

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), 0.40 (HIGH STRENGTH CONCRETE)
STEEL TYPICAL DESIGN	
BEAM AND SLAB DEPTH AS PER	1% TO 1.5%
COLUMN DESIGN DIMENSION	MINIMUM 3 TIMES, MAXIMUM 24 METRES
FOOTING SIZE AND DEPTH	SHALLOW DEPTH > 1/3 X BREADTH, DEEP DEPTH > 2/3 X BREADTH
CARTONAGE AND DELIVERY	
DELIVERY RATE PER HOUR	2.50 (CUBIC METRES PER HOUR)
PLUMBING AND DRAINAGE	
VOLUME OF CARTONAGE FOR EXCAVATED AREA	EXCAVATED FACTOR X 1.50
SLOPE FOR DRAINAGE HOLES	HORIZONTAL AND VERTICAL 1:80
ROOF TRUSS SIZE CALCULATION	100 LITRES PER BEDROOM
ROAD CONSTRUCTION	
ROAD GRADIENT CALCULATION	PLAIN TERRAIN 1% TO 1.5% GRADE, 1% TO 3% 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



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**Thirumalaisamy P.
Velavancorresponding**



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Civil Engineering Thumb Rules In Building Construction Pdf Book Review: Unveiling the Power of Words

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