

COMPARISON: TECHNICAL CHARACTERISTICS OF URBAN FLOORING

	Pressed Concrete Tile	Slate Floor	Granite	Limestone	EcoGranic	Sintered Concrete	Sintered Natural Stone	Comments
Mechanical strength	30x30x45	30x60x40	30x60x40	30x60x40	30x40x8	20x20x12	30x60x2	> 5kN are suitable for pedestrian traffic> 10kN are suitable for frequent passage of heavy vehicles.
	8kN	7,9kN	5,5kN	4,7kN	8,8kN	>5kN	12,8 kN	
Hardness	4	3	5,5>7	3	4	9	9	A value less than 6 makes the material scratchable by the steel.
Mohs scale								
Abrasion wear	4	4	5	3>4	5	5	5	Class 4 Pedestrian traffic. Class 5 Heavy pedestrian traffic.
Slip resistance	65	40>60	40>60	40>60	>65*	>70 dry and wet	>70 dry and wet	* It does not indicate if the value corresponds to the resistance in dry or wet.
Water absorption	<6%	0,4%>1,8%	<1,6%	2%>6%	<6%	<0,05%	<0,02%	The water absorption determines the resistance against temperature changes and stains. Any material with> 1% absorption is crushed with oil and other materials.
Stain resistance	1>4	2>4	CLASS 1>5 depending on the type of stain	1>4	IT DOESN'T INDICATE	CLASS 5	CLASS 5	Class 5 corresponds to cleaning with water of any type of stain.
Chewing gum adhesion	IT STICKS	IT STICKS	IT STICKS	IT STICKS	IT STICKS	DOESN'T ADHERE	DOESN'T ADHERE	
Expansivity	± 11x10 <sup>-6</sup> °C <sup>-1</sup>	± 11x10 <sup>-6</sup> °C <sup>-1</sup>	± 10x10 <sup>-6</sup> °C <sup>-1</sup>	± 12x10 <sup>-6</sup> °C <sup>-1</sup>	IT DOESN'T INDICATE	± 6,5x10 <sup>-6</sup> °C <sup>-1</sup>	± 6,5x10 <sup>-6</sup> °C <sup>-1</sup>	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/cm3	2,4>2,9g/cm3	1,7>2,4g/cm3	1,9>2,7g/cm3	2,1 g/cm3	2 g/cm3	2 g/cm3	Sintered materials have a density less 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 gradually lose their non-slip qualities and lengthening their useful life means endangering pedestrians.
Bacterial resistance	No	No	No	No	No	Bacteriostat	Bacteriostat	The few micron pores present in the sintered materials prevent the proliferation of bacteria.

COMPARISON: URBAN FLOOR FEATURES

	Pressed Concrete Tile	Slate Floor	Granite	Limestone	EcoGranic	Sintered Concrete	Sintered Natural Stone	Comments
High resistance to breakage	+	-	+	±	+	++	++	To achieve the same breaking strength as the 20mm Stone, a concrete thickness of 255mm is required.
High scratch resistance	-	-	+	-	-	++	++	
Maintaining appearance over the years	+	+	+	±	+	++	++	
Slip resistance over the years	+	-	+	-	+	++	++	
Frost resistance	±	±	±	±	±	++	++	
Bacterial resistance	-	-	-	-	-	+	+	
Low ecological impact	±*	±*	±*	±*	+	++	++	*Depends on the distance to the quarry. Sintered parts have less impact due to their low weight, easy cleaning and life cycle.
Low erosion natural environment	+	-	-	-	+	++	++	
Stain resistance	±	±	+	±	±	++	++	
Chewing gum adhesion resistance	-	-	-	-	-	+	+	