

STANDARD INSTALLATION AND FINISH

A quick reference guidance for installation and use of Gypsum Fibreboards and Protektor Steel in XPR Systems

FERMACELL is installed slightly differently from standard drylining. FERMACELL has a set of system accessories that **MUST** be used.

- 1 Before you check you have the correct accessories to suit the board type. e.g. Square Edge or Tapered Edge FERMACELL.**
 - FERMACELL Jointfiller.
 - FERMACELL Jointstik (Glue) – for square edged jointing only.
 - FERMACELL Screws, Drywall screws do **NOT** work in XPR Systems.
 - FERMACELL Fibre tape or Paper tape – for Tapered edge jointing only.
 - FERMACELL Fine Surface Treatment (FST) for final finishing ready for painting.
- 2 FERMACELL is heavier than other boards. Ensure it is lifted correctly.**
 - Lift boards on edge.
 - We recommend the use of board lifters, and that they should be lifted in accordance with manual handling guidelines.
 - Ensure the boards are stored on a flat even surface, in dry conditions.
 - Protect the boards and accessories from the weather.
- 3 Drywall screw guns with a minimum head speed of 3500rpm should be used whenever possible.**
 - FERMACELL screws should be fixed at 250mm centres for walls (12.5mm FERMACELL), 200mm centres for ceilings (10mm or 12.5mm FERMACELL).
 - FERMACELL boards can be fixed board to board (For F90 or greater fire performance fix the second layer of board back to the studs).
 - Fixing heads should finish just below the surface of the board.
 - Screws should be fixed no closer than 10mm from the board edge or 50mm from the board corner.

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4 Fixing Boards

- Boards should be fixed allowing a minimum 5mm gap from the floor. Use packers and remove after installation.
- **NEVER** dry butt FERMACELL boards to different building materials. Leave a 5mm gap for a flexible sealant – sealant to be fire rated as required.
- There are **three** different methods of jointing. Gluing for factory cut square edge boards, and filling for scored and snapped or Tapered edge boards.
- Filler joints must be backed.
- Angle beads and stop beads are not required with FERMACELL.
- All internal and external corners should be jointed.
- Cross Joints (+) are **NOT** permitted, 'T' joints are recommended.
- When double layering, stagger all joints by a minimum of 200mm.
- Joints **MUST** be mirrored on either side of the same stud.
- For boarding to one side of a stud only on independent linings, then reduce the stud centres to 400mm.

5 Protektor Steel Studs

- Steel studs must be 0.6 gauge steel or greater with a 50mm wide fixing face.
- Do **NOT** fix vertical steel studs to header or footer tracks.
- Do **NOT** screw FERMACELL boards to steel header or footer tracks, fix to vertical studs only.
- Always fix to the open side of the steel stud first.
- Fit floor tracks to floor at 600mm c/c.

6 Closing the partition

- Board joints should be mirrored on either side of the studs and not staggered.
- Align steel studwork so that when boarding you fix into the "open" side of the stud first.

7 Head deflection details

- A number of head deflection details are available, depending on the performance requirements of the partition.
- Please see the XPR data sheets or call our Technical Helpline for more details.

8 Expansion joints

- Expansion joints are required in XPR walls at every 8 metres when using tapered-edge board or the Jointfiller jointing method; and at every 10 metres if using the Jointstik jointing method.
- The detail of the expansion joint depends upon the performance requirement of the partition (eg. Fire, Acoustic). Please see the XPR data sheets or call our Technical Helpline for more details.

9 Finishing the surface

- FERMACELL Fine Surface Treatment (FST) gives a smooth finish ready for painting, eliminating the need for a plaster skim.
- There is no requirement to seal the boards before application of FST.
- FERMACELL Fine Surface Treatment is applied with a spatula or trowel as a thin face fill, approximately 1/2mm thick. Apply, smooth off and allow to dry. Do **NOT** work the FST while it is drying! FST dries in approximately 45 minutes.
- Do not attempt to apply a 3mm thick skim of Fine Surface Treatment in one layer. A build up of layers can be used to give a greater thickness if required.

ROCKWOOL 'Flexi' is a unique insulation product with a patented flexible edge along one side.

This unique 'Flexi' edge is produced using patented technology to ensure a perfect fit is maintained between the product and its supporting framework. This ensures the insulation's integrity.

Flexi is designed for a host of applications where perfect fitting insulation is essential, in walls, partitions, floors and roofs. The 'Flexi' edge allows the product to be tightly fitted between metal frames, without the need for cutting or waste.

