

# Aggregate Optimization Chart

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

Sample Date: 2/27/26

Concrete Grade: **DM, 4500HP**

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

Dates Test Represents: 2/28/2026 through 3/6/2026

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

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1400	8.34	2.69	46.7
26A	58-003	Stoneco	420	2.50	2.69	14.0
2NS	63-114	Highland	1180	7.14	2.65	39.3
<b>Total Wt</b>			<b>3000</b>	<b>17.98</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"	76.7	100.0	100.0	89.1	10.9	10.9
1/2"	32.3	99.3	100.0	68.3	20.8	31.7
3/8"	13.3	83.2	100.0	57.2	11.1	42.8
#4	2.0	14.0	97.5	41.2	15.9	58.8
#8	1.8	2.4	84.0	34.2	7.0	65.8
#16	1.8	1.4	65.4	26.8	7.5	73.2
#30	1.7	1.4	46.5	19.3	7.5	80.7
#50	1.7	1.3	18.6	8.3	11.0	91.7
#100	1.7	1.2	3.2	2.2	6.1	97.8
LBW	1.5	1.1	0.5	1.1	1.2	98.9



**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 4% for the 3/4" sieve when

a 1.5" max. size (nom. Max. 1.0") aggregate is used.

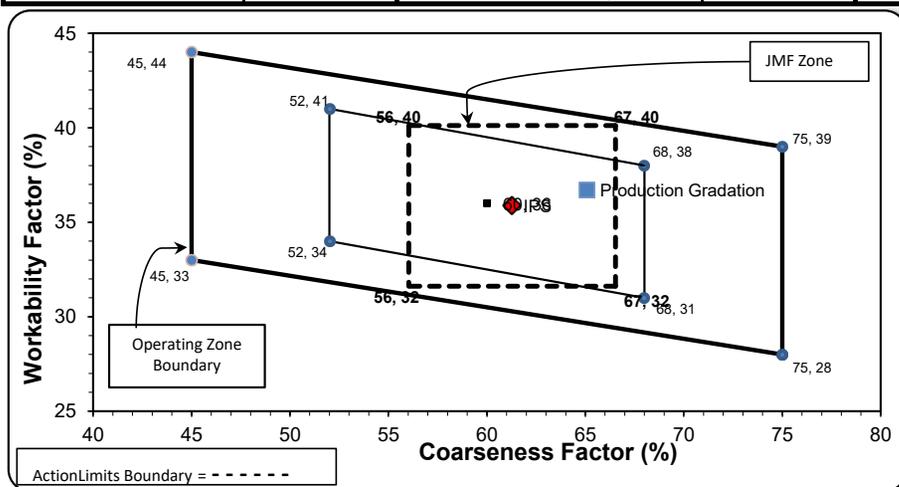
Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

<b>Coarseness Factor:</b>	<b>65</b>	<b>Workability Factor:</b>	<b>34</b>	<b>36.7</b>
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<b>Coarseness Factor:</b>	<b>61</b>
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<b>Workability Factor:</b>	<b>36</b>
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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:  
SM, LLC Technical Service

Approved By:  
Nancy Donahue

# Aggregate Optimization Chart

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

Sample Date: 2/27/26

Concrete Grade: **DM, 4500HP**

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

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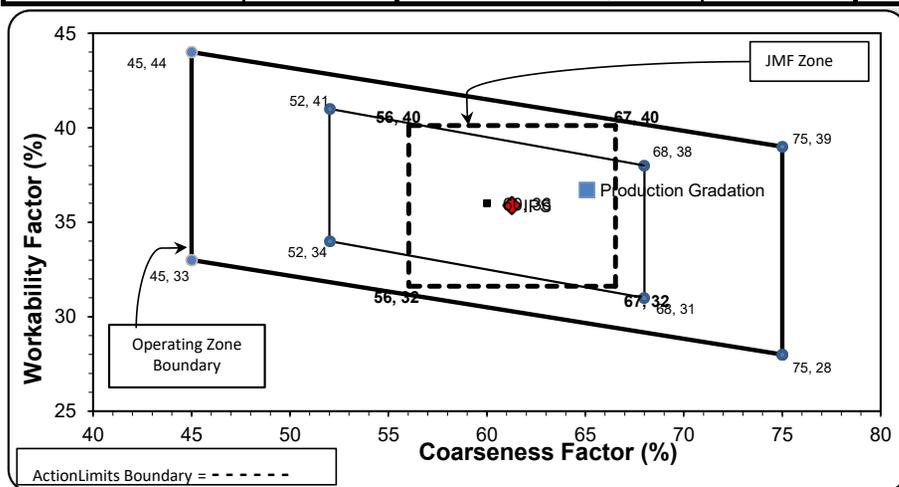
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