

**FC PW 5 - 12mm Standard Gypsum Board - Internal Wall Partition**

Assembly #	Wall Type	Stud Size (mm)	Steel			Cavity Fill	Interior Lining	Fire Rating (Min)	Sound Rating (STC, dB)	Thermal Rating (M <sup>2</sup> K/W)
			Thickness (mm)	Coating	Grade					
FC PW 5	Interior Wall Partition. Non-load Bearing	89 to 150	0.75 to 2.00	Z275	G350 to G500	Rockwool or Glasswool	FRAMECAD® 12mm Standard Gypsum Board	30 min	36	0.18
						Ratings based without cavity fill				

**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.

**Cavity Fill (Optional)**

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 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.

Above rating calculations not dependent on cavity fill.

**Lining**

One layer of FRAMECAD® 12mm Standard Gypsum Board on each 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 Standard Gypsum Board to be fixed using 001848 FRAMECAD® 6g x 32mm Bugle Head Drill Point screws, at 300mm centers along sheet perimeter and center studs. Fastening placement should be 12mm from sheet edge and 50mm from sheet corners. All end joints must be touch fitted.

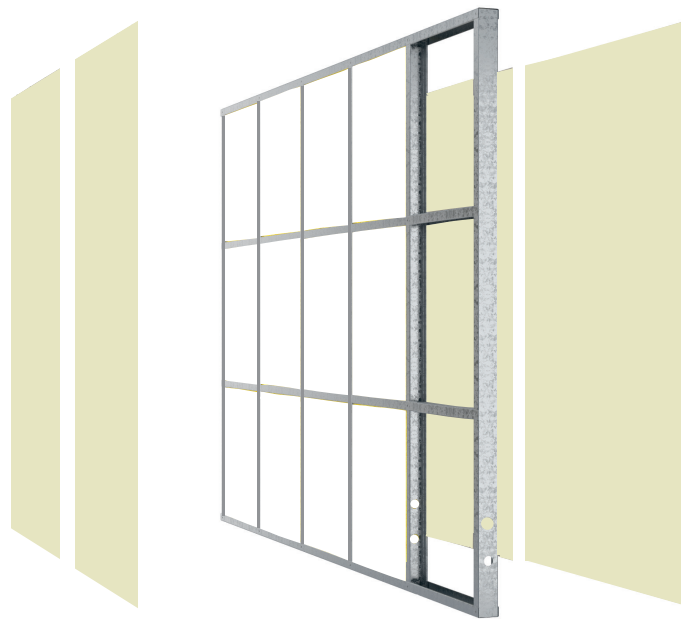
**Lining**

FRAMECAD® 12mm Standard Gypsum Board to be fixed using 001848 FRAMECAD® 6g x 32mm Bugle Head Drill Point screws, at 300mm centers along sheet perimeter and center 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 stopped and all sheets joints to have reinforced tape and stopped in accordance with the stopping/ jointing compound manufacturers recommendations.



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 PW 5 - 12mm Standard Gypsum Board - Internal Wall Partition

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. [www.framecad.com](http://www.framecad.com)

**FRAMECAD® Ceiling Assembly Solution**  
August 2013

9.5mm Gypsum Board - Internal Ceiling

Assembly #	Stud (mm)	Thickness (mm)	Coating	Grade	Insulation	Interior Lining	Target Rating		
							Fire	Acoustic (STC dB)	Thermal R (m²K/W)
FC 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. Squirt strips of batts 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 20mm 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.

**Jointing and Finishing**  
All screw heads to be stopped and all sheet joints to be stopped and stopped 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 assistance 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 x 15mm Fire Retardant Gypsum Board

Assembly #	Stud System	Thickness (mm)	Coating	Grade	Interior Lining	Insulation	Building Wrap	Fastener	Target Rating		
									Fire	Acoustic (STC dB)	Thermal R (m²K/W)
FC 1W.2	89 T50	0.75 to 2.00	Z275	G250 to G300	FRAMECAD® 15mm Fibre Cement Weatherboards	FRAMECAD® 15mm Fibre Cement Weatherboards	FRAMECAD® 15mm Fibre Cement Weatherboards	FRAMECAD® 15mm Fibre Cement Weatherboards	1 hr.	45	R=1.0

**Fastening and Wall Height**  
FRAMECAD® 15mm Fibre Cement Weatherboards shall be fixed using 001149 FRAMECAD® 4mm x 20mm Bugle Head Dill Point screws. All end joints must be flush to face.

**Building Wrap**  
The wall height shall be a minimum of 2000mm. The wall height shall be a minimum of 2000mm. The wall height shall be a minimum of 2000mm.

**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. Squirt strips of batts into spaces. The insulation should fit snugly, don't pack it.

**Lining**  
FRAMECAD® 15mm Fibre Cement Weatherboards shall be fixed using 001149 FRAMECAD® 4mm x 20mm Bugle Head Dill Point screws. All end joints must be flush to face.

**Jointing and Finishing**  
All screw heads to be stopped and all sheet joints to be stopped and stopped 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 assistance is required. Building components may perform an entirely different manner and may not meet the intended performance.

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