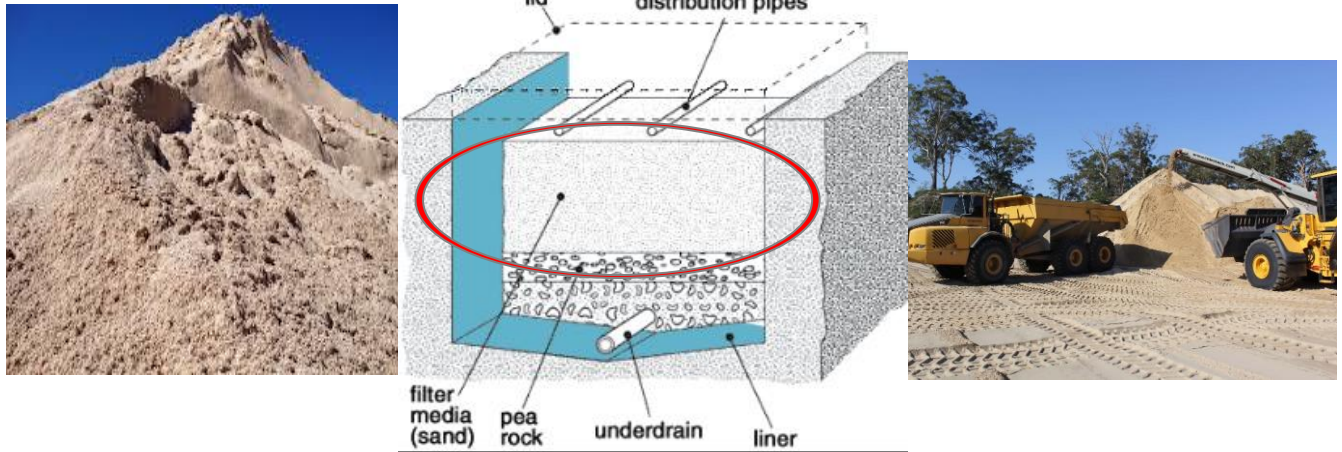


## Civil Engineering & Construction Materials

### Filter Sands



### Macka's Washed Sand:

Macka's washed sand is extracted directly from our clean dune deposit and produced through a customised screening operation, then washed to ensure consistent ongoing quality and consistency essential for filter sand applications.

Macka's Washed Sand – Filter Applications				
Material Properties				
Method	Property		Specification	Comments
	Grading / Detail	Result		
AS1141.11.1	Sieve (mm)	% Pass		Single sized grading predominantly retained on the 300um and 150um sieves.
	1.18 mm	100		
	0.6 mm	100		
	0.425 mm	94		
	0.3 mm	48		
	0.15 mm	1		
	0.075mm	0		
RMS T109	Plasticity Index (PI)	Non Plastic	$PI \leq 6$	
RMS 3580	Max Coefficient of Uniformity $D_{60}/D_{10}$	1.46	$< 1.5$	Due to single-size
AS1141.4	Bulk Density (Loose)	1.48 T/m <sup>3</sup>	$\leq 1.5$	Typical
	Bulk Density (Compacted)	1.61 T/m <sup>3</sup>		
AS1012.20	Chlorides	0.002%	$< 0.0126\%$	Very Low
	Sulphates	$< 0.001\%$	$< 3\%$	Extremely Low

Macka's Washed Sand – Filter Applications- Continued				
Material Properties				
Method	Property		Specification	Comments
	Detail	Result		
AS1141.33	Clay & Fine Silt	Nil	<2	Extremely Low
AS 1289.4.3.1 – 1997	pH	6.5	>5 for concrete	~Neutral =7
Petrographic Examination	Hard, Strong, and clean; Durable and Physically suitable for filter sand applications	94% free silica		

*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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