



TECHNICAL DATA SHEET

Tekboard FR (Fire Resistant Plasterboard)

Square Edge and Tapered Edge

Product overview

Tekboard FR is a fire-resistant gypsum plasterboard designed for internal wall, lining and ceiling systems requiring enhanced fire performance. Its gypsum core is reinforced with fibreglass to support strength and structural integrity when incorporated into a correctly designed and installed fire-resisting system.

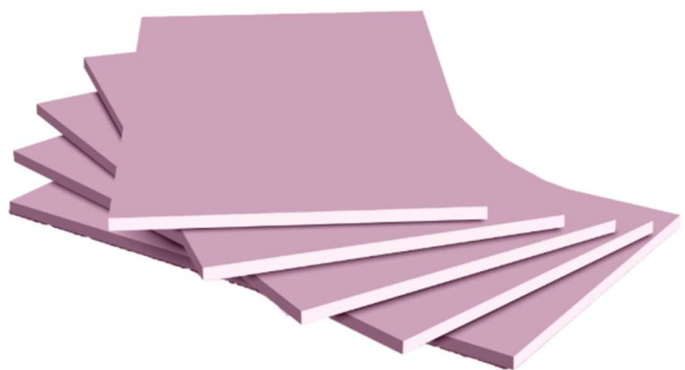
Product range

Product	Edge	Thickness	Board size	Nominal weight*
Tekboard FR - SE 12.5	SE	12.5 mm	2400 x 1200 mm	25.9 kg
Tekboard FR - SE 15.0	SE	15.0 mm	2400 x 1200 mm	31.1 kg
Tekboard FR - TE 12.5	TE	12.5 mm	2400 x 1200 mm	25.9 kg
Tekboard FR - TE 15.0	TE	15.0 mm	2400 x 1200 mm	31.1 kg

*Calculated from the stated 12.5 mm mass of 9.0 kg/m² and prorated by thickness. Figures are rounded to the nearest 0.1 kg.

Applications

- Fire-resisting partition systems
- Suspended and direct-fix ceiling systems
- Wall linings and encasement systems
- Shaft wall constructions
- Protected corridors, escape routes and circulation areas
- Commercial and residential buildings



Features and finishing

- Easy, dry installation
- Fibreglass-reinforced gypsum core
- Designed to support enhanced fire resistance in complete systems
- Designed to help limit flame spread and smoke development
- High strength and resistance to cracking
- Suitable for wall, lining, ceiling and encasement applications
- Gypsum-based board suitable for recycling where appropriate facilities exist
- Compatible with standard jointing and decorative finishing systems

Product specification

Parameter	Specification
Standard board size	2400 x 1200 mm
Nominal board area	2.88 m ²
Thickness options	12.5 mm and 15.0 mm
Edge options	Square edge (SE) and tapered edge (TE)
Nominal density	720 kg/m ³
Mass per unit area	12.5 mm: 9.0 kg/m ² 15.0 mm: 10.8 kg/m ² *

*The 15.0 mm figure is prorated from the stated 12.5 mm mass per unit area. Calculated figures are rounded and may vary within normal manufacturing tolerances.

Surface finishing

Finish	Guidance
Paint	Suitable water-based or oil-based paint systems, following preparation and primer requirements.
Wallcoverings	Suitable for wallpaper, vinyl and decorative cladding systems, subject to the finish manufacturer's instructions.
Jointing	Use a compatible jointing compound and reinforcement system. The board may also receive an appropriate skim coat.

Fire performance

Complete-system performance

Fire resistance is determined by the complete construction, including board type and layers, framing, fixings, insulation, joints, perimeter seals and service penetrations. Tekboard FR does not have a standalone fire-resistance duration. Use a tested or technically assessed system appropriate to the project's fire strategy.

Physical properties

Nominal physical and dimensional properties for Tekboard FR fire-resistant plasterboard.

