



[GUARD]EX® You build we protect

- VAPOUR PERMEABLE
- HIGH RESISTANCE TO WATER AND MOISTURE
- MOLD PROTECTION
- FIRE RESISTANCE

[GUARD]EX® Technical data sheet

11/2023

Knauf [GUARD]EX®

KNAUF solution for facade cladding (ETICS and ventilated facades system)

Product Description

Knauf [GUARD]EX® is an exterior cladding board, resistant to mold and weather thanks to a special gypsum core and fiberglass mesh on both sides.

- Board type : EN 15283-1 + A1 GM-PH1R
- Appearance : Blue siding

Dimensions

Thickness	12,5 mm
Width	1200 mm
Length	2000 à 3000 mm

Packaging

12,5 mm : 50 pcs / pallet

Storage

Boards should be stored on pallets and protected from moisture and weather before installation.

Field of application

New & Refurbished Solutions for Exterior Cladding with Dry Systems:

- External Thermal Insulation (ETICS).
 - Ventilated facades
- Premises : Housing, offices, hotels, healthcare, shops, education, ...

Safety Instructions

- Wash your hands thoroughly with water after handling.
- Use protective gloves / protective clothing / goggles / face protection.

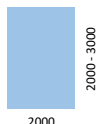
- In case of contact with eyes: Rinse eyes thoroughly with water for several minutes. If there is a lens, remove it and continue rinsing.
- If eye irritation persists: consult a doctor

Properties

- Non-combustible materials. Very good behaviour of the structure exposed to fire.
- Lightweight and easy to apply
- Mold Resistance
- High resistance to moisture and mildew
- Control of ambient humidity in the room (water vapour)

Technical Data

■ Board Dimensions (in mm):



■ Edge Type : Tapered edge

BA



■ Dimensional Tolerances

According to EN 15283-1+ A1:

- Width : +0 / -4 mm
- Length : +0 / -5 mm
- Thicknesses : +0,7 / -0,7 mm
- Angularity : ≤ 2,5 mm par m de largeur

■ Minimum curve radius (Dry bending):

Thickness en mm	Min. Bending Radius r in m
12,5	4



Remarks

Application

Implementation should be in accordance with applicable standards and the Knauf system Drywall System Data Sheets.

Technical properties	12,5 mm	Unit	Standards
Board type	GM – FH1R		EN 15283 – 1 + A1
Reaction to fire	A1		EN 13501-1
Water Vapour Diffusion Resistance (μ)			EN 12524
• Dry	10		
• Wet	4		
Thermal conductivity (λ)	0,25	W/(m.K)	EN 12524
Density	≥ 920	kg/m³	-
Weight	11,5 à 12	kg/m²	-
Flexural breaking load			EN 15283-1
• longitudinal	≥ 725	N	
• transverse	≥ 300	N	
Total water absorption (Type H1)	≤ 3	%	EN 15283 - 1
Mold Resistance	10*	score	ASTM D 3273
Shrinkage and expansion			
• For a 1% variation in relative humidity to the air	0,005-0,008	mm / m	-
• For a temperature change of 1 Kelvin	0,013-0,02	mm / m	EN 520

* Highest Score, Corresponds to 0% mold growth

Knauf Guardex® Facade Systems

Knauf Guardex® Exterior Drywall System with ETICS

Knauf Guardex® Exterior drywall system with ETICS is constructed with a substructure fixed to the load-bearing construction and mineral wool between the studs to providing the thermal and sound insulation requirements. The substructure is clad with gypsumboard from inside and Knauf Guardex® from outside. Polystyrene (EPS, etc.) or mineral wool are applied on Guardex® in order to improve the thermal insulation requirements of the system.

Knauf Guardex® Ventilated facade system

The ventilated façade system Knauf Guardex® is constructed with a metal substructure fixed on the load-bearing structure of the building and mineral wool between the studs to meet thermal and acoustic insulation requirements. The substructure is clad in plasterboard from the inside and Guardex® from the outside, which remains behind the exterior cladding. This system is widely used for building rehabilitation due to its fast, simple and efficient application.

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