

THUMB RULES IN CIVIL ENGINEERING

TYPE	THUMB RULE
CONSTRUCTION MATERIALS	
CONCRETE MIX RATIO	1:2:4
NUMBER OF BRICKS PER CUBIC METRE	500
QUANTITY OF STEEL PER CUBIC METRE	0.15
WATER CEMENT RATIO	0.45 (NORMAL CONCRETE), 0.30 (HIGH STRENGTH CONCRETE)
STEEL TYPICAL DESIGN	
BEAM AND SLAB DEPTH IN FEET	100 TO 150
COLUMN DESIGN DIMENSION	MINIMUM 9 INCHES, MAXIMUM 24 INCHES
FOOTING SIZE AND DEPTH	SHALLOW DEPTH > 10 x B BREADTH, DEEP DEPTH > 2 x B BREADTH
CARTONAGE AND DELIVERY TIME	
DELIVERY RATE PER HOUR	2.50 (CUBIC METRE PER HOUR)
PLUMBING AND DRAINAGE	
VOLUME OF CARTONAGE PER EXCAVATED AREA	0.25 (CUBIC METRE PER M ²)
SLOPE FOR DRAINAGE PIPES	HORIZONTAL AND VERTICAL 1:100
ROOF TRUSS SIZE CALCULATION	100 LITRES PER BEDROOM
ROAD CONSTRUCTION	
ROAD GRADIENT CALCULATION	FLAT TERRAIN 100 METRE, HILLS AREAS 100 OR STEEPER
ROADWAY THICKNESS	LIGHT TRAFFIC 150 MM, HEAVY TRAFFIC UP TO 200 MM
REINFORCEMENT IN CONCRETE	
PERCENTAGE OF REINFORCEMENT	BEAMS AND COLUMNS 1% OF CROSS SECTIONAL AREA
LAP LENGTH FOR REINFORCEMENT	40 TIMES THE DIAMETER OF THE BAR USED IN ALL STRUCTURES
ESTIMATION AND COSTING	
RATE OF CONSTRUCTION MATERIAL	500-600 PER SQUARE METRE
BUILDING CONSTRUCTION COST ESTIMATION	BUILT UP AREA x AVERAGE COST PER SQUARE METRE



Civil Engineering Thumb Rules In Building Construction

L Reisser



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