FC IFS 3 - Insulated Façade System + 12mm Fibre Cement Sheet + Double Layer 15mm Fire Gypsum

Assembly #	Wall Type	Stud Size (mm)	Steel			Exterior Cladding	Building Wrap	Cavity Fill	Interior Lining	Rating Side	Fire Rating (Min)	Acoutic Rating (STC dB)	Thermal Rating (M^2K/W)
			Thickness (mm)	Coating	Grade								
FC IFS 3	Exterior Load Bearing Wall	89 to 100	0.95 to 2.00	Z275	G350 to G550	FRAMECAD® 60mm Insulated Façade System + FRAMECAD® 12mm Fibre Cement Sheet	FRAMECAD® Tyvek®	Rookwool or Glasswool min. R-Value 1.9 M^2 KW	Double Layer FRAMECAD® 15mm Fire Resistant Gypsum	Inside	120min.	50	2.73
											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
FRAMECAD® 60mm Insulated Façade System + one layer of FRAMECAD® 12mm Fibre Cement Sheet fixed on the external side of the FRAMECAD® cold formed steel wall frame.

Vertical fixing. Full height sheets shall be used where possible. All Sheets joints to be formed over studs and nogs.

All sheets to be fixed a minimum of 50mm from ground level, unless a "Z" flashing is provided or as per local building regulation.

All Sheets 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 batts to length by setting the top of the batt into the space and cutting against the bottom plate with a sharp utility knife. Leave an extra 25mm (1/2 inch) of length for a complete fit. Stuff strips of batting into spaces around windows and doors. The insulation should fit snugly, don't pack it.

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

Lining
Two layers of FRAMECAD® 15mm Fire Resistant Gypsum Board on 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® 12mm Fibre Cement Sheet to be fixed underneath the FRAMECAD® Insulated Façade and fixed directly to FRAMECAD® cold formed steel wall frames using 030149 FRAMECAD® X-Drive® 8g x 35mm CSK Winged Drill Point screws, at 200mm centers along sheet perimeter and centre studs. Fibre Cement fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be touch fitted.

The Insulated Façade System is fixed over the FRAMECAD® 12mm Fibre Cement Sheeting vertically, fixed through the fibre cement sheeting into the frame, and must be fully supported on all edges and butt joined hard against each other. For fastening placement refer to FRAMECAD® Trade Spec Document 2.4.

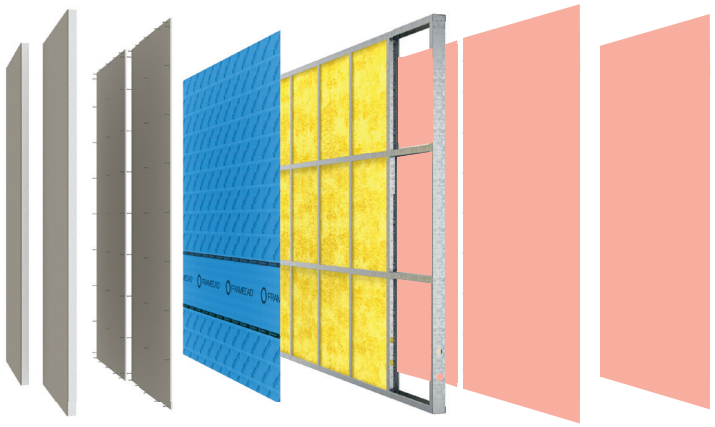
Lining
Inner Layer Lining
FRAMECAD® 15mm Fire Resistant Gypsum Board to be fixed using 001848 FRAMECAD® 6g x 32mm Bugle Head Drill Point screws, at 600mm centers along sheet perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners.

Outer Layer Lining
FRAMECAD® 15mm Fire Resistant Gypsum Board to be fixed using FRAMECAD® 6g x 51mm Bugle Head Drill Point screws, at 200mm centers along sheet perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners.

Note: FRAMECAD® recommends a glue and screw method to aid linings being 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 heads to cover fastener heads with joint compound and all sheets joints to have reinforced tape and stopped / jointed in accordance with the stopping / jointing compound manufacturers recommendations.

Refer to the FRAMECAD® Insulated Façade System & the FRAMECAD® Gypsum Board Technical Guide for cold formed steel construction for full details on installation, jointing and finishing.



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.
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