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Technical Characteristics

FORUM

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	<175mm³		**~ 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**

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		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 trough third party laboratory.

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

Z Collection will be pleased to integrate and answer specific questions.

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		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**

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