

FC R 3 - Boardsheet (SSQ) Metal Roofing

Assembly #	Stud Size (mm)	Steel			Roofing	Underlay
		Thickness (mm)	Coating	Grade		
FC R 3	FRAMECAD® Roof Purlins	0.75 Minimum	Z275	G250 to G500	FRAMECAD® Board Sheet Metal	FRAMECAD® Tuff Stuff Wrap

Purlins

FRAMECAD® Purlin spacing shall be as determined by engineer.

Roofing

One layer of FRAMECAD® Broad Sheet Tray Roofing fixed to FRAMECAD® cold formed steel roof purlins.

Minimum roof pitch 5 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.

If using Foil Faced Underlay, for it 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.

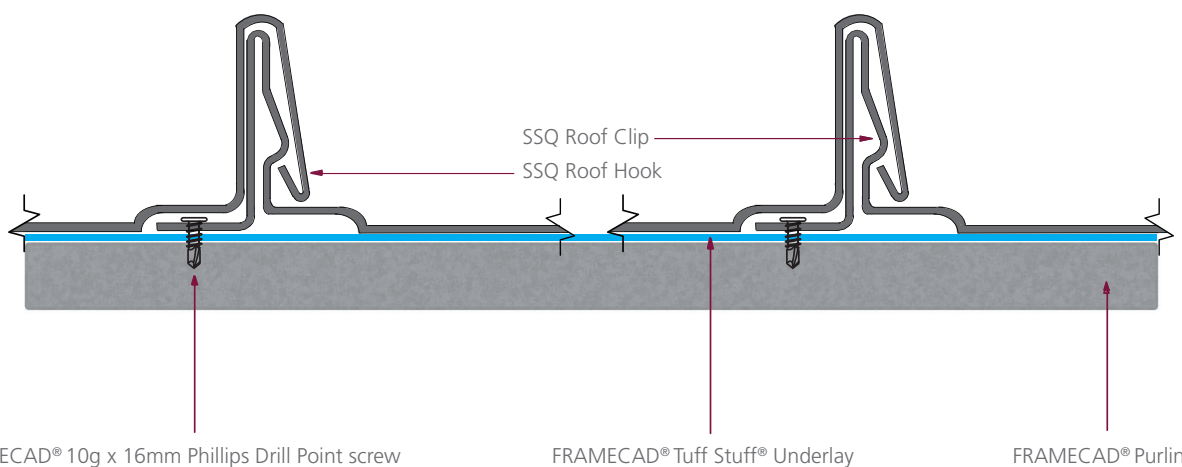
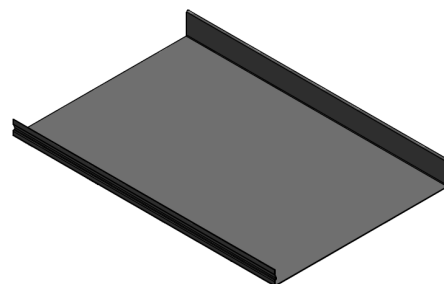
Note: For regions that require snow loading the use of OSB plywood is essential. This is to be installed between the FRAMECAD® purlin and the underlay using 001848 FRAMECAD® 6g x 32mm screws.

Fastening
Roofing

FRAMECAD® Broad Sheet Tray Roofing is screw fastened to FRAMECAD® steel purlins using 001539 FRAMECAD® 10g x 16mm Phillips Drill Point screw, along each trays purlin spacing.

Maintenance

All roofing and cladding products are subject to the cumulative effects of weather, dust and other deposits. Normal rain washing will remove most accumulated atmospheric contaminants from roofs. For wall cladding, manual washing every 3 to 12 months, depending on the paint system, is recommended in moderate to very severe environments to prevent accumulation of dirt, debris or other material not removed by rain washing. For areas that do not receive any or adequate rain washing (called unwashed areas) such as soffits, wall cladding under eaves, underside of gutters, fascias, sheltered areas of garage doors and unwashed roof areas, more extensive manual washing may be required.



NOTE: In order for FRAMECAD® Roof Solution 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 deliver a full range of building FRAMECAD® Sub-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® 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 R 3	450	9.5	Z275	G250 to G300	Classical (Optional)	FRAMECAD® 9.5mm Gypsum Board	30 min.	45	R = 1.3

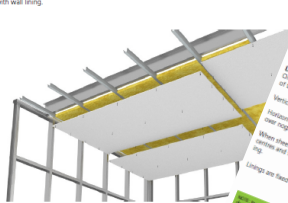
Ceiling Batten
 FRAMECAD® Ceiling Batten spacing shall be at 450mm centers maximum.

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 1/2 inch) of length for a complete fit. Slight 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 battens. 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 50mm from sheet corners. All end joints must be staggered and flush to face.

Jointing and Finishing
 All screw heads to be stopped and all sheets joints to have a minimum of 10mm overlap. All joints must be formed over framing.



FRAMECAD® 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 Wrap	Framing	Interior Lining	Target Rating		
										Fire	Acoustic STC dB	Thermal R (m²K/W)
FC RW 2	450	9.5	Z275	G250 to G300	FRAMECAD® 9.5mm Fibre Cement Weatherboards	FRAMECAD® 15mm Fire Retardant Gypsum Board	FRAMECAD® 0.15mm Self-Adhesive Membrane	FRAMECAD® 45mm Stud	FRAMECAD® 9.5mm Gypsum Board	1 hr.	45	R = 1.0

Framing and Wall Height
 FRAMECAD® wall height shall be 3000mm 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® 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 50mm from sheet corners. All end joints must be staggered and flush to face.

Building Wrap
 One layer of FRAMECAD® 0.15mm Self-Adhesive Membrane to be applied to the exterior face of the wall framing. All joints must be staggered and flush to face.

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 1/2 inch) of length for a complete fit. Slight 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 50mm from sheet corners. All end joints must be staggered and flush to face.

Jointing and Finishing
 All screw heads to be stopped and all sheets joints to have a minimum of 10mm overlap. All joints must be formed over framing.



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

DISCLAIMER:

This document is current as at Dec 2013 and supersedes all previous versions of the FRAMECAD® FC R 3.

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