ISOLfon FF

Impact Sound Insulation
for floating floors

Description

ISOLfon - FF combines good rebound properties and low deformation over time. It is easy installed in a great range of applications where impact noise insulation on floors is required.
It is produced from XLPE (Elastic polyethylene closed cell foam) combined with molecular chains of crosslinked density 25 kg/m3
It is also equipped with a film on the one side which acts as a barrier for vapor resistance (PE film thickness 100μ) with extra width 100 mm for easy and fast overlapping at the installation process.
The structure of closed cells offers a greater deflection and rebound (after tension and release) due to the fact that air is trapped in the cells. Additionally it offers perfect resistance in water vapor leakage and humidity absorption.

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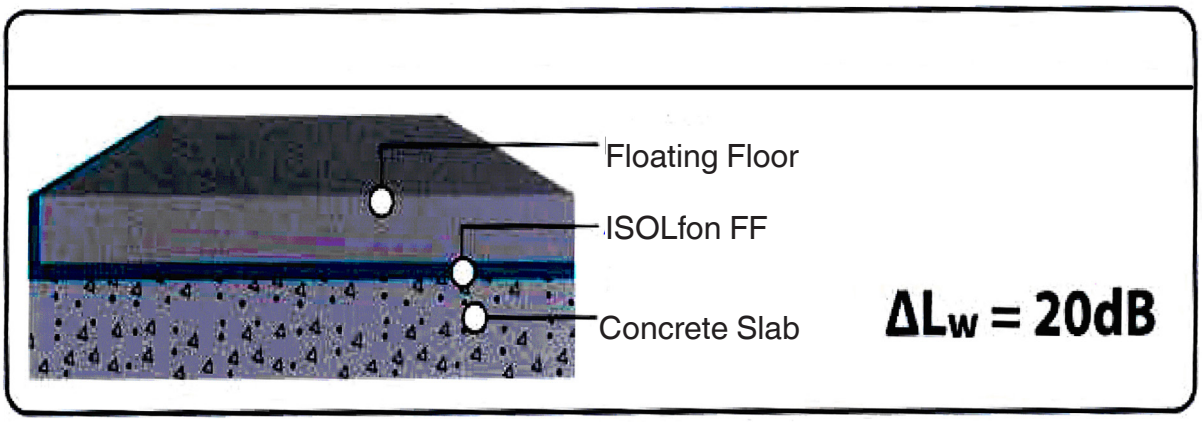
The intersection of the molecular chains offers: low permanent deformation against high load, high thermal and mechanical resistance and resistance to chemical environments, ultraviolet radiation and aging, long life with consistent performance. Their ingredients are environmentally friendly and contain no HFC.

Technical Characteristics

Improvement of Impact Noise Insulation ΔLw = 20 dB
According to ISO 140.8 & ISO 717.2



ISOLfon FF

Technical Characteristics

Density	ISO 845 EN 1602	25 (-0/+2) kg/m3
Color		Dark Grey
Reaction to fire	NFP 92 501	M1
	UNE 23725	M1
	UL 94	HF1
	MVSS 302	SE (Self-Extinguishing)
	95/28/EC	BT=0, LD=0 RFS=0
Thermal uses boundaries	Internal	60°C + 80 ° C (Continuous usage)
Thermal Conductivity	ISO 8302 ASTM C177	0,039 W/Mk (20 oC)
Factor resistance on vapor spreading	ISO 844 EN 12087	7 Days < 1% per volume 28 Days <2% per volume
Water absorption	ISO 2896 EN 12086	> 7000 (with film)
compressive stress	ISO 844 ISO 3386/1	Compression 10 %: 14 – 21 kPa Compression 25 %: 34 – 42 kPa Compression 50 %: 94 – 103 kPa
Tensile Strength (without film)	ISO 1798	L (MD) > 193 kPa W (TD) > 159 kPa
Elongation at break (without film)	ISO 1798	L (MD) > 52 % W (TD) > 74 %
Permanent Deformation	ISO 1856	23O C, 30 min, 25 % < 17 % 23O C, 24 h 25 % < 10 %
Dynamic Stiffness	EN 29052 - 1	ISOLfon FF.5: < 116 MN/m3 ISOLfon FF.10: < 70 MN/m3
Impact Sound Insulation noise	ISO 140-8 & ISO 717-2	ISOLfon FF.5 19 dB ISOLfon FF.10 20 dB

Design and Production according to Quality Management System **ISO 9001** & Environmental Management System **ISO 14001.**

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