



TECHNICAL DATA SHEET

Tekboard Elite Universal Performance Board

Tapered Edge

Product overview

Tekboard Elite Universal Performance Board is a combined fire- and moisture-resistant gypsum plasterboard for demanding internal wall, lining and ceiling systems. Its core incorporates fibreglass reinforcement and silicone-based water-repellent treatment to support enhanced fire performance, moisture resistance and durability within correctly designed and installed complete systems.

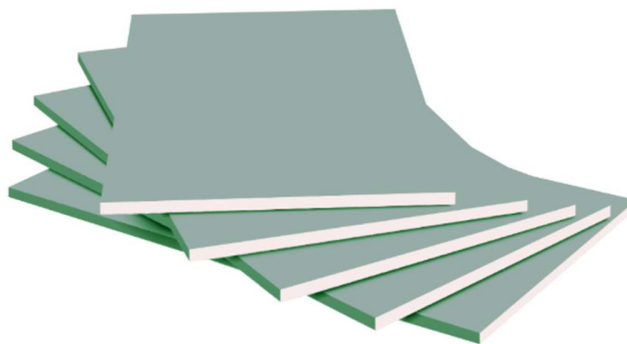
Product range

Product	Edge	Thickness	Board size	Nominal weight*
Tekboard Elite Universal Performance Board - TE 12.5	TE	12.5 mm	1200 x 2400 mm	34.2 kg
Tekboard Elite Universal Performance Board - TE 15.0	TE	15.0 mm	1200 x 2400 mm	41.0 kg

*Calculated from the stated nominal density of 950 kg/m³ and a board area of 2.88 m². Figures are rounded to the nearest 0.1 kg.

Applications

- Fire and moisture-resistant partition systems
- Suspended and direct-fix ceiling systems
- Wall linings, claddings and encasement systems
- Shaft wall constructions
- Hospitals, bathrooms, kitchens and airport interiors
- Commercial and residential buildings requiring combined performance



Features and finishing

- Easy, dry installation
- Combined fire- and moisture-resistant performance
- Fibreglass-reinforced gypsum core with hydrophobic water-repellent treatment
- Designed to support enhanced fire resistance in complete systems
- Suitable for wall, lining, ceiling, partition and shaft-wall applications
- Can support acoustic and thermal system performance when correctly specified
- 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	1200 x 2400 mm
Nominal board area	2.88 m ²
Thickness options	12.5 mm and 15.0 mm
Edge option	Tapered edge (TE) only
Nominal density	950 kg/m ³
Mass per unit area	12.5 mm: 11.9 kg/m ² 15.0 mm: 14.3 kg/m ² *

**Mass per unit area is calculated from the stated nominal density. 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.

Combined performance

Complete-system performance

Fire resistance is determined by the complete construction, including board layers, framing, fixings, insulation, joints, seals and penetrations; no standalone fire-resistance duration is assigned to the board. The product is moisture resistant, not waterproof, and does not replace tanking or waterproofing in wet zones. Use tested or technically assessed system details appropriate to the project requirements.

Physical properties

Nominal physical and dimensional properties for Tekboard Elite Universal Performance Board.

Property	Unit	Value	Test standard
Density	kg/m ³	950	BS EN 520:2004
Weight per unit area - 12.5 mm	kg/m ²	11.9	BS EN 520:2004
Weight per unit area - 15.0 mm*	kg/m ²	14.3	BS EN 520:2004
Length	mm	2400	Product specification
Width	mm	1200	Product specification
Depth of taper	mm	1.6	ASTM C1396
Width of taper	mm	48	ASTM C1396
Squareness of edges	mm	1.5	ASTM C1396
Core hardness	N	135	ASTM C1396 / C473 B
Edge hardness	N	125	ASTM C1396 / C473 B
End hardness	N	115	ASTM C1396 / C473 B
Flexural breaking load - long edge	N	559	ASTM C1396 / C473 B
Flexural breaking load - short edge	N	243	ASTM C1396 / C473 B
Nail pull strength	N	420	ASTM C1396 / C473 B
Water absorption	%	9.5	EN 520

**Mass per unit area is calculated from the stated nominal density. Other values are nominal and may vary within normal manufacturing tolerances.*

Standard and conformity reference

Product standards: BS EN 520:2004 and ASTM C1396. Mechanical test methods reference ASTM C473 method B.

Installation recommendations

- Check boards before installation and do not use units that are wet, distorted or significantly damaged. Confirm the frame is dry, secure and straight, and plan board orientation and joint positions before fixing.
- Follow the tested or technically assessed system exactly, including framing, board thickness, layers, orientation and joint arrangement. Do not substitute components unless covered by the approved evidence.
- 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.
- 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.
- Use compatible moisture-resistant jointing materials, primers, sealants and finishes where required. Seal cut edges, perimeters and penetrations to prevent water tracking behind boards.
- In wet zones, install the specified tanking or waterproofing system before tiling or applying the final finish. Provide ventilation and address leaks, condensation and persistent dampness.
- 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 Elite Universal Performance Board is one component within a complete lining system. Framing, insulation, fixings, jointing materials, perimeter seals, waterproofing, penetrations and installation details must match the relevant tested or technically assessed specification and project requirements.

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.