

## Civil Engineering & Construction Materials

### Concrete Sand



### Macka's Screened Sand

Macka's screened sand is extracted directly from our clean dune deposit and produced through a customised screening operation to ensure consistent ongoing quality and consistency essential for civil engineering construction.

Macka's Screened Sand				
Material Properties				
Method	Property		Specification	Comments
	Grading			
AS1141.11.1	Sieve (mm)	% Pass		
	1.18 mm	100		
	0.600 mm	100		
	0.425 mm	95		
	0.300 mm	50		
AS1141.12	0.150 mm	1		
AS1141.12	0.075mm	0.2		
AS1141.4	Bulk Density (Loose)	1.48 T/m <sup>3</sup>	>1.2 T/m <sup>3</sup>	Typical
	Bulk Density (Compacted)	1.61 T/m <sup>3</sup>	-	Typical
AS1141.5	Particle Density (SSD)	2.64 T/m <sup>3</sup>	>2.1 T/m <sup>3</sup> <3.2 T/m <sup>3</sup>	Typical
	Particle Density (DRY)	2.63 T/m <sup>3</sup>	-	Typical
	Water Absorption	0.2%	-	Very Low
ISSA Bulletin 1445	MBV Value	1	-	Very Low

Macka's Screened Sand				
Material Properties				
Method	Property		Specification	Comments
AS1141.31	Light Particles	0	< 1%	Extremely Low
AS1141.33	Clay & Fine Silt	2		Very Low
AS1141.34	Organic Impurities	Fail	If fails do AS1289.4.1.1 must be <0.5	Conduct AS1289.4.1.1
AS1289.4.1.1	Organic Matter	0.1	<0.5	Pass
AS1141.35	Sugar	Pass	Pass	Pass
AS1012.20	Chlorides	0.002%	< 0.0126%	Very Low
	Sulphates	<0.001%	<3%	Extremely Low
AS 1289.4.3.1 – 1997	pH	6.1	>5 for concrete	Very slightly Acidic
Petrographic Examination	Hard, Strong, and durable, Physically suitable for concrete sand and other applications	98% free silica		Potential for Mild / slow AAR- to be confirmed by testing
T363	AAR	0.025 @21days	<0.1 = Non-Reactive	No Action Required

*Please Note: The information provided in this product guide should be used as a guide only. For further details or for design and application support, please contact us.*

*Macka's Sand and Soil:*

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