



## TECHNICAL DATA SHEET

# Tekboard VP (Vapour Plasterboard)

Integrated vapour control membrane | Square Edge

## Product overview

Tekboard VP is a 12.5 mm gypsum plasterboard bonded on its reverse face with an integrated vapour control membrane. It is intended to help limit interstitial condensation where warm, moisture-laden internal air meets colder elements in wall and ceiling constructions. The integrated membrane can simplify installation by removing the need for a separate vapour-control layer where the complete system design permits.

## Product range

| Product               | Edge | Thickness | Board size     | Nominal weight* |
|-----------------------|------|-----------|----------------|-----------------|
| Tekboard VP - SE 12.5 | SE   | 12.5 mm   | 2400 x 1200 mm | 21.60 kg        |

\*Calculated from the stated mass per unit area of 7.5 kg/m<sup>2</sup> and a board area of 2.88 m<sup>2</sup>. Nominal board weight: 7.5 x 2.88 = 21.60 kg.

## Applications

- Drywall partitions in areas where condensation risk requires vapour control
- Wall linings to colder external elements, subject to hygrothermal design
- Suspended ceiling systems below cold roof voids
- Rooms-in-the-roof and other warm-side lining applications
- Refurbishment projects involving upgrades to insulation or ventilation
- Commercial, residential and suitable prefabricated constructions



## Features and finishing

- Integrated vapour control membrane bonded to the reverse face
- May avoid a separate membrane layer where approved by the system designer
- Dry installation using familiar plasterboard methods
- Lightweight, versatile gypsum board with a recyclable gypsum core
- Suitable for compatible paints, wallcoverings and decorative linings
- Square-edge format for the specified Tekboard VP range

## Product specification

| Parameter            | Specification                      |
|----------------------|------------------------------------|
| Standard board size  | 2400 x 1200 mm                     |
| Nominal board area   | 2.88 m <sup>2</sup>                |
| Thickness            | 12.5 mm only                       |
| Edge option          | Square edge (SE) only              |
| Nominal density      | 600 kg/m <sup>3</sup>              |
| Mass per unit area   | 7.5 kg/m <sup>2</sup>              |
| Nominal board weight | 21.60 kg*                          |
| Reverse face         | Integrated vapour control membrane |

\*Calculated from the stated mass per unit area and nominal board dimensions. Values may vary within the manufacturing tolerances permitted by EN 520+A1.

## Surface finishing

| Finish             | Guidance                                                                                                                                                       |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Paint              | Suitable water-based or oil-based paint systems, following board preparation and the coating manufacturer's primer requirements.                               |
| Wallcoverings      | Compatible wallpaper, vinyl, timber and other decorative linings may be applied to the exposed face in accordance with the finish manufacturer's instructions. |
| Square-edge joints | Finish or express square-edge joints using the compatible jointing, backing and reinforcement system defined by the project specification.                     |

## Vapour-control performance

### System performance

Condensation control depends on the complete build-up, climate, occupancy, insulation, ventilation and the continuity of the vapour-control layer. Tekboard VP must be positioned on the warm side of the insulation unless a project-specific hygrothermal assessment requires otherwise. Joints, perimeters, penetrations and repairs must be sealed to the approved design.

## Physical properties

Nominal and representative physical properties for Tekboard VP - SE 12.5.

| Property                         | Unit              | Value | Test standard         |
|----------------------------------|-------------------|-------|-----------------------|
| Nominal thickness                | mm                | 12.5  | EN 520+A1             |
| Density                          | kg/m <sup>3</sup> | 600   | EN 520+A1             |
| Weight per unit area             | kg/m <sup>2</sup> | 7.5   | EN 520+A1             |
| Nominal board weight*            | kg                | 21.60 | Calculated            |
| Nominal length                   | mm                | 2400  | Product specification |
| Nominal width                    | mm                | 1200  | Product specification |
| Squareness of edges              | mm                | 1.5   | EN 520+A1             |
| Core hardness                    | N                 | 125   | EN 520+A1             |
| Edge hardness                    | N                 | 130   | EN 520+A1             |
| End hardness                     | N                 | 120   | EN 520+A1             |
| Flexural strength - longitudinal | N                 | 550   | EN 520+A1             |
| Flexural strength - transverse   | N                 | 215   | EN 520+A1             |
| Nail pull strength               | N                 | 365   | EN 520+A1             |

*\*Nominal board weight is calculated from 7.5 kg/m<sup>2</sup> x 2.88 m<sup>2</sup>. All other stated values are nominal and subject to the manufacturing tolerances in EN 520+A1.*

## Standard and conformity reference

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

### Design note

A vapour-control board does not remove the need for project-specific condensation-risk assessment. The designer must establish the required water-vapour resistance and confirm that the complete wall or ceiling build-up is suitable. No numerical vapour-resistance value is declared in this sheet.

