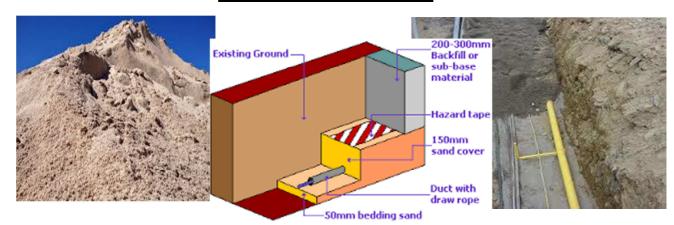


## **Civil Engineering & Construction Materials**

## **Electrical Trench Sand**



Note an example of electrical trench cabling only

## Macka's Screened Sand

Electrical cables in the ground need to be buried with sufficient depth to protect them from digging etc. and lay on a suitable bedding sand, covered by a suitable covering sand, with appropriate electrical and thermal resistivity to ensure protection for the cable overtime. This is important as moisture within the ground can change significantly with rising and falling water tables.

Electrical Trench Sand							
Material Properties							
Method	Property		Specification	Comments			
	Detail	Result					
	Sieve (mm)	% Pass					
AS1141.11.1	1.18 mm	100					
Grading	0.6 mm	100					
	0.425 mm	95					
	0.3 mm	50					
	0.15 mm	1					
AS1141.12	0.075mm	0.2	-	-			
AS1289.2.1.1	Moisture Content	14.0%	-	-			
AS1289.5.5.1	Max Min Density	70%	-	Compaction			
	Dry Density	1.70 t/m3	-	-			
ASTM 5334-08	Thermal Resistivity = 1 / Thermal Conductivity	0.680mC/W	<1.2mC/W	Wet Thermal Resistivity			
IEEE STD 442-198		1.11mC/W		Dry Thermal Resistivity			

Electrical Trench Sand							
Material Properties							
Method	Property	Specification	Comments				
	Detail	Specification					
AS1289.3.1.1, 3.1.2	Liquid Limit of Soil	Non-Plastic	<25%	Slippage in bowl			
AS1289.3.2.1, 3.3.1	Plastic Limit and Pl	PI = Nil	<6%	Non Plastic			

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.

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