

G-Flex Decoupling membrane

Description

Waterproof anti-fracture decoupling membrane with a nodular geometric structure and very low thickness. It consists of a 0.5 mm HDPE polyethylene sheet with 3 mm high studs and a polypropylene nonwoven fleece on the base of the studs.

Features

Decoupling
Waterproofing
Stress relief
Load distribution
Heat dissipation
Vapour and moisture management

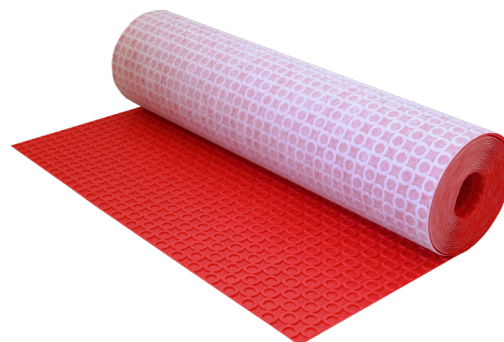
Technical Data

Weight/m² (g): 550
Width (m): 1
Length (m): 14, 30
NAIL - Mechanical anchorage
Pull-out: $\geq 0.7 \text{ N/mm}^2 = \geq 70 \text{ tonnes/m}^2$
Robinson Floor Test - Extra Heavy

Manufacturer

Estil Guru S.L.U

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Product

Ref.	Description	Size (m)
ILU5100	Rollo G-Flex	1 x 14 m · 14 m ²
ILU5200	Rollo G-Flex	1 x 30 m · 30 m ²

G-Flex Decoupling membrane

Composition

Multi-layer structure composed of: film sheet / nonwoven.

Film composition *1	HDPE (high-density polyethylene)
Outer nonwoven composition *2	PP (polypropylene)

This product does not contain hazardous substances.

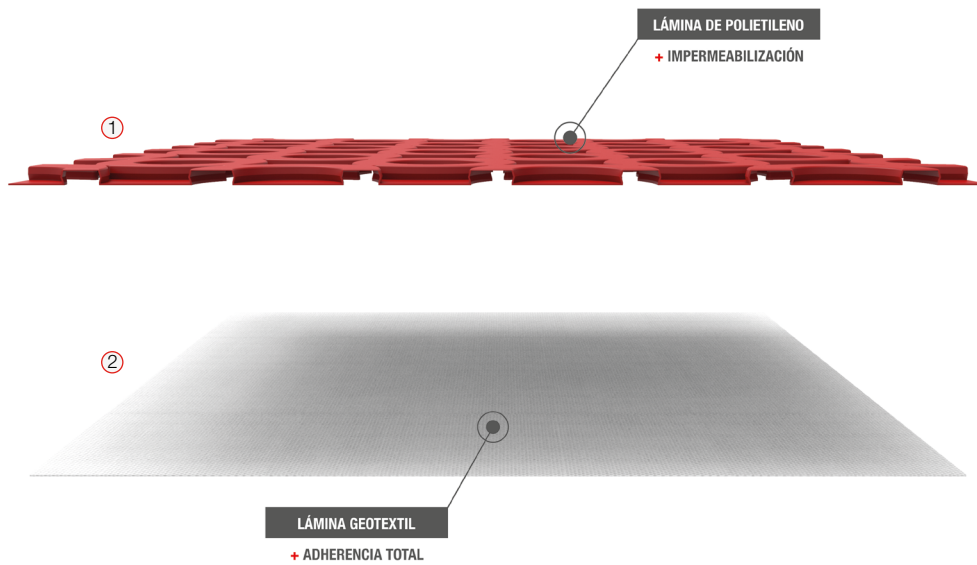


Table test:

Features	Value
Sheet thickness	0,5 mm // 0.02"
Total height	3 mm // 1/8"
Weight	0,625 kg/m ² // 0.128 lb/ft ²
Air volume	1,15 l/m ² // 0.0037 ft ³ /ft ²
Estimated thin-set mortar consumption for bonding G-FLEX ¹	1,5 a 2 kg/m ² // 0.3 to 0.41 lb/ft ²
Estimated thin-set mortar consumption for filling the cavities ¹	2 kg/m ² // 0.41 lb/ft ²
Bond strength (tensile adhesion) of thin-set mortar - 28 days	> 0.7 MPa // > 100 psi
Tear resistance L/T	> 7/7 kN/m // > 40/40 lb/inch
Elongation	> 25%
Service temperatures	-30°C / +80°C // -22°F / +176°F

¹ Approximate consumption values for C2-type thin-set mortar. Values may vary depending on the product used and site conditions.

SERVICE CLASSIFICATION OF THE G-FLEX UNCOUPLING MEMBRANE (TCNA criterion; Robinson Test):

Subfloor type	Classification
Wood (OSB) over joists at 41 cm centres	EXTRA HEAVY
Wood (OSB) over joists at 49 cm centres	EXTRA HEAVY
Wood (plywood) over joists at 61 cm centres with 30 x 30 tile	EXTRA HEAVY
Wood (plywood) over joists at 61 cm centres with 15 x 15 tile	HEAVY
Concrete slab	EXTRA HEAVY

ZDB criterion according to the technical sheet "Installation of tiles and slabs over uncoupling systems in interior areas":

ZDB-Merkblatt "Verlegung von Fliesen und Platten auf Entkopplungssysteme im Innenbereich"

Flooring group according to breaking strength (EN ISO 10545-4) / Areas of use ²

Classification

Breaking strength	Group	Description	Classification	Compliance
<1.500 N	I	Use in residential floors and floors with comparable loads. Suitable for wheelchair use.	EK-V, EK-H	COMPLIES
1.500 - 3.000 N	II	Use in commercial and industrial floors. Light wheeled traffic with pneumatic tyres. No industrial forklifts. Vehicle showrooms and service areas.	EK-G	COMPLIES
3.000 - 5.000 N	III	Use in commercial and industrial floors. Traffic from industrial trucks, solid rubber and vulcanized tyres. Shopping arcades.		
5.000 - 8.000 N	IV	Use in commercial and industrial floors. Application areas as in group III, but traffic with polyamide wheels is allowed.	EK-M	COMPLIES
> 8.000 N	V	Use in commercial and industrial floors. Heavy-duty service areas with industrial truck traffic. Manufacturing, assembly, storage and heavy machinery/equipment repair areas.		

² According to the ZDB information sheet "Highly mechanically resistant ceramic floor coverings". ZDB-Merkblatt "mechanisch hoch belastbare keramische Beläge"

Controls carried out during production and/or on the finished product:

Verification in each production batch:

- Mass per unit area, length and width.
- Visible defects.
- Tensile properties: breaking force, elongation and tear resistance.
- Geotextile bond.
- Pull-out.