

## QUARRY AGGREGATE DATA SHEET

### Basic Information

<b>Quarry Location</b>	Drury, South Auckland
<b>Type of Rock</b>	Greywacke
<b>Type of Aggregate</b>	<b>DQ 40 (GAP 40)</b>
<b>Type of Processing</b>	Scalping



Quality  
ISO 9001



### Technical Information

	Property	Standard	Test Method	Typical Value
<b>Source</b>	Crushing Resistance	NZS 3111 : 1986	Test 14	10% fines @ 260kN
	Solid Density	NZS 4407 : 2015	Test 3.7.1	2.72t/m <sup>3</sup>
	Weathering Quality Index	NZS 4407 : 2015	Test 3.11	>BB
<b>Production</b>	Grading	NZS 4407 : 2015	Tests 3.8.1	See overleaf
	Plasticity Index	NZS 4407 : 2015	Tests 3.2, 3.3 & 3.4	7 to 14
	Sand Equivalent	NZS 4407 : 2015	Test 3.6	>25
	Clay Index	NZS 4407 : 2015	Test 3.5	<4.0
<b>Other</b>	CBR (soaked)	NZS 4407 : 2015	Test 3.15	>125
	MDD – NZ Vib Hammer	NZS 4402 : 1986	Test 4.1.3	2.14 t/m <sup>3</sup> @ 6% OWC
	MDD – Hvy Compaction		Test 4.1.2	2.08 t/m <sup>3</sup> @ 11% OWC
	MDD – Std Compaction		Test 4.1.1	1.94 t/m <sup>3</sup> @ 13% OWC
Loose Unit Weight <sup>i</sup>	ASTM C29/29M-97	Shovelling procedure	M <sub>Dry</sub> ≅ 1548 kg/m <sup>3</sup> M <sub>SSD</sub> ≅ 1562 kg/m <sup>3</sup>	

### Standard Applications

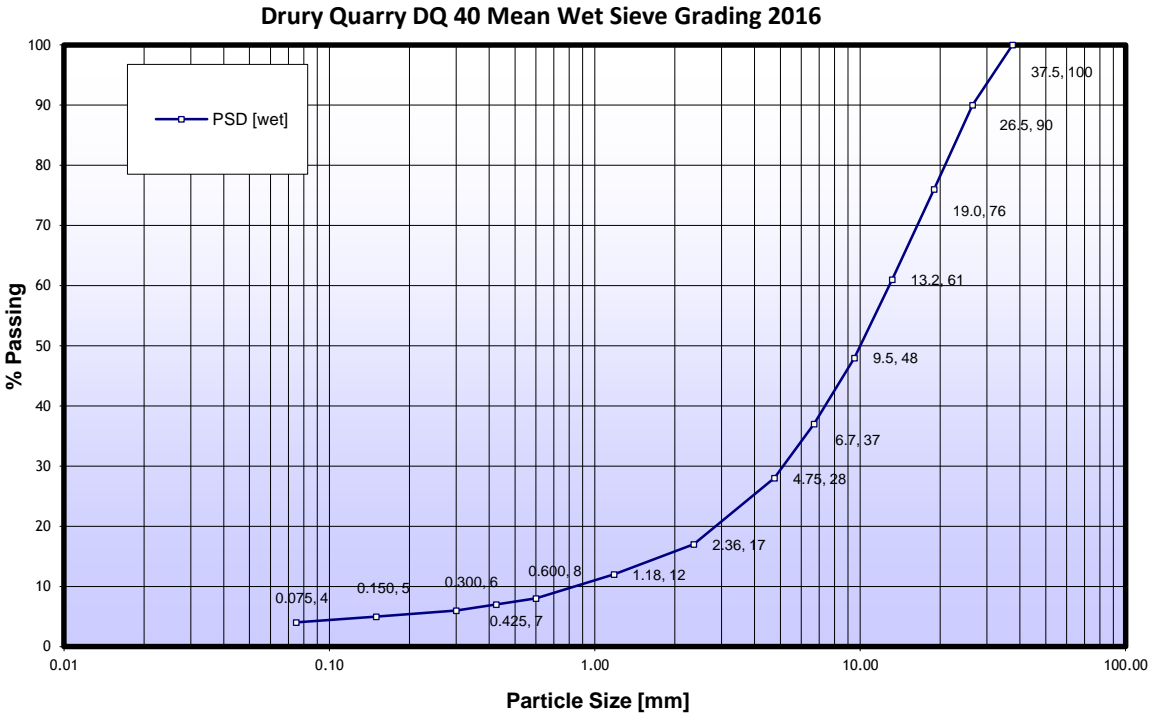
<b>Roading</b>	Hard-fill, Free Draining Fill, Subgrade Improvement, Subbasecourse.
<b>Farming &amp; Industry</b>	Permanent & Temporary Roads and Platform Surfaces.
<b>Civil Construction</b>	Trench Bedding and Backfill, Paving Basecourse.

## Chemical Treatment

DQ 40 responds well to lime and cement modification.

## General Description

DQ 40 is a robust, general-purpose quarry aggregate. It is open-graded and has a high permeability rate. Conversely, it requires an increased compaction effort in the process of construction. DQ 40 has been widely used for many years in the Greater Auckland Region, mainly due to its quality and affordability.



## Disclaimer

The information in this leaflet is informal and it can be altered without notice. Due to the inherent variability of the parent rock, this aggregate must be subjected on each particular occasion to necessary testing and verification of the above outlined properties.

<sup>i</sup> The relationship between degrees of compaction/density for aggregates loose in a truck or stockpile compared to that achieved in this test is unknown. Moreover, surface water content in aggregates varies pending the season and it is not accounted for in this test.