

# Aggregate Optimization Chart

MIX ID'S: DDD0K7E7, DDD0K7E8 and DDD0K7E9

Production Gradation Report

**PLANT #:** P-102

Sample Date: 5/14/18

Concrete Grade: DM

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

Dates Test Represents: 5/15/2018 to 5/21/2018

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

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1450	8.64	2.69	48.4
26A	58-003	Stoneco	345	2.06	2.69	11.5
2NS	38-046	Chelsea	1200	7.26	2.65	40.1
<b>Total Wt</b>			<b>2995</b>	<b>17.95</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"	99.9	100.0	100.0	100.0	0.0	0.0
3/4"	83.6	100.0	100.0	92.1	7.9	7.9
1/2"	42.7	99.5	100.0	72.2	19.9	27.8
3/8"	21.7	87.4	100.0	60.6	11.6	39.4
#4	4.0	13.8	100.0	43.6	17.0	56.4
#8	1.8	2.8	88.0	36.5	7.1	63.5
#16	1.2	1.2	65.0	26.8	9.7	73.2
#30	0.9	0.9	44.0	18.2	8.6	81.8
#50	0.8	0.8	21.0	8.9	9.3	91.1
#100	0.7	0.7	4.0	2.0	6.9	98.0
LBW	0.7	0.4	0.8	0.7	1.3	99.3

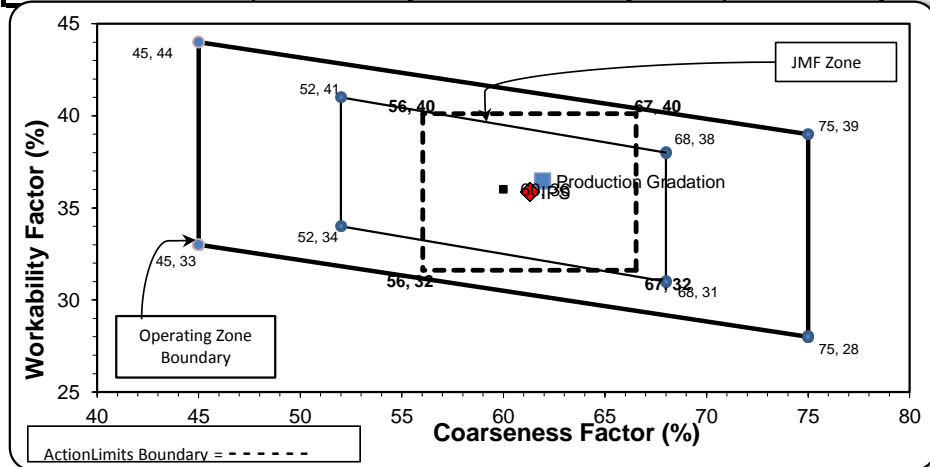
\*Maximum % Retained must be above the 3/8" sieve.  
 \*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 8% for the 1" sieve when a 2" 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: 62      Workability Factor: 36



Initial Production Sample (IPS)

Coarseness Factor: 61		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"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:

Approved By:

# Aggregate Optimization Chart

MIX ID'S: DDD0K7E7, DDD0K7E8 and DDD0K7E9

Production Gradation Report

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

Sample Date: 5/14/18

Concrete Grade: DM

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

Dates Test Represents: 5/15/2018 to 5/21/2018

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

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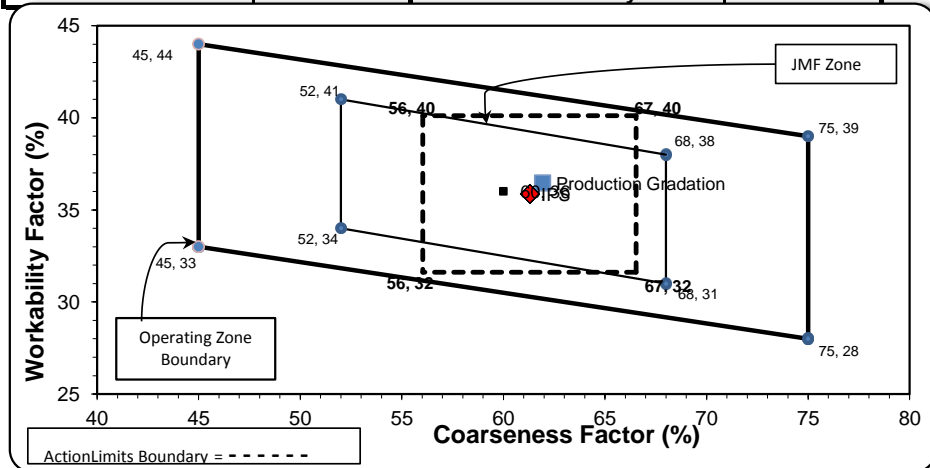


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Coarseness Factor: <b>61</b>		Workability Factor: <b>36</b>	
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PREPARED BY:  
 SM, LLC Technical Service

Approved BY: