

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-102**

Sample Date: 2/19/18

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 2/19/2018 to 2/25/2018

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1700	10.13	2.69	53.8
26A	58-003	Stoneco	250	1.49	2.69	7.9
2NS	63-114	AA Highland	1210	7.32	2.65	38.3
Total Wt			3160	18.93		100.0

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



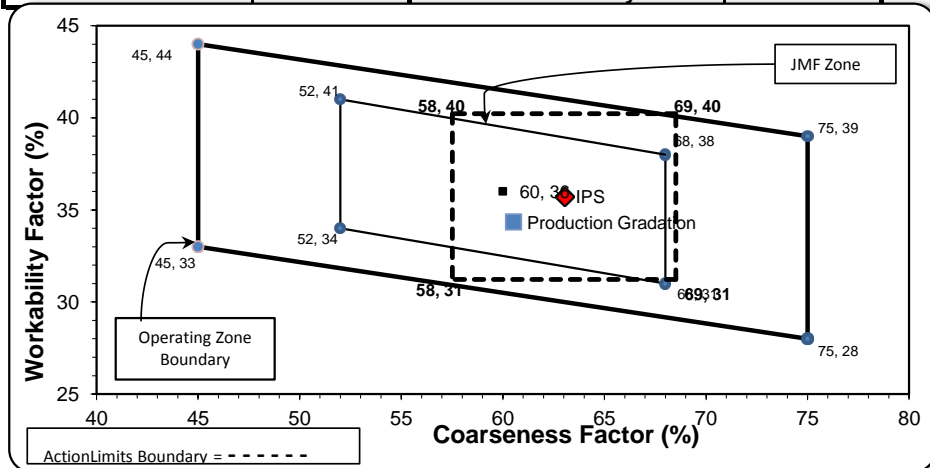
Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

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"	86.8	100.0	100.0	92.9	7.1	7.1
1/2"	46.6	99.5	100.0	71.2	21.7	28.8
3/8"	28.2	85.9	100.0	60.3	11.0	39.7
#4	5.4	28.8	99.6	43.3	16.9	56.7
#8	2.5	6.7	84.8	34.3	9.0	65.7
#16	2.0	2.6	64.2	25.9	8.5	74.1
#30	1.8	2.0	42.8	17.5	8.3	82.5
#50	1.6	1.8	14.0	6.4	11.2	93.6
#100	1.5	1.6	2.2	1.8	4.6	98.2
LBW	1.4	1.4	0.3	1.0	0.8	99.0

*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: **61** Workability Factor: **34**



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: