

## STARLON® TOP th. 1,6 mm

STARLON® TOP is an extruded polystyrene underlay specially developed for underfloor heating.

The grooved and perforated system allows simple heat release through the underlay. This system minimizes heat loss and allows optimal heat circulation.

The underfloor heating system requires that the coefficient of thermal resistance (R) of the floor and the underlayment laid on the warm water underfloor heating does not exceed more than 0.15 m<sup>2</sup>K/W. The average value of thermal resistance (R) for laminate flooring with thickness 8 mm is 0.05 m<sup>2</sup>K/W. Therefore, it is recommended to use a underlayment with a coefficient of thermal resistance (R) not greater than 0.1 m<sup>2</sup>K/W.

**Based on an attestation made in ITC Zlín, the heat resistance 0.0599 m<sup>2</sup>K/W was calculated for STARLON® TOP with thickness 1.6 mm.**

### *STARLON® TOP – physical properties*

Parameter	Unit	Value	Test method, protocol
Roll dimension	m	1x20	
Thickness	mm	1,6 blue	ČSN EN 12431
Compensation of inequality	mm	1	
Coefficient of thermal conductivity [λ(10°C)]	W.m <sup>-1</sup> .K <sup>-1</sup>	0,0267	ISO 8302, ČSN EN 12667
Thermal resistance ( R)	m <sup>2</sup> K/W	0,0599	
Dynamic stiffness	MN.m <sup>-3</sup>	325	ČSN ISO 9052-1
Load resistance	t/m <sup>2</sup>	4,5	
Impact damping [ΔL <sub>w</sub> ]	dB	16	ČSN EN ISO 140-8
Water absorption	% (hm.)	≤0,06	ČSN 64 5421
Combustibility		F	ČSN EN 13 501-1
Hygienic evaluation of material	-	Health safe	-
Impact on the environment	-	Ecological safe, without freons, recyclable	-
Olfactory evaluation	-	odorless	-