

FC R 1 - Corrugated Sheeting - Roofing

Assembly #	Stud Size (mm)	Steel			Roofing	Underlay
		Thickness (mm)	Coating	Grade		
FC R 1	FRAMECAD® Roof Battens	Batten 0.55 Minimum	Z180 to Z350	G350 to G550	FRAMECAD® Corrugated Steel Sheeting	FRAMECAD® Tuff Stuff Wrap

Battens

FRAMECAD® Batten spacing shall be at 900mm centers maximum.

Roofing

One sheet of FRAMECAD® Corrugated Steel Sheeting fixed to FRAMECAD® cold formed steel roof battens.

Minimum roof pitch 8 degrees.

Underlay

Install with a 150mm overlap between runs, with each higher run lapping over the layer below. The product must be installed in such a way to prevent water from pooling. The wrap may be installed across spans up to 1200mm without the need of a supporting mesh. Install roofing material 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.

Fastening
Roofing

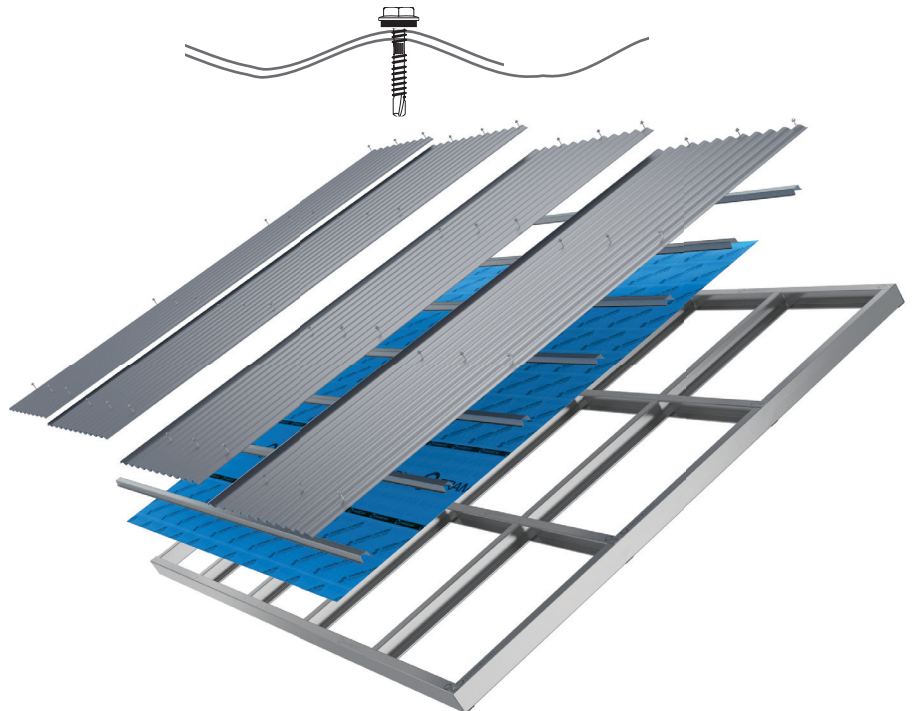
FRAMECAD® Corrugated Steel Sheeting to be fixed using 002409 FRAMECAD® Hex Head, 12g x 25mm Drill Point screws with EPDM Washers, at 300mm on all roofing battens. Fastening placement should be through the middle of each batten and positioned on the ridge of the corrugation.

Jointing

All sheets should be lapped so that the top sheet ends are on top of the bottom sheet to prevent water ingress.

If end lapping is required ensure that top sheet laps a minimum distance of 250mm over the bottom sheet.

The correct way to lap sheets



NOTE: In order for FRAMECAD® Roof 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 C 2	FRAMECAD® Ceiling Battens	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 batting 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 battens. 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® 6x 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.

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 have a recessed joint in accordance with the stopping / jointing compound manufacturers recommendations.

Building Wap
FRAMECAD® 9.5mm Gypsum Board to be fixed using 001848 FRAMECAD® 6x 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.

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 have a recessed joint 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. Squirt strips of batting 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 battens. Full length sheets shall be used where possible. All butt joints must be formed over framing.

Linnings are fixed flush with wall lining.

FR: In order for FRAMECAD® solutions to perform as tested and designed an appropriate level of detail is required. Contractors building components may produce an entirely different solution and may not meet the performance requirements.

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FRAMECAD® Wall Assembly Solution
August 2013

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

Assembly #	Stud Spacing (mm)	Thickness (mm)	Coating	Grade	Interior Lining	Insulation	Building Wap	Weatherboards	Target Rating		
									Fire	Acoustic, STC dB	Thermal R (m²K/W)
FC RW 2	450	9.5	Z275	G250 to G300	FRAMECAD® 9.5mm Gypsum Board	FRAMECAD® Glasswool	FRAMECAD® Cold Formed Steel Wall Framing	FRAMECAD® 9mm Fibre Cement Weatherboards	30 min.	45	R = 1.6

Framing and Wall Height
FRAMECAD® cold formed steel wall framing shall be 450mm centers maximum. Stud spacing shall be at 450mm centers maximum. Frame height as determined by specific design.

Ceiling
One layer of FRAMECAD® 9.5mm Gypsum Board to be fixed using 001848 FRAMECAD® 6x 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.

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 have a recessed joint in accordance with the stopping / jointing compound manufacturers recommendations.

Building Wap
FRAMECAD® 9.5mm Gypsum Board to be fixed using 001848 FRAMECAD® 6x 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.

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 have a recessed joint 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. Squirt strips of batting 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 battens. Full length sheets shall be used where possible. All butt joints must be formed over framing.

Linnings are fixed flush with wall lining.

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