

TECHNICAL DATASHEET

STENI Nature M

MATERIAL DATA (23 °C RF 45-60 %):		Value	Unit	Reference	
Thickness		8,0 ± 0,6	mm	STENI quality system	
Weight		15,0 ± 10 %	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 distains tolerance		± 5	mm	STENI quality system	
Diagonal deviation		≤ 3	mm	STENI quality system	
SURFACE:					
Front side of panel: (Untreated natural aggregate)		Aggregate size	3,0 – 5,0	mm	STENI quality system
Front side quality: Uniform surface expression without craters and lack of aggregate)		<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
PHYSICAL DATA:					
Flexural strength		≥ 40	N/mm ²	CSTB method	
Elasticity module		≥ 5000	N/mm ²	EN ISO 178	
Impact strength		≥ 17	kJ/m ²	ISO 172-82	
Tensile strength (length and width direction)		≥ 13	N/mm ²	ISO/R 527-66	
Critical radius		< 3,5	m		
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)		1,0	kN	EN 320:1993	
Emission (TVOC): (23 °C 25 % RH)		After 3 days After 28 days	140 50	µg/(m ² h)	prEN 13419-2
Thermal conductivity λ _p		0,55	W/(m K)	SINTEF NBI	
THERMAL PROPERTIES:					
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		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 facade panel (surface)		B-s1,d0	Euro Class	EN 13501-1	
ENVIRONMENTAL:					
Global warming		14	CO ₂ ekv/m ²	SINTEF NEPD 0097E rev 1	
Total energy		141	MJ/m ²	SINTEF NEPD 0097E rev 1	