

MIX DESIGN NAME: CONCRETE INVERT
MIX SPECIFICATIONS

Design Strength: 8000 psi @ 28 days

w/cm: 0.40

Air: 6 +/- 1.5 %

Desired Yield: 27.00 cu ft/yd

Batch Size: 27.00 cu ft

MATERIAL	SUPPLIER	PRODUCT	SSD WT lb (lb)	FREE MOISTURE WT (lb)	BATCH WET WT (lb)
Cement:	ESSROC	Type I	505		505
Pozzolan 1:					
Pozzolan 2:	HOLCIM	GGBFS Grade 100	170		170
Water:	Well	Well	271		271
Coarse aggregate:	Coarse Agg	#57	1750		1750
Other aggregate:	Other Agg.	#8			
Fine aggregate:	ASI	Concrete Sand	1228		1228
Design Air			6.0%		6.0%
TOTAL			3924		3924

ADMIXTURES	SUPPLIER	PRODUCT	oz/cwt	lb/yd
Admix 1:	Axlm	CATEXOL AE 360	0.4	2.7
Admix 2:	Axlm	CATEXOL 3000 GP	4.0	27.0
Admix 3:	Axim	ALLEGRO 122	7.0	47.3
Admix 4:	Axlm	CATEXOL CN-CI	41.0	256.3

NOTE FOR INCREASE SLUMP USE ALLEGRO 122 AT A DOSAGE RATE OF 44oz/lb per yard or what is required TO ACHIEVE THE DESIRED SLUMP. THIS IS TO BE ADDED ON THE JOB SITE.

Gradation Analysis, Specific Gravity & Absorption

Description Of Material:

Concrete Sand

Source:

ACTION SUPPLY INC

Sample Location:

Stockpile

Sampled By:

Fred Schwlars

Date Sampled:

SEPTEMBER 30,2011

Date Tested:

SEPTEMBER 30,2011

Sieve Size	Gradation & Laboratory Analysis Percent Passing	ASTM C33
3/8"	100	100
# 4	96	95 - 100
# 8	85	80 - 100
# 16	79	50 - 85
# 30	61	25 - 60
# 50	18	10 - 30
# 100	8	2 - 10
FM	2.65	2.3 - 3.1

Specific Gravity: 2.65

Percent Absorption: 1.60%

Respectfully Submitted,

COURSE AGGREGATES:

Rohrer's Quarries # 57

SPECIFIC GRAVITY:

2.79

UNIT WEIGHT / CUBIC FOOT:

92

PERCENT VOIDS

51

ABSORPTION:

0.4

SOUNDNESS: (5 cycle)

1

ASTM C-33

SIEVE SIZE	PERCENT PASSING	PERCENT PASSING
1 1/2	100	100
1"	99	100
3/4 "	94	90 - 100
1/2 "	58.4	-----
3/8 "	30	20 -55
#4	6	0-10
# 8	3.25	0-5