## Installation recommendations

- Before work starts, confirm through the project specification or a condensation-risk assessment that Tekboard VP provides the required vapour-control performance and is correctly located within the construction.
- Keep the membrane-backed reverse face towards the cold or exterior element and the decorative face towards the room, unless the approved project design states otherwise.
- Ensure framing is dry, true, securely fixed and suitable for the board weight and system loads. Provide support to all board edges and around openings, penetrations and fixtures.
- Score and cut from the front face using suitable plasterboard tools. Make clean cuts and protect the bonded membrane from tears, punctures and delamination.
- For metal framing below 0.7 mm, use suitable phosphate-plated self-tapping screws. Above 0.7 mm, use suitable phosphate-plated self-drilling screws, subject to the approved system specification.
- Follow the specified fixing centres, edge distances, screw length and penetration. As general guidance, vertical screw spacings may be 250 mm for the first layer, 500 mm for the second and 750 mm for the third only where confirmed by the system design.
- Stagger horizontal and vertical joints between layers by at least 600 mm where required by the approved system. Do not bridge structural movement joints.
- Maintain an airtight and continuous vapour-control layer at board joints, perimeters, abutments, sockets, service penetrations and repairs using compatible tapes, sealants, gaskets or other specified accessories.
- Repair membrane damage before closing the construction. Do not leave punctures, open joints or unsealed penetrations that could permit moisture-laden air to bypass the vapour-control layer.
- Finish the exposed face with compatible jointing and decorative systems. Do not apply finishes until the board and background are dry and environmental conditions meet the finish manufacturer's instructions.

### System responsibility

Tekboard VP is one component of a complete moisture-control strategy. Insulation, ventilation, airtightness, thermal bridges, joints and penetrations must be designed together. Installation should follow the project drawings, applicable regulations and the approved system specification.

## Storage and handling

- Plan deliveries so boards can be unloaded close to the point of use using suitable lifting equipment and clear, level access routes.
- Use mechanical aids, board trolleys or an appropriate team lift in accordance with the site manual-handling assessment. A nominal board weighs approximately 21.60 kg.
- Store boards flat on a firm, level and adequately supported base. Keep stacks stable and within the safe load capacity of the floor, pallet and handling equipment.
- Store indoors in a dry, covered and well-ventilated area, raised clear of the ground and protected from rain, standing water, condensation, direct sunlight and prolonged high temperatures.
- Keep protective wrapping in place until required while avoiding trapped moisture. Do not store or install boards where liquid water or persistent dampness can contact the gypsum core or membrane bond.
- Do not leave boards leaning unsupported. If boards are temporarily held upright for handling, restrain them safely and return them to flat storage as soon as practicable.
- Carry boards on edge using suitable aids and enough operatives. Do not drag boards across one another or across the floor; lift clear to protect the paper face, square edges and vapour-control membrane.
- Protect stacks from site traffic, forklifts, falling objects and edge impact. Keep storage areas tidy, level, well lit and free of trip hazards.
- Allow boards to reach the ambient conditions of the installation area before fixing. Do not install visibly wet, distorted, delaminated or damaged boards.
- Inspect the reverse membrane before installation. Segregate boards with significant tears, punctures or loss of adhesion unless an approved repair method is available.
- Recycle clean gypsum-board offcuts where facilities permit and dispose of contaminated or damaged material in accordance with local requirements.

## Technical note

### Nominal product information

Dimensions, density, mass per unit area and board weight are nominal values and may vary within normal manufacturing tolerances. Product selection, vapour-control detailing, fixing centres and installation must follow the relevant project specification and approved system design.