expandable foam installed between panel sheets

H3.2 battens ties @ 600mm max. above & below joint

PVC control joint moulding (refer detail above)

H3.2 batten ties @ 600mm cc max.

HORIZONTAL CONTROL JOINT
( used where timber joists are not seasoned)

CAD REF 6-2
SCALE 1:20

Celcrete Panel Veneer System
Issue Date: Sept 2012
INTER-STOREY JOINT DETAIL
WHEN EXCEEDING TWO STOREYS OR 7m

NOTE: Required when wall height exceeds two storeys or 7m

Celcrete base cap moulding sitting 5mm above Z flashing to allow water to drain

15° slope to inter-storey flashing

35mm min. cover to both

additional building underlay dressed over flashing

building underlay

Celcrete panels

Celcrete base cap moulding sitting 5mm above Z flashing to allow water to drain

35mm min. cover to both

NOTE: Required when wall height exceeds two storeys or 7m

Celcrete Panel Veneer System
Issue Date: Sept 2012
ALUMINIUM WINDOW HEAD

CAD REF 7-1
SCALE 1:2
Celcrete Panel Veneer System
Issue Date: Sept 2012

75mm galvanized ring shank nails
40x40x200mm 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
40mm 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.

WINDOW FIXING: Refer to E2/AS1 paragraph 9.1.10.8.

ALUMINIUM WINDOW HEAD

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

UPSTAND

10mm
15mm
15 deg

10mm
15mm
62mm
50mm

40mm cavity

45mm
35mm
5mm min

40mm

7.5mm

75mm stainless steel screws

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

Flexible flashing tape over flashing

Wall underlay continuous into opening

75mm galvanized ring shank nails

40x40x200mm long H3.2 batten tie.

Celcrete 50mm panel

Cellcrete panel veneer system & paint system.
ALUMINIUM WINDOW HEAD

CAD REF 7-1-a
N.T.S.

Celcrete Panel Veneer System
Issue Date: Sept 2012
Celcrete PVC reveal bead flashing adhered to face of aluminium joinery and plastered in.

Flexible flashing min 100mm up jamb.

100mm DPC strip over wall underlay both sides of window.

40x40x200mm long H3.2 batten tie.

Celcrete 50mm panel.

Rendertek external mesh plaster system & paint system.

40mm cavity.

Wall underlay folded into opening.

Air seal using low expandable PU foam installed over PEF rod.

Interior wall linings.

Jamb packer.

Plan View

Aluminium Window Jamb

CAD REF 7-2
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012
ALUMINIUM WINDOW SILL WITH WINDOW SUPPORT BAR

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

75mm galvanized ring shank nails
75mm stainless steel screws

Celcrete 50mm panel

40x40x200mm long H3.2 batten tie.

40mm cavity

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

WINDOW FIXING: Refer to E2/AS1 Paragraph 9.1.10.8
ALTERNATIVE SILL DETAIL

- **open between aluminium joinery and celcrete panel to allow water to escape**
- **sill packer**
- **REVEAL**
- **Celcrete PVC sill flashing**
- **rendertek external mesh plaster system & paint system**
- **sill block glued onto face of panel**
- **8mm min**
- **Celcrete 50mm panel**
- **40x40x200mm long H3.2 batten tie.**
- **40mm cavity**
- **drainage holes**
- **sill packer**
- **WANZ support bar**
- **air seal using low expandable PU foam installed over PEF rod**
- **flexible flashing tape continuous along sill, min 100mm up jambs and 50mm onto face of building underlay**
- **interior wall linings**
- **wall underlay**

**WINDOW FIXING:** Refer to E2/AS1 Paragraph 9.1.10.8
STANDARD DOOR SILL DETAIL

CAD REF 7-5
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
aluminium window flashing

on sides of all window openings

Celcrete window head moulding

DPC as per NZS 3604

40x40x200mm long H3.2 battens

Timber batten ties placed at 22° angle on sides of all window openings

Celcrete 6mm reveal bead

Celcrete hollow sill flashing

vents @ 1200mm cc max.

Celcrete Panel Veneer System

Issue Date: Sept 2012
solid nog
wall underlay over flashing upstand
Celcrete 50mm panel
200mm long H3.2 batten tie.
roof flashing secured to solid nog
rendertek external mesh plaster system & paint system
40mm cavity
Celcrete PVC base cap moulding
roof & flashing to E2/AS1
roofing by others

ROOF/ WALL JUNCTION DETAIL
CAD REF 8-1
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
SOFFIT EDGE DETAIL

- SOFFIT FRAMING
- wall underlay
- 200mm long H3.2 batten tie.
- Celcrete 50mm panel
- rendertek external mesh plaster system & paint system
- 40mm cavity
- Celcrete PVC soffit mould glued to Celcrete 50mm panel
- ms sealant bead
- soffit lining

SOFFIT EDGE DETAIL
CAD REF 8-2
SCALE 1:2

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
200mm long H3.2 batten tie
wall underlay
40mm cavity
framing timber

roofing to NZS 3604
roof framing timber

EXPOSED MONOPLANE ROOF & SOFFIT - CELCRETE PANEL JUNCTION

CAD REF 8-3
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
EXPOSED MONOPLANE ROOF & SOFFIT - CELCRETE PANEL JUNCTION

CAD REF 8-4
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
Celcrete Panel Veneer System
Issue Date: Sept 2012

CELCRETE PANEL  CLIPPED EAVES DETAIL
CAD REF 8-5
SCALE 1:5

- Wall underlay
- 40mm cavity
- Celcrete 50mm panel
- Rendertek external mesh plaster system & paint system
- Paintable sealant over PEF rod
- 40x40x200mm long H3.2 batten tie.
CELCRETE PANEL  SOFFIT EAVES JUNCTION DETAIL

CAD REF 8-6
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
Celcrete 50mm panel with rendertek external mesh plaster system & paint system

40mm cavity

apron flashing secured to solid nog, min 150mm behind wall underlay

celcrete PVC base cap moulding

stopend flashing by others

roofing by others

Transition tray by others

spouting to finish 10mm short of the finished wall face

fascia
ROOF/ WALL JUNCTION DETAIL

building underlay over roofing membrane
Celcrete 50mm panel
200mm 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
celcrete 50mm panel
40mm cavity
solid nog
fillet corner
membrane roofing by others

Celcrete Panel Veneer System
Issue Date: Sept 2012
Celcrete 50mm panel wall underlay continuous over top of frame solid nog 40x40x200mm long H3.2 batten tie.

