

FC EW 8 - 0.4mm Metal Siding Panels + 9mm Fibre Cement Sheet

Assembly #	Stud Size (mm)	Steel			Exterior Cladding	Building Wrap	Cavity Fill	Interior Lining
		Thickness (mm)	Coating	Grade				
FC EW 8	75 to 100	0.75 to 2.00	Z180 to Z350	G350 to G550	0.4mm Metal Siding	FRAMECAD® Tuff Stuff Wrap	Rockwool Density of 40 kg/m ³	FRAMECAD® 9mm Fibre Cement Sheet

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® 0.4mm Metal Siding Panels on external side of FRAMECAD® cold formed steel frame. Horizontal fixing on all sheets.

Claddings are fixed a minimum 50mm off 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.

Building Wrap

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

To be effective as a thermal insulator there must be a minimum air gap of 40mm adjacent to at least one reflective foil face.

Note: Aluminum foil is susceptible to alkali attack and therefore should not come in contact with wet concrete.

Cavity Fill

Rockwool Insulation. Avoid creating gaps and spaces, as they will allow 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 cavity insulation density 40 kg/m³ or as per local building regulations.

Lining

One layer of FRAMECAD® 9mm Fibre Cement Sheet 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 end sheet joints are formed over framing.

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

Linings are fixed 10mm off the floor.

Fastening
Cladding

FRAMECAD® 0.4mm Metal Siding Panels to be fixed using 002409 FRAMECAD® 12g x 25mm Hex Head, Drill Point screws with optional EPDM Washers, at 300mm centres. Fastening placement should be through the middle of each stud and positioned in the valley of the corrugation.

Metal Siding must be lapped so that the top sheet is placed over the top of the bottom sheet to avoid water ingress. So work from the ground up.

Lining

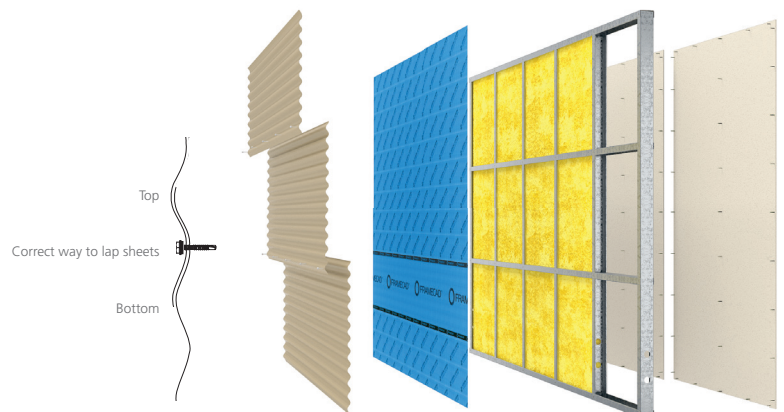
FRAMECAD® 9mm Fibre Cement Sheet to be fixed using, 030149 FRAMECAD® X-Drive® 8g x 35mm Winged Drill Point screws at 300mm centers along sheet perimeter and centre studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be touch fitted.

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 be covered and all sheets joints to have reinforced tape and stopped in accordance with the covering / jointing compound manufacturers recommendations.

Refer to the FRAMECAD® Fibre Cement Technical Guide for jointing and render 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.

FC EW 8 - 0.4mm Metal Siding Panels + 9mm Fibre Cement Sheet

FRAMECAD® Design and Build System encompasses a full range of building FRAMECAD® Sub-Assemblies that meet fire, thermal and acoustic values, or that are suitable for general lining and cladding. For details on the appropriate assembly for your project please contact us. www.framecad.com

FRAMECAD® Ceiling Assembly Solution
August 2013

9.5mm Gypsum Board - Internal Ceiling

Assembly #	Stud Spacing (mm)	Steel			Insulation	Interior Lining	Target Rating		
		Thickness (mm)	Coating	Grade			Fire	Acoustic, STC dB	Thermal R (m²K/W)
FC C 2	FRAMECAD® Ceiling Batten	0.55 Minimum	Z275	G250 to G300	Classical (Optional)	FRAMECAD® 9.5mm Gypsum Board	30 min.	45	R = 1.3

Ceiling Batten
FRAMECAD® Ceiling Batten spacing shall be at 450mm centers maximum.

Cavity Fill (Optional)
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 batts into the space and cutting with a sharp utility knife. Leave an extra 25mm (1/2 inch) of length for a complete fit. Stuff strips of batting into spaces. The insulation should fit snugly, don't pack it.

Lining
Glasswool insulation thickness 90mm
Glasswool insulation target - R Value 1.3

Fastening
Ceiling Lining
FRAMECAD® 9.5mm Gypsum Board to be fixed using 001848 FRAMECAD® 6 x 25mm Bugle Head, DRI Point screws, at 300mm centers along 3rd perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be staggered and flush to face.

Jointing and Finishing
All screw heads to be stopped and all sheet joints to have a recessed joint in accordance with the stopping / jointing compound manufacturers recommendations.

Notes:
1. In order for FRAMECAD® solutions to perform as tested and designed an appropriate level of skill, training or professional judgement is required. Building components may perform an entirely different manner and may not meet the intended performance.

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FRAMECAD® Wall Assembly Solution
August 2013

9mm Fibre Cement Weatherboards + 15mm Fire Retardant Gypsum Board

Assembly #	Stud Spacing (mm)	Steel			Insulation	Interior Lining	Target Rating		
		Thickness (mm)	Coating	Grade			Fire	Acoustic, STC dB	Thermal R (m²K/W)
FC EW 2	60 to 150	0.75 to 2.00	Z275	G250 to G300	FRAMECAD® 15mm Fire Retardant Gypsum Board	FRAMECAD® 9.5mm Fibre Cement Weatherboards	30 min.	45	R = 1.0

Framing and Wall Height
FRAMECAD® wall height shall be 2000mm maximum. Stud spacing shall be at 600mm centers maximum. Frame height as determined by specific design.

Ceiling
One layer of FRAMECAD® 9.5mm Gypsum Board to be fixed using 001848 FRAMECAD® 6 x 25mm Bugle Head, DRI Point screws, at 300mm centers along 3rd perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be staggered and flush to face.

Building Wrap
One layer of FRAMECAD® 15mm Fire Retardant Gypsum Board to be fixed using 001848 FRAMECAD® 6 x 25mm Bugle Head, DRI Point screws, at 300mm centers along 3rd perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be staggered and flush to face.

Insulation
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 batts into the space and cutting with a sharp utility knife. Leave an extra 25mm (1/2 inch) of length for a complete fit. Stuff strips of batting into spaces. The insulation should fit snugly, don't pack it.

Lining
FRAMECAD® 9.5mm Fibre Cement Weatherboards to be fixed using 001848 FRAMECAD® 6 x 25mm Bugle Head, DRI Point screws, at 300mm centers along 3rd perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be staggered and flush to face.

Jointing and Finishing
All screw heads to be stopped and all sheet joints to have a recessed joint in accordance with the stopping / jointing compound manufacturers recommendations.

Notes:
1. In order for FRAMECAD® solutions to perform as tested and designed an appropriate level of skill, training or professional judgement is required. Building components may perform an entirely different manner and may not meet the intended performance.

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This document is current as at Dec 2013 and supersedes all previous versions of the FRAMECAD® FC EW 8.

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