FC EW 2 - 9mm Fibre Cement Weatherboards + 15mm Fire Resistant Gypsum Board

<table>
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<tr>
<th>Assembly #</th>
<th>Wall Type</th>
<th>Stud Size (mm)</th>
<th>Steel</th>
<th>Exterior Cladding</th>
<th>Building Wrap</th>
<th>Cavity Fill</th>
<th>Interior Lining</th>
<th>Fire Rating Side</th>
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<tr>
<td>FC EW 2</td>
<td>Exterior/ Interior Load Bearing Wall</td>
<td>89 to 150</td>
<td>0.95 to 2.00</td>
<td>FRAMECAD® 9mm Fibre Cement Weatherboards</td>
<td>FRAMECAD® Tyvek®</td>
<td>Rockwool or Glasswool min. R-Value 1.9 M² K/W</td>
<td>FRAMECAD® 15mm Fire Resistant Gypsum Board</td>
<td>Inside</td>
<td>60min.</td>
<td>45</td>
<td>1.70</td>
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Framing and Wall Height

FRAMECAD® Stud width shall be 35mm minimum. Stud spacing shall be at 610mm centers maximum. Frame height as determined by specific design.

Cladding

One layer of FRAMECAD®9mm Fibre Cement Weatherboards on the exterior side of FRAMECAD® cold formed steel wall frames. All end joints must be staggered and touch fit and covered with a suitable soaker to prevent water penetration.

Claddings are fixed a minimum 50mm off ground level unless a “Z” flashing is provided or as per local building regulations.

All Weatherboards to extend below the finished floor level by a minimum of 50mm.

Building Wrap

Install with a 150mm overlap between runs, with each higher run lapping over the layer below. Install external cladding without delay.

Cavity Fill

Rockwool or Glasswool Insulation. Avoid creating gaps and spaces, as they will allow warm air to bypass the insulation and escape. Cut insulation to size using a sharp utility knife, allowing an additional 25mm (1”) to both the width and length for a snug fit.

Glasswool or Rockwool min R-Value 1.9 M² K/W.

Lining

One layer of FRAMECAD® 15mm Fire Resistant Gypsum Board on internal side of the cold formed steel wall frame.

Vertical fixing. Full height sheets shall be used where possible.

Horizontal fixing is permitted as long as all longitudinal sheet joints are formed over nogs/dwangs.

When sheet end butts joints are unavoidable, they shall be fixed at 200mm centres and formed over framing. All sheet joints must be formed over framing.

Linings are fixed 10mm off the floor.

Fastening

Cladding

FRAMECAD® 9mm Fibre Cement Weatherboards to be fixed using 030149 FRAMECAD® 8g x 35mm X-Drive® Winged Drill Point screws. All end joints must be touch fit. Fasteners to be placed under the lap directly into the stud, and if necessary face fixed.

Lining

FRAMECAD® 15mm Fire Resistant Gypsum Board to be fixed using 001848 FRAMECAD® 6g x 32mm Bugle Head Drill Point screws, at 200mm centers along sheet perimeter and centre studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be touch fit.

Note: FRAMECAD® recommends a glue and screw method to ensure linings are affixed to wall, ceiling and floor frames. Glue dabs must be intermittent with a minimum distance of 100mm from fastening placement.

Jointing and Finishing

All screw / fastener heads should be covered with joint compound and all sheet joints to have reinforced tape and stopped / jointed in accordance with the stopping / jointing compound manufacturers recommendations.

Fire Stopping / Jointing

Seal any gaps and service penetrations with an intumescent sealant to prevent penetration of flame.

Acoustic Stopping/ Jointing

Apply sound seal at junctions between drywall frame and adjoining structure. Sound seal is to be provided as a continuous band to clean, dry, dust free surfaces, leaving no gaps. Seal any gaps and service penetrations.
FRAMECAD® Design and Build System delivers a full range of building assemblies that meet fire, thermal and acoustic values. For details on the appropriate assembly for your project please contact us.

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