



LASTING EXPRESSIONS

TECHNICAL DATASHEET

STENI Protego Sand

MATERIAL DATA (23 °C RF 45-60 %):		Value	Unit	Reference	
Thickness		5,5 ± 0,6	mm	STENI quality system	
Weight		11,0 ± 5%	kg/m ²	STENI quality system	
Density		1960 ± 3 %	kg/m ³	STENI quality system	
Length and width		± 2	mm	STENI quality system	
Edge straightness		± 1	mm	STENI quality system	
Drilling position tolerance		± 3	mm	STENI quality system	
Diagonal deviation		≤ 3	mm	STENI quality system	
SURFACE:					
Front side of panel: Natural sand		Grade	0,7 - 1,2	mm	STENI quality system
Front side quality: Uniform surface without craters and lack of aggregate		5 m distance 90° viewing with normal daylight without sun	Not visible		STENI quality system
Edge of panel:		<i>Untreated;</i> (small defects adjoining to surface)	Accepted		STENI quality system
Back side of panel is untreated and partly calibrated by sanding. Minor defects.			Accepted		STENI quality system
PHYSICAL DATA:					
Flexural strength		≥ 30	N/mm ²	CSTB method	
Elasticity module		≥ 5000	N/mm ²	CSTB method	
Impact strength		≥ 17	kJ/m ²	ISO 172-82	
Tensile strength (length and width direction)		≥ 13	N/mm ²	ISO/R 527-66	
Resistance to hard impact:		Max hight of ball drop	3,5	m	NT Build 066
Resistance of pull through panel (drilled hole 5,5mm) Steni fixing screw (4,8 * 51)		1,0	kN	EN 320:1993	
Emission After 28 days (23 °C 50 % RH)		TVOC Formaldehyde ΣVOC carcinogenic	540 3 <1	µg/(m ² h)	EN ISO 16000-9:2006
Dimensional stability. Cumulative change max		0,04	%	NS EN 438-2:2005, part 18	
THERMAL/MOISTURE PROPERTIES:					
Thermal conductivity λ _p		0,55	W/(m K)	SINTEF NBI	
Temperature expansion (-20 °C to +65 °C)		0,021- 0,026	mm/(m K)	SINTEF NBI	
Water vapor resistance		30·10 ¹⁰	(m ² sPa)/kg	ASTM E 96-66	
Water vapor resistance S _d		58,5	m	SINTEF NBI	
Permeability of water vapour		33·10 ⁻¹³	kg(m ² s Pa)	ASTM E 96-66	
Water absorption 1 m deep: (25 °C 100% RH)		After 24 hour After 28 days	ca. 0,5 ca. 2,0	%	ASTM D-570
Frost resistance		> 300	Cycle	SINTEF NBI	
FIRE RESISTANCE:					
Used as ventilated roof panel (rain screen)		B _{ROOF} (t2)	Euro Class	EN 13501-5:2005+A1:2009	
ENVIRONMENTAL:					
Global warming potential		20,9	CO ₂ -eq/m ²	EDP-60673 (EN 15804+A2)	
Total energy use		412	MJ/m ²	EDP-60673 (EN 15804+A2)	

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