prefinished Colorsteel capping fixed at sides
H3.1 timber wedge or fixing block, supplied by builder

solid nog
rendertek external mesh plaster system & paint system

DECK BARRIER DETAIL

CAD REF 9-1
SCALE 1:5

Deck waterproofing membrane by others - extend min. 200mm vertically
50x20mm H3.2 cavity batten
capping only)

20x20mm fillet

Celcrete 50mm panel

refer table 7 E2/AS1

5° min (with capping only)

Continuous building underlay under Colorsteel capping and wrapped over top of parapet down 100mm both sides

40x40x200mm long H3.2 batten tie.
solid nog
wall underlay continuous over top of frame
Celcrete 50mm panel
rendertek external mesh plaster system & paint system

solid nog

35mm min

20x20mm fillet

refer table 7 E2/AS1

Celcrete Panel Veneer System
Issue Date: Sept 2012
DECK BARRIER DETAIL

300mm max (for 15° slope)
30° slope for over 300mm

rendertek external mesh plaster system & paint system

40x40x200mm long H3.2 batten tie.

40mm cavity

Celcrete PVC basecap moulding

dep waterproofing membrane by others - extend min. 200mm vertically or min.150mm above bottom of Celcrete panel

wall underlay continuous over top of framing

celcrete 50mm panel

rendertek external mesh plaster system & paint system

solid nog

20x20mm fillet

mapei mapelastic flexible cementitious membrane over capping returned min. 100mm down sides. (mapei work must be done by licensed applicators.)

40x40x200mm long H3.2 batten tie.

35mm min

20x20mm fillet

DECK BARRIER DETAIL

CAD REF 9-2
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
DECK BARRIER / HANDRAIL FIXING DETAIL

CAD REF 9-3
SCALE 1:5

Proprietary handrail with mount plates

ex. 140x40mm H3.2 timber block at each mount plate location

S/S fixing screws with EPDM washers under head and between mount plate and plaster

Celcrete PVC base cap moulding
dock waterproofing membrane by others - extend min. 200mm vertically or min.150mm above bottom of Celcrete panel

300mm max (for 15° slope)
30° slope for over 300mm

15° min

40x40x200mm long H3.2 batten tie.

wall underlay continuous over top of framing

Celcrete 50mm panel

rendertek external mesh plaster system & paint system

solid nog

20x20mm fillet

mapei mapelastic flexible cementitious membrane over capping returned min. 100mm down sides.
(mapei work must be done by licensed applicators.)

Celcrete Panel Veneer System
Issue Date: Sept 2012
Celcrete Panel Veneer System

Issue Date: Sept 2012

PLAN VIEW

CELCRETE PANEL CORNER JUNCTION AT SOLID HANDRAIL

CAD REF 9-4
SCALE 1:5

(Also refer CAD REF 9-6)
TIMBER FRAMED HANDRAIL
as per NZS 3604

Step 1:
mapei mapelastic flexible cementitious membrane over capping returned min. 100mm down sides & min. 100mm up wall face. (mapei work must be done by licensed applicators.)

Celcrete 50mm panel

Step 2:
apply rendertek external mesh plaster system & paint system

mapei mapelastic flexible cementitious membrane over 50mm Celcrete panel

SOLID HANDRAIL / WALL INTERSECTION
CAD REF 9-5
SCALE 1:15
Celcrete Panel Veneer System
Issue Date: Sept 2012
CELCRETE PANEL CORNER JUNCTION WITH FIBRE CEMENT LINING AT SOLID HANDRAIL

CAD REF 9-6
SCALE 1:5

(also refer CAD REF 9-4)
RAINWATER HEAD OPENING DETAIL

CAD REF 9-7
SCALE 1:5

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

40x40x200mm long H3.2 batten tie.
40mm cavity
Celcrete PVC base cap moulding

continuous membrane dressed through base and up sides of opening with upper edges sealed against cladding, return over rainwater head at sides

deck waterproofing membrane by others

50mm min lip

return membrane into rainwater head

membrane dressed over 50x50mm aluminium angle rebated into substrate

rainwater head & downpipe

continuous membrane dressed through opening with upper edges sealed against cladding, return over rainwater head at sides

overflow (below opening level)

rainwater head

downpipe

Celcrete Panel Veneer System
Issue Date: Sept 2012
**PERGOLA WALL PLATE FIXING AND CELCRETE PANEL JUNCTION**

**CAD REF 9-8**
**SCALE 1:5**

**Celcrete Panel Veneer System**
**Issue Date: Sept 2012**

- 50x50x3mm EPDM washer
- 12mm thick H3.2 packer 150mm long timber at bolt fixings
- H3.2 stringer to suit pergola rafter size
- Wall Plate Fixing: [required to comply with the relevant aspects of NZS 3604, Section 4: Durability].
- 200mm long H3.2 batten tie.
- Extra framing between studs
- 40mm cavity
- Wall underlay
- Framing timber

Ensure cavity blocking is screw fixed to framing ensure bolts go through the pergola and through the cavity blocking for maximum support strength as per engineers requirements.

Ensure wall plate design meets building code requirements.
Note: wall to be plastered prior to fitting pergola rafters.
SOLID HANDRAIL / WALL INTERSECTION

CAD REF 9-10
SCALE 1:15

Step 1: Timber framing
Step 2: Saddle flashing with 50mm upstand
Step 3: Apply Celcrete 50mm panel
Step 4: Apply flashing cap

Celcrete Panel Veneer System
Issue Date: Sept 2012

Timber framing
Approved flexible flashing adhered to wall underlay. Return 200mm from corners each way (by others)

Wall underlay

Step 4: Apply flashing cap

Celcrete 50mm panel

Apply ms sealant to joint

Step 3: Apply Rendertek external mesh plaster system & paint system

Celcrete 50mm panel

Timber framed Handrail as per NZS 3604
CELCRETE PANEL TYPICAL POST / BEAM DETAIL & CELCRETE PANEL TO GROUND DETAIL ON TIMBER POSTS

CAD REF 10-1
SCALE 1:5

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.

