

FC F 1 - 18mm MgO Board - Internal Mid-Flooring

Assembly #	Stud Size (mm)	Steel			Cavity Fill	Flooring
		Thickness (mm)	Coating	Grade		
FC F 1	75 to 100	0.75 to 2.00	Z180 to Z350	G350 to G550	Rockwool Density of 40 kg/m ³	FRAMECAD® 18mm Magnesium Oxide Board

Framing

FRAMECAD® joist width shall be 35mm minimum
Joist spacing shall be at 610mm centers maximum.

Floor Lining

One layer of FRAMECAD® 18mm Magnesium Oxide Board fixed to FRAMECAD® cold formed steel joists and run in the opposite direction of the joists.

Full length sheets shall be used where possible.
All sheet end joints must be formed over framing.

Cavity Fill (Optional)

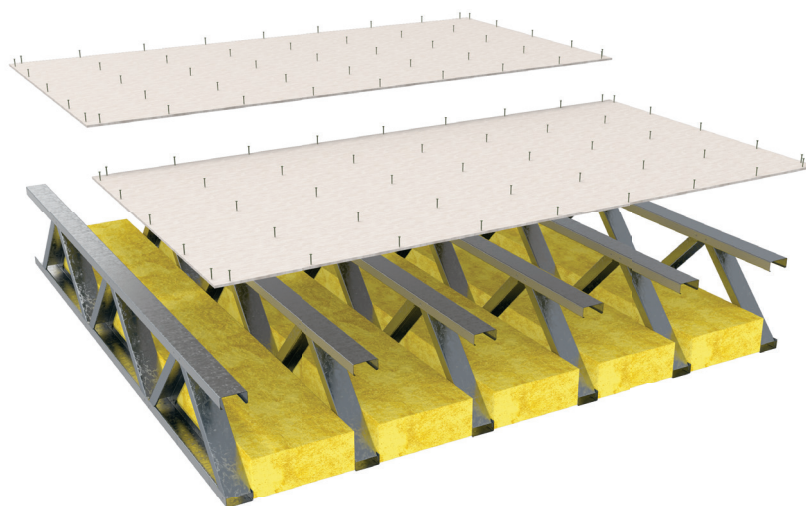
Rockwool Insulation. Avoid creating gaps and spaces, as they will allow warm air to bypass the insulation and escape. Cut batts to length by setting the top of the batt into the space and cutting with a sharp utility knife. Leave an extra 25mm (1/2 inch) of length for a complete fit. Stuff strips of batting into spaces around windows and doors. The insulation should fit snugly, don't pack it.

Rockwool cavity insulation density of 40 kg/m³ or as per local building regulations.

Fastening
Flooring

FRAMECAD® 18mm Magnesium Oxide Board to be fixed using 030149 FRAMECAD® 8g x 35mm X-Drive®, Winged Drill Point screws, at 300mm centers along joists. 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 aid linings being affixed to wall, ceiling and floor frames. Glue dabs must be intermittent with a minimum distance of 100mm from fastening placement.



NOTE: In order for FRAMECAD® Floor 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.

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)	Thickness (mm)	Coating	Grade	Insulation	Interior Lining	Target Rating		
							Fire	Acoustic STC dB	Thermal R (m²K/W)
FC F 2	FRAMECAD® Ceiling Batten	8.55 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. Snuff strips of batts into spaces. The insulation should fit snugly, don't pack it.

Lining
One layer of FRAMECAD® 9.5mm Gypsum Board fixed to FRAMECAD® cold formed steel ceiling batten. Full length sheets shall be used where possible. All butt joints must be formed over framing.

Linnings are fixed flush with wall lining.

Fastening
Ceiling Lining
FRAMECAD® 9.5mm Gypsum Board to be fixed using 001848 FRAMECAD® 6 x 25mm Bugle Head, Dill Point screws, at 300mm centers along 3rd perimeter and center studs. Fastening placement should be 12mm from sheet edge and 30mm from sheet corners. All end joints must be staggered and flush to face.

Note: FRAMECAD® recommends a glue and screw method to aid in affixing to wall, ceiling and floor frame. Glue tabs must be affixed with a minimum distance of 100mm from fastening placement.

Joining and Finishing
All screw heads to be stopped and all sheets joints to be stopped and stopped in accordance with the stopping / jointing compound manufacturers recommendations.

Building Wap
FRAMECAD® 9.5mm Gypsum Board to be fixed using 001848 FRAMECAD® 6 x 25mm Bugle Head, Dill Point screws, at 300mm centers along 3rd perimeter and center studs. Fastening placement should be 12mm from sheet edge and 30mm from sheet corners. All end joints must be staggered and flush to face.

Note: FRAMECAD® recommends a glue and screw method to aid in affixing to wall, ceiling and floor frame. Glue tabs must be affixed with a minimum distance of 100mm from fastening placement.

Joining and Finishing
All screw heads to be stopped and all sheets joints to be stopped and stopped in accordance with the stopping / jointing compound manufacturers recommendations.

Cavity Fill
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. Snuff strips of batts into spaces. The insulation should fit snugly, don't pack it.

Lining
One layer of FRAMECAD® 9.5mm Gypsum Board fixed to FRAMECAD® cold formed steel ceiling batten. Full length sheets shall be used where possible. All butt joints must be formed over framing.

Linnings are fixed flush with wall lining.

Vertical Rafter: All height sheets shall be fixed where possible.

Horizontal Rafter: All height sheets shall be fixed where possible.

When sheet and batts joints are unavoidable, they shall be fixed at 200mm from the edge of the sheet.

Linnings are fixed 10mm off the floor.

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

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FRAMECAD® Wall Assembly Solution
August 2013

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

Assembly #	Stud Spacing (mm)	Thickness (mm)	Coating	Grade	Interior Lining	Insulation	Building Wap	Interior Lining	Target Rating		
									Fire	Acoustic STC dB	Thermal R (m²K/W)
FC F 2	850 To 2.00	9.75 To 2.00	Z275	G250 to G300	FRAMECAD® 9.5mm Gypsum Board	FRAMECAD® 15mm Fire Retardant Gypsum Board	FRAMECAD® 9.5mm Fibre Cement Weatherboards	FRAMECAD® Cold Formed Steel Wall Frame	1 hr.	45	R = 1.0

Framing and Wall Height
FRAMECAD® wall height shall be 2000mm maximum. Stud spacing shall be at 850mm 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, Dill Point screws, at 300mm centers along 3rd perimeter and center studs. Fastening placement should be 12mm from sheet edge and 30mm from sheet corners. All end joints must be staggered and flush to face.

Note: FRAMECAD® recommends a glue and screw method to aid in affixing to wall, ceiling and floor frame. Glue tabs must be affixed with a minimum distance of 100mm from fastening placement.

Joining and Finishing
All screw heads to be stopped and all sheets joints to be stopped and stopped in accordance with the stopping / jointing compound manufacturers recommendations.

Building Wap
FRAMECAD® 9.5mm Gypsum Board to be fixed using 001848 FRAMECAD® 6 x 25mm Bugle Head, Dill Point screws, at 300mm centers along 3rd perimeter and center studs. Fastening placement should be 12mm from sheet edge and 30mm from sheet corners. All end joints must be staggered and flush to face.

Note: FRAMECAD® recommends a glue and screw method to aid in affixing to wall, ceiling and floor frame. Glue tabs must be affixed with a minimum distance of 100mm from fastening placement.

Joining and Finishing
All screw heads to be stopped and all sheets joints to be stopped and stopped in accordance with the stopping / jointing compound manufacturers recommendations.

Cavity Fill
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. Snuff strips of batts into spaces. The insulation should fit snugly, don't pack it.

Lining
One layer of FRAMECAD® 9.5mm Gypsum Board fixed to FRAMECAD® cold formed steel ceiling batten. Full length sheets shall be used where possible. All butt joints must be formed over framing.

Linnings are fixed flush with wall lining.

Vertical Rafter: All height sheets shall be fixed where possible.

Horizontal Rafter: All height sheets shall be fixed where possible.

When sheet and batts joints are unavoidable, they shall be fixed at 200mm from the edge of the sheet.

Linnings are fixed 10mm off the floor.

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

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