

# TECHNICAL DATASHEET

## STENI Terra

MATERIAL DATA (23 °C RF 45-60 %):		Value	Unit	Reference	
Thickness		5 ± 0,5	mm	STENI quality system	
Weight		9,5 ± 10 %	kg/m <sup>2</sup>	STENI quality system	
Density		1960 ± 3 %	kg/m <sup>3</sup>	STENI quality system	
Length and width		± 2	mm	STENI quality system	
Edge straightness		± 1	mm	STENI quality system	
Drilling position tolerance		± 5	mm	STENI quality system	
Diagonal deviation		≤ 3	mm	STENI quality system	
<b>SURFACE:</b>					
Front side of panel: (Untreated natural sand)		Grain of sand size	1,0 – 3,0	mm	STENI quality system
Front side quality: Uniform surface expression without craters and lack of sand)		<i>Product for outside use;</i> (5 m distance 90° viewing with normal daylight without sun) <i>Product for inside use;</i> (3 m distance 90° viewing with normal illumination)		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. Minor defects.		Accepted			STENI quality system
<b>PHYSICAL DATA:</b>					
Flexural strength		≥ 40	N/mm <sup>2</sup>	CSTB method	
Elasticity module		≥ 5000	N/mm <sup>2</sup>	CSTB method	
Impact strength			kJ/m <sup>2</sup>	Not certified	
Tensile strength (length and width direction)			N/mm <sup>2</sup>	Not certified	
Critical radius		< 3,5	m	STENI quality system	
Resistance to strong impact		Maximum height of ball drop	3,5	m	NT Build 066
Resistance of pull through panel (drilled hole d=4,5mm) Steni fixing screw (4,0 * 28/ 33)		0,6	kN	EN 320:1993, interpolated	
Emission (TVOC): (23 °C 25 % RH)		After 3 days After 28 days		µg/(m <sup>2</sup> h)	Not certified
Thermal conductivity λ <sub>p</sub>		0,55	W/(m K)	SINTEF NBI	
<b>THERMAL PROPERTIES:</b>					
Dimensional stability. Cumulative change max		0,04	%	NS EN 438-2:2005, part 18	
Temperature expansion (-20 °C to +65 °C )		0,021- 0,026	mm/(m K)	SINTEF NBI	
Water vapor resistance		20·10 <sup>10</sup>	(m <sup>2</sup> sPa)/kg	ASTM E 96-66, interpolated	
Water vapor resistance S <sub>d</sub>		39	m	SINTEF NBI, interpolated	
Permeability of water vapour		22·10 <sup>-13</sup>	kg(m <sup>2</sup> s Pa)	ASTM E 96-66, interpolated	
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	
<b>FIRE RESISTANCE:</b>					
Used as ventilated facade panel (surface)			Euro Class	Not certified	
<b>ENVIRONMENTAL:</b>					
Global warming			CO <sub>2</sub> ekv/m <sup>2</sup>	Not certified	
Total energy			MJ/m <sup>2</sup>	Not certified	