

FC C 3 - 15mm Fire Resistant Gypsum Board - Internal Ceiling

Assembly #	Type	Stud Size (mm)	Steel			Interior Lining	Cavity Fill	Fire Rating Side	Fire Rating (Min.)
			Thickness (mm)	Coating	Grade				
FC C 3	Internal Ceiling	FRAMECAD® Ceiling Battens	Batten 0.55 Minimum	Z275	G350 to G550	FRAMECAD® 15mm Fire Resistant Gypsum Board	Rockwool or Glasswool min. R-Value 1.9 M ² K/W	Ceiling	30 min. Ref. FCTR.1401

Ceiling Batten

89mm to 150mm web joists at maximum 600mm centers. FRAMECAD® Ceiling Batten spacing shall be at 450mm centers maximum.

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® 15mm Fire Resistant Gypsum Board fixed to FRAMECAD® cold formed steel ceiling battens. Full length sheets shall be used where possible. All butt joints must be formed over support.

Linings are fixed flush with wall lining.

Fastening
Ceiling Lining

FRAMECAD® 15mm Fire Resistant Gypsum Board to be fixed using 001848 FRAMECAD® 6g x 32mm Bugle Head, Drill Point screws, at 200mm centers along sheet perimeter and intermediate support. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be touch fit.

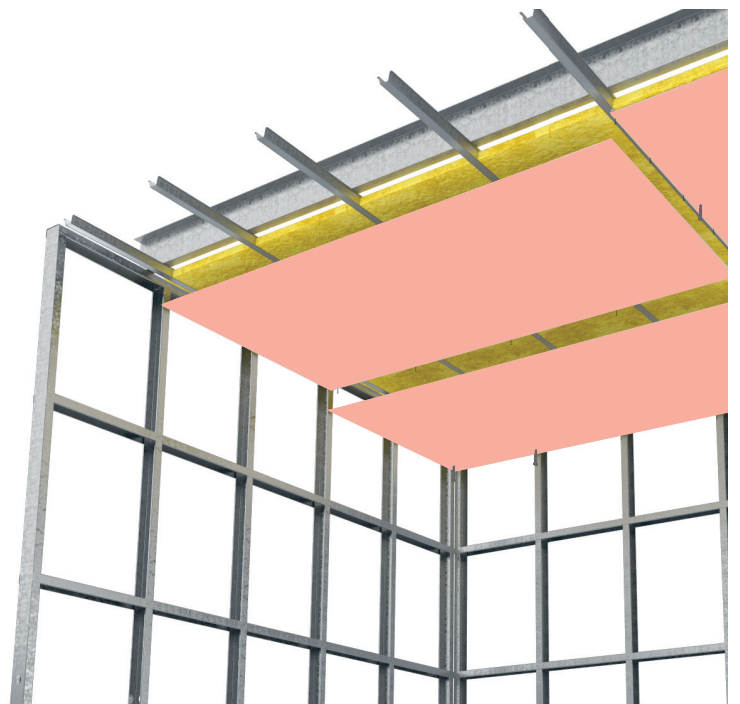
Note: FRAMECAD® recommends a glue and screw method to ensure linings are affixed to wall, ceiling and floor frames. Glue dabs must be intermittent with a minimum distance of 100mm from fastening placement.

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 a sealant to prevent penetration of flame.



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 C 3 - 15mm Fire Resistant Gypsum Board - Internal Ceiling

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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FRAMECAD® Ceiling Assembly Solution
August 2013

9.5mm Gypsum Board - Internal Ceiling

Assembly #	Stud Size (mm)	Thickness (mm)	Coating	Grade	Insulation	Interior Lining	Fire	Acoustic STC dB	Thermal R (m² KW)
FC C 2	FRAMECAD® Ceiling Battens	8.55 Minimum	Z275	G250 to G300	Glasswool (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 batt into the spaces and cutting with a sharp utility knife. Leave an extra 25mm (1 1/2 inch) of length for a complete fit. Snuff strips of batten into spaces. The insulation should fit snugly, don't pack it.

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

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

Lining
Lining are fixed flush with wall lining.

Fastening
Ceiling Lining
FRAMECAD® 9.5mm Gypsum Board to be fixed using 001888 FRAMECAD® 6 x 32mm Bugle Head, Drill Point screws, at 300mm centres along the perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be staggered and square to.

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

Joining and Finishing
All screw heads to be mopped and all sheet joints to have a stop and stopped in accordance with the stopping / joining component manufacturers recommendations.

FRAMECAD® Wall Assembly Solution
August 2013

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

Assembly #	Stud Size (mm)	Thickness (mm)	Coating	Grade	Insulation	Interior Lining	Fire	Acoustic STC dB	Thermal R (m² KW)
FC EW 2	80 to 100	12 to 14.8	Z275	G250 to G300	FRAMECAD® 9.5mm Fibre Cement Weatherboards	FRAMECAD® 15mm Fire Retardant Gypsum Board	1 hr.	45	R = 1.6

Fastening and Wall Height
FRAMECAD® stud walls shall be 200mm minimum. Stud spacing shall be at 800mm centres maximum. Frame height as determined by specific design.

Ceiling
One layer of FRAMECAD® 9.5mm Gypsum Board fixed to FRAMECAD® stud formed steel wall frame. All end joints must be staggered and square to.

Note: Check for a minimum 50mm off ground level unless a "Z" Rating is provided or as per local building regulations.

Building Wrap
FRAMECAD® stud walls shall be fixed using 001888 FRAMECAD® 6 x 32mm Bugle Head, Drill Point screws, at 300mm centres along the perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be staggered and square to.

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

Joining and Finishing
All screw heads to be mopped and all sheet joints to have a stop and stopped in accordance with the stopping / joining component manufacturers recommendations.

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This document is current as at July 2015 and supersedes all previous versions of the FRAMECAD® FC C 3.

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