

Technical Data Sheet Wiremu Road Quarry

Concrete Aggregate

Wiremu Road Quarry Source Rock: Andesite

Source Rock Characteristics	Test Method	Value
Crushing Resistance	NZS3111 Section 14	160kN to produce 10% Fines
Weathering Resistance	NZS3111 Section 15	AA

Coarse Aggregate

Test	Test Method	Value
Unit Mass Loose Poured - SSD*	NZS3111 Section 10	1340 Kg/m ³
Compacted -SSD*		1540 Kg/m ³
-voids		40-50%
Absorption	NZS3111 Section 12	5%
Density -Dry		2460 Kg/m ³
-SSD*		2580 Kg/m ³

* Saturated Surface Dry

Fine aggregate (PAP7)

Test	Test Method	Value
Unit Mass	NZS3111 Section 10	1400 Kg/m ³
-voids		40-50%%
Absorption	NZS3111 Section 16	4%
Density -Dry		2510 Kg/m ³
-SSD*		2600 Kg/m ³

* Saturated Surface Dry

Coarse Aggregate

Product	Cleanliness Value	26.5mm	19.0mm	13.2mm	9.5mm	4.75mm
CA20-10	>85	100 - 90%	100 - 70%	40 - 10%	10- 0%	0%
CA14-5	>85		100%	100% - 80%	75% - 40%	< 10%

Fine aggregate

Product	Moisture Content	SE	6.7mm	4.75m m	2.36m m	1.18m m	0.6mm	0.3mm	0.15m m	0.075 mm
AP7 Dry	< 10%	> 60	100%	100% - 90%	100% - 70%	85% - 50%	60% - 20%	35% - 5%	<15%	< 10%

Asphalt Aggregate

Wiremu Quarry Source Rock: Andesite

Source Rock Characteristics	Test Method	Value
Crushing Resistance	NZS4407:1991 test 3.10	10% - 180kN (%fines passing 1.70mm)
Weathering Resistance	NZS 4407:1991 test 3.11	AA
Polished Stone Value	BS EN 1097-8:2009	>53
Weak Particles	AS1141.32:1995	<1%

Coarse Aggregates (TNZ M/6)

Product	CV	ALD	% within 2.5.. ALD
Grade 2	> 89	9.5–12.0mm	> 65
Grade 3	> 87	8.5 – 10.0mm	> 70
Grade 4	> 85	6.0 – 7.0mm	> 75

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