

FC EW 14 - 9mm Pro-panel™ cement board on both sides of the Cold Formed Steel Frame

Assembly #	Wall Type	Stud Size (mm)	Steel			Exterior Cladding	Cavity Fill	Interior Lining	Fire Rating Side	Fire Rating (Min.)	Acoustic Rating (STC dB)	Thermal Rating (M ² /K/W)
			Thickness (mm)	Coating	Grade							
FC EW 14	Exterior or Interior Load Bearing Wall	89 to 150	0.95 to 2.00	Z275	G350 to G550	FRAMECAD® 9mm Pro-panel™ Cement Board	Rockwool or Glasswool min. R-Value 1.9 M ² /K/W	FRAMECAD® 9mm Pro-panel™ Cement Board	Both Sides	30min	45	1.40

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 Pro-panel™ Cement Board on the exterior side of FRAMECAD® cold formed steel wall frames.

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

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

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.

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

Lining

One layer of FRAMECAD® 9mm Pro-panel™ Cement Board on the internal side of the FRAMECAD® 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 Pro-panel™ Cement Board to be fixed using, 030149 FRAMECAD® X-Drive® 10g x 35mm CSK Winged Drill Point screws at 200mm centers along sheet perimeter and 300mm at center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be touch fit.

Lining

FRAMECAD® 9mm Pro-panel™ Cement Board to be fixed using, 030149 FRAMECAD® X-Drive® 10g x 35mm CSK Winged Drill Point screws at 200mm centers along sheet perimeter and 300mm at center 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

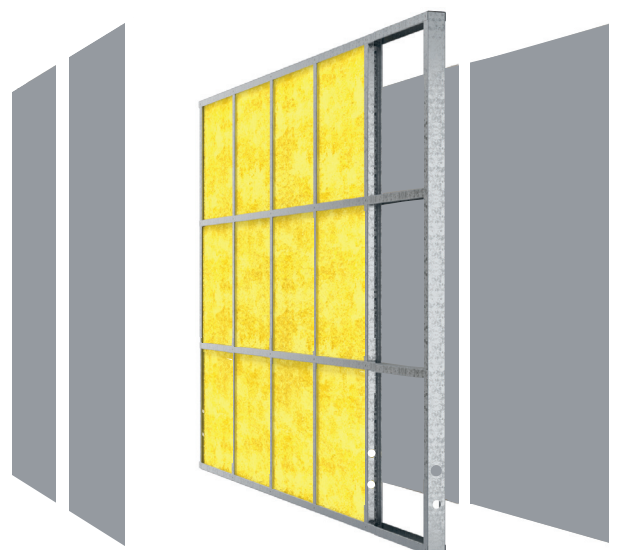
All screw / fastener heads should be covered with joint compound and all sheet joints to have reinforced tape and stopped / jointed in accordance with the stopping / jointing compound manufacturers recommendations.

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.



NOTE: In order for FRAMECAD® Wall Solutions to perform as designed all components must be installed exactly as prescribed. Substituting building components may produce an entirely different solution and may seriously compromise performance.

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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.

www.framecad.com

DISCLAIMER:

This document is current as at July 2015 and supersedes all previous versions of the FRAMECAD® FC EW 14.

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