

GRADING OF GRADED CRUSHED STONE

	NOMINAL APERTURE SIZE OF SIEVE (mm)	G1	G2	G3		G4			G5
		PERCENTAGE PASSING SIEVE BY MASS	PERCENTAGE PASSING SIEVE BY MASS	PERCENTAGE PASSING SIEVE BY MASS		PERCENTAGE PASSING SIEVE BY MASS			
		37.5mm	37.5mm	37.5mm	26.5mm	37.5mm	26.5mm	UNCRUSHED	
GRADING	53.0							100	The percentage by mass passing the 2.00mm sieve shall not be less than 20% nor more than 70%
	37.5	100	100	100		100		85 - 100	
	26.5	84 - 94	84 - 94	84 - 94	100	84 - 94	100	-	
	19.0	71 - 84	71 - 84	71 - 84	85 - 95	71 - 84	85 - 95	60 - 90	
	13.2	59 - 75	59 - 75	59 - 75	71 - 84	59 - 75	71 - 84	-	
	4.75	36 - 53	36 - 53	36 - 53	42 - 60	36 - 53	42 - 60	30 - 65	
	2.00	23 - 40	23 - 40	23 - 40	27 - 45	23 - 40	27 - 45	20 - 50	
	0.425	11 - 24	11 - 24	11 - 24	13 - 27	11 - 24	13 - 27	10 - 30	
	0.075	4 - 12	4 - 12	4 - 12	5 - 12	4 - 12	5 - 12	5 - 15	

10% FINES AGGREGATE CRUSHING VALUES (Table 3602/2)

Rock Type	Matrix	Dry (min.)	Wet (min.)	Wet / Dry (min.)
Arenaceous rocks	Non-siliceous cementing material	140kN		75%
	Siliceous cementing material	110kN		75%
Diamictites (tillites)		200kN		70%
Argillaceous rocks		180kN	125kN	-
Other rock types		110kN		75%

DURABILITY REQUIREMENTS FOR G4 MATERIAL (Table 3402/3)

GROUP	MEMBERS OF GROUP	DURABILITY MILL INDEX (MAX.)	% PASSING 0.425mm SIEVE AFTER DURABILITY MILL TEST (MAX.)
Basic crystalline rock	Basalt Dolerite Gabbro	125	35
Acid crustaline rock	Gneiss Granite	420	35
High silica rock	Chert Hornfels Quartzite	420 (clay mineral kaolin)	35
Sandstone	Arkose Conglomerate Sandstone Siltstone	125	35 (increase from original not more than 15%)
Mudrock	Mudrock Phyllite Shale etc	125	35
Carbonate rock	Dolomite Limestone Marble	not applicable	not applicable
Diamictities	Greywacke Tillite	125	35
Pedogenic material	Calcrete Ferricrete Silcrete	480	40

AGGREGATE CRUSHING VALUE (Table 3602/3)

Rock Type	ACV, max.
Arenaceous: without siliceous cementing matrix	27%
Arenaceous: with siliceous cementing matrix	29%
Diamictites (tillites)	21%
Argillaceous rocks	24%
Other rock types	29%

for more detailed information and interpretations see latest COLTO

