

# Technical product data

<b>Structa</b>		EN 494 EN 13501-1  Stand: 01.04.2023 TDB 1006
Fibre-cement sheet		
<b>Resistance to ageing and to chemicals</b>		Similar to unreinforced concrete. Normal salted air environment (coastal areas) does not affect the functional performances of the panels.
<b>Coating</b>		
<i>Visible face</i>		Pure acrylate coating
<i>Back face</i>		Water-resisting (hydrophobic) coating
<b>Usable format (maximal value) length and width (mm)</b>		625 1175
<b>Tensile bending (MPa)</b>		
<i>Minimum strength lengthwise to fibre (5 % fraction)</i>		11.5
<i>Minimum bending moment Category C according to EN 494</i>		30.0

<b>Fire classification (according to EN13501-1)</b>		A2,s1-d0
<b>Fire performance</b>		Non-inflammable, incombustible
<b>Apparent density (g/cm<sup>3</sup>)</b> <i>Minimum (5 % fraction)</i>		1.6
<b>Compressive strength (MPa)</b> <i>Minimum (5 % fraction)</i>		40
<b>Young's modulus (MPa)</b> <i>Minimum (5 % fraction)</i>		15000
<b>Shrinkage (mm/m)</b> <i>Longterm shrinkage, dry - wet</i>		2.0
<b>Coefficient of thermal expansion (1/K)</b>		1.0E-05
<b>Moisture expansion (mm/m)</b> <i>air dried - humid</i>		1.0

<b>Heat conductivity (W/(m K))</b>		0.56
<b>Moisture content (M.-%)</b> <i>maximum value on dispatch ex works</i>		10.0
<b>Area density (kg/m<sup>2</sup>)</b> <i>7 mm sheet</i>		18.0
<b>Frost resistance</b> <i>according to EN 494</i>		Comply with category A
<b>Heat resistance</b>		Guaranteed up to - 40 °C and + 80 °C
<b>Moisture content in equilibrium (M.-%)</b> <i>at 20 % relative air humidity</i> <i>at 95 % relative air humidity</i>		4.0 10.0
<b>Light fastness</b>		Comply according to ASTM G 155-13

<b>Water absorption capacity (M.-%)</b>	<i>Average value</i>	18.0
<b>Water vapour diffusion</b>	<i>Vapour diffusion conductivity, wet (mg/m h Pa)</i>	0.00349 206 1.28
	<i>Vapour diffusion resistance index</i>	
	<i>Diffusion equivalent air layer thickness (m) (8 mm sheet)</i>	
<b>Hail resistance</b>	<i>class</i>	HW 4