

TECHNICAL COMPARISONS OF URBAN PAVEMENTS

	Pressed concrete tile	Board	Granite	Limestone	EcoGranic	Sintered Concrete	Sintered Natural Stone	Comments
Mechanical strength	30x30x45 8kN	30x60x40 7,9kN	30x60x40 5,5kN	30x60x40 4,7kN	30x40x8 8,8kN	20x20x12 >5kN	30x60x2 12,8 kN	>5kN are suitable for foot traffic >10kN are suitable for frequent passage of heavy vehicles.
Hardness (Mohs Scale)	4	3	5,5>7	3	4	8	8	A value less than 6 makes the material scratchable by steel.
Abrasive wear	4	4	5	3>4	5	5	5	Class 4 Foot traffic. Class 5 Heavy foot traffic.
Slip resistance	65	40>60	40>60	40>60	>65*	>70 dry and wet	>70 dry and wet	* Does not indicate whether the value corresponds to the dry resistance or wet.
Water absorption	<6%	0,4%>1,8%	<1,6%	2%>6%	<6%	<0,05%	<0,02%	Water absorption determines resistance to temperature changes and stains. Any material with absorption >1% is crushed with oil and other materials.
Stain resistance	1>4	2>4	CLASE 1>5 According to type of stain	1>4	NOT INDICATED	CLASS 5	CLASS 5	Class 5 corresponds to cleaning with water of any type of stain.
Gum adhesión	YES ADHERES	YES ADHERES	YES ADHERES	YES ADHERES	YES ADHERES	YES ADHERES	NO ADHERES	
Dilatation coefficient	$\pm 11 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$\pm 11 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$\pm 10 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$\pm 12 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	NO SE INDICA	$\pm 6,5 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$\pm 6,5 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	In the case of Stone20 for a 60 cm long piece subjected to temperatures between -20 °C and 40 °C, its length varies by 0.234 mm.
Density	2,4g/cm ³	2,4>2,9g/cm ³	1,7>2,4g/cm ³	1,9>2,7g/cm ³	2,1 g/cm ³	2 g/cm ³	2 g/cm ³	Sintered materials have a density lower than the sum of their components.
Useful Life (years maintaining non-slip characteristics and appearance)	>15	>15	>15	>15	>15	>50	>50	Both concrete tiles and natural stone are progressively losing their non-slip qualities and extending their useful life means endangering pedestrians.
Bacteria resistance	NO	NO	NO	NO	NO	Bacteristatic	Bacteristatic	The pores of a few microns present in sintered materials prevent the proliferation of bacteria.