

# TECHNICAL SPECIFICATIONS



## EBISOL 3,0mm

Underlay for floating installation

SCOPE	
Multi layer parquet elements (EN 13489, floating installation)	yes
Laminate floor coverings (EN 13329, 15468, 14978)	yes
Floor coverings MMFA Cat. "Wood" (EN 16511)	yes
Floor coverings MMFA Cat. "Polymer" or "Mixed" (EN 16511, Use class ≤ 32)	no
Floor coverings Loose Lay (Use class ≤ 32)	no

GENERAL SPECIFICATIONS	
Item number	88122
Product	EBISOL 3,0mm
Material, Color	HFPS-foam, grey
Delivery form	Panel (0,6 m <sup>2</sup> )
National legal requirements	FR: A+

MATERIAL SPECIFICATIONS			
Parameter	Specification	Tolerance	Test method
Thickness [mm]	3,0	±15%	EN 16354
Length [m]	0,50	-1% +5%	EN 16354
Width [m]	1,20	-1% +2,5%	EN 16354
Reaction to fire (RTF)	E <sub>fl</sub>	n. a.	EN 16354
Deflection temperature under load [°C]	≤ 70	n. a.	S WN
Coefficient of friction	n. a.	n. a.	ISO 8295
Water absorption [%]	≤ 1	n. a.	EN 12087

PERFORMANCE ACC. EN 16354 / TECHNICAL BULLETINS EPLF / MMFA			
Description	Parameter	Value	Unit
Thermal resistance	R	~ 0,086	m <sup>2</sup> K/W
Punctual conformability	PC	≥ 1,0	mm
Water vapor diffusion resistance	SD	n. a.	m
Dynamic load	DL <sub>25</sub> DL <sub>75</sub>	≥ 100.000 n. a.	Cycles
Compressive strength	CS	≥ 90	kPa
Compressive creep	CC	≥ 5,0	kPa
Resistance to large ball	RLB	≥ 1200	mm
Impact sound reduction	IS IS <sub>Lam</sub> IS <sub>HDF</sub> IS <sub>LVT</sub>	≤ 22 ≤ 18 ≤ 18 n. a.	dB
Radiated walking sound	RWS	n. a.	n. a.

Remark: All above values are determined at laboratory conditions and with defined laboratory test sets. They can deflect in praxis or with other system components. For all performance data tolerances are possible due to uncertainty of the test method.

The above statements reflect the current state of our knowledge, providing information about our products and their application. Therefore they can not guarantee particular product features or suitability for a specific application. Subject to modification, legal liability can not be derived from this information. Existing commercial patents must be observed.

April 22, all previous technical specifications are invalid

RECOMMENDATION OF FLOORING ASSOCIATIONS FOR REQUIREMENTS OF UNDERLAYS						
Description	EPLF		MMFA Underlay class 1		MMFA Underlay class 2	
	minimum	higher	minimum	higher	minimum	higher
R <sub>λ</sub> – Thermal resistance [m <sup>2</sup> K/W]	≥ 0,075		≥ 0,075		≥ 0,075	
PC – Punctual conformability [mm]	≥ 0,5		≥ 0,5		≥ 0,5	
SD – Water vapor permeability [m]	≥ 75		≥ 75		≥ 75	
DL <sub>25</sub> – Dynamic load [Cycles]	≥ 10.000	≥ 100.000	≥ 10.000	≥ 100.000	n. a.	
DL <sub>75</sub> – Dynamic load [Cycles]	n. a.		n. a.		≥ 10.000	≥ 100.000
CS – Compressive strength [kPa]	≥ 10	≥ 60	≥ 10	≥ 60	≥ 200	≥ 400
CC – Compressive creep [kPa]	≥ 2	≥ 20	≥ 2	≥ 20	≥ 10	≥ 35
RLB – Resistance to large ball [mm]	≥ 500	≥ 1200	n. a.		n. a.	
IS <sub>Lam</sub> – Impact sound reduction [dB]	≥ 14	≥ 18	n. a.		n. a.	
IS <sub>HDF</sub> – Impact sound reduction [dB]	n. a.		≥ 14	≥ 18	n. a.	
IS <sub>LVT</sub> – Impact sound reduction [dB]	n. a.		n. a.		≥ 10	≥ 18
RWS – Radiated walking sound []	n. a.		n. a.		n. a.	

## Explanation:

R Thermal Resistance  
Unheated floors:  
The greater the R value of the underlay and/or the R<sub>λ,B</sub> of the flooring system, the more marked will be the rise in temperature and comfort underfoot.

Heated / cooled floors:

R<sub>λ,B</sub> is the sum of the R<sub>λ</sub> values of the single components (e.g. laminate floor covering + underlay + water vapor control layer) – see manufacturers' instructions

The smaller the R<sub>λ,B</sub> value of the flooring system and/or the R value of the underlay, the better suited the flooring system will be for use on a heated/cooled substrate.

SD Water vapor permeability (S<sub>d</sub> value)  
The greater the SD value, the better the film will protect the laminate floor covering against damage caused by rising damp.  
Note: Substrate has to be in equilibrium moisture content and the following maximum moisture contents must be kept: < 2.0 CM% (for cement screed floor) respectively < 0.5 CM% (for anhydrite (cast) plaster floor).

PC Punctual Conformability  
The greater the PC value, the better the underlay for leveling out localized uneven areas. (Small grains in concrete, screed etc.)

DL Dynamic Load  
The greater the DL value, the longer the underlay will withstand these dynamic loads. (Walking, moving chairs etc.)

CS Compressive Strength  
The greater the CS value, the better the underlay will protect the connection system and counteract the formation and opening-up of any cracks.

CC Compressive Creep  
The greater the CC value, the heavier the furniture that can be placed on the laminate floor covering for a sustained period.

RLB\* Resistance to Large Ball  
The greater the RLB value, the better the underlay will minimize the damage to the laminate floor covering caused by falling objects.

IS\* Impact Sound Reduction  
The greater the IS value, the better the underlay will reduce the transmission of footstep noise.

RWS\* Radiated Walking Sound  
Test method: Under development

\* System tests (underlay + floor covering). Due to the influence of the floor covering the results can vary under other floor coverings.

Further requirements, remarks, test methods etc. see also:

- „Underlay Materials under Laminate Floor Coverings - Test Standards and Performance Indicators“ (Reference source: <http://www.epf.com>)
- „TB 1 - Underlay Materials under Multilayer Modular Floor Coverings (MMF) - Test Standards and Performance Indicators (Reference source: <http://www.mmfa.eu>)