

Glass-mat 12.7mm

Water-Resistant Gypsum Board

Product Data Sheet

04/2026



Product Description

GLASS-MAT 12.7mm is designed and manufactured with advanced technology. In addition to the basic features of gypsum board such as lightweight and non-combustible material, it also provides water and mold resistant solution to interior and semi-exposed ceilings and partitions in wet area and affected by water in commercial and residential buildings.

Product Specification:

Thickness (mm)	Width (mm)	Length (mm)	Average weight (kg/m ²)	Edge
12.7	1220	2440	10.8	SE

Values in above table are nominal and for reference purpose

SE – Square Edge

(*) Special size or edge are made to order

Advantages

- Inorganic surfaces that shed water.
- Moisture and Mold resistance
- Gypsum based product that is quick score-and-snap, easy to screwing and low risk of joint-crack.

Compliance

- QCVN 16:2023/BXD
- TCVN 8256
- ASTM C1177
- ASTM D3273



Certifications are being available for products manufactured at Knauf Vietnam plants

Technical Specification

Item (*)		Unit	Glass-mat 12.7 mm	Test Method
Flexural Strength Method B	Perpendicular to panel length	N	≥ 445	TCVN 8257 ASTM C473
	Parallel to panel length		≥ 160	
Humidified deflection		mm	≤ 6	
Nail pull resistance		N	≥ 343	
Water Absorption		%	≤ 5	TCVN 8257
Mold growth after 28 days		%	0	ASTM D3273
Volatile Sulfur Compounds (S8)		ppm	≤ 10	ASTM C471M

(*) Refer to requirements in TCVN 8256 : 2022 – Gypsum boards – Specifications

Application

GLASS-MAT 12.7mm is suitable for ceiling and partition applications in areas with high humidity and potential direct water exposure, particularly semi-exposed ceilings, corridors and partitions in wet areas. The board should be installed in full system with KNAUF's profiles or systems which are under KNAUF's approval to be achieved highest performance.

Concealed Ceiling System

Knauf ceiling profile	Board thickness (mm)	Layers of board	Max main runners span – center to center (mm)	Max secondary runners span – center to center (mm)
Ultra	12.7	1	1100	406
Pro/ ProV+	12.7	1	800	406
Suprawall	12.7	1	406	N/A

Partition System

Drywall system	SupraWall Stud size (mm)	Layer x Span of Studs (mm)	Layer x Thickness of board (mm)	Wall Width (mm)	Max Height (m)	Fire Rating EI (*) (minute)	Acoustic STC/Rw (**)(dB)
SafeWALL	64	1 x @610	1 x 12.7	92	3.8	45	44
	76	1 x @610	1 x 12.7	104	4.2	45	45
	92	1 x @610	1 x 12.7	120	5.0	45	45
	102	1 x @610	1 x 12.7	130	5.3	45	45
QuietWALL	64	2 x @610	2 x 12.7	205	2.8	60	56
	76	1 x @610	2 x 12.7	129	3.7	60	51
	92	1 x @610	2 x 12.7	145	4.6	60	52

Values in the table are nominal.

This is a non-load-bearing internal partition system

Use Glass-Mat boards for the outermost layer, where the partition surface is exposed to water. The surface must be finished in accordance with the technical requirements before being put into use.

The stud spacing should be calculated to suit the actual site conditions.

For further details, please refer to the technical guide: Knauf Systems+

(*) Reference for full system from Knauf.

(**) Using Glasswool Insulation with 50 x 24 kg/m³

Storage and Transportation

- Stored and transported in dry, non-wet conditions (not under the impact of rain, seepage and poor ventilation in prolonged high humidity condition)
- Plasterboard should be stored neatly, flat high off the ground, indoor, at dry area to prevent sag and minimize impact to edges and surface.
- Plate supports should be placed at a span of 600mm max.
- No more than 5 pallets on a vertical stack.

Limitation

- Avoid exposure to temperatures exceeding 52°C in prolonged time.
- Install the system in dry, well-ventilated areas and maintain RH at 30%–60%; provide supplemental ventilation when ambient RH exceeds 60%; and keep conditions within these limits during and after installation.
- Installation shall be free from excessive humidity, chemical fumes, corrosive substance, freezing temperature or vibration.
- The quality assurance shall not over the damages caused by fire or direct contact with water including condensation, caustics substance or vapor due to leaks or temperature and humidity conditions which cause condensation to develop on the plasterboards, or other elements of nature or by any form of physical abuse.
- Wall cavities, floor cavities and other enclosed areas must be dry prior to being closed and application of interior finishing. Insulation in the floor cavities must be dry.

Finishing and Decoration

- It is essential that the level of finish is determined at the design stage, as each level has specific requirements for tolerances, plasterboard installation, joints, and finishes. The desired level of finish may not be achieved unless all these requirements are met through the various design stages of construction.
- Knauf recommends using 3 layers of Knauf joint compound and Knauf paper/ mesh tape to achieve best joint quality. To achieve the effect of a primer and trim, pattern or wall covering, the manufacturer's instructions or recommendations should be followed.
- If glossy or semi-gloss paint is used, it is recommended that the plasterboard surface be finished to a Level 5 standard, as these paints tend to accentuate surface imperfections.
- For more finishes, please refer to the technical guide Knauf Systems+



HO CHI MINH OFFICE: 7th Floor, Harbour View Tower, 35 Nguyen Hue Street, Sai Gon Ward, Ho Chi Minh City, Vietnam.
HO CHI MINH PLANT: Lot B3a, Hiep Phuoc Industrial Zone, Hiep Phuoc Commune, Ho Chi Minh City, Vietnam.
HA NOI OFFICE: Office Area – No. 29 Lieu Giai Street, Ngoc Ha Ward, Ha Noi City, Vietnam.
HA NOI PLANT: Land Plot CN4.4A, Dinh Vu IP, Dinh Vu – Cat Hai Economic Zone, Dong Hai Ward, Hai Phong City, Vietnam.

Information provided is for reference purpose only. Products, specifications and requirements may vary according to geographical locations and applications. As each project is unique, please contact your nearest Knauf representative for further product, solution and technical supports.

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