## **Engineering Information**

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China Turte State ( State ) HI HA HI PRINT SI P Material Required for Plastering 100SQ.FT. Of Surface with Varying Thickness of Mortar C=cement in bags (based on loose cement weighting 9292 1bs.per cu.sf) F.A.=fine aggregate(sand) in cu.ft.in dry state

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## **OUANTITIES OF MATERIALS REQUIRED FOR** MORTAR AND CONCRETE

MORTAR

1. Cu. ft. of Loose Portland Cement plus 0.36 Cu. Ft. (=2.25 gallons) of water gives 0.835 cu. ft of neat Cement Mortar. 1. Cu. ft. Loose Cement will cover approximately 10. Sq. ft. 1" Thick mixed Neat

17. Sq. Ft. 1" Thick mixed with 1 c. ft. of sand. 25. Sq. Ft. 1" Thick mixed with 2 c. ft. of sand.

34. Sq. Ft. 1" Thick mixed with 3 c. ft. of sand.

For Plastering on rick work one cu. ft. extra mortar per 100 sq. ft. is required to fill the insegualities and joints,

For back work masonry about 30 cu. ft. cement mortar is required per 100 cu, ft. of masonary with 1 /4" to 3/8 joints including wastage

For rubble masonry about 50 cu. ft: cement mortar is required per 100 cu. ft. of masonry, including wastage.

## CONCRETE

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1. Cu. ft. of Loose Portland Cement mixed with sand (80% voids) and broken stone ballast (45% voids) will give unmixed with water about: 3.9 Cu. Ft. Solid Dry Concrete if mixed 1:2:4: 4.7 Cu. Ft. Solid Dry Concrete if mixed 1:2 1/2:5 5.6 Cu. Ft. Solid Dry Concrete if mixed 1:3:6 7.5 Cu. Ft. Solid Dry Concrete if mixed 1:4:8 The Finel Yeild can be calculated by adding to these figures specified Volume of water

in state			d on loos gregate (S	Sand) in	cu. ft. i	in dry st	ate	= 45				Schla	10
ix. :	c 1	:1 did g	1:1	1/2	1:	243	9.30	1/2					1
kness	C.	F.A	C.	F.A	C.	F.A	C.	EA					1
8"	1.8	2.2	1.5	2.6	1.3	2.9	1.0	3.1					19/
2"	2.4	2.9	1.9	3.5	1.7	3.9	1.4	4.2					
4"	3.6	4.3	2.9	5.3	2.5	5.9	2.1	6.3					
1"3.6	\$4.8	5.8	3.9	7.0	3.3	7.8 9.8	2.8 3.5	8.4 10.4					
4" 8	6.0 7.2	7.2	4.8 5.8	8.8 10.5	4.1 4.9	9.8	4.2	10.4					
2"	9.6	0.7	7.8	10.5	6.6	11.8	5.6	16.7					
0.0	5.0	11.0	1.0	6.5.5	82.9	1.99	07	-3.3.1.					
x. : 4	1 .D 2	21:	0.091:1	1/2	1.8.81	:2 3 A	1:1	1/2					
kness	C.	EA	C.4	EA	C.	EA	C.	EA					
kness 8"	0.9	3.3	9.7	3.4	0.5	3.0	0.4	3.8					
/2"	1.2	4.4	1.0	4.6	6.7	4.9	0.5	5.1					
2 <u>8</u> 4" T	1.2	6.6	0.1.4	6.9	1.0	7.4	0.8	7.7					
1"	2.4	8.8	1.4	9.2	1.4	9.8	1.1	10.2					
/4"	3.0	11.0	2.3	11.5	1.7	12.3	1.3	12.7					
/2"	3.6	13.1	20	12.8	20	14.8	16	15.3					
2" 8	4.8	17.5	3.8	18.3	2.7	19.7	2.1	20.4					
allowan	ce mad	e in tabl	e for was	tage.	34.4.0	34. A.	SEAL						
					1	47	26					20	5.7
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**Engineering Information** 



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