

# SPECIAL THERMO 5 mm

## TECHNICAL SPECIFICATIONS

### 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 Class 1 (EN 16511)	yes
Floor coverings MMFA Class 2/3 (EN 16511)	no

#### GENERAL SPECIFICATIONS

Item number	3034909
Product	noma®floor SPECIAL THERMO 5mm
Material, Colour	HFPS-foam, green
Delivery form	Folded panel
Packing	5 m <sup>2</sup>
National legal requirements	DE: AbZ, FR: A+

#### MATERIAL SPECIFICATIONS

Parameter	Specification	Tolerance	Test method
Thickness [mm]	5	± 0,5	EN 16354
Length [m]	6.25	+5% / -0%	EN 16354
Width [m]	0.8	+2.5% / -1%	EN 16354
Fire protection classification (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	~ 0.15	m <sup>2</sup> K/W
Punctual conformability	PC	≥ 4	mm
Water vapour permeability	SD	n. a.	m
Dynamic load	DL <sub>25</sub> DL <sub>75</sub>	≥ 250,000 n. a.	Cycles
Compressive strength	CS	≥ 90	kPa
Compressive creep	CC	≥ 25	kPa
Resistance to large ball	RLB	≥ 1,400	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.

May 18, all previous technical specifications are invalid

# SPECIAL THERMO 5 mm

## REMARKS

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 [m²K/W]	≥ 0.075		≥ 0.075		≥ 0.075	
PC - Punctual conformability [mm]	≥ 0.5		≥ 0.5		≥ 0.5	
SD - Water vapour 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 com-fort 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 vapour 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 vapour permeability (s<sub>d</sub>-Wert)

- 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 localised 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

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

**nomafloor**<sup>®</sup>  
THE PERFORMANCE UNDERLAY



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