Property	Unit	Value	Test standard
Density	kg/m ³	720	EN 520+A1
Weight per unit area - 12.5 mm	kg/m ²	9.0	EN 520+A1
Weight per unit area - 15.0 mm*	kg/m ²	10.8	EN 520+A1
Length	mm	2400	EN 520+A1
Width	mm	1200	EN 520+A1
Depth of taper	mm	1.8	EN 520+A1
Width of taper	mm	50	EN 520+A1
Squareness of edges	mm	1.5	EN 520+A1
Core hardness	N	130	EN 520+A1
Edge hardness	N	135	EN 520+A1
End hardness	N	140	EN 520+A1
Flexural strength - longitudinal	N	570	EN 520+A1
Flexural strength - transverse	N	235	EN 520+A1
Nail pull strength	N	388	EN 520+A1

**The 15.0 mm mass per unit area is prorated from the stated 12.5 mm value. Other values are nominal and may vary within normal manufacturing tolerances.*

Standard and conformity reference

Product standard: EN 520+A1 - Gypsum plasterboards: definitions, requirements and test methods.

Installation recommendations

- Check boards before installation and do not use units that are wet, distorted or significantly damaged. Confirm the supporting frame or substrate is dry, secure and straight before fixing begins.
- Plan board orientation and joint positions before installation. Support board edges and stagger joints between layers where required by the system design.
- Follow the tested or technically assessed fire-resisting system exactly, including the specified framing, board thickness, number of layers, orientation and joint arrangement.
- Score and cut from the face side using suitable tools. Control dust during mechanical cutting or sanding using appropriate extraction, ventilation and personal protective equipment.
- Use the specified drywall screws for the frame, board thickness and number of layers. Follow the approved fixing centres, edge distances and screw penetration, and avoid breaking the paper face.
- Maintain specified movement joints, deflection details, perimeter gaps and service openings. Do not bridge structural movement joints with plasterboard.
- Do not substitute boards, framing, fixings, insulation, jointing materials or sealants unless the alternative is covered by the approved fire-system evidence.
- Maintain the specified board-layer sequence and stagger joints between layers. Fully support board edges and avoid unapproved gaps or discontinuities.
- Maintain fire-stopping continuity at heads, bases, abutments and junctions. Seal openings and service penetrations using the specified tested fire-stopping details, and do not create unapproved penetrations after completion.
- Treat tapered joints with compatible joint tape and jointing compound. Allow each coat to dry and finish in accordance with the compound manufacturer's instructions.
- Protect finished work from impact, moisture and excessive loading. Do not attach fixtures or imposed loads without suitable support or approved fixings.

System responsibility

Tekboard FR is one component within a complete fire-resisting system. Framing, insulation, fixings, jointing materials, perimeter seals, penetrations and installation details must match the relevant tested or technically assessed specification and the project's fire strategy.

Storage and handling

- Plan deliveries so boards are unloaded as close as practicable to the point of use, with clear access routes and suitable handling equipment available.
- Avoid unnecessary manual handling. Use mechanical aids, lifts or board trolleys wherever reasonably practicable and follow the site manual-handling assessment.
- Store boards flat on a firm, level base using adequate continuous supports or a purpose-designed rack. Do not leave large quantities leaning vertically where they could fall.
- Keep stacks stable, aligned and within the safe load capacity of the floor, pallet, supports and storage equipment.
- Store in a dry, covered and well-ventilated area, raised clear of the ground and protected from rain, standing water, condensation and prolonged direct sunlight.
- Keep protective wrapping in place until required but prevent trapped moisture and maintain ventilation where necessary.
- Allow boards to reach the ambient conditions of the installation area before fixing. Do not install damp boards.
- Keep access routes and storage areas tidy, level and well lit. Protect stacks from site traffic, forklifts, falling objects and edge impact.
- Handle boards carefully to protect faces, edges and corners. Use suitable lifting aids or an appropriate team-handling method where mechanical handling is not practicable.
- Do not drag boards across one another or across the floor. Lift clear before repositioning to avoid face damage and contamination.
- Inspect boards after storage and before installation. Segregate damaged or wet boards and dispose of or recycle waste through an appropriate facility.

Technical note

Nominal product information

Dimensions, density and board weights are nominal values and may vary within normal manufacturing tolerances. Calculated board weights are rounded to the nearest 0.1 kg. Product selection, fixing centres and installation details must follow the relevant project specification and approved system design.