

FC EW 2 - 9mm Fibre Cement Weatherboards + 15mm Fire Resistant Gypsum Board

Assembly #	Wall Type	Stud Size (mm)	Steel			Exterior Cladding	Building Wrap	Cavity Fill	Interior Lining	Fire Rating Side	Fire Rating (Min)	Acoustic Rating (STC dB)	Thermal Rating (M ² K/W)
			Thickness (mm)	Coating	Grade								
FC EW 2	Exterior/ Interior Load Bearing Wall	89 to 150	0.95 to 2.00	Z275	G350 to G550	FRAMECAD® 9mm Fibre Cement Weatherboards	FRAMECAD® Tyvek®	Rockwool or Glasswool min. R-Value 1.9 M ² K/W	FRAMECAD® 15mm Fire Resistant Gypsum Board	Inside	60min.	45	1.70
												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.

Cladding

One layer of FRAMECAD® 9mm Fibre Cement Weatherboards on the exterior side of FRAMECAD® cold formed steel wall frames. All end joints must be staggered and touch fit and covered with a suitable soaker to prevent water penetration.

Claddings are fixed a minimum 50mm off ground level unless a "Z" flashing is provided or as per local building regulations.

All Weatherboards to extend below the finished floor level by a minimum of 50mm.

Building Wrap

Install with a 150mm overlap between runs, with each higher run lapping over the layer below. Install external cladding without delay.

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.

Glaswool or Rockwool min R-Value 1.9 M² K/W.

Lining

One layer of FRAMECAD® 15mm Fire Resistant Gypsum Board on internal side of the 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® 9mm Fibre Cement Weatherboards to be fixed using 030149 FRAMECAD® 8g x 35mm X-Drive® Winged Drill Point screws. All end joints must be touch fit. Fasteners to be placed under the lap directly into the stud, and if necessary face fixed.

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 centre studs. 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

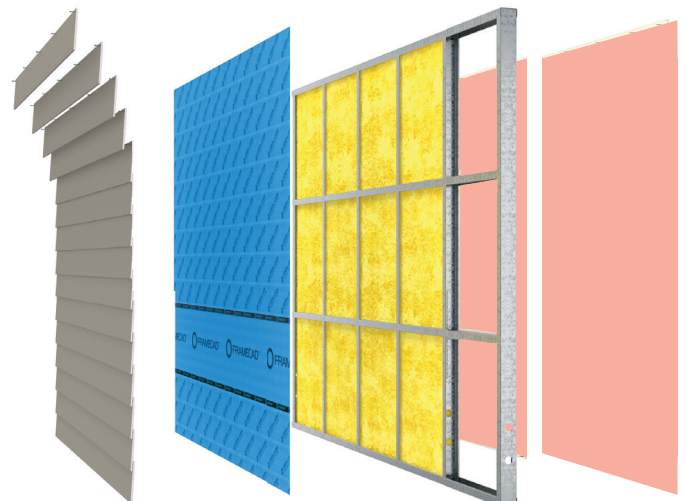
All screw / fastener heads should be covered with joint compound and all sheet joints to have reinforced tape and stopped / jointed in accordance with the stopping / jointing compound manufacturers recommendations.

Fire Stopping / Jointing

Seal any gaps and service penetrations with 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 EW 2 - 9mm Fibre Cement Weatherboards + 15mm Fire Resistant Gypsum Board

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

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 (m²K/W)	Target Rating
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 space and cutting with a sharp utility knife. Leave an extra 25mm (1/2 inch) of length for a complete fit. Snuff strips of batten into space. The insulation should fit snugly, don't pack it.

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.

Linings 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 burred off.

Note: FRAMECAD® recommends a glue and screw method to aid in fitting to wall, ceiling and floor frame. Glue dabs must be applied 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 minimum 100mm overlap between joints, with each layer not having more than 200mm overlap between joints. The plaster is to be applied to all sheet joints and corners. All joints must be mopped and burred off.

