



Stone Aggregate



Crushed stone for concrete, crusher run and road surface

PANDA

Stone aggregate

Aggregate grading for concrete

Property	Requirements							
Grading limits, % (m/m) passing sieve size, mm	Nominal aggregate size mm							
	75,0	53,0	37,5	26,5	19,0	13,2	9,5	6,7
75,0	100	100	-	-	-	-	-	-
53,0	0-50	85-100	100	-	-	-	-	-
37,5	0-25	0-50	85-100	100	-	-	-	-
26,5	0-5	0-25	0-50	85-100	100	-	-	-
19,0	-	0-5	0-25	0-50	85-100	100	-	-
13,2	-	-	0-5	0-25	0-50	85-100	100	-
9,5	-	-	-	0-5	0-25	0-55	85-100	100
6,7	-	-	-	-	0-5	0-25	0-55	85-100
4,75	-	-	-	-	-	0-5	0-25	0-55
2,36	-	-	-	-	-	-	0-5	0-25
1,18	-	-	-	-	-	-	-	0-5
Dust content** % (m/m), max	2,0							
Flakiness index, % max	35							
10% FACT, kN/min	110 for aggregates used in concrete subject to surface abrasion, and for structural elements of reinforced concrete and prestressed concrete 70 for aggregates used in concrete not subject to surface abrasion							

Aggregate grading for crusher run (G1 & G3) materials

Property	Requirements	
Grading limits, % (m/m) passing sieve size, mm	37,5 mm G1 - G3	26,5 mm G3
53,0	-	-
37,5	100	-
26,5	84-94	100
19,0	71-84	85-95
13,2	59-75	71-84
4,75	36-53	42-60
2,00	23-40	27-45
0,425	11-24	13-27
0,075	4-12	5-12

Manufacturing Plants:

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email: sales@panda.co.bw
P/Bag F36, Farm NQ 26
Monarch, Francistown
GPS: 21°07'11"S, 27°29'53"E

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P/Bag 115, Plot 20605,
Broadhursts Industrial, Gaborone
GPS: 24°37'04"S, 25°55'11"E

Aggregate grading for road surfacing

Property	Requirements							
Grading limits, % (m/m) passing sieve size, mm	Grade	Nominal aggregate size mm						
		26,5	19,0	13,2	9,5	6,7	4,75	2,36
37,50	Grades 1 and 2	100	-	-	-	-	-	-
26,50		85-100	100	-	-	-	-	-
19,00		0-30	85-100	100	-	-	-	-
13,20		0-5	0-30	85-100	100	-	-	-
9,50		-	0-5	0-30*	85-100	100	-	-
6,50		-	-	0-5**	0-30*	85-100	100	-
4,75		-	-	-	0-5**	0-30*	85-100	100
3,35		-	-	-	-	0-5**	0-30	-
2,36		-	-	-	-	-	0-5	0-100
	Grade 3	Grading shall comply with the requirements for grades 1 and 2 with the following exceptions: * 0-50 ** 0-10						
Fines content:	Grade 1	0,5	0,5	0,5	0,5	0,5	1,0	15,0
Material passing a 0,425 mm sieve (max)	Grade 2	1,5	1,5	1,5	1,5	2,0	2,5	15,0
	Grade 3	N/A	N/A	2,0	2,0	3,0	3,0	15,0
Dust content:	Grade 1	N/A	N/A	N/A	N/A	N/A	N/A	2,0
Material passing a 0,075 mm (max)	Grade 2	0,5	0,5	0,5	0,5	1,0	1,0	2,0
	Grade 3	N/A	N/A	1,5	1,5	1,5	1,5	2,0

Hardness:

Panda Quarry 10% FACT, wet 240—dry 310. The 10% FACT value (dry) must be at least 210kN. The net dry ratio should be at least 75%.

Polished stone value:

Panda Quarry is 54-56. The polished stone value (PSV) should be at least 50 unless otherwise specified or approved by the engineer.

Shape:

Panda Quarry flakiness 15%. The maximum flakiness is 25%.



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