

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-102**

Sample Date: 2/5/18

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 2/5/2018 to 2/11/2018

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1550	9.23	2.69	49.1
26A	58-003	Stoneco	400	2.38	2.69	12.7
2NS	63-114	AA Highland	1210	7.32	2.65	38.3
Total Wt			3160	18.93		100.0

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

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"	71.4	100.0	100.0	86.0	14.0	14.0
1/2"	33.4	100.0	100.0	67.3	18.6	32.7
3/8"	12.8	88.6	100.0	55.8	11.5	44.2
#4	2.3	18.3	99.8	41.7	14.1	58.3
#8	0.8	4.8	88.0	34.7	7.0	65.3
#16	0.5	2.0	67.4	26.3	8.4	73.7
#30	0.4	1.5	45.5	17.8	8.5	82.2
#50	0.4	1.4	14.7	6.0	11.8	94.0
#100	0.4	1.3	2.2	1.2	4.8	98.8
LBW	0.3	1.2	0.3	0.4	0.8	99.6

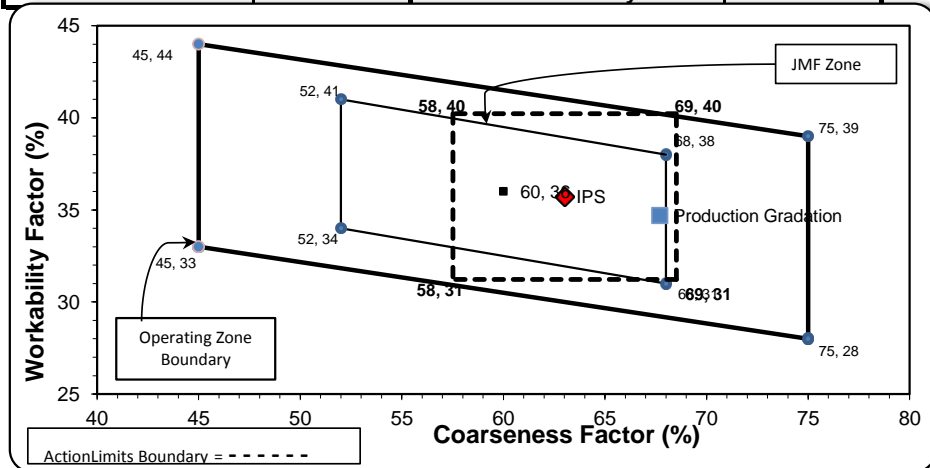
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 8% for the 1" sieve when a 2" max. size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



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

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: 68 **Workability Factor: 35**



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: