

# Aggregate Optimization Chart

MIX ID'S: DDD0K7E7, DDD0K7E8 and DDD0K7E9

Production Gradation Report

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

Sample Date: 3/19/18

Concrete Grade: **DM**

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

Dates Test Represents: 3/19/2018 to 3/25/2018

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

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1395	8.31	2.69	46.6
26A	58-003	Stoneco	400	2.38	2.69	13.4
2NS	47-16	Buno Road	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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	73.9	100.0	100.0	87.8	12.2	12.2
1/2"	37.4	99.7	100.0	70.8	17.0	29.2
3/8"	15.8	90.0	100.0	59.4	11.4	40.6
#4	4.1	26.0	96.5	44.0	15.4	56.0
#8	2.2	7.1	86.4	36.6	7.5	63.4
#16	1.2	2.9	73.2	30.3	6.3	69.7
#30	1.1	2.0	53.9	22.4	7.9	77.6
#50	1.0	1.9	19.5	8.5	13.8	91.5
#100	0.9	1.8	2.6	1.7	6.8	98.3
LBW	1.2	1.6	0.6	1.0	0.7	99.0

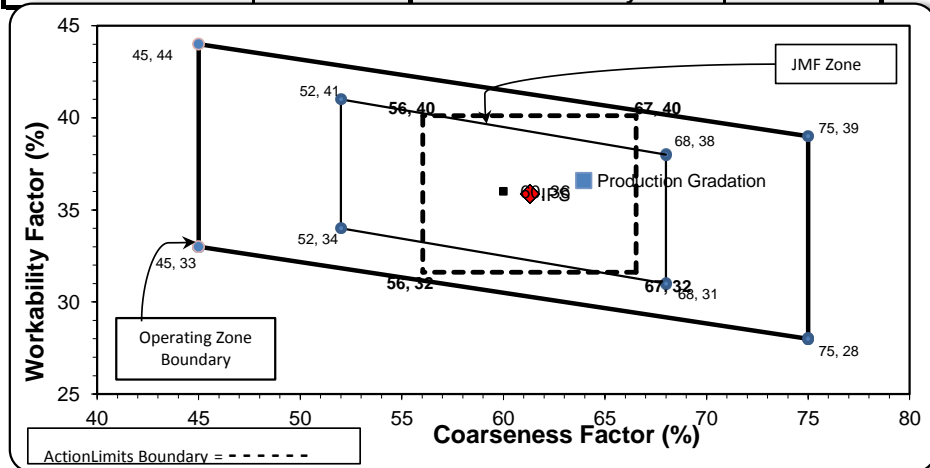


**Superior Materials, LLC**  
 30701 W. 10 Mile Rd.  
 Suite 500  
 Farmington Hills, MI 48336

\*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: 64**      **Workability Factor: 37**



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: