

Engineering Information

Recommended Mixes for Various Types of Construction

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RECOMMENDED MIXES FOR VARIOUS TYPES OF CONSTRUCTION				
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Nature of Work	Mixture Recommended Vol. proportion	Maximum size of aggregate to use	Water in gallons per bag of C.	Best Consistency
Long Span R.C. Arches High Load R.C. Columns	1:1:2	1/2" to 3/4"	3.5 to 4.0	Medium
Heavily stressed members of structures, small precast work such as posts and poles for Fencing, Telegraphs, Signals, Garden, furniture and decoratives and other work of very thin sections, watertight constructions for high heads, long piles	1:2:2	1/2" to 3/4"	4.5 to 5.0	Medium or soft
R.C. Columns and members subjected to medium loads, wall and floors of reservoir and tanks, cisterns, sewers, well kerbs and plat forms and other watertight constructions, for moderate heads, non-surfaced roof slabs, concrete deposited under water.	1:3:2 to 1:2:2:4	3/4"	5.5	Medium

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General R.C. Building work subjected to ordinary stressed such as beams, slabs columns, panel walls basement and retaining, walls, stairs, lintels, sills, roads, pavements, driveways, side walls, floors steps, bankers and soils, bridge construction dams and piers etc. exposed to action of water and frost, machine foundations subjected to vibrations, R.C. footing, R.C. piles.	1:2:4	1/2" to 1 1/2" as required	6.0 to 6 1/2	Stiff for Roads Medium for others
Mass concrete work in coverts, retaining walls, compound walls and ordinary machine bases, foundation walls which need not be water-tight.	1:3:5	1" to 2"	7.5	Stiff or Medium
Mass concrete for heavy walls foundations under column footings and under heavy duty floors, concrete blocks, hollow block construction (1/2" AGG.)	1:4:8	1 1/2" to 2 1/2"	10.0 to 10.5	Medium

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