

PC CONCRETE GRADATION COMPARISON REPORT

(Computer Spreadsheet Available on Iowa DOT Office of Materials Web Site)

Rev 05/03

Iowa Department Of Transportation Reported Gradation & IM 216 Comparison Report

Form 200

Project No.: _____	Intended Use: _____ (Paving, Structure, Patching, Incidental
Contract ID: _____	
County: _____	Good Fair Poor
Contractor/Producer: _____	Care of Equipment: _____
Design No.: _____	Sampling Procedure: _____
Coarse Agg. T203 A No.: _____	Splitting Procedure: _____
Fine Agg. T203 A No.: _____	Sieving to Completion: _____
Proper Equipment: _____	Computations: _____
Applicable Specs.: _____	Reporting: _____

DOT Tested By: _____	Cert. No.: _____	Date: _____
Contr./Prod. Tested By: _____	Cert. No.: _____	Date: _____

			Sieve Sizes - Percent Passing											
			1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200
Grad No.	Sample ID	Specs												
		DOT												
		Contr./Prod.												

Grad No.	Sample ID	Specs												
		DOT												
		Contr./Prod.												

Sieves	DOT % Retained	Contr./Prod. % Retained	Diff.	Tol. %	Comply (Y/N)
1 1/2 - 1	NA	NA	0.0	2	Y
1 - 3/4	NA	NA	0.0	2	Y
3/4 - 1/2	0.0	0.0	0.0	2	Y
1/2 - 3/8	0.0	0.0	0.0	2	Y
3/8 - 4	0.0	0.0	0.0	2	Y
4 - 8	0.0	0.0	0.0	1	Y
8 - 200	0.0	0.0	0.0	1	Y
200	0.0	0.0	0.0	1	Y

Size Fraction Between Consecutive Sieves, %			Tolerance, %
Coarse Aggregate:			
0.0	to	3.0	2
3.1	to	10.0	3
10.1	to	20.0	5
20.1	to	30.0	6
30.1	to	40.0	7
40.1	to	50.0	9

3/8 - 4	0.0	0.0	0.0	2	Y
4 - 8	0.0	0.0	0.0	1	Y
8 - 16	0.0	0.0	0.0	1	Y
16 - 30	0.0	0.0	0.0	1	Y
30 - 50	0.0	0.0	0.0	1	Y
50 - 100	0.0	0.0	0.0	1	Y
100 - 200	0.0	0.0	0.0	1	Y
200	0.0	0.0	0.0	1	Y

Fine Aggregate:			
0.0	to	3.0	1
3.1	to	10.0	2
10.1	to	20.0	3
20.1	to	30.0	4
30.1	to	40.0	4

Remarks: _____

Distribution _____ Central Materials _____ Dist. Materials _____ Contr./Producer _____ Proj. Engineer _____ Technician _____

HMA GRADATION COMPARISON REPORT

(Computer Spreadsheet Available on Iowa DOT Office of Materials Web Site)

Rev 05/03

Iowa Department Of Transportation Reported Gradation & IM 216 Comparison Report

Form 201

Project No.: _____	Intended Use: _____
Contract ID: _____	
County: _____	
Contractor/Producer: _____	
Mix Design No.: _____	Good Fair Poor
Mix Change (Y/N): _____	Care of Equipment: _____
Date of Change: _____	Sampling Procedure: _____
Total, % Asphalt (Pb): _____	Splitting Procedure: _____
Effective % Asphalt (Pbe): _____	Sieving to Completion: _____
Proper Equipment: _____	Computations: _____
Applicable Specs.: _____	Reporting: _____
DOT Tested By: _____	Cert. No.: _____ Date: _____
Contr./Prod. Tested By: _____	Cert. No.: _____ Date: _____

		Sieve Sizes - Percent Passing											
		1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200
	Specs.												
Sample ID	DOT												
Sample ID	Contr./Prod.												

Sieves	DOT % Retained	Contr./Prod. % Retained	Diff.	Tol. %	Comply (Y/N)
1 1/2 - 1	NA	NA	0.0	2	Y
1 - 3/4	NA	NA	0.0	2	Y
3/4 - 1/2	NA	NA	0.0	2	Y
1/2 - 3/8	NA	NA	0.0	2	Y
3/8 - 4	NA	NA	0.0	2	Y
4 - 8	NA	NA	0.0	2	Y
8 - 16	NA	NA	0.0	2	Y
16 - 30	NA	NA	0.0	2	Y
30 - 50	NA	NA	0.0	2	Y
50 - 100	NA	NA	0.0	2	Y
100 - 200	NA	NA	0.0	2	Y
200	NA	NA	0.0	2	Y

DOT Gyratory Filler/Bitumen Ratio

0.00

Sieve Fraction Between

Consecutive Sieves, % Tolerance, %

0.0	To	3.0	2
3.1	To	10.0	3
10.1	To	20.0	5
20.1	To	30.0	6
30.1	To	40.0	7
40.1	To	50.0	9

Remarks: _____

Distribution _____ Central Materials _____ Dist Materials _____ Contr./Producer _____ Proj. Engineer _____ Technician _____

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QMC GRADATION COMPARISON REPORT

(Computer Spreadsheet Available on Iowa DOT Office of Materials Web Site)

QMC Gradation Correlation I.M. 216					
Project No.: _____		Contract ID: _____		Date Sampled: _____	
Plant Name: _____		County: _____		Gradation Date: _____	
Contractor: _____		Mix Design Number: _____		Design No.: _____	
Coarse Agg. Source: _____		Intermediate Agg. Source: _____		Fine Agg. Source: _____	
Monitor: _____		Cert. No.: _____		Proper Equipment: _____	
C.P.I.: _____		Cert. No.: _____		Specification: _____	

Sieve Size	D.O.T. Coarse Agg Percent Passing	Prod. / C. P. I. Coarse Agg Percent Passing	D.O.T. Coarse Agg Percent Retained	Prod. / C. P. I. Coarse Agg Percent Retained	Fraction Difference	Applicable Tolerance	Complies
1.5" / 37.5mm							
1" / 25.0mm							
3/4" / 19.0mm							
1/2" / 12.5mm							
3/8" / 9.5mm							
#4 / 4.75mm							
#8 / 2.36mm							
Minus #200							

Sieve Size	D.O.T. Intermediate Aggregate Percent Retained	Prod. / C. P. I. Intermediate Aggregate Percent Retained	Fraction Difference	Applicable Tolerance	Complies
1.5" / 37.5mm					
1" / 25.0mm					
3/4" / 19.0mm					
1/2" / 12.5mm					
3/8" / 9.5mm					
#4 / 4.75mm					
#8 / 2.36mm					
Minus #200					

Sieve Size	D.O.T. Fine Aggregate Percent Passing	Prod. / C. P. I. Fine Aggregate Percent Passing	D.O.T. Fine Aggregate Percent Retained	Prod. / C. P. I. Fine Aggregate Percent Retained	Fraction Difference	Applicable Tolerance	Complies
3/8" / 9.5mm							
#4 / 4.75mm							
#8 / 2.36mm							
#16 / 1.18mm							
#30 / 600um							
#50 / 300um							
#100 / 150um							
Minus #200							

Care of Equipment	☐ GOOD	☐ FAIR	☐ POOR	Comments: _____
Sampling Procedure	☐ GOOD	☐ FAIR	☐ POOR	_____
Splitting Procedure	☐ GOOD	☐ FAIR	☐ POOR	_____
Sieving to Completion	☐ GOOD	☐ FAIR	☐ POOR	_____
Computations	☐ GOOD	☐ FAIR	☐ POOR	_____
Reporting	☐ GOOD	☐ FAIR	☐ POOR	cc: _____