

			WEIGHT PER	SIZE TOLERANCE		SLIP RESISTANCE (UNSEALED)			FLEXURAL STRENGTH (PSI)		MODULUS OF RUPTURE (PSI)		SALT RESISTANCE (% MEAN WEIGHT LOSS)		WATER ABSORPTION (MEAN)		BULK SPECIFIC GRAVITY (KG/M ³)	
			Sq Ft	Dimension	Thickness	Oil-Wet Ramp	Mean BPN/ SRV	Classification	Dried Strength	Soaked Strength	Dried	Soaked	Not Sealed	Dry Treat 40SK	% by Weight	% by Volume		
			lbm / (thickness)															
FLOORING																		
LIMESTONE	Allaro	Tumbled	7.99 (0.59")	+/-0.08"	+/-0.11"		45	P4			2407.626	1783.964	0.29 (A Grade)		1.56	4.01	2565	
	Andorra	Brushed	10.65 (0.79")	+/-0.08"	+/-0.11"		42	P3			2016.025	1479.385	0.4 (A Grade)		1.58	4.09	2590	
		Honed					50	P4										
	New Andorra	Brushed	10.65 (0.79")	+/-0.08"	+/-0.11"		43	P3			2262.589	1421.37	0.5 (A Grade)		1.25	3.27	2617	
	Arbon	Tumbled	7.78 (0.59")				51	P4			1899.994	1566.408						
		Honed					53	P4										
		Light Honed		+/-0.08"	+/-0.11"		41	P3						0.7 (A Grade)		2.32	5.77	2488
		Sandblasted & Brushed	10.86 (0.787")				37	P3										
	Calchetta	Distressed	9.42 (0.7")	+/-0.08"	+/-0.11"		59	P5			1841.979	1174.81	2.7 (B Grade)		2.07	5.26	2544	
	Chalford	Distressed	9.63 (0.7")	+/-0.08"	+/-0.11"						2016.025	1479.385	0.4 (A Grade)		1.58	4.09	2590	
	New Chalford	Distressed					55	P5										
		Sandblasted	9.63 (0.7")	+/-0.08"	+/-0.11"		57	P5			2262.589	1421.37	0.5 (A Grade)		1.25	3.27	2617	
	Colmar	Brushed	10.24 (0.79")	+/-0.08"	+/-0.11"		35	P3			1392.36	1044.27	3.0 (B Grade)		2.84	7.02	2478	
	Cush	Tumbled	10.24 (0.79")	+/-0.08"	+/-0.11"		49	W	2944.266	1841.979				0.4 (A Grade)	2.51	6.23	2493	
	Dover	Antique					27	P2										
		Sandblasted	6.55 (0.47")	+/-0.08"	+/-0.11"		52	P4			2146.559	1711.445	0.10 (A Grade)		0.08	0.23	2702	
	Duro	Sandblasted	10.45 (0.79")	+/-0.08"	+/-0.11"		62	P5			2407.626	1783.964	0.29 (A Grade)		1.56	4.01	2565	
	Garonne	Tumbled	7.78 (0.59")				51	P4			1841.979	1174.81						
		Light Honed					47	P4										
		Sandblasted & Brushed	10.86 (0.787")	+/-0.08"	+/-0.11"		40	P3						2.7 (B Grade)	2.07	5.26	2544	
	Jericho	Tumbled	10.86 (0.79")	+/-0.08"	+/-0.11"		47	W	2161.062	1537.4				0.13 (A Grade)	0.70	1.84	2648	
	La Roche	Tumbled	10.65 (0.79")	+/-0.08"	+/-0.11"		38	X	2045.032	1899.994				0.15 (A Grade)	0.94	2.47	2615	
	Miramar	Sandblasted	10.65 (0.79")	+/-0.08"	+/-0.11"		59	P5			2233.581	1725.949	0.10 (A Grade)		1.11	2.90	2611	
Nettle	Heavily Distressed	11.26 (0.787")	+/-0.08"	+/-0.11"		28	P2						0.15 (A Grade)	0.94	2.47	2615		
Sabero	Bush Hammered	10.65 (0.79")	+/-0.08"	+/-0.11"				2045.032	1899.994				0.15 (A Grade)	0.94	2.47	2615		
Vardo	Antique Brushed	9.42 (0.79")	+/-0.08"	+/-0.11"		36	P3			1421.4	841.2	2.0 (B Grade)		4.22	9.64	2290		
Winbourne	Heavily Distressed	11.47 (0.787")	+/-0.08"	+/-0.11"		41	P3						0.10 (A Grade)	1.11	2.90	2611		
Wyndam	Antique Brushed	9.63 (0.7")	+/-0.08"	+/-0.11"		39	P3			2262.589	1421.37	0.5 (A Grade)		1.25	3.27	2617		

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WATER ABSORPTION > A measure of the porosity of a stone and can also be an indicator of a stone's general durability. A stone that has a greater water absorption will also tend to absorb stains more readily. In general, the lowest water absorption is desired. ASTM C97.

SLIP RESISTANCE > The slip resistance of a stone can vary considerably depending on the density, porosity, grain size, surface roughness and level of finish. As a general rule of thumb the rougher and more porous the stone, the greater the slip resistance. Exfoliated surfaces generally provide a better resistance to slip than a honed or polished finish.

The wet pendulum (BPN test) according to AS 4586 is the most useful slip rating test for common or public areas. The portable device consists of a weighted foot which comprises a spring-loaded rubber test slider that exerts a prescribed force over the stone as it slides across the wetted surface. The results are expressed as a British Pendulum Number (or Skid Resistance Value SRV). An (R) rating refers to a product that has been tested using the Oil-wet Ramp Test. This is usually performed with motor oil being used instead of water and safety boots replacing bare foot. An R11 is generally the minimum required product for external finishes.

SLIP CLASSIFICATIONS

P5 = Very Low (SRV > 54)
 P4 = Low (SRV 45-54)
 P3 = Moderate (SRV 35-44)
 P2 and P1 = High (SRV 25-34 and 12-24 respectively)
 P0 = Very High (SRV < 12)

(Very low - as contribution to risk of slipping)

SALT RESISTANCE TESTING >

Testing for salt attack involves repeated cycles of full immersion of sample units in a sodium sulphate (or sodium chloride) solution for a period of time and overnight drying, once carried out numerous times the sample/residue is weighed to determine mean % weight loss. AS/NZS 4586 Method A

STRENGTH TESTING

Compressive Strength > is the measure of the resistance to crushing loads. The compressive strength is the maximum load per unit area that the stone can bear without crushing. In reference to a stone wall, the stone at the base of the wall would have to withstand the compressive load of the weight of stones above. ASTM C170

Flexural Strength > (or bending strength) is a measure of a stone's tensile strength induced by bending. The test load on top of the stone is not applied to a single location at mid span but rather distributed with half of the load applied at each of two points one quarter of the span from the supports. In this way, the entire centre half of the stone is subjected to the same maximum bending forces. Thus any local weakness such as vein is more likely to be reflected in the flexural strength test. ASTM C880

Modulus of Rupture (MoR) >

In contrast to the flexural strength test, to determine the MoR force is applied directly at the mid point of the span. The stone is more likely to fail directly under the load or point of force rather than at a vein or point of weakness in the material. ASTM C99