

# Technical Data Sheet Amberley Sand Plant

## Concrete Aggregate

**Source Rock: Beach Sand**

Source Rock Characteristics	Test Method	Value
Crushing Resistance	NZS3111 Section 14	>400kN
Weathering Resistance	NZS3111 Section 15	AA-BA

### Coarse Aggregate (GR20 & GR13)

Test	Test Method	Value
Unit Mass Loose Poured - SSD*	NZS3111 Section 10	1545kg/m <sup>3</sup>
-voids		35% - 45%
Flakiness	AS1141.15	<25
Elongation	BS12.105.2	<25
Absorption	NZS3111 Section 12	<2%
Density -Dry		2590 Kg/m <sup>3</sup>
-SSD*		2630 Kg/m <sup>3</sup>

\* Saturated Surface Dry

### Concrete Sand

Test	Test Method	Value
Unit Mass Loose Poured - SSD*	NZS3111 Section 10	1670kg/m <sup>3</sup>
-voids		40%
Absorption	NZS3111 Section 16	<1.5%
Density -Dry		2600kg/m <sup>3</sup>
-SSD*		2640kg/m <sup>3</sup>

\* Saturated Surface Dry

### Coarse Aggregate

Product	Cleanliness Value	37.5mm	26.5mm	19.0mm	13.2mm	9.5mm	4.75mm
GR20mm	>85		100%	100% - 80%	30% - 5%	<5%	
GR13mm	>85			100%	90% - 70%	60% - 20%	<5%

### Fine aggregate

Product	Moisture Content	SE	4.75m m	2.36m m	1.18m m	0.6mm	0.3mm	0.15m m
Concrete Sand	< 10%	>80	100%	85%-65%	70%-50%	65%-40%	40%-20%	< 15%

All testing carried out at an IANZ accredited laboratory. Test results available upon request. All results correct at time of publication, July 2012.