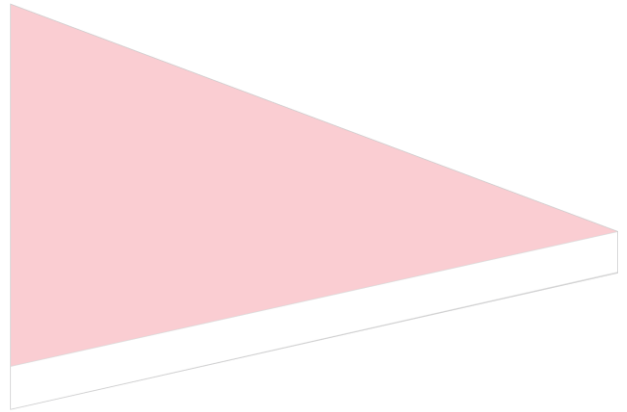


FireShield 12.7mm

Fire Resistant Gypsum Board

Product Data Sheet

04/2026



Product Description

FireShield 12.7mm is designed and manufactured according to the advance technology, providing fire protection solution for interior ceilings, partitions and ducting/ column & beam encasement systems in residential, commercial, and industrial projects.

Product Specification:

Thickness (mm)	Width (mm)	Length (mm)	Weight ¹⁾ (kg/m ²)	Edges ²⁾
12.7	1220	2440	11.6	Tapered

Values in above table are nominal and tolerance in compliance with the standard required.

1) Represent approximate weight for design and shipping purpose.

2) Other edges and sizes are made to order.

Advantages

- Non-combustible material for diverse fire protection solutions.
- Eco-friendly material for sustainable buildings.
- Lightweight material for easy handling and installation.
- German brand, built for lasting durability.

Compliance

- QCVN 16:2023/BXD
- QCVN 06:2022/BXD
- TCVN 8256 ³⁾
- ASTM C1396 ³⁾
- ASTM D3273 ³⁾

3) Made to order



Certifications are being available for products manufactured at Knauf Vietnam plants

Technical Specification

Item		Unit	FireShield 12.7 mm	Test Method
Flexural Strength Method B	Perpendicular to panel length	N	≥ 476	TCVN 8257 – 3:2023
	Parallel to panel length		≥ 160	
Humidified deflection		mm	≤ 32	TCVN 8257 – 5:2023
Volatile Sulfur Compounds (S8)		ppm	≤ 10	ASTM C471M – 20a
Mold growth after 28 days(*)		%	≤ 20	ASTM D3273

(*) The product provides mold resistance in accordance with TCVN 8256:2022. It is made to order and remarked the "MTR" abbreviation on the product description.

Application

FireShield 12.7mm is non-combustible product and designed for interior ceilings, partition, ducting and encasement systems and should be installed with Knauf profiles or systems which are under KNAUF's approval to be achieved best performance.

Concealed Ceiling System

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

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)
FireWall	76	1 x @610	2 x 12.7	129	3.7	120 _(TN)	54

Fire Ducting System

Duct System	Board thickness (mm)	Layers of board	Fire Rating EI (minute)
FireDuct	12.7	1	45

Fire Encasement System

Encasement System	Board thickness (mm)	Layers of board	Fire Rating R (minute)
FireCase	12.7	1	30
	12.7	2	60

Values in the table are nominal for reference purpose.

This is a non-load-bearing internal partition system.

Board surfaces must be finished in accordance with technical requirements before operation.

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

(TN) Test Report

Sustainability

FireShield 12.7mm contributes to achieve the Sustainability certification at building projects

LEED v4

- EA** :Optimize Energy Performance
- MR** :Building Life Cycled Impact Reduction
- MR** :Environmental Product Declaration (EPD)
- MR** :Sourcing of Raw material
- MR** :Material Ingredients (HPD)
- EQ** :Low-Emitting materials (VOC report)

GREEN MARK

- EP** :Sustainable construction (SGBP)

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Climate declaration

The table below shows the emissions of greenhouse gases, calculated as carbon dioxide equivalents (kg CO₂ eq.) for 1m² of plasterboard FireShield with thickness of 12.7mm

Product stage (A1 – A3) Cradle to Gate	Product + Construction stage (A1 – A5) Upfront carbon
4.13E+00	4.52E+00

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.

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.

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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