

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-38**

Sample Date: 1/9/17

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 1/9/2017 to 1/15/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1415	8.43	2.69	44.8
26A	58-003	Stoneco	450	2.68	2.69	14.3
2NS	81-93	Burmeister	1290	7.83	2.64	40.9
Total Wt			3155	18.94		100.0

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



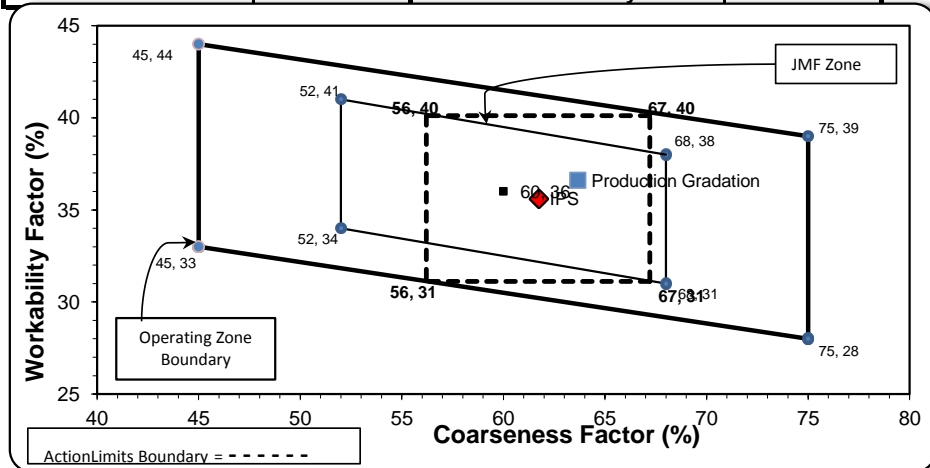
Superior Materials, LLC
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Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	99.1	100.0	100.0	99.6	0.4	0.4
3/4"	76.0	100.0	100.0	89.2	10.4	10.8
1/2"	35.3	99.6	100.0	70.9	18.3	29.1
3/8"	14.1	87.1	100.0	59.6	11.3	40.4
#4	2.9	14.7	99.4	44.0	15.6	56.0
#8	2.5	3.1	85.7	36.6	7.4	63.4
#16	2.3	1.6	69.7	29.8	6.8	70.2
#30	2.2	1.2	51.0	22.0	7.7	78.0
#50	2.0	1.1	21.4	9.8	12.2	90.2
#100	2.0	1.0	4.2	2.8	7.0	97.2
LBW	1.8	0.8	1.4	1.5	1.3	98.5

*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 13% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 5% 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
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Initial Production Sample (IPS)

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"	91.1	8.1	8.9
1/2"	72.0	19.1	28.0
3/8"	60.3	11.7	39.7
#4	43.4	16.9	56.6
#8	35.6	7.8	64.4
#16	28.4	7.2	71.6
#30	21.8	6.7	78.2
#50	9.1	12.6	90.9
#100	1.7	7.4	98.3
LBW	1.1	0.6	98.9

PREPARED BY:
 SM, LLC Technical Service

Approved By: