

# Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

**PLANT #:** **P-102**

Sample Date: 5/7/18

Concrete Grade: **S2M**

Contractor: \_\_\_\_\_

Dates Test Represents: 5/7/2018 to 5/14/2018

MDOT No.: \_\_\_\_\_

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1550	9.23	2.69	49.1
26A	58-003	Stoneco	350	2.09	2.69	11.1
2NS	38-046	Chelsea	1260	7.62	2.65	39.9
<b>Total Wt</b>			<b>3160</b>	<b>18.94</b>		<b>100.0</b>

<----- 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"	99.5	100.0	100.0	99.8	0.2	0.2
3/4"	81.7	100.0	100.0	91.0	8.7	9.0
1/2"	39.6	99.8	100.0	70.4	20.7	29.6
3/8"	18.3	83.7	100.0	58.1	12.2	41.9
#4	2.4	21.6	100.0	43.4	14.7	56.6
#8	1.0	4.9	87.0	35.7	7.7	64.3
#16	1.0	2.1	66.0	27.0	8.7	73.0
#30	0.9	1.5	45.0	18.6	8.5	81.4
#50	0.8	1.4	22.0	9.3	9.2	90.7
#100	0.7	1.3	4.0	2.1	7.2	97.9
LBW	0.5	1.0	1.0	0.8	1.3	99.2

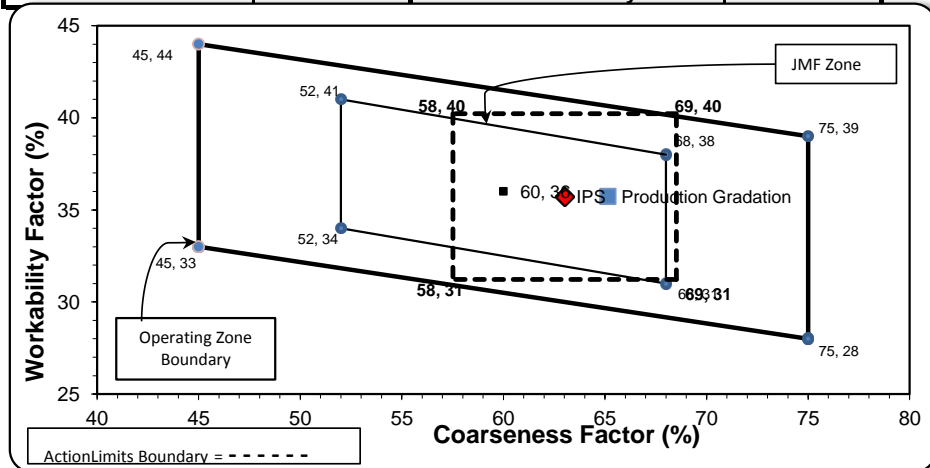
\*Maximum % Retained must be above the 3/8" sieve.  
 \*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 8% for the 1" sieve when a 2" 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: **65**      Workability Factor: **36**



Initial Production Sample (IPS)

Coarseness Factor: <b>63</b>		Workability Factor: <b>36</b>	
Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.9	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:

# Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

**PLANT #:** **P-103**

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Contractor: \_\_\_\_\_

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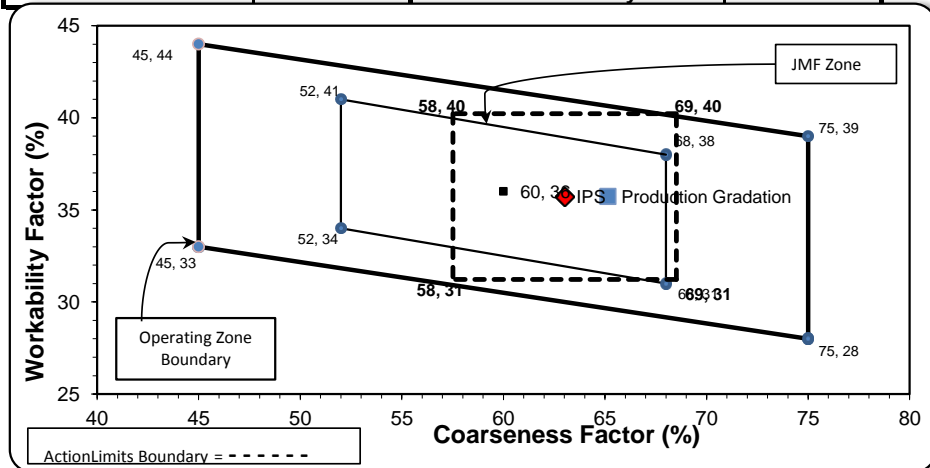
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LBW	0.5	1.0	1.0	0.8	1.3	99.2

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Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

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PREPARED BY:  
 SM, LLC Technical Service

Approved BY: