

## FC PW 4 - 6mm Fibre Cement Sheet - Internal Wall Partition

Assembly #	Wall Type	Stud Size (mm)	Steel			Cavity Fill	Interior Lining	Fire Rating Side	Fire Rating (min)	Sound Rating (STC dB)
			Thickness (mm)	Coating	Grade					
FC PW 4	Interior Wall Partition Non-load Bearing	89 to 150	0.75 to 2.00	Z275	G350 to G550	Rockwool or Glasswool	FRAMECAD® 6mm Fibre Cement Sheet	Both Sides	15min	36
						Ratings based without cavity fill			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.

**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 insulation to size using a sharp utility knife, allowing an additional 25mm (1") to both the width and length for a snug fit.

Above rating calculations not dependent on cavity fill.

**Lining**

One layer of FRAMECAD® 6mm Fibre Cement Sheet 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**
**Lining**

FRAMECAD® 6mm Fibre Cement Sheet to be fixed using 030149 FRAMECAD® 8g x 35mm X-Drive®, 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.

*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**

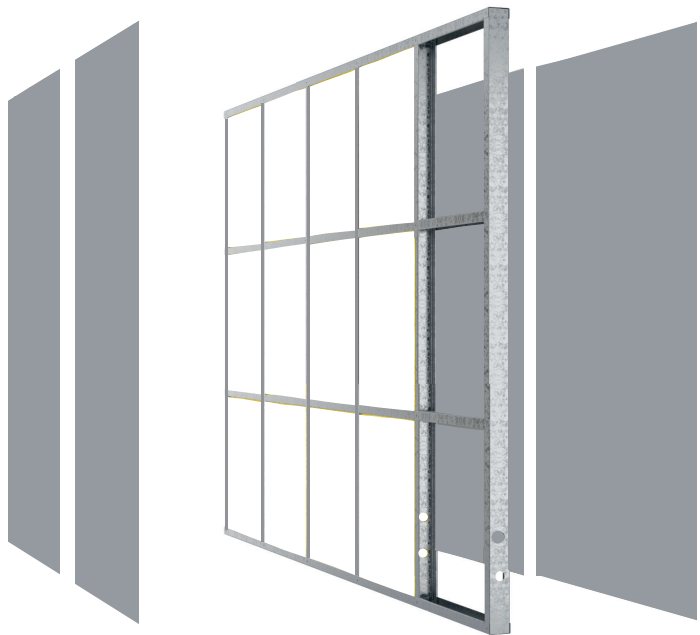
All screw / fastener heads should be covered with joint compound and all sheet joints to have reinforced tape and be stopped / jointed in accordance with the stopping / jointing compound manufacturers recommendations.

**Fire Stopping / Jointing**

Seal any gaps and service penetrations with an intumescent sealant to prevent penetration of flame.

**Acoustic Stopping/ Jointing**

Apply sound seal at junctions between drywall frame and adjoining structure. Sound seal is to be provided as a continuous band to clean, dry, dust free surfaces, leaving no gaps. Seal any gaps and service penetrations.



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 4 - 6mm Fibre Cement Sheet - 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.

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**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 C 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**  
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.

**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 30mm from sheet corners. All end joints must be to perimeter. FRAMECAD® recommends a glue and screw method to aid in affixing to wall, ceiling and floor frame. Glue tabs must be at least a minimum distance of 100mm from fastening placement.

**Jointing and Finishing**  
All screw heads to be stopped and all sheets joints to have a recessed joint. The recessed joint should be finished in accordance with the stopping / jointing compound manufacturer's recommendations.

**Notes:** In order for FRAMECAD® solutions to perform as tested and designed an appropriate level of skill, training or professional judgement by building components may produce an entirely different solution and may include engineering requirements.

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**FRAMECAD® Wall Assembly Solution**  
August 2013

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

Assembly #	Stud (mm)	Thickness (mm)	Coating	Grade	Interior Lining	Building Wrap	Insulation	Interior Lining	Target Rating		
									Fire	Acoustic (STC dB)	Thermal R (m²K/W)
FC W 2	85 to 100	9.75 to 12.0	Z275	G250 to G300	FRAMECAD® 15mm Fire Retardant Gypsum Board	FRAMECAD® Self-Adhesive Building Wrap	Glasswool	FRAMECAD® 15mm Fire Retardant Gypsum Board	1 hr.	45	R = 1.0

**Framing and Wall Height**  
FRAMECAD® wall height shall be 30mm minimum. 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, DRI 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 to perimeter. FRAMECAD® recommends a glue and screw method to aid in affixing to wall, ceiling and floor frame. Glue tabs must be at least a minimum distance of 100mm from fastening placement.

**Building Wrap**  
One layer of FRAMECAD® Self-Adhesive Building Wrap to be applied to the exterior face of the framing. The wrap shall be applied in accordance with the manufacturer's recommendations.

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

**Lining**  
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 30mm from sheet corners. All end joints must be to perimeter. FRAMECAD® recommends a glue and screw method to aid in affixing to wall, ceiling and floor frame. Glue tabs must be at least a minimum distance of 100mm from fastening placement.

**Jointing and Finishing**  
All screw heads to be stopped and all sheets joints to have a recessed joint. The recessed joint should be finished in accordance with the stopping / jointing compound manufacturer's recommendations.

**Notes:** In order for FRAMECAD® solutions to perform as tested and designed an appropriate level of skill, training or professional judgement by building components may produce an entirely different solution and may include engineering requirements.

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