

Del Conca USA - Technical Characteristics

SERIES ESSENTIAL collection

ANSI A 137.1 - 2019 Table 10 : Porcelain Tile

Reference		Characteristics	Standard	Required values	DC USA Values:	
Dimensional standard	Calibrated	Nominal Size	ASTM C499	± 3%		Comply
		Caliber Range	ASTM C499	± 0.5%	± 0.08 in	Comply
		Warpage Edge	ASTM C485	± 0.5%	± 0.07 in	Comply
		Warpage Diagonal	ASTM C485	± 0.5%	± 0.07 in	Comply
		Wedging	ASTM C502	± 0.5%	± 0.08 in	Comply
	Rectified	Nominal Size	ASTM C499	- 3%	+ 2%	Comply
		Caliber Range	ASTM C499	± 0.25%	± 0.03 in	Comply
		Warpage Edge	ASTM C485	± 0.4%	± 0.05 in	Comply
		Warpage Diagonal	ASTM C485	± 0.4%	± 0.07 in	Comply
		Wedging	ASTM C502	± 0.25%	± 0.03 in	Comply
Mechanical Standard	Thickness	ASTM C499	± 0.040 in		Comply	
	DEEP Abrasion	ASTM C1243	<175mm ³		~ 40 mm³	
	Bond Strength	ASTM C482	≥ 50 psi		Comply	
	Water absorption	ASTM C373	≤ 0.5%		~ 0.1%	
	Thermal shock resistance	ASTM C484	Pass		Comply	
	Chemical resistance	ASTM C650	Pass		Class E	
	Stain resistance	ASTM C1378	Pass		Class A	
	Breaking Strength	ASTM C648	≥ 275 lbf		Comply	
	Resistance to Freeze/Thaw cycling	ASTM C1026	As Reported		Comply	
	MOHS		Declared value		Mohs ≥7	



		Fire reaction - floor	EN 13823	Not Required		A1fl class (No reaction)	
		Fire reaction - wall	EN 13823	Not Required		A1 class (No reaction)	
		VOC	No VOC				
		S R I	ASTM E1980	Average Value:			
	Gray			Graphite			
			60.1	23.5			
US Requirements	Dynamic coefficient of Friction DCOF	ANSI A326.3-2017 release 2019	Wet value \geq 0.60	20 mm	0.74		

Values reflect an average among test performed in our laboratory according to the standard requirements and/or through third party laboratory.

Test are performed on actual production, first choice material. Values may vary between single individual production run.

Del Conca USA Technical team will be pleased to integrate and answer specific questions.