Advantages

- Patented 'Flexi' edge offers accurate fit to all widths.
- Will not slump if studs shrink.
- Multi-application, fits all typical metal and timber frame spacing.
- No waste.
- Excellent thermal, acoustic and fire properties.
- Easy to handle and install without gaps.

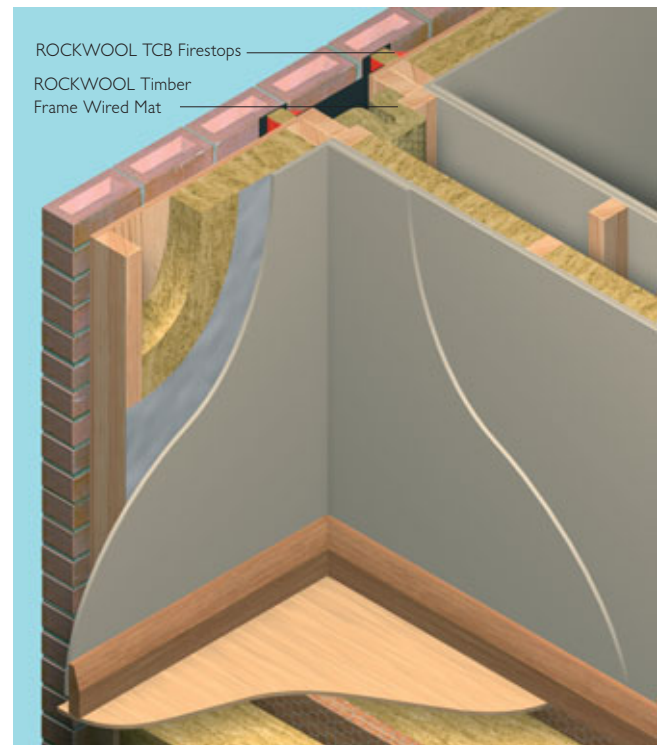


Diagram showing typical application for ROCKWOOL Flexi and other ROCKWOOL Firestop products

PERFORMANCE & PROPERTIES

Fire Classification

ROCKWOOL Flexi achieves a reaction to Fire classification of A1, as defined in EN13501-1.

Thermal Performance

ROCKWOOL Flexi has a thermal conductivity of 0.037 W/mK when tested to EN13162.

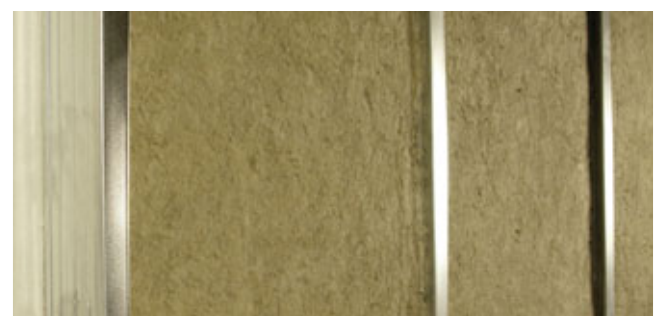
WORK ON SITE

Handling and storage

ROCKWOOL Flexi Slabs are light and easy to cut to any shape with a sharp knife. They are shrink wrapped in polyethylene for short term protection. For long term protection they should be stored indoors or under a waterproof covering.

Maintenance

Once installed ROCKWOOL Flexi needs no maintenance.



Metal studs Push-in 'Flexi' edge...and let go for a perfect fit

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Health and safety

Current HSE 'CHIP' Regulations and EU directive 97/69/EC confirm the safety of ROCKWOOL mineral wool; ROCKWOOL fibres are not classified as a possible human carcinogen.

The maximum exposure limit for mineral wool is 5mg/m³, 8 hour time-weighted average.

Environment



ROCKWOOL insulation relies on entrapped air for its thermal properties; air is not a VOC and it does not have Global Warming Potential (GWP) or Ozone Depleting Potential (ODP).

XPR reserves the right to alter or amend the specification of products without notice as our policy is one of constant improvement.

The information contained in this data sheet is believed to be correct at the date of publication. Whilst ROCKWOOL will endeavour to keep its publications up to date, readers will appreciate that between publications there may be pertinent changes in the law, or other developments affecting the accuracy of the information contained in this data sheet.

i **More information**
This guide is not an exhaustive list, but covers most of the general installation requirements. Refer to the main user guide for full guidance. See www.xprsystems.co.uk or www.rockwool.co.uk