

Del Conca USA - Technical Characteristics

SERIES HRO, ROMA 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	$\pm 3\%$		Comply
		Caliber Range	ASTM C499	$\pm 0.5\%$	± 0.08 in	Comply
		Warpage Edge	ASTM C485	$\pm 0.5\%$	± 0.07 in	Comply
		Warpage Diagonal	ASTM C485	$\pm 0.5\%$	± 0.07 in	Comply
		Wedging	ASTM C502	$\pm 0.5\%$	± 0.08 in	Comply
	Rectified	Nominal Size	ASTM C499	- 3%	+ 2%	Comply
		Caliber Range	ASTM C499	$\pm 0.25\%$	± 0.03 in	Comply
		Warpage Edge	ASTM C485	$\pm 0.4\%$	± 0.05 in	Comply
		Warpage Diagonal	ASTM C485	$\pm 0.4\%$	± 0.07 in	Comply
		Wedging	ASTM C502	$\pm 0.25\%$	± 0.03 in	Comply
Mechanical Standard		Thickness	ASTM C499	± 0.040 in		Comply
		DEEP Abrasion	ASTM C1243	$<175\text{mm}^3$		~ 40 mm³
		Bond Strength	ASTM C482	≥ 50 psi		Comply
		Water absorption	ASTM C373	$\leq 0.5\%$		~ 0.2%
		Thermal shock resistance	ASTM C484	Pass		Comply
		Chemical resistance	ASTM C650	Pass		Comply
		Stain resistance	ASTM C1378	Pass		Comply
		Breaking Strength	ASTM C648	≥ 275 lbf		Comply
		Resistance to Freeze/Thaw cycling	ASTM C1026	As Reported		Comply
		Scratch Hardness	Mohs	Declared value		Mohs ≥ 6



		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			
	US Requirements	Dynamic coefficient of Friction DCOF	ANSI A326.3-2017 release 2019	Wet value ≥ 0.42	Nat	0.52

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.

Del Conca USA - Technical Characteristics

SERIES HRO, ROMA ARCHETTI 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%		~ 0.2%
		Thermal shock resistance	ASTM C484	Pass		Comply
		Chemical resistance	ASTM C650	Pass		Comply
		Stain resistance	ASTM C1378	Pass		Comply
		Breaking Strength	ASTM C648	≥ 275 lbf		Comply
		Resistance to Freeze/Thaw cycling	ASTM C1026	As Reported		Comply
		Scratch Hardness	Mohs	Declared value		Mohs ≥6



		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			
	US Requirements	Dynamic coefficient of Friction DCOF	ANSI A326.3-2017 release 2019	Wet value ≥ 0.42	Nat	0.55

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.