

REPORT OF COMPRESSION TEST ON CONCRETE CUBES

FOR EQUIVALENT CUBE STRENGTH COMPARISON IN MPA (N/mm²) WITH BREAKING LOAD

Source of sample	:	Sample supplied by the customer
Grade of concrete	:	M30, M50
Condition of samples	:	Satisfactory
Test Method	:	IS: 516 -1959 (Reaffirmed 2008), IS : 9013 – 1978

COMPRESSIVE STRENGTH OF 150 mm CUBE SPECIMEN

SI.No Dimension of SI.No Specimen (mm)	Cross Sectional	M	130	M50		
		Area (mm ²)	Failure Load (KN)	Comp. Strength (N/mm ²)	Failure Load (KN)	Comp. Strength (N/mm ²)
1	2 150x150x150	22500	824.85	36.66	1305.90	58.04
2		22500	882.23	39.21	1389.60	61.76
3		22500	876.15	38.94	1310.18	57.83

COMPRESSIVE STRENGTH OF 50 mm SPECIMEN

SI.No Specimen (mm)	Dimension of	Cross Sectional	Μ	30	M50	
		Area (mm ²)	Failure Load (KN)	Comp. Strength (N/mm ²)	Failure Load (KN)	Comp. Strength (N/mm ²)
1		2500	93.95	37.58	148.6	59.44
2	50x50x50	2500	95.7	38.27	154.6	61.86
3	3	2500	97.4	38.96	148.8	59.53



COMPRESSIVE STRENGTH OF CONCRETE CUBES

	150 mm Cub	e Specimen	50 mm Specimen		
Grade of Concrete	28 Days Compressive Strength (N/mm ²)	Breaking Load (kN)	28 Days Compressive Strength (N/mm ²)	Breaking Load (kN)	
M30	38.27	861.08	38.27	95.68	
M50	59.21	1332.23	60.27	150.66	

Note 1:Average strength at 7 days for M30 is 29.46N/mm² and Breaking Load is 662.85 kNAverage strength at 7 days for M50 is 40.58N/mm² and Breaking Load is 913.05 kN

Note 2:

1. The results relate only to the samples tested.

2. Report shall not be reproduced, except in full, without the written approval of the lab.

3. Any correction invalidates this report.