FRAMECAD® Wall Assembly Solution
August 2013

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

Assembly #	Stud Size (mm)	Thickness (mm)	Coating	Grade	Interior Cladding	Building Wrap	Insulation	Interior Lining	Fire	Acoustic STC dB	Thermal R (m²K/W)	Target Rating
FC EW 2	80 to 100	9.25 to 14.00	Z275	G250 to G300	FRAMECAD® 9.5mm Fire Retardant Gypsum Board	FRAMECAD® 15mm Glasswool Weatherboards	FRAMECAD® 15mm Glasswool Weatherboards	FRAMECAD® 15mm Glasswool Weatherboards	1 hr.	45	R = 1.6	

Framing and Wall Height
FRAMECAD® stud walls shall be 200mm minimum. Stud spacing shall be at 600mm centres maximum. Frame height is determined by specific design.

Cladding
One layer of FRAMECAD® 9mm Fibre Cement Weatherboards on the exterior. Check for a minimum 50mm off ground level unless a "Z" Rating is provided or as per local building regulations.

Building Wrap
All studs to extend below the finished floor level by a minimum of 50mm. The wrap shall be applied to all exterior walls. The wrap shall be applied to all exterior walls. The wrap shall be applied to all exterior walls. The wrap shall be applied to all exterior walls.

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 batt into the space and cutting with a sharp utility knife. Leave an extra 25mm (1/2 inch) of length for a complete fit. Snuff strips of batten into space. The insulation should fit snugly, don't pack it.

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

Lining
One layer of FRAMECAD® 15mm Fire Retardant Gypsum Board on internal side of the cladding steel wall frame.

Vertical Framing
Full length sheets shall be used where possible. When not possible, sheets shall be cut to fit. All joints must be formed over framing.

Horizontal Framing
Full length sheets shall be used where possible. When not possible, sheets shall be cut to fit. All joints must be formed over framing.

Joining and Finishing
All screw heads to be mopped and all sheet joints to have a minimum 100mm overlap between joints, with each layer not having more than 200mm overlap between joints. The plaster is to be applied to all sheet joints and corners. All joints must be mopped and burred off.

www.framecad.com
Copyright 2013 FRAMECAD® Ltd. All rights reserved.

DISCLAIMER:

This document is current as at July 2015 and supersedes all previous versions of the FRAMECAD® FC EW 2.

The material in this document is provided for general information purposes only.

Although all reasonable efforts have been made to ensure that the information is current, relevant and accurate as at the date of issue, the information provided is selective and may not be complete or suitable for your intended use or jurisdiction.

No information in this document constitutes, or shall be relied upon as constituting, the giving of advice of any nature. Nor is any such information to be used as a substitute for (1) specific advice from appropriate independent professional advisors in your jurisdiction regarding your particular facts and circumstances or (2) compliance with the requirements of applicable regulatory authorities, standards, regulations, laws, or building codes.

You should not act (or refrain from acting) based upon information provided by FRAMECAD® without independently verifying the original source information and, making your own independent assessment, with the assistance of appropriate independent professional advisors, regarding your particular facts and circumstances.

FRAMECAD® makes no representation or warranty, express or implied, as to the accuracy, completeness or suitability for purpose, of any information in this document.

To the extent permitted by law, FRAMECAD® accepts no responsibility to the recipient or any other person for any loss, damage, cost or expense (whether direct or indirect and however caused, including by negligence) incurred and arising out of or in connection with any use or reliance by any of them on the information in this document including, but not limited to, as a result of any error, omission or misrepresentation in any information or statement in this document. This limitation of liability includes but is not limited to incidental, special or consequential damages, damages for loss of business or other profits. Liability which cannot legally be excluded is limited to the maximum extent possible."

Any reproduction or dissemination of all or any part of this document is prohibited, except with the prior written consent of FRAMECAD® Ltd.