

Knauf MoistureShield

Product Data Sheet (02/2025)



Knauf MoistureShield is a moisture-resistant gypsum board ideal for interior wet area walls and ceilings exposed to moisture and limited water exposure like bathrooms and kitchens.

PHYSICAL PROPERTIES		
Thickness and Nom. Weight	9 mm	6.8 kg/m ²
	13 mm	9.2kg/m ²
	16 mm	11.25 kg/m ²
Length x Width	1220 mm x 2440 mm	
Edge	Tapered, Squared	
Color	Green face paper and grey back paper	

KEY FEATURES

- **Moisture Resistant:** Absorbs less than 5% water
- **Durability:** Designed to resist deflection in interior wet area applications
- **Complies to Class A Interior Finish of PH Fire Code**
- **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 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

- **Interior Domestic Applications:** Suitable for internal walls & ceilings in non-fire-rated wet areas like bathrooms and kitchens
- **Eaves:** Suitable for covered external areas like eaves for added durability and resistance to moisture and humidity

Limitations:

- To ensure optimal performance, install plasterboard in well-ventilated areas protected from moisture and liquid penetration.

- Check with adhesive and tile manufacturers for guidelines on maximum size and weight limits for use with gypsum board.
- Must be paired with approved framing systems for structural integrity and performance.
- Unsuitable for commercial wet areas like gang showers, saunas, swimming pools, or locations with excessive moisture, humidity, and direct water exposure.

KNAUF PLASTERBOARD INSTALLATION SYSTEM

Proper waterproofing is essential to protect against moisture-related damage and extend the plasterboard's lifespan. See the [Systems+ Manual](#) for your detailed user guide.

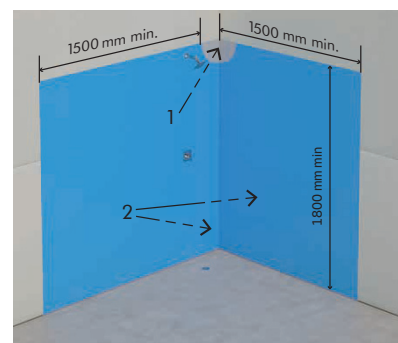
DESIGN CONSIDERATIONS

- **Use Sealants in Wet Areas:** Apply waterproofing or water-resistant sealants to building elements based on specific conditions and locations.
- **Fastener Spacing:** Product is applicable for use on wet area walls as interior tile substrate or areas with limited water exposure. Follow Knauf guidelines in fastener spacing to ensure integrity and support in tiled areas.
- **Jointing and Ceilings:** Use Knauf setting-type compounds and paper tape for jointing in wet areas. For ceilings, apply moisture-impervious ceiling paint as an added safeguard.

WATERPROOFING OF WET AREAS

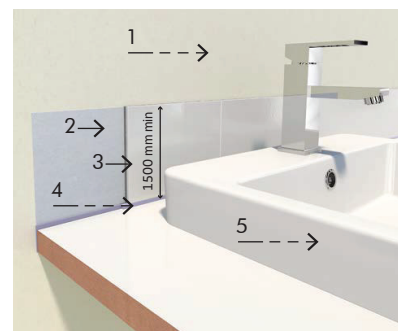
Waterproofing of unenclosed shower

1. The shower panel is sealed at all junctions
2. Waterproofing membrane



Vanity unit and wall junction

1. Wall lining
2. Water-resistant lining 150 mm minimum above lip
3. Ceramic tiles on approved tile adhesive
4. Nom. 6 mm flexible sealant relief joint
5. Vanity basin



PERFORMANCE

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

Test	Results	ASTM C1396 Requirement		Benefits
		9 mm	13 mm	
Water Absorption of the Gypsum Core	Passed	< 5% weight after 2 hr immersion	< 5% weight after 2 hr immersion	Offers strong moisture resistance, preventing swelling or deterioration in wet conditions, which enhances the durability and stability of the gypsum core in high-moisture areas.
Flexural Strength – Longitudinal	Passed	>108 N	> 164 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	>270 N	> 493 N	
Hardness	Passed	>49 N	>49 N	Provides resistance to surface damage, helping walls maintain their appearance and integrity in high-traffic areas
Nail Pull Resistance	Passed	> 298 N	> 347 N	Secures fastening of fixtures and fittings, preventing tearing and enhancing the stability of installations.
Humidified Deflection	Passed	< 8 mm	< 30 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.

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.

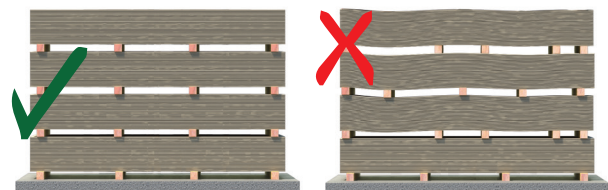
UNLOADING USING FORKLIFT TRUCKS

- 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.

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:

9 mm - 100 sheets
 13 mm - 86 sheets
 16 mm - 58 sheets



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				

