



PREMIUM

line

ISOLMANT N STRONG

UNDERFLOOR INSULATION

The ultra-thin (only 1 mm) and ultra-high-density solution for floating installation of parquet, laminate, LVT, and SPC flooring

WHAT IS ISOLMANT N STRONG

Ultra high-density resilient layer made of polyethylene, with embossed Isolmant surface on the upper side. It ensures consistency of performance over time due to its inherent quality and physical characteristics. Improves footfall sound insulation and reverberation noise (RWS) performance when used for the floating installation of parquet, laminate flooring and LVT/SPC.

AREAS OF APPLICATION

Isolmant N Strong has been specifically developed for the floating installation of laminate, parquet, and other multi-layer modular flooring (MMF) of suitable thickness, ensuring optimal performance and durability. A high-quality system that reduces both impact and reflected noise. Isolmant N Strong has been developed to protect the click-lock joints of these floorings, even under heavy loads, thanks to its high compressive strength (CS). Isolmant N Strong is suitable for use with underfloor heating and cooling systems.

COMPATIBLE FLOORING*

LAMINATE - (6 to 8 mm thick)	✓
LAMINATE - (Sp. 8 mm th.)	✓
LVT, SPC	✓
PREFINISHED PARQUET - 2 layers	✗
PREFINISHED PARQUET - 3 layers	✓
T&G SOLID WOOD FLOORING (thickness < 16 mm – plank width < 16 cm)	✗
CERAMICS	✗

* General indications valid for traditional installation supports only



www.blauer-engel.de/uz156



SUSTAINABLE





HEALTHY



All our products with the “**Guaranteed Green Planet**” logo are compliant with the sustainability criteria of the most important environmental protocols and certified according to the major national and international standards.

ISOLMANT N STRONG > TECHNICAL SPECIFICATIONS | 1

		VALUE	ADDITIONAL INFORMATION	STANDARD
		NOMINAL THICKNESS:	1 mm	EN 823
Acoustic		REFLECTED WALKING SOUND (RWS):	21 Sone	Superior performance EN 16205
		IMPACT SOUND INSULATION (IS):	$\Delta L_w = 21$ dB	EPLF MMFA: superior performance ISO 10140-3
Mechanic		COMPRESSIVE STRENGTH (CS):	> 500 kPa (0.5 mm deformation)	CS3 class EPLF MMFA: superior performance EN 826
		COMPRESSIVE CREEP (CC)	> 50 kPa (max. load def. < 0.5 mm in 10 years)	CC3 class EPLF: superior performance EN 1606
		DYNAMIC LOAD (DL):	> 400.000 cycles (at 25 kPa) > 250.000 cycles (at 75 kPa)	DL3 class EPLF MMFA: superior performance EN 13793
		IMPACT RESISTANCE - LARGE BALL TEST (RLB):	> 1200 mm (under 7 mm of DPL laminate flooring)	RLB3 class EPLF: superior performance EN 13329
		CONFORMABILITY (PC):	$\geq 0,5$ mm	PC1 EN ISO 868
Thermo hygrometric		THERMAL RESISTANCE (RT):	$R_t = 0,0145$ m ² K/W	$R_{\lambda,B} \leq 0.10$ m ² K/W cooling $R_{\lambda,B} \leq 0.15$ m ² K/W heating EN 12664
		WATER VAPOUR RESISTANCE (SD):	$S_d = 89$ m	method A @23°C from 0% to 50% relative humidity EN 12086
		REACTION TO FIRE CLASS:	E _{fl}	EN 13501-1
		EMISSION OF VOLATILE ORGANIC COMPOUNDS:	VOC A+	ISO 16000-9

	CE MARKING:	Harmonised standards for CE marking are NOT currently available for acoustic insulation products. This means that Isolmant products are currently NOT subject to CE marking, nor to the drawing up of a PDO (declaration of performance) or DDP (declaration of performance). All Isolmant products are placed on the market in compliance with the regulations in force in the country of destination and with the necessary certifications to guarantee their use in dedicated applications.
	SIZE:	Rolls of: 1.0 m x 15 m equal to 15 m ²
	PACKAGE:	Cardboard boxes of 20 rolls (300 m ²)

ITEM SPECIFICATIONS

Resilient layer made of cross-linked, closed-cell, second-generation polyethylene foam for homogeneous distribution of performance and high compressive strength over time (type Isolmant N Strong). To be positioned with the embossed and silk-screen printed side visible. Density 67 kg/m³. Nominal thickness 1 mm.



GREEN FEATURES OF ISOLMANT N CLASSIC

- Volatile Organic Compounds free (VOC A+)
- Blue Angel certified product (European eco-label certification).
- **It contains no plasticisers, asbestos, formaldehyde, halogens or heavy metals.**
- It is solvent-free and contains no other ozone-depleting substances.
- This product can be disposed of according to EWC n. 170604.

This product complies with the requirements defined by CAM Edilizia for acoustic and thermal insulation materials regarding the percentage of recycled material and the absence of hazardous substances.

Green Planet is our sustainable development protocol that includes all our commitments to increase process, environmental, social and corporate responsibility. A set of sustainable actions, goals and behaviors in agreement with our mission, our ethical choices and the Sustainable Development Goals from 2030 Agenda.

PRODUCT AND PRODUCTION PROCESS SUSTAINABILITY

ENVIRONMENTAL SUSTAINABILITY

CORPORATE RESPONSIBILITY

SOCIAL RESPONSIBILITY

Find out more at [Isolmant.com](https://www.isolmant.com)

ADVANTAGES



Excellent acoustic insulation against both impact noise and reverberation noise (RWS).



Minimum thickness.



Low thermal resistance.



High compressive strength (CS).

APPLICATION ADVANTAGES



Easy to trim: can be effortlessly cut with a utility knife or box cutter.



PREPARING THE SCREED

STEP 1

The surface where Isolmant IsolDrum N will be laid should be load-bearing, flat, adequately even, clean and free from debris and oil. However, it will be the responsibility of the installer to assess the suitability of the surface for laying the sheets and the subsequent floating installation of laminates and wooden floorings by carrying out some preliminary checks:

- external doors and windows must be installed with the relevant glass panes and the rooms to be floored must be protected from severe weather conditions;
- other types of flooring already in place;
- masonry, installation of cladding and sanitary fixtures must have been completed;
- the temperature of the rooms must be $\geq 15^{\circ}\text{C}$;
- the ambient humidity must be between 45% and 60%;
- the conditions of the substrate must have been checked and it must be compliant and suitable for the laying of the flooring;
- in the case of a heating screed, the pre-heating cycle must have been carried out.

LAYING THE SHEETS

STEP 2

Lay the sheets with the screen-printed side facing upwards (visible), side by side and carefully aligned, taking care not to overlap them; cutting the sheets is easy and clean: we recommend using a utility knife or box cutter.

LAYING OF WOODEN FLOORING

STEP 3

In particular, the wooden flooring must be laid in suitable temperature and humidity conditions, in strict compliance with the specifications for laying wooden floors. The sector's standards and regulations establish that the installation environment must guarantee environmental conditions within the values of max. RH 45%-60%, T°C 18°C - 25°C, the necessary conditions to keep a proper wood/environment balance as provided by UNI EN 13489:18 (7%+2%). In addition, the screed on which the flooring system is laid must have a humidity percentage of no more than <2% in the case of a screed/laying surface without a heating system, <1.7% in the case of underfloor heating.



WARNINGS:

* This data sheet does not constitute a specification and, if it consists of several pages, please ensure that you have consulted the complete document. Although, these instructions are the result of our best expertise they are indicative. The user should establish whether the product is suitable for its intended application. The user will be also in charge of all the responsibility for the use of the product itself.

**The sound insulation values given in this technical data sheet are the result of laboratory tests or tests carried out on site: they cannot be considered a predictive value for every situation that may occur on site. Acoustic performance is closely linked to the specific conditions of each site.

*** Caution: do not expose the product to direct sunlight and bad weather.



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