

			WEIGHT PER M <sup>2</sup>	SIZE TOLERANCE		SLIP RESISTANCE (UNSEALED)			FLEXURAL STRENGTH (MPa)		MODULUS OF RUPTURE (MPa)		SALT RESISTANCE (% MEAN WEIGHT LOSS)		WATER ABSORPTION (MEAN)		BULK SPECIFIC GRAVITY (KG/M <sup>3</sup> )	
			kg / (thickness)	Dimension	Thickness	Oil-Wet Ramp	Mean BPN/ SRV	Classification	Dried Strength	Soaked Strength	Dried	Soaked	Not Sealed	Dry Treat 40SK	% by Weight	% by Volume		
<b>FLOORING</b>																		
<b>LIMESTONE</b>	Allaro	Tumbled	39 (15mm)	+/-2mm	+/-3mm		45	P4			16.6	12.3	0.29 (A Grade)		1.56	4.01	2565	
	Andorra	Brushed	52 (20mm)	+/-2mm	+/-3mm		42	P3			13.9	10.2	0.4 (A Grade)		1.58	4.09	2590	
		Honed					50	P4										
	New Andorra	Brushed	52 (20mm)	+/-2mm	+/-3mm		43	P3			15.6	9.8	0.5 (A Grade)		1.25	3.27	2617	
	Arbon	Tumbled	38 (15mm)	+/-2mm	+/-3mm		51	P4			13.1	10.8	0.7 (A Grade)		2.32	5.77	2488	
		Honed				53	P4											
		Light Honed				41	P3											
		Sandblasted & Brushed	53 (20mm)				37	P3										
	Calchetta	Distressed	46 (18mm)	+/-2mm	+/-3mm		59	P5			12.7	8.1	2.7 (B Grade)		2.07	5.26	2544	
	Chalford	Distressed	47 (18mm)	+/-2mm	+/-3mm						13.9	10.2	0.4 (A Grade)		1.58	4.09	2590	
	New Chalford	Distressed	47 (18mm)	+/-2mm	+/-3mm		55	P5			15.6	9.8	0.5 (A Grade)		1.25	3.27	2617	
		Sandblasted					57	P5										
	Colmar	Brushed	50 (20mm)	+/-2mm	+/-3mm		35	P3			9.6	7.2	3.0 (B Grade)		2.84	7.02	2478	
	Cush	Tumbled	50 (20mm)	+/-2mm	+/-3mm		49	W	20.3	12.7			0.4 (A Grade)		2.51	6.23	2493	
	Dover	Antique	32 (12mm)	+/-2mm	+/-3mm		27	P2			14.8	11.8	0.10 (A Grade)		0.08	0.23	2702	
		Sandblasted					52	P4										
	Duro	Sandblasted	51 (20mm)	+/-2mm	+/-3mm		62	P5			16.6	12.3	0.29 (A Grade)		1.56	4.01	2565	
	Garonne	Tumbled	38 (15mm)	+/-2mm	+/-3mm		51	P4			12.7	8.1	2.7 (B Grade)		2.07	5.26	2544	
		Light Honed				47	P4											
		Sandblasted & Brushed	53 (20mm)				40	P3										
	Jericho	Tumbled	53 (20mm)	+/-2mm	+/-3mm		47	W	14.9	10.6			0.13 (A Grade)		0.70	1.84	2648	
	La Roche	Tumbled	52 (20mm)	+/-2mm	+/-3mm		38	X	14.1	13.1			0.15 (A Grade)		0.94	2.47	2615	
	Miramar	Sandblasted	52 (20mm)	+/-2mm	+/-3mm		59	P5			15.4	11.9	0.10 (A Grade)		1.11	2.90	2611	
Nettle	Heavily Distressed	55 (20mm)	+/-2mm	+/-3mm		28	P2					0.15 (A Grade)		0.94	2.47	2615		
Sabero	Bush Hammered	52 (20mm)	+/-2mm	+/-3mm				14.1	13.1			0.15 (A Grade)		0.94	2.47	2615		
Vardo	Antique Brushed	46 (20mm)	+/-2mm	+/-3mm		36	P3			9.8	5.8	2.0 (B Grade)		4.22	9.64	2290		
Winbourne	Heavily Distressed	56 (20mm)	+/-2mm	+/-3mm		41	P3					0.10 (A Grade)		1.11	2.90	2611		
Wyndam	Antique Brushed	47 (18mm)	+/-2mm	+/-3mm		39	P3			15.6	9.8	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