

SELITPRO 2,2mm AquaStop 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	70640
Product	SELITPRO 2,2mm AquaStop
Material, Color	HFPS/HCPS-compound + vapor control layer, grey/blue/silver
Delivery form	Folded panel (9 m²)
National legal requirements	DE: AbZ, FR: A+

MATERIAL SPECIFICATIONS			
Parameter	Specification	Tolerance	Test method
Thickness [mm]	2,2	±15%	EN 16354
Length [m]	7,50	-0% +5%	EN 16354
Width [m]	1,20	-1% +2,5%	EN 16354
Reaction to fire (RTF)	E _{fl}	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	~ 0,07	m²K/W
Punctual conformability	PC	≥ 1,0	mm
Water vapor diffusion resistance	SD	≥ 200	m
Dynamic load	DL ₂₅	≥ 1.000.000	Cycles
	DL ₇₅	n. a.	
Compressive strength	CS	≥ 120	kPa
Compressive creep	CC	≥ 25,0	kPa
Resistance to large ball	RLB	≥ 1200	mm
Impact sound reduction	IS	≤ 21	dB
	IS _{Lam}	≤ 18	
	IS _{HDF}	≤ 18	
	IS _{LVT}	n. a.	
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.

August 20, 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 _λ – Thermal resistance [m²K/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 ₂₅ – Dynamic load [Cycles]	≥ 10.000	≥ 100.000	≥ 10.000	≥ 100.000	n. a.	
DL ₇₅ – 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 _{Lam} – Impact sound reduction [dB]	≥ 14	≥ 18	n. a.		n. a.	
IS _{HDF} – Impact sound reduction [dB]	n. a.		≥ 14	≥ 18	n. a.	
IS _{LVT} – 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_{λ,B} of the flooring system, the more marked will be the rise in temperature and comfort underfoot.

Heated / cooled floors:
R_{λ,B} is the sum of the R_λ values of the single components (e.g. laminate floor covering + underlay + water vapor control layer) – see manufacturers' instructions
The smaller the R_{λ,B} 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_d 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.epfl.com>)
- „TB 1 - Underlay Materials under Multilayer Modular Floor Coverings (MMF) - Test Standards and Performance Indicators (Reference source: <http://www.mmfa.eu>)