

RMR CLASSIFICATION PARAMETERS AND THEIR RATINGS

Parameter		Range of values							
1	Strength of intact rock material (MPa)	ISRM description	chipped with hammer	Fractured > n blow of hammer	Fractured > 1 blow of hammer	Fractured 1 blow of hammer	Peeled by knife hard	Peeled by knife	Indented by thumbnail
		Point-load	> 10	10 - 4	4 - 2	2 - 1	NA	NA	NA
	UCS	> 250	250 - 100	100 - 50	50 - 25	25 - 5	5 - 1	< 1 MPa	
Rating		15	12	7	4	2	1	0	

2	RQD(%)	100 - 90	90 - 75	75 - 50	50 - 25	< 25
	Rating	20	17	13	8	3

3	Spacing of joints	> 200 cm	200 - 60 cm	60 - 20 cm	20 - 6 cm	< 6 cm
	Rating	20	15	10	8	5

4	Condition of joints	Persistence	< 1 m	1 - 3 m	3 - 10 m	10 - 20 m	> 20 m
		Rating	6	4	2	1	0
		Aperture	None	< 0.1 mm	0.1 - 1 mm	1 - 5 mm	> 5 mm
		Rating	6	5	4	1	0
	Roughness	Very rough	Rough	Slightly rough	Smooth	Slickensided	
	Rating	6	5	3	1	0	
	Infilling	None	Hard filling < 5mm	Hard filling > 5mm	Soft filling < 5mm	Soft filling > 5mm	
	Rating	6	4	2	2	0	
Weathering	Unweathered	Slightly weathered	Moderately weathered	Highly weathered	Decomposed		
Rating	6	5	3	1	0		

5	Ground water	Completely dry	Damp	Wet	Dripping	Flowing
	Rating	15	10	7	4	0

RMR = () + () + () + () + () = ()