

# Technical Data Sheet - EXELIA C ST

**Generic product description:** PVC interlocking tiles of various sizes and thicknesses (up to 7 mm).  
**Resilient floor covering:** homogenous polyvinyl chloride floor coverings (EN 649).  
**Intended use:** internal and external use as flooring coverings.

Technical Specifications	Standard	Unit	Average values
<b>Dimensions</b>	EN ISO 24342	mm   in	500X500   19 11/16X19 11/16 250X250   9 7/8X9 7/8
<b>Overall thickness</b>	EN ISO 24346	mm   in	7   9/32
<b>Total mass per unit area</b>	EN ISO 23997	kg/m <sup>2</sup> - lb/m <sup>2</sup> (1 m <sup>2</sup> ≈ 1.2 yard <sup>2</sup> )	500X500: 9.15   20.17 250X250: 9.09   20.04
<b>Density</b>	EN ISO 1183	g/cm <sup>3</sup>	from 1.35 to 1.41
<b>Hardness</b>	EN ISO 868	Shore A	92 ± 3
<b>CE marking</b>	EN 14041	/	Compliant
<b>Reaction to fire</b>	EN 13501-1	/	Class C <sub>fl</sub> -s2 with and without adhesives 
<b>Critical heat flux</b>	EN ISO 9239-1 ASTM E-648	kW/m <sup>2</sup> W/cm <sup>2</sup>	5.8 0.58 (Class I)
<b>Wear resistance (F<sub>v</sub>)</b>	EN 660-2	mm <sup>3</sup>	4.4
<b>Wear groups</b>	EN 649	/	M
<b>Classification</b>	EN ISO 10874	/	
<b>Castor chair test</b>	EN 425	/	No disturbance to the surface other than a slight change in appearance. No delamination shall occur.
<b>Residual indentation (average)</b>	EN ISO 24343-1	mm	0.02
<b>Resistance to static loads</b>	/	kg/cm <sup>2</sup>	50
<b>Dimensional stability</b>	EN ISO 23999	%	≤ 0.25
<b>Curling after exposure to heat</b>	EN ISO 23999	mm	≤ 2
<b>Flexibility (test performed with a 20 mm mandrel)</b>	EN ISO 24344 Method A	/	No cracking
<b>Seam strength</b>	EN 684	N/50 mm	200 (not welded)
<b>Slip resistance</b>	DIN 51130	/	R10 Slip angle = 14.5°
<b>Thermal resistance</b>	ASTM E1530-11	m <sup>2</sup> K/W	0.03 Suitable for floor heating system
<b>Thermal conductivity</b>	ASTM E1530-11	W/(mK)	0.19
<b>Impact sound reduction</b>	EN ISO 10140-3 EN ISO 717-2	dB	10
<b>VOC Emissions (Classification according to the French Decree No. 321/2011 based on emission after 28 days)</b>	EN ISO 16000-9	µg/m <sup>3</sup>	Emission class: A+ Total VOC = 23 Formaldehyde < 3
<b>Dielectric strength</b>	CEI EN 60243-1	kV/mm	27.33
<b>Chemical resistance against acids (except sulfuric acid), alkalis and hydrocarbons (oil)</b>	/	/	No deterioration
<b>Chemical resistance against PVC solvents (ketones, chlorinated solvents and phthalates).</b>	/	/	Does not resist prolonged exposure.