

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-102**

Sample Date: 1/15/18

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 1/15/2018 to 1/21/2018

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1650	9.83	2.69	52.2
26A	58-003	Stoneco	300	1.79	2.69	9.5
2NS	63-114	AA Highland	1210	7.32	2.65	38.3
Total Wt			3160	18.93		100.0

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



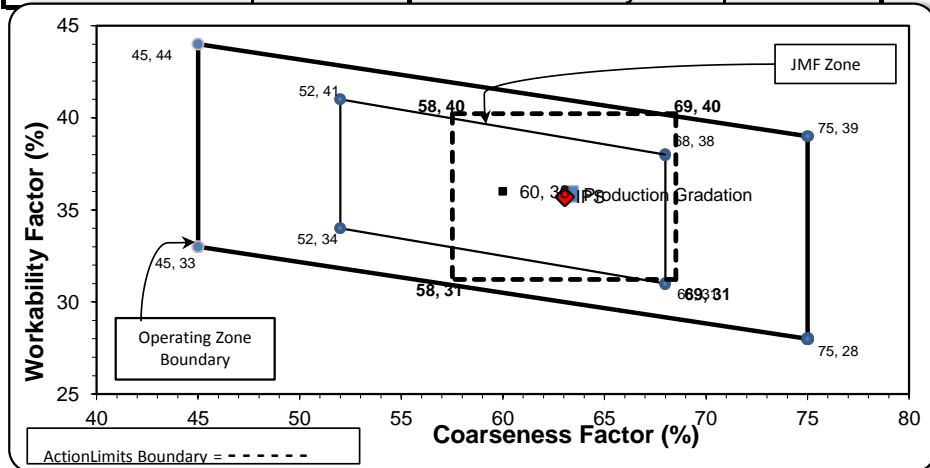
Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

Sieve	6AA	26A	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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	82.0	100.0	100.0	90.6	9.4	9.4
1/2"	44.8	99.6	100.0	71.1	19.5	28.9
3/8"	25.1	84.2	100.0	59.4	11.7	40.6
#4	6.4	19.5	99.6	43.3	16.1	56.7
#8	3.6	4.6	87.6	35.9	7.5	64.1
#16	1.7	2.1	69.5	27.7	8.2	72.3
#30	1.6	1.5	48.8	19.7	8.0	80.3
#50	1.5	1.3	16.5	7.2	12.4	92.8
#100	1.5	1.2	1.8	1.6	5.6	98.4
LBW	1.6	1.1	0.3	1.1	0.5	98.9

*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: **63** **Workability Factor:** **36**



Initial Production Sample (IPS)

Coarseness Factor: 63		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"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

PREPARED BY:

Approved By: