

Knauf SpanShield

Product Data Sheet (07/2025)



Knauf SpanShield is a regular gypsum board with strengthened anti-sag features, making it suitable for internal ceiling linings for a wide range of common applications.

PHYSICAL PROPERTIES		
Thickness and Nom. Weight	: 10 mm	6.8 kg/m ²
Length x Width	: 1220 mm x 2440 mm 1220 mm x 2745 mm or custom length	
Edge	: Tapered, Squared	
Color	: White	

KEY FEATURES

- **Sag-resistant:** Improved with sag resistant additives. Made from a gypsum core sandwiched between two layers of heavy-duty recycled paper for enhanced strength and durability.
- **Designed for lightweight installation:** Requires fewer frames than 9 mm standard gypsum boards and is lighter than 12 mm boards for faster installation and less labor costs
- **Non-combustible & fire resistant:** Complies with **ASTM E1360** and has Class A Surface burning characteristics per **ASTM E84**
- **Paper finish:** Ready to receive paint
- **Low thermal conductivity:** Helps insulate heat to maintain cooler indoor temperature
- **Low VOC:** Emits less than 20 µg/m²-hr of TVOC for better indoor air quality, as tested per **ASTM D5116**
- **Manufactured in accordance with ASTM standards:**
 - ▶ **ASTM C1396** - Standard Specification for Gypsum Board
 - ▶ **ASTM E84** - Standard Test Method for Surface Burning Characteristics of Building Materials
 - ▶ **ASTM E1360** - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
 - ▶ **ASTM D5116** - Standard Test Method for Small-Scale Organic Emissions from Indoor Materials/Products

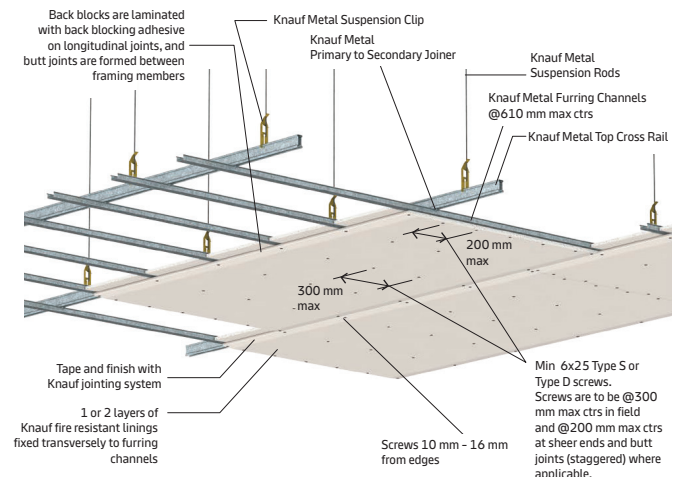
- **Environmental Safety:** Contains no hazardous substances; made using eco-friendly processes

APPLICATIONS

- Non fire-rated interior ceiling and drywall applications
- New construction, repair and renovation projects
- Recommended as interior face layer for use over old ceiling and wall surfaces

Limitations:

- Avoid exposure to sustained temperatures exceeding 40° C and 95% RH
- Avoid exposure to excessive, repetitive, or continuous humidity, chemical fumes, freezing temperature, corrosive substance or vibration before, during, and after installation.
- Ensure wall, floor cavities, and enclosed areas are dry before closing up or applying finishes.



Note:
 Min. gypsum screw dimensions:
 Single layer - 6 x 25 mm, Double layers - 6 x 30 mm

KNAUF PLASTERBOARD INSTALLATION SYSTEM

This system ensures you maximize the key features of the product and achieve the best results that boost the structural integrity of your project. See the [Systems+ Manual](#) for your detailed user guide.

INSTALLATION

- **Level Framework:** Ensure furring channels or suspended grids are installed on a true and level plan.
- **Sheet Orientation:** Install plasterboard sheets with recessed edges at right angles with the furring channel.
- **Single-Layer Systems (Non-Fire Rated):** Can be fixed with a combination of adhesive and mechanical fasteners or mechanical fasteners only.
- **Multi-Layer Systems (Non-Fire Rated):** Must be fixed using mechanical fasteners only.
- **Movement and Control Joints Spacing:** 12 m max intervals in internal ceilings.



FINISHING AND DECORATING

- **Use Knauf jointing compounds** for high-quality finishes.
- **Choose the appropriate level of finish** per ASTM C840:
 - ▶ Level 1: Minimal finish for non-public view areas.
 - ▶ Level 2: Basic finish for concealed surfaces.
 - ▶ Level 3: Smooth finish for surfaces to be painted.
 - ▶ Level 4: Standard finish for publicly visible areas.
 - ▶ Level 5: High gloss finish for critical lighting conditions.
- **Prepare surfaces by cleaning and drying** before applying joint compounds and finishes.
- **Follow paint manufacturer guidance** for priming and painting.
- **Skim coat panels** where critical lighting or glossy paint is applied to equalize texture differences.

PERFORMANCE

Knauf SpanShield has undergone rigorous testing to ensure it meets high standards for performance and durability. Here's a summary of the test results along with the benefits of each aspect:

Test	Results	ASTM C1396 Requirement	Benefits
Flexural Strength – Longitudinal	Passed	> 123 N	Provides durability and resistance to bending forces, allowing the plasterboard to withstand structural loads and impacts without sagging or breaking
Flexural Strength – Transverse	Passed	> 364 N	
Hardness	Passed	> 49 N	Provides resistance to surface damage, helping walls maintain their appearance and integrity in high-traffic areas
Nail Pull Resistance	Passed	> 264 N	Secures fastening of fixtures and fittings, preventing tearing and enhancing the stability of installations.
Humidified Deflection	Passed	< 8 mm	Helps maintain shape and structural integrity even in humid conditions, making it ideal for use in moisture-prone areas like kitchens and bathrooms

*Knauf gypsum boards are manufactured in accordance with ASTM C1396

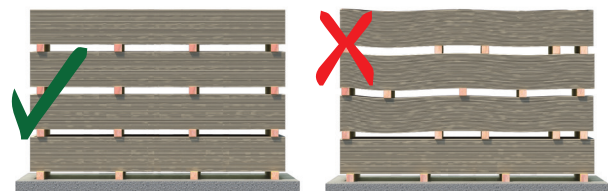
GENERAL HANDLING TIPS

- Always use Personal Protective Equipment (PPE) during handling.
- To safely carry a gypsum board, two people should hold it at both ends.
- The gypsum board should rest on the carriers' shoulders while being carried.
- Use both feet to turn instead of twisting your waist or back.
- Ensure gypsum boards are securely positioned on pallets.

PROPER STORAGE

- Store gypsum boards in a covered area, free from water leaks and excessive moisture. Boards should be kept in neat, flat stacks off the ground to prevent sagging and minimize damage to edges and surfaces.
- Position billets at right angles to the gypsum boards, with stacking supports spaced no more than 600 mm apart. Use five evenly spaced billets.
- The length of the billets should match the length of the gypsum board to properly support its weight.
- Gypsum boards can be stacked up to a maximum of five layers, with the following maximum number of sheets per layer:

10 mm (2440 mm length) – 110 sheets
 10 mm (2745 mm length) – 106 sheets



UNLOADING WITHOUT FORKLIFT TRUCKS

- A minimum of two people is required to manually unload the gypsum boards.
- One person must remain inside the truck to hand over the boards to the others on the ground.
- While carrying gypsum boards, ensure they rest on the carriers' shoulders.

UNLOADING USING FORKLIFT TRUCKS

- Use a forklift truck with a minimum capacity of 3.5 tons to unload gypsum boards from the delivery truck.
- The unloading should be performed by a certified forklift operator.
- Position the forklift's "forks" between the billets. Secure proper placement of the boards to avoid accidents.
- Prepare billets in the desired storage location beforehand.



Submittal Sheet

PROJECT INFORMATION	
Project Name	
Project Location	
Contractor Name	
Date of Submission	

REVIEW AND APPROVAL SECTION				
Reviewer Name and Signature				
Product Name	Approved	With Revisions	Rejected	For Further Deliberation
FOR INTERIOR				
<i>Gypsum Boards</i>				
StandardShield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SpanShield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MoistureShield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FireShield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DenseShield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MultiShield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EchoStop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Compounds & Finishing</i>				
Premium Jointing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Premium Premix	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paper Tape	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FOR EXTERIOR				
<i>Cement Board</i>				
Aquapanel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notes				

