

Mt Marrow Blue Metal Quarries
Standard Specifications

AS = Australian Standard

QDMR = Queensland Department of Main Roads

QR = Queensland Rail

Q-Rail A Ballast	
Sieve (mm)	% Passing
63	100
53	95-100
37.5	35-70
26.5	0-15
9.5	0-5
0.075	0-1
M/Shapen (3:1)	10
Crushed Particles	>80
Bulk Density (SSD) t/m³	2.7
Water Absorption (%)	2
Wet Strength (kN)	175/150/130
Wet/Dry Variation (%)	30
Degradation Factor	50/45/35

AS Concrete 20mm	
Sieve (mm)	% Passing
26.5	100
19	85-100
9.5	0-20
4.75	0-5
0.075	0-2
M/Shapen (3:1)	10
FI	35

Q-Rail B Ballast	
Sieve (mm)	% Passing
53	100
37.5	95-100
26.5	20-55

19	0-15
9.5	0-5
0.075	0-1
M/Shapen (3:1)	10
Crushed Particles	>80
Bulk Density (SSD) t/m³	2.7
Water Absorption (%)	2
Wet Strength (kN)	175/150/130
Wet/Dry Variation (%)	30
Degradation Factor	50/45/35

AS Concrete 5mm	
Sieve (mm)	% Passing
6.7	100
4.75	85-100
2.36	0-20
0.075	0-5

QDMR 20mm Precoat	
Sieve (mm)	% Passing
26.5	100
19	85-100
13.2	0-20
9.5	0-5
2.36	0-1
FI	30
10% Wet	175
Wet/dry Variation	30
Weak Particles	1
Crushed Particles	>80

AS Concrete 7mm	
Sieve (mm)	% Passing
9.5	100
6.7	85-100
2.36	0-20
0.075	0-2

QDMR 16mm Precoat	
Sieve (mm)	% Passing
19	100
16	85-100
13.2	0-60

9.5	0-15
2.36	0-1
FI	30
10% Wet	175
Wet/dry Variation	30
Weak Particles	1
Crushed Particles	>80

QDMR 14mm Precoat	
Sieve (mm)	% Passing
19	100
13.2	85-100
9.5	0-30
6.7	0-5
2.36	0-1
FI	30
10% Wet	175
Wet/dry Variation	30
Weak Particles	1
Crushed Particles	>80

QDMR 7mm Precoat	
Sieve (mm)	% Passing
9.5	100
6.7	85-100
4.75	0-30
2.36	0-10
1.18	0-5
FI	30
10% Wet	175
Wet/Dry Variation	30
Weak Particles	1
Crushed Particles	>80

QDMR 10mm Precoat	
Sieve (mm)	% Passing
13.2	100
9.5	85-100

6.7	0-30
2.36	0-1
FI	30
10% Wet	175
Wet/dry Variation	30
Weak Particles	1
Crushed Particles	>80

QDMR 5mm Precoat	
Sieve (mm)	% Passing
6.7	100
4.75	85-100
2.36	0-30
1.18	0-5
FI	30
10% Wet	175
Wet/Dry Variation	30
Weak Particles	1
Crushed Particles	>80

QDMR Type 1 Roadbase	
Sieve (mm)	% Passing
37.5	100
26.5	85-100
19	75-100
9.5	58-80
4.75	45-62
2.36	33-45
0.425	14-22
0.075	5-10
Fines Ratio	.3 - .55
LL	25/28
PI	4/6
LS	2.5/3.5
FI	35
10% Wet	150/110
Wet/dry Variation	30/35
Wash Deg	50/40
Crushed Particles	>70

QDMR Type 2 Roadbase	
Sieve (mm)	% Passing
37.5	100
19	80-100
9.5	55-90

4.75	40-70
2.36	30-55
0.425	12-30
0.075	5-20
Fines Ratio	.3-.55/.3-.65
LL	25/28/35/40
PI	6/8/12/14
LS	3.5/4.5/6.5/7.5
FI	35/40
10% Wet	135/115/100/85
Wet/dry Variation	30/35
Wash Deg	50/40
CBR (Skd)	80/60/45/35/15