

Aggregate Optimization Chart

MIX ID'S: DDP154E7 and DDP154E8

Production Gradation Report

PLANT #: **P-102**

Sample Date: 10/2/17

Concrete Grade: **P1M**

Contractor: _____

Dates Test Represents: 10/2/2017 to 10/8/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	Stoneco	1370	8.16	2.69	43.5
IA	58-003	Stoneco	550	3.28	2.69	17.5
2NS	63-114	AA Highland	1230	7.44	2.65	39.0
Total Wt			3150	18.88		100.0

<----- Verify this number is 100%



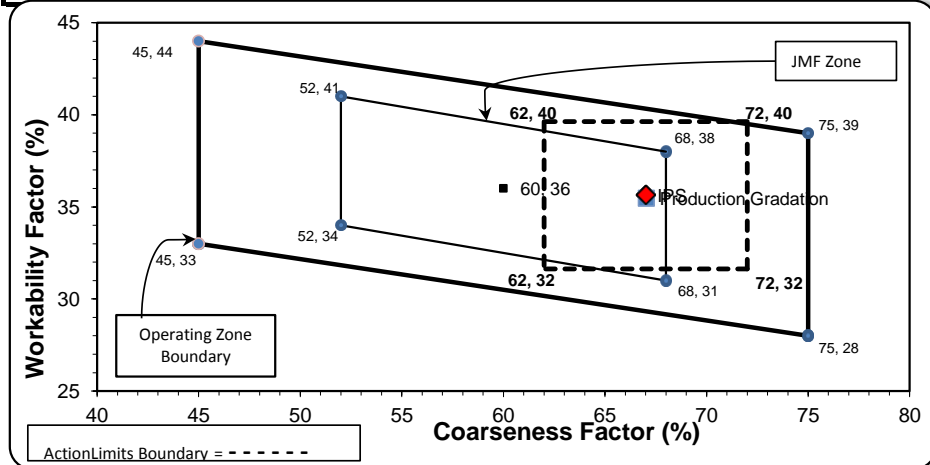
Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	67.6	100.0	100.0	85.9	14.1	14.1
3/4"	39.6	100.0	100.0	73.7	12.2	26.3
1/2"	13.2	95.0	100.0	61.4	12.4	38.6
3/8"	7.2	83.4	100.0	56.7	4.6	43.3
#4	2.7	24.2	99.8	44.4	12.4	55.6
#8	2.0	7.4	85.3	35.5	8.9	64.5
#16	1.6	2.9	65.4	26.7	8.7	73.3
#30	1.4	2.1	43.5	18.0	8.8	82.0
#50	1.4	1.9	13.5	6.2	11.7	93.8
#100	1.2	1.8	2.0	1.6	4.6	98.4
LBW	1.2	1.7	0.3	0.9	0.7	99.1

*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: **67** Workability Factor: **35**



Initial Production Sample (IPS)

Coarseness Factor: 67		Workability Factor: 36	
Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	87.2	12.8	12.8
3/4"	76.6	10.6	23.4
1/2"	64.4	12.2	35.6
3/8"	56.9	7.6	43.1
#4	44.1	12.7	55.9
#8	35.6	8.5	64.4
#16	27.7	8.0	72.3
#30	19.5	8.2	80.5
#50	7.8	11.6	92.2
#100	2.3	5.6	97.7
LBW	0.6	1.6	99.4

PREPARED BY:

Approved By: