

EXTERIOR GYPSUM BOARD PROGUARD ULTRA



ISO 9001:2015
Quality Management System

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1. CODE REGISTRY

Code	Description	Measures (mm)	Weight (kg/m ²)	Pkg. / Pallet
INS04-70010	PROGUARD ULTRA construction gypsum board for outdoor applications	2.000 x 1.200 x h. 12.5	10,6 (± 0,2)	2,40 m ² / 120 m ²

MATERIAL Made of enriched gypsum and covered with polyester-glass fiber fabric.

2. DESCRIPTION

Proguard Ultra is a plasterboard and fiberglass gypsum board that meets the onerous requirements of an exterior coat. It is designed for exterior insulation finish systems (EIFS), such as under brick veneer, marble cladding, cladding systems, porcelain tile and conventional stucco or direct plaster. The reinforced core minimizes the potential for warping, sagging and rippling, while the fire-resistant additives, create an incombustible cladding gypsum board. The gypsum boards are installed vertically using standard mechanical fasteners to ensure the rigidity and fire resistance of wall and ceiling systems.

Despite being an essential architectural component, most façade designs tend to be utilitarian in nature. Traditionally, requirements include aesthetics, weather protection for visitors to the building, or even to provide an area for signage. Today, façades still have their original function, but in addition to that, they must be designed like any other part of the structure, taking good account of other indispensable features, such as:

- Acoustic performance
- Fire resistance requirements
- Thermal performance

These three factors have a major impact on energy consumption, long-term operating and maintenance costs, posing a difficult challenge for many architects and designers.

One possible alternative to consider is the steel-framed exterior wall system. This option combines lightweight steel framing, thermal insulation and Proguard Ultra gypsum boards, an economical solution suitable for all types of buildings and projects.

3. USE

Used for the making of:

- Exterior walls, counterwalls and ceilings;
- Exterior insulation finishing systems;
- Solid brick or stone finishes;
- Interior finishes requiring a backing board with superior fire and moisture resistance

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4. TECHNICAL DATA

Parameter	Applicable standard	Value
Dimensions	mm	2.000 x 1.200 x 12,5
average weight	± 0,2	10,6 Kg/m ²
Edge density	Minimo	832
Longitudinal flexural strength (N)	ASTM C1777 / C1777M	≥ 445
	EN 15283-1:2008	≥ 537,5
Resistenza alla flessione (N) trasversale	ASTM C1777 / C1777M	≥ 356
Transverse flexural strength (N)	EN 15283-1:2008	≥ 210
Vapor permeability	ASTM C1777 / C1777M	≤ 5
Water absorption	EN 15283-1:2008	H1
Linear thermal expansion	ASTM E84	25 or less
Flame propagation index	ASTM E84	450 or less
Smoke development index	-	Non sono state rilevate fibre di amianto
Asbestos (% by weight)		

5. REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1:2018

Test method	Parameter		No. of test	Results		
				Continuous parameter-mean	Compliance parameters	
BS EN ISO-1716:2018	External Non-Substantial layer PCS ≤ 2,0 MJ/m ²	Coated Veil (Top)	3	1,6	Compliant	
		Coated Veil (Back)		1,6		
	Substantial Layer PCS ≤ 2,0 MJ/kg			1,7		
	Product as a whole PCS ≤ 2,0 MJ/kg			1,9		
BS EN ISO-1182:2010	Mass loss ≤ 50%		5	17	Compliant	
	Furnace thermocouple rise ≤ 30°C			4		
	Sustained flaming occurred t _f =0 secondi			0		
BS EN 13823:2020	FIGRA _{0,2} MJ ≤ 20 W/s		3	0	Compliant	
	THR _{600s} ≤ 4,0MJ			0,3		
	Lateral Flame Spread Edge of specimen			< edge of specimen		
	Criteri per la sottoclasse "s1"					
	SMOGR _A ≤ 30m ² /s ²		3	0	Compliant	
	TSP _{600s} ≤ 50m ²			7		
	Criteri per la sottoclasse "d0"					
Flaming droplets/particles within 600s		3	Nil	Compliant		

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6. CLASSIFICATION & FIELD OF APPLICATION

Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2018

Classification

The product, 12,5mm thick Glassmat Sheeting Board in relation to its reaction to fire behavior are classified

Fire behavior		Smoke production			Flaming droplets	
A1	-	s	1	1	d	0
Reaction to fire classification: A1 - s1, d0						

This classification is valid for the following end use applications:

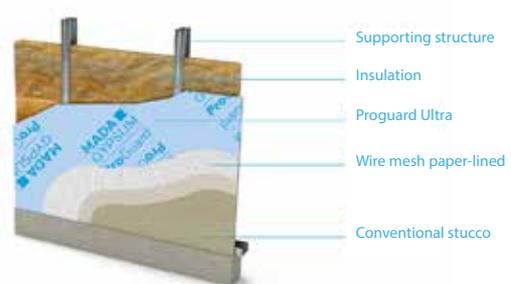
i. Applicazioni per l'edilizia

Overall Product Thickness	No variation allowed
Product Density	No variation allowed
Product Composition	No variation allowed
Product Construction	No variation allowed

cladding



stucco



7. TECHNICAL SPECIFICATION

Item	Description	U.M.	Price
Dak.B.INS04.70010	<p>Installation and installation of high moisture resistance gypsum board made of enriched gypsum and coated with polyester fabric and fiberglass. This treatment makes it particularly resistant to weathering, impact, abrasion.</p> <p>Used for the making of:</p> <ul style="list-style-type: none"> • Exterior walls, counterwalls and ceilings; • exterior insulation finishing systems; • solid brick or stone finishes; • Interior finishes requiring a backing board with superior fire and moisture resistance. 	m ²	-