

**FC EW 16 - 12mm Pro-panel™ Cement Board + 15mm Fire Guard Plasterboard**

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 <sup>2</sup> K/W)
			Thickness (mm)	Coat-ing	Grade							
FC EW 16	Exterior / Interior Load Bearing Wall	89 to 150	0.75 to 2.00	Z275	G350 to G550	FRAMECAD® 12mm Pro-panel™ Cement Board	Rockwool or Glasswool min. R-Value 1.9 M <sup>2</sup> K/W	FRAMECAD® 15mm Fire Guard Plaster Board	Inside	60 Min	45	1.70
										Ref. FCTR.1401		

**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® 12mm 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 M<sup>2</sup> K/W.

**Lining**

One layer of FRAMECAD® 15mm Fire Guard Plasterboard on each side of the FRAMECAD® cold formed steel wall frame.

**Note:** For size and selection details refer to the FRAMECAD® Plasterboard Technical Guide for cold formed steel brochure.

Vertical fixing only permitted. Full height sheets shall be used where possible and touch fit.

Offset joints between sheets and on opposite side of the cold formed steel frame. When sheet end butts joints are unavoidable, they shall be fixed over nogs. All sheet joints must be formed over framing.  
Linings are fixed hard to the floor.

**Fastening**
**Cladding**

FRAMECAD® 12mm Pro-panel™ cement board to be fixed using, 030149 FRAMECAD® X-Drive® Winged Drill Point screws at 150mm 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.

**Lining**

FRAMECAD® 15mm Fire Guard Plasterboard to be fixed using FRAMECAD® 6g x 51mm Bugle Head Drill Point screws, at 200mm centers along sheet perimeter and 300mm centers at intermediate studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners.

*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**

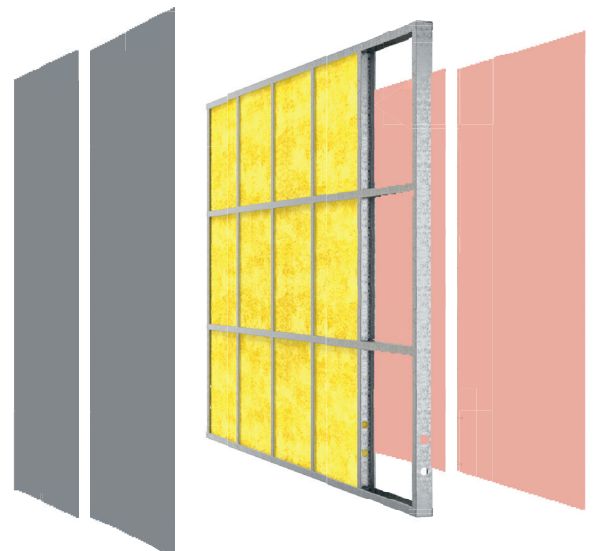
All screw / fastener heads should be covered with joint compound and all sheet joints to have reinforced tape and stopped / jointed in accordance with the stopping / jointing compound manufacturers recommendations.

**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® frame 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.

## FC EW 16 - 12mm Pro-panel™ Cement Board + 15mm Fire Guard Plasterboard

FRAMECAD® Design and Build System deliver 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](http://www.framecad.com)

**DISCLAIMER:**

This document is current as at July 2015 and supersedes all previous versions of the FRAMECAD® FC EW 16.

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