

CONCRETE MIX DESIGN SUBMISSION REPORT

Serial No. ****

CONTRACTOR : *****

GRADE OF CONCRETE : 25 OPC
 SPECIFIED STRENGTH : 25 N/mm² @ 28 DAYS
 PROPORTION DEFECTIVES : 1.64 : (5 %) STD
 TYPE OF CEMENT : OPC/SRPC/RHPC : TYPE I
 TYPE OF FINE AGGREGATE : WASHED SAND
 S/G OF F. AGG (SSD) : 2.60 ABSORPTION
 TYPE OF COARSE AGGREGATE : IMPORTED STONE
 S/G OF C. AGG (SSD) : 2.64 ABSORPTION
 TYPE OF ADMIXTURE : P 300R + R 800
 SLUMP REQUIRE : 100 ± 20 mm
 ESTIMATED WATER/ CEMENT RATIO REQUIRE TO
 ESTIMATED FINE AGGREGATE TO TOTAL

PROJECT: *****

TYPE OF STRUCTURE : STRUCTURAL CONCRETE
 DESIGN STRENGTH: 33 N/mm² @ : 28 DAYS
 DEVIATION : 5 N/mm² MARGIN : 8 N/mm²
 SOURCE : BHC S/G : 3.15
 ZONE : MEDIUM F.M. :
 - % SOURCE : SG. PAKU
 CRUSHED/ UNCRUSHED MAX SIZE : 20mm
 - % SOURCE : *****
 DOSAGE : 300cc/100kg + 400cc/100kg (WT/VOL)
 ESTIMATED WATER REQUIRE : 150 kg/m³
 ACHIEVE DESIGN STRENGTH : 54 %
 AGGREGATE (S/A) : 34 %

MATERIALS	WEIGHT Kg/m ³	CONVERSION FROM WEIGHT TO VOLUME	SOLID VOLUME PER 1000 LITRES
WATER	150	150 + 1	150.00
WATER CEMENT : ----- W/C	275	275 + 3.15	87.30
ESTIMATED ENTRAPPED AIR <u>1.5</u> %	-	0.015 × 1000	15.00
MORTAR CONTENT	425		252.30 (A)
TOTAL AGG : 1000-A			747.70
F. AGG: B × S/G	660	TOTAL AGG × S/A	254.22 (B)
C. AGG: C × S/G	1302	1000 - (A + B)	493.48 (C)
TOTAL	2387		1000.00

MIX PROPORTION PER CUBIC METER (*TO THE NEAREST 5KG)

W/C %	S/A %	CEMENT	WATER	F. AGGREGATE	C. AGGREGATE	ADMIXTURE
54	34	275kg	150 lit	660kg	1300kg	P300R – 825 ml R800 – 1100ml

MIX PROPORTIONS: 1:2.4:4.73 AGGREGATE/ CEMENT RATIO: 7.13:1

REMARKS: _____

NOTE: 1 N/mm² = 1MN/m² = 1 MPA
 1 INCH = 2.54 cm



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