PENETRATION THROUGH CELCRETE WALL CLADDINGS FOR PIPES
[Where possible, provide outwards fall to pipework for water run-off]

CAD REF 11-1
SCALE 1:2
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.
PARAPET CAPPING DETAIL

CAD REF 12-1
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012

- rendertek external mesh plaster system & paint system
- 40x40x200mm long H3.2 batten tie.
- 40mm cavity
- Colorsteel flashing
- Celcrete PVC base cap moulding
- Colorsteel roof, paper & netting
- Celcrete 50mm panel
- rendertek external mesh plaster system & paint system
- roofing underlay to extend up 150mm behind cladding
- mapei mapelastic flexible cementitious membrane over capping returned min. 100mm down sides. (mapei work must be done by licensed applicators.)
- 40x40x200mm long H3.2 batten tie.
- solid nog
- wall underlay continuous over wall frame
- Celcrete 50mm panel
- roofing underlay to extend up 150mm behind cladding
- 300mm max for 15° slope
- 30° slope for over 300mm
- Refer E2/AS1 Table 7 for cover dimension
- 35mm min

Celcrete 50mm panel

solid nog

wall underlay continuous over wall frame

Celcrete 50mm panel

roofing underlay to extend up 150mm behind cladding

- mapei mapelastic flexible cementitious membrane over capping returned min. 100mm down sides. (mapei work must be done by licensed applicators.)
- 40x40x200mm long H3.2 batten tie.
- solid nog
- wall underlay continuous over wall frame
- Celcrete 50mm panel
- roofing underlay to extend up 150mm behind cladding
- 300mm max for 15° slope
- 30° slope for over 300mm
- Refer E2/AS1 Table 7 for cover dimension
- 35mm min

Celcrete 50mm panel

solid nog

wall underlay continuous over wall frame

Celcrete 50mm panel

roofing underlay to extend up 150mm behind cladding

- mapei mapelastic flexible cementitious membrane over capping returned min. 100mm down sides. (mapei work must be done by licensed applicators.)
- 40x40x200mm long H3.2 batten tie.
- solid nog
- wall underlay continuous over wall frame
- Celcrete 50mm panel
- roofing underlay to extend up 150mm behind cladding
- 300mm max for 15° slope
- 30° slope for over 300mm
- Refer E2/AS1 Table 7 for cover dimension
- 35mm min

Celcrete 50mm panel

solid nog

wall underlay continuous over wall frame

Celcrete 50mm panel

roofing underlay to extend up 150mm behind cladding

- mapei mapelastic flexible cementitious membrane over capping returned min. 100mm down sides. (mapei work must be done by licensed applicators.)
- 40x40x200mm long H3.2 batten tie.
- solid nog
- wall underlay continuous over wall frame
- Celcrete 50mm panel
- roofing underlay to extend up 150mm behind cladding
- 300mm max for 15° slope
- 30° slope for over 300mm
- Refer E2/AS1 Table 7 for cover dimension
- 35mm min

Celcrete 50mm panel

solid nog

wall underlay continuous over wall frame

Celcrete 50mm panel

roofing underlay to extend up 150mm behind cladding

- mapei mapelastic flexible cementitious membrane over capping returned min. 100mm down sides. (mapei work must be done by licensed applicators.)
- 40x40x200mm long H3.2 batten tie.
- solid nog
- wall underlay continuous over wall frame
- Celcrete 50mm panel
- roofing underlay to extend up 150mm behind cladding
- 300mm max for 15° slope
- 30° slope for over 300mm
- Refer E2/AS1 Table 7 for cover dimension
- 35mm min

Celcrete 50mm panel

solid nog

wall underlay continuous over wall frame

Celcrete 50mm panel

roofing underlay to extend up 150mm behind cladding
200mm long H3.2 batten tie.

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

40mm 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
SECTIONAL VIEW OF GARAGE DOOR-HEAD

CAD REF 13-1
SCALE 1:2
STD TIMBER JAMB GARAGE DOOR DETAIL

PLAN VIEW OF JAMB

CAD REF 13-2
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012

Celcrete 50mm panel
rendertek external mesh plaster system & paint system
40mm cavity
wall underlay
200mm long H3.2 batten tie.
DPC as per NZS 3604

paintable urethane sealant
Celcrete 50mm panel
H3.2 batten tie.
rendertek external mesh plaster system & paint system

50mmx19mm P/P H3.2 scriber with 50mm S/S screw fixing

flashing with 50mm cover to cladding
rusticated weatherboards by others

framing timber
wall underlay

PLAN VIEW
CELCRETE - CAVITY - ABUTTING HORIZONTAL TIMBER WEATHERBOARDS

Celcrete Panel Veneer System
Issue Date: Sept 2012
CELCRETE PANEL EXTERNAL CORNER JUNCTION
WITH HORIZONTAL TIMBER WEATHERBOARDS

40mm cavity
Celcrete 50mm panel
H3.2 batten tie.
rendertek external mesh plaster system & paint system

wall underlay continuous around corner
rusticated weatherboards by others
40mm x 19mm P/P H3.2 scribe

10mm

PLAN VIEW
CELCRETE PANEL EXTERNAL CORNER JUNCTION
WITH HORIZONTAL TIMBER WEATHERBOARDS

CAD REF 14-2
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012
CELCRETE PANEL INTERNAL CORNER JUNCTION
WITH HORIZONTAL TIMBER WEATHERBOARDS

CAD REF 14-3
SCALE 1:2

Issue Date: Sept 2012

PLAN VIEW

framing timber
wall underlay continuous around corner
H3.2 batten tie.

rusticated weatherboards by others
40mmx19mm P/P H3.2 scribe

Celcrete 50mm panel
rendertek external mesh plaster system & paint system
wall underlay
40mm cavity
Celcrete Panel Veneer System

Plan View

Celcrete - Cavity - Abutting Titan Board

Issue Date: Sept 2012

CAD REF 15-1
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012
IMPORTANT NOTE:
Selection of flashing materials in all applications, the choice of flashing materials shall take into account the following factors:

a) The requirements of NZBC B2 Durability,
b) The environment where the building is located,
c) The specific conditions of use, and
d) Consideration of the surrounding materials.

PLAN VIEW

CELCRETE - CAVITY - ABUTTING HORIZONTAL CORRUGATED STEEL

CAD REF 16-1
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012
selected planking on 20mm battens by others

pressed metal flashing with 15° slope supplied & installed by others

35mm

H3.1 timber wedge or fixing block, glued and screwed to Celcrete panel, supplied by builder

rendertek external mesh plaster system & paint system

Celcrete 50mm panel

40x40x200mm long H3.2 batten tie.

40mm cavity

30mm or 35mm vented weatherboard cavity closer with 15mm drip edge

interior wall linings

CELCRETE PLANKING JUNCTION

CELCRETE PANEL VENEER SYSTEM

Issue Date: Sept 2012

SCALE 1:2
Celcrete Panel Veneer System

Plan View

Celcrete Abutting Planking

CAD REF 17-2
SCALE 1:2

Issue Date: Sept 2012

wall underlay
framing

50mmx20mm H3.2 cavity batten

selected planking on 20mm battens by others

0.7mm aluminium Z-flashing

paintable urethane sealant

40mm cavity

400x40x200mm H3.2 batten tie.

40mmx35mm continuous batten by builder

P/P H3.1 timber scriber with 50mm S/S screw fixing

rendertek external mesh plaster system & paint system
Celcrete 50mm panel
200mm long H3.2 batten tie.
rendertek external mesh
plaster system & paint system
low expandable foam
(nom 4-8mm gap) with paintable urethane bead
weep holes @ 800mm cc max
70mm brick veneer
brick veneer tie
as per NZS 4210
40mm cavity
wall underlay
framing timber

BRICK VENEER BELOW CELCRETE PANEL VENEER JUNCTION

CAD REF 18-1
SCALE 1:2
Celcrete Panel Veneer System
Issue Date: Sept 2012
BRICK VENEER ABUTTING CELCRETE PANEL JUNCTION

- Framing timber
- 40mm cavity
- Celcrete 50mm panel
- RenderTek external mesh plaster system & paint system
- 200mm long H3.2 batten tie.
- Low expandable foam (nom 4-8mm gap) with paintable urethane bead
- Brick veneer tie
- 70mm brick veneer
- Wall underlay

CAD REF 18-2
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012
CELCRETE PANEL /BRICK INTERNAL CORNER JUNCTION

CAD REF 18-3
SCALE 1:5

wall underlay continuous around corner

H3.2 batten tie.

200mm

framing timber

10mm gap with low expandable PU foam and urethane bead

Celcrete 50mm panel

rendertek external mesh plaster system & paint system

brick veneer by others

Celcrete Panel Veneer System
Issue Date: Sept 2012
CELCRETE PANEL / BRICK VENEER
EXTERNAL CORNER JUNCTION

framing timber

wall underlay continuous around corner
40mm cavity
H3.2 batten tie.
renderTek external mesh plaster system & paint system
10mm gap with low expandable PU foam and urethane bead

Celcrete 50mm panel

brick veneer by others

CELCRETE PANEL / BRICK VENEER
EXTERNAL CORNER JUNCTION

CAD REF 18-4
SCALE 1:5

Celcrete Panel Veneer System
Issue Date: Sept 2012
Celcrete 50mm panel

40x40x200mm long
H3.2 batten tie.

75mm stainless steel screws

low expandable foam
[nom 4-8mm gap]

concrete block

wall framing

wall underlay

DPC as per NZS 3604

PVC control - joint moulding (glue fixed)

rendertek external mesh plaster system & paint system

Celcrete Panel Veneer System
Issue Date: Sept 2012

CAD REF 19-1
SCALE 1:2
Celcrete Panel Veneer System

Issue Date: Sept 2012

Celcrete Panel Veneer System

Issue Date: Sept 2012
CELCRETE PANEL / 20 SERIES BLOCK EXTERNAL CORNER JUNCTION

Celcrete 50mm panel
wall underlay
40mm cavity
flexible flashing tape bonded to block wall and underlay
rendertek external mesh plaster system & paint system
H3.2 batten tie.
10mm gap with low expandable PU foam and urethane bead

DPC as per NZS 3604

20 Series Block by others
SELECTED 20mm CAVITY DETAILS

For additional 20mm cavity details please contact CELCRETE INTERNATIONAL on 0508 CELCRETE (0508 2352 7383).
CELCRETE 50mm PANEL VENEER SYSTEM FIXING DETAILS - 20mm CAVITY

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

insulation to meet building code requirements

wall lining

rendertek external mesh plaster system & paint system

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

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

CAD REF 3-1 - 20

SCALE 1:20

Celcrete Panel Veneer System
Issue Date: Sept 2012
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

Procteo 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
REBATED STEP-DOWN FOOTING DETAIL - 20mm CAVITY

DPC as per NZS 3604

75mm stainless steel screw fixing to 40x20x300mm H3.2 timber batten tie, embedded 5mm into panel

75mm galv ring shank nail fixing to 40x40x200mm H3.2 timber batten tie

wall underlay

Celcrete vents cut into panel at 1200mm cc

2mm mortar bed

25 series concrete block perimeter

reinforced concrete footing as per NZS 3604

Celcrete Panel Veneer System

Issue Date: Sept 2012

SCALE 1:5
OVERHANGING FOOTING DETAIL - 20mm CAVITY

Celcrete PVC base cap moulding

20 series concrete block

reinforced concrete footing as per NZS 3604

DPC as per NZS 3604

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

75mm stainless steel screws

50mm min. step-down

50mm min

250mm max

100mm min

175mm min

wall underlay

ground

pavers

50mm min

100mm

250mm

20 series concrete block

Celcrete Panel Veneer System

Issue Date: Sept 2012

CAD REF 4-2 - 20

SCALE 1:5

50mm min. step-down

75mm stainless steel screws
CELCRETE PANEL EXTERNAL CORNER JUNCTION - 20mm CAVITY

- Framing timber
- 20mm cavity
- H3.2 batten tie
- Wall underlay continuous around corner
- Celcrete 50mm panel
- PVC corner bead with 100 x 100mm mesh to external corners
- Low expandable PU foam (4-8mm gap)
- Non expressed control joint plastered over
- Rendertek external mesh plaster system & paint system

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

- 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
- Framing timber
- H3.2 batten tie
- Builder to supply and install additional stud

CELCRETE PANEL  INTERNAL CORNER JUNCTION - 20mm CAVITY

CAD REF 5-2 - 20
SCALE 1:5

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

CAD REF 7-1 - 20
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012
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 HEAD - 20mm CAVITY
Celcrete PVC reveal bead
flashing adhered to face of
aluminium joinery and
plastered in

jamb packer

flexible flashing tape
min 100mm up jamb

Celcrete PVC reveal bead
flashing adhered to face of
aluminium joinery and
plastered in

jamb packer

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

40x20x300mm long H3.2
batten tie.

air seal using low
expandable PU
foam installed over
PEF rod

interior wall linings

25mm

7.5mm

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

CAD REF 7-3 - 20
SCALE 1:2

Celcrete Panel Veneer System
Issue Date: Sept 2012

WINDOW FIXING: Refer to E2/AS1 Paragraph 9.1.10.8

- WANZ support bar
- drainage holes
- sill packer
- 7.5mm
- 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
- 8mm min
- flexible flashing tape over building underlay continuous along sill, min 100mm up jambs and 50mm onto face of building underlay
- air seal using low expandable PU foam installed over PEF rod
- interior wall linings
- wall underlay into opening
- 25mm
- 20mm cavity
- drainage holes
SOFFIT EDGE DETAIL - 20mm CAVITY

15mm soffit lining

20mm cavity

300mm long H3.2 batten tie.

wall underlay.

Celcrete 50mm panel

rendertek external mesh plaster system & paint system

ms sealant bead

Celcrete PVC soffit mould glued to Celcrete 50mm panel

SOFFIT FRAMING

Celcrete Panel Veneer System

Issue Date: Sept 2012
EXPOSED MONOPLANE ROOF & SOFFIT - CELCRETE PANEL JUNCTION - 20mm CAVITY

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

roof framing timber

soffit linings installed after Celcrete 50mm panels

roofing to NZS 3604

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

Cad ref 8-8 - 20
Scale 1:5

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.

Where possible, provide outwards fall to pipework for water run-off

Celcrete Panel Veneer System
Issue Date: Sept 2012
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.
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

PLAN VIEW OF JAMB

CAD REF 13-2 - 20

SCALE 1:2

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
BASE RENDER - TECHNICAL DATA SHEET

GENERAL DESCRIPTION

- RenderTek Base Render is a high quality pre-blended, cementitious rendering and screeding material specifically designed for rendering in one or more applications of minimum 4mm over solid substrates – AAC panel and Block, Concrete and Clay substrates.

PRODUCT CHARACTERISTICS

- Suitable for interior or exterior use.
- Applies with exceptional ease to provide a base coat for the application of mesh reinforcement and finishing plasters.
- Can be applied between 2 - 6mm thicknesses in one application.
- Superior application properties when compared to conventional sand and cement render.
- Easy to apply and being pumpable can offer economies in time and labour

BASIC PRODUCT DATA

- Surface Dry: Six (6) hours.
- Recoat: Twenty four (24) hours, if required
- Fully Cured: Seven (7) days

All figures are quoted at 25°C and 50% Relative Humidity. Drying will take longer at lower temperatures or higher relative humidity.

- Consistency: Dry powder – Grey
- Texture: Grainy
- Dry Material Volume: 1.420 kg per litre by volume
- Ideal Water Content: 20-22% by weight volume (= 4.5 – 5.5 litres per 25kg bag) or as required to achieve a workable mix.
- Pot-Life*: 60 minutes when mixed with water (*climate conditions dependant)
- Coverage per coat: 3-4m² per 25kg bag at 5-6mm thickness (2 coats @ 2-3mm per coat)
- Product Parameters: min. 2mm max 6mm application in a single coat.
- Clean-up: Thoroughly clean equipment with water.

SUBSTRATE, APPLICATION CONDITIONS AND TEMPERATURE

- RenderTek Base Render is suitable for application to Autoclaved Aerated Concrete (AAC) blocks or panels, off-form concrete and any other fair-faced, flush and straight laid concrete block or brickwork (common, clay).
- Surface Preparation is the responsibility of the Builder, Renovator or Main Contractor and the Applicator. To achieve the indicated performance, application must be carried out according to the manufacturer’s specifications recommendations.
- Ensure the surface is clean and dry. All substrates must be free of dirt, grease, oil, mould, release agents, bondbreakers or any other contaminants that may interfere with adhesion.
- Note: To extend the workable wall time of this material over Porous substrates, wetting of the wall may be required as stated by the substrate manufacturer.
- Application should not be carried out if the air temperature or the substrate temperature is below 5°C or above 35°C. Freshly applied material must be protected from rain, prevailing winds and frost conditions for the first 24 hours following application.
- Note: Should application be carried out in lower temperatures marginally above the recommended 5°C minimum, increased drying and curing times must be expected for over coating.
**MIXING AND APPLICATION INSTRUCTIONS**

- **Application of 4mm and greater than 4mm thickness**
  o Mix one 25 kg bag of RenderTek Base Coat with the required amount of water. Add the powder to the water steadily and mix with a power stirrer until it is smooth and lump free. Alternatively use an M-Tec D20 or similar to mix the material.
  o Trowel or pump one coat of RenderTek Base render at 2-3mm film thickness, trowelling in the glass fibre mesh reinforcement into the uppermost surface of the base coat. A period of up to 12 hours must be allowed for the material to dry.
  o Apply a second coat of RenderTek Base Render at 2-3mm over the preceding coat and using a plastic float or butterfly work this coat until a flat even surface is achieved in preparation for a texture.
- **Curing**
  o Do not allow the applied product to be in exposed conditions for the first 12 hours to ensure full curing strength is developed. This is critical in windy conditions or when humidity is low.
  o Allow to fully cure for 7 days or when moisture content is no greater that 15% wood equivalent before top coating.

**SAFETY DATA**

- **Caution** Provide adequate ventilation during use.
  - Avoid inhalation of the powder, prolonged skin contact and particularly eye contact. Wear protective clothing to minimise skin contact and wear goggles where splatter is likely.
- **Spills and Disposal** Do not allow spilt material to enter drains or other watercourses. Sweep up and dispose of waste in sealed containers to minimise dust. Disposal of waste is subject to statutory control. Consult your local authority for disposal guidelines.
- **M.S.D.S.** A Material Safety Data Sheet (M.S.D.S.) is available on request.
- **First Aid**
  o If swallowed do not induce vomiting. Give plenty of water to drink. Contact a doctor or the Poisons Information Centre.
  o Phone 0800 764766 (New Zealand).
  o If in eyes, hold eyes open and flood with water for at least 15 minutes. Contact a doctor if any irritation occurs.
  o If on skin remove contaminated clothing, wash skin thoroughly with soap and water or a proprietary skin cleanser. Do not use solvents.
  o If affected by inhalation remove person to fresh air. If breathing difficulties persist or occur later, contact a doctor.

**ADDITIONAL INFORMATION**

- Available in 25 kg bags – 40 BAGS = 1 Tonne.
- Bags must be dry during transport and storage.
- Bags must not be exposed to moisture, excessive heat or cold.
- **Shelf Life**: 12 months, if stored appropriately. This must include storage under cover, above ground, away from direct heat and moisture.
1mm, 2mm Sponge, Adobe Finish
TECHNICAL DATA SHEET

GENERAL DESCRIPTION

- RenderTek 1mm, 2mm Sponge, Adobe Finish products are high quality pre-blended, cementitious texture coat materials specifically designed for rendering onto RenderTek Base Coat applied over AAC panel and Block, Concrete and Clay substrates.

PRODUCT CHARACTERISTICS

- Suitable for interior or exterior use.
- Products apply with exceptional ease to provide a variety of aesthetic texture coats available from RenderTek.
- 1mm Sponge can be floated and/or sponged to create a 1mm texture. 2mm Sponge can be sponged to create a 2mm texture. Adobe finish can achieve a multitude of different textural effects.
- Superior application properties when compared to conventional sand and cement renders/textures.
- Easy to apply and being pumpable can offer economies in time and labour.

BASIC PRODUCT DATA

- Surface Dry: Four - Six (4-6) hours.
- Reccoat: Twenty four (24) hours, if required.
- Fully Cured: Seven (7) days.

All figures are quoted at 25°C and 50% Relative Humidity. Drying will take longer at lower temperatures or higher relative humidity.

- Consistency: Dry powder – Grey.
- Texture: Grainy.
- Dry Material Volume: 1.260 kg per litre by volume.
- Ideal Water Content: 22-24% by weight volume ( = 5.5 – 6.0 litres per 25kg bag) or as required to achieve a
- Pot-Life: 60 minutes when mixed with water.
- Coverage per coat (1): (1mm Sponge) = 8m² per 25kg bag at 1mm coat thickness.
- Coverage per coat (2): (2mm Sponge) = 6m² per 25kg bag at 2mm coat thickness.
- Coverage per coat (3): (Adobe Finish) = 4m² per 25kg bag at 3-5mm coat thickness.
- Product Parameters (1): (1mm Sponge) 1mm min. 2mm max. in a single coat (multiple coats can be achieved providing a curing period is left between coats.)
- Product Parameters (2): (2mm Sponge) 2mm min. 4mm max in a single coat.
- Product Parameters (3): (Adobe Finish) 2mm min. 5mm max in a single coat.
- Clean-up: Thoroughly clean equipment with water.
RECOMMENDED SUBSTRATE, CONDITIONS AND TEMPERATURE

- RenderTek 1mm, 2mm Sponge, Adobe Finish Materials are suitable for application to RenderTek Base Render.
- Surface Preparation is the responsibility of the Builder, Renovator or Main Contractor and the Applicator. To achieve the indicated performance, application must be carried out according to the manufacturer’s specifications recommendations.
- Ensure the surface is clean and dry. All substrates must be free of dirt, grease, oil, mould, release agents, bondbreakers or any other contaminants that may interfere with adhesion. There must be less than 15% moisture Wood Equivalent in the surface at the time of coating to ensure optimum coating performance.
- Application **should not** be carried out if the air temperature or the substrate temperature is below 5°C or above 35°C. Freshly applied material must be protected from frosts and rain for a minimum of forty eight (48) hours.
- **Note:** Should application be carried out in lower temperatures marginally above the recommended 5°C minimum, increased drying and curing times must be expected for over coating.

INSTRUCTIONS FOR USE

- **1mm Sponge**
  - Apply the plaster over a determined set area by;
  - Trowel the plaster tight (1mm) to the wall.
  - Using a hard plastic float, with moderate force against the wall, float in a circular pattern.
  - If required a sponge can be lightly floated over the wall to lift the 1mm aggregate and create a more pronounced texture. Multiple coats can be achieved if required providing an adequate curing period is left between coats.

- **2mm Sponge**
  - Apply the plaster over a determined set area by;
  - Trowel the plaster tight (2mm) to the wall.
  - A hard plastic float, with moderate force against the wall, can be floated in a circular pattern (this is not always necessary.)
  - A sponge must then be lightly floated over the wall to lift the 2mm aggregate and fill in any ‘worm’ marks.

- **Adobe Finish**
  - Apply the Adobe over a determined set area at a thickness of 2-5 mm.
  - Use a specialised trowel to create a sculptured trowel finish.
  - This may left if desired texture is achieved.
  - Alternatively use the same procedure as above, and apply a sponge to the material in a random pattern to create a textured softened adobe and/or sandy effect.

**Note:**
All Plasters must be protected from rain for the first 24 hours and from hot drying winds and direct sun for the first 16 hours to aid curing.
Caution Provide adequate ventilation during use.
- Avoid inhalation of the powder, prolonged skin contact and particularly eye contact. Wear protective clothing to minimise skin contact and wear goggles where splatter is likely.

Spills and Disposal Do not allow spilt material to enter drains or other watercourses. Sweep up and dispose of waste
- In sealed containers to minimise dust. Disposal of waste is subject to statutory control. Consult your local authority for disposal guidelines.

M.S.D.S. A Material Safety Data Sheet (M.S.D.S.) is available on request.

First Aid
- If swallowed do not induce vomiting. Give plenty of water to drink. Contact a doctor or the Poisons Information Centre.
- Phone 0800 764766 (New Zealand).
- If in eyes, hold eyes open and flood with water for at least 15 minutes. Contact a doctor if any irritation occurs.
- If on skin remove contaminated clothing, wash skin thoroughly with soap and water or a proprietary skin cleanser. Do not use solvents.
- If affected by inhalation remove person to fresh air. If breathing difficulties persist or occur later, contact a doctor.

ADDITIONAL INFORMATION

- Available in 25 kg bags – 40 BAGS = 1 Tonne.
- Bags must be dry during transport and storage.
- Bags must not be exposed to moisture, excessive heat or cold.
- Shelf Life: 12 months, if stored appropriately. This must include storage under cover, above ground, away from direct heat and moisture.
SPECIFICATION SHEET

DULUX Elastomeric 201 on Rendertek Plaster System

Spec Code NZSD5620

COATING SYSTEM

<table>
<thead>
<tr>
<th>Data Sheet</th>
<th>Dry Film Thickness (microns)</th>
<th>Theoretical Spreading Rate (square metres per litre)</th>
<th><em>Recoat</em>*</th>
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<tbody>
<tr>
<td><strong>1st Coat</strong></td>
<td></td>
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<tr>
<td>DULUX AcraTex 501/8 HAR Primer</td>
<td>DA1039</td>
<td>Min 30</td>
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<td></td>
<td></td>
<td>Max 30</td>
<td>10.0</td>
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<tr>
<td><strong>2nd Coat</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>DULUX AcraTex 968 Elastomeric 201 Brush, Roller or Airless Spray</td>
<td>DA1035</td>
<td>Min 125</td>
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<td></td>
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<td>Max 125</td>
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<tr>
<td><strong>3rd Coat</strong></td>
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</tr>
<tr>
<td>DULUX AcraTex 968 Elastomeric 201 Brush, Roller or Airless Spray</td>
<td>DA1035</td>
<td>Min 125</td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max 125</td>
<td>4.0</td>
</tr>
</tbody>
</table>

* Practical Spreading Rate will vary from the quoted Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness. ** Recoat times are quoted for 25°C and 50% Relative humidity, these may vary under different conditions

**Important Notes**

Do not apply paint if Relative Humidity is above 85% or temperature is within 3°C of Dew Point.

Do not apply if the surface temperature is greater than 40°C or below 10°C, or likely to fall below 10°C during the application or drying period.

This specification must be read in conjunction with the appropriate technical data sheets.

Warranty - A ten (10) year written warranty for this Dulux Acratex paint system can be applied for, provided that the coatings have been applied by a Dulux approved applicator, in strict accordance with the technical data documented by Dulux Acratex Texture Coatings, regarding application, substrate preparation and coverage rates for this paint system.


1/ The exterior texture coatings on your home should be cleaned on a regular basis. This will help to improve your homes appearance and to preserve your homes texture coating system. Cleaning once every year will remove light soil as well as grime and airborne pollutants. Sea spray zone every six months.

2/ The exterior can be cleaned with a low-pressure water blaster (less than 400 psi) using a fanjet of cold water at a 45degree angle from the wall (not perpendicular). The fan of water blaster should be kept at a minimum of 20cm from the surface of the paint coating in order to avoid damage. Chemwash is also a recommended commercial cleaning method.

3/ Localised grime or ingrained dirt should be removed by cleaning with a scrubbing brush along with a solution of detergent and warm water. Under no circumstances should you attempt to remove heavy staining using a high pressure water blaster.

4/ Check for cracked, loose or missing sealant as part of your regular maintenance inspections. You will find sealant in most areas where different substrates meet. These include around windows and doors, pipes, where walls meet the soffit line and where electrical fittings and handrails have been attached to walls. Control joints should also be inspected as part of the maintenance inspections. All deteriorated or damaged sealant should be removed and replaced as soon as it appears. We recommend that a paintable MS Branz Appraised Sealant be used.

Disclaimer

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The data provided within the DuSpec system is correct at the time of publication, however it is the responsibility of those using this information to check that it is current prior to specifying or using any of these coating systems.

DISCLAIMER: Any advice, recommendation, information, assistance or service provided by any of the divisions of DuluxGroup (New Zealand) Pty Ltd or its related entities (collectively, DuluxGroup) in relation to goods manufactured by it or their use and application is given in good faith and is believed by DuluxGroup to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by DuluxGroup is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon DuluxGroup by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Coating systems can be expected to perform as indicated on the DuSpec Spec Sheet so long as they are applied in accordance with the appropriate Product data Sheet. "Orica" "Dulux" "Berger" "Berger Gold Label" "Hadrian" "Walpamur" "Levene" "Acratex" and Other marks followed by ® are registered trademarks. Marks followed by the symbol ™ are trademarks. Please note that this document is only valid for 60 days from the date of issue.

DuluxGroup (New Zealand) Pty Ltd 150 Hutt Park Road NZ ACN 133 404 118 This specification should be read in conjunction with the Product Datasheets specified within this document.
DULUX Elastomeric 201 on Rendertek Plaster System

Description

Dulux AcraTex 968 Elastomeric 201 is an extremely weather resistant, highly flexible, water based acrylic coating, that is a technologically advanced version of an elastomeric membrane. It combines the protective performance of a membrane (water resistance, crack-bridging, carbon dioxide diffusion) with the advantages of a decorative paint (ease of application, attractive finish, low roller splatter).

Substrate

RENDERTEK PLASTER OVER CELCRETE AAC PANEL OR BLOCK

**Cement Render**
Cement Render is a substrate produced by mixing sand and cement that is applied to a surface, usually block-work and brick. Subsequently finished by screeding, floating or sponging to give an even finish.

**Celcrete Panel Veneer – Blocks & Panels**
The Celcrete panels and blocks must be installed in strict accordance with the manufactures specifications and instructions. Plaster surfaces must be protected from rain and hot drying winds for at least 24 hours following application. Allow to fully cure before the application of the texture/coating system.

Signed approval must be given by the manufacturer of the panel and block system to certify that it has been installed to their detailed instructions and requirements prior to plastering and finish coating commencing.

Substrate Preparation

PCE007 - NEW CEMENT RENDER / PRE MIXED RENDER
ASSESS SUITABILITY
The surface must be inspected to ensure integrity and uniform consistency. Drummy sections identified by a hollow ring when tapped with a coin indicate poor adhesion of the render and should be removed and made good by the renderer. The surface should be uniform in colour, texture and be free of surface cracks >0.2mm.

REMOVE POWDER LAYERS & EFFLORESCENCE
Remove any powdery layers, laitance or efflorescence by detergent cleaning, wire brushing or a suitable chemical treatment.

CLEAN
Clean the surface thoroughly. Where a commercial cleaning detergent is used the surface must be thoroughly rinsed with clean water. This may need to be repeated on extremely dirty surfaces. Ensure that the surface is dry, clean and free from dust.

REPAIR SURFACE IMPERFECTIONS
Fill any cracks or surface imperfections with suitable filler or patching compound and allow to dry according to manufactures specifications.
Appendix 2

**CELCRETE Pre-Cladding Checklist for 40mm Cavity.**

*For Builders and Trained Installers*

<table>
<thead>
<tr>
<th>Consent No.</th>
<th>________________________________</th>
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<tbody>
<tr>
<td>Site Address</td>
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</tr>
<tr>
<td>Start Date</td>
<td>________________________________</td>
</tr>
<tr>
<td>Client Name</td>
<td>________________________________ Ph __________________________</td>
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<tr>
<td>Builder</td>
<td>________________________________ Ph __________________________</td>
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<tr>
<td>Architect</td>
<td>________________________________ Ph __________________________</td>
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</tbody>
</table>

**Builder must have job prepared for the installation of the Celcrete Panels in accordance with the Celcrete Technical Manual**

<table>
<thead>
<tr>
<th><strong>Floor Slab Layout</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Ensure distance from outside of framing to outside of concrete footing is exactly 90mm on all sides of building. If slightly under it is okay on single storey only. This allows 40mm for the cavity and 50mm for the Celcrete panels. 33mm batten ties will be used where 7mm brace ply is required.</td>
</tr>
<tr>
<td>□ Ensure ground level is 250mm below floor level, min. 300mm out around base to allow for plastering while under construction.</td>
</tr>
</tbody>
</table>

**Rebate**

| □ Coated with Damp Proof Course e.g 3 coats approved bitumastic paint |
| □ Smooth and level |

**Framing – All straight and Level**

| □ Studs straightened for wall lining before Celcrete Panels are installed |
| □ Internal corners – supply and install 1 stud or full length 40x40mm H3.2 batten, 200mm from internal corner (CAD REF 5-2) |

**Wall Underlay**

| □ Exterior timber framed walls must be wrapped with an approved wall underlay prior to the cavity batten tie installation and all penetrations must be sealed up to the wall underlay. Wall underlay to be strapped as required by E2/AS1. |

**Head Flashings**

| □ Cut aluminium powder coated z-flashings 20mm either side of outside flange of windows. These will need to be cut and turned up to form stop ends and sealed with silicone. |
| □ Window sealing tape over z-flashings and onto building paper (CAD REF 7-1). |

**Windows**

| □ Window distance from framing – minimum 45mm from outside of framing to inside flange of window (CAD REF 7-1) |

**Joinery**

| □ All joinery must be set into openings minimum 45mm from outside of framing to inside flange of window. This allows 10mm of the joinery bearing over the Celcrete panel |

If two storey:

| □ Check with Builder that all waterproofing details including roof junctions, flashings and diverters have been done |
| □ All protective sheeting is on roof |
All Plumbing including Gas lines, need to be pressure tested prior to installation of internal linings. Celcrete will not be responsible for replacement of internal linings if this is not done.

Variables / Concerns / Comments:
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

Applicator: ___________________________ Signed: _______________

Approved by: ___________________ Position: _______________ Signed: _______________

PLEASE CONTACT LOCAL DISTRIBUTOR BEFORE JOINERY IS PRODUCED
Appendix 2a

CELCRETE Pre-Cladding Checklist for 20mm Cavity.
For Builders and Trained Installers

| Consent No. | __________________________ |
| Site Address | ____________________________________________ |
| Start Date | __________________________ |

| Client Name | __________________________ | Ph | __________________________ |
| Builder | __________________________ | Ph | __________________________ |
| Architect | __________________________ | Ph | __________________________ |

**Builder must have job prepared for the installation of the Celcrete Panels in accordance with the Celcrete Technical Manual**

**Floor Slab Layout**
- Ensure distance from outside of framing to outside of concrete footing is exactly 70mm on all sides of building. If slightly under it is okay on single storey only. This allows 20mm for the cavity and 50mm for the Celcrete panels. All brace ply must be checked in flush with the framing.
- Ensure ground level is 250mm below floor level, min. 300mm out around base to allow for plastering while under construction.

**Rebate**
- Coated with Damp Proof Course e.g 3 coats approved bitumastic paint
- Smooth and level

**Framing – All straight and Level**
- Studs straightened for wall lining before Celcrete Panels are installed
- Internal corners – supply and install 1 stud or full length 40x40mm H3.2 batten, 200mm from internal corner (**CAD REF 5-2-20**)

**Wall Underlay**
- Exterior timber framed walls must be wrapped with an approved wall underlay prior to the cavity batten tie installation and all penetrations must be sealed up to the wall underlay. Wall underlay to be strapped as required by E2/AS1.

**Head Flashings**
- Cut aluminium powder coated z-flashings 20mm either side of outside flange of windows. These will need to be cut and turned up to form stop ends and sealed with silicone.
- Window sealing tape over z-flashing and onto building paper (**CAD REF 7-1-20**).

**Windows**
- Window distance from framing – minimum 25mm from outside of framing to inside flange of window (**CAD REF 7-1-20**)

**Joinery**
- All joinery must be set into openings minimum 25mm from outside of framing to inside flange of window. This allows 10mm of the joinery bearing over the Celcrete panel

If two storey:
- Check with Builder that all waterproofing details including roof junctions, flashings and diverters have been done
- All protective sheeting is on roof
- Scaffolding
All Plumbing including Gas lines, need to be pressure tested prior to installation of internal linings. Celcrete will not be responsible for replacement of internal linings if this is not done.

<table>
<thead>
<tr>
<th>Variables / Concerns / Comments:</th>
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</tbody>
</table>

Applicator: __________________________ Signed: _______________
Approved by: __________________ Position: __________________ Signed: _______________

PLEASE CONTACT LOCAL DISTRIBUTOR BEFORE JOINERY IS PRODUCED
Appendix 3

CELCRETE Pre-Coating Checklist
For Trained Installers and Plasterers

Consent No. ____________________________
Site Address __________________________________________________________________________
Start Date ____________________________

Client Name ____________________________ Ph ____________________________
Builder __________________________________ Ph ____________________________
Architect ____________________________ Ph ____________________________

Celcrete recommends an inspection by Building Inspector prior to plastering

☐ Panels must be flat and straight with min. 6 stainless steel screws per 2200x600mm sheet, countersunk 5mm (CAD REF 3-1).

☐ Ensure all exposed steel reinforcing ends are treated with zinc primer.

☐ All external and internal corners are filled with expandable foam (CAD REFS 5-1 & 5-2).

☐ Vents - 110x40mm slots are cut into the bottom of the panel at max. 1500 centres for PVC vents. These are then placed in after plastering, before painting.

☐ Ensure that PVC sill flashings are in place and sealed with urethane at corners.

☐ Ensure all PVC window head capping is glued in place and level and straight (CAD REF 7-1).

☐ Powder-coated head flashings must be in place with 20mm folded ends, flush with outside flange of window and sealed with silicone (CAD REF 7-1 & 7-1a).

☐ PVC base cap/vermin strip must be glued and fixed in a straight line to bottom edge of panel where required (CAD REFS 4-2, 8-1, 9-2, & 12-2).

☐ Ensure PVC soffit moulding is glued and fixed in a straight line (CAD REFS 8-2 & 13-3).

☐ Ensure roof flashings are in place and checked by Builder and Building Inspector prior to plastering. Check junctions between roof flashings and Celcrete mouldings.

☐ All pipe work / penetrations through cladding are filled with expandable foam and sealed with flexible sealant (CAD REFS 11-1 & 11-2).

Note: PVC Reveal Bead Flashing is installed by plasterers when masking windows (CAD REF 7-2)

Variables / Concerns / Comments:
_______________________________________________________________________________
Applicator: ____________________________________________ Signed: __________________
Approved by: __________________ Position: __________________ Signed: __________________

Celcrete recommends an inspection by Building Inspector prior to plastering

Consent No. ____________________________
Site Address __________________________________________________________________________
Start Date ____________________________

Client Name ____________________________ Ph ____________________________
Builder __________________________________ Ph ____________________________
Architect ____________________________ Ph ____________________________

Celcrete recommends an inspection by Building Inspector prior to plastering

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