



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 01      Plant Name: ERM1.05.601      Hanson Ready Mix F-5 @ Winfield, WV

Last Inspection: 08/17/2021      Sticker Expires: 2/17/2022      Standard Deviation: 554.23      Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

1465034      601.002.003             545      521.5  
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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39      3000      1.5      3      592.74      5043.59 > 4778.22 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

2000467      601.002.022             705      705  
Concrete, Class DC

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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14      4500      1.557      3.313      694.43      5581.23 < 6552.14 < 6800.65

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

2000471      601.002.003             545      498  
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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19      3000      1.528      3.151      480.21      5227.89 > 4513.14 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2002577	601.002.015 Concrete, Class K		639	639
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength( $F_c$ )	Factor ( $K_1$ )	Factor ( $K_2$ )	Standard Deviation ( $s$ )	( $F_c+K_1s$ )	Average Strength( $X$ )	( $F_c+K_2s$ )
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11	4000	1.588	3.51	820.65	5303.19	< 5813.64	< 6880.48
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100842	601.002.003 Concrete, Class B		600	553
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength( $F_c$ )	Factor ( $K_1$ )	Factor ( $K_2$ )	Standard Deviation ( $s$ )	Average Strength( $X$ )	( $F_c+K_2s$ )	X- ( $F_c+K_2s$ )/200
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17	3000	1.538	3.202	410.87	6686.47	> 4315.61	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 01

Plant Name: ERM1.07.601 Hanson Ready Mix F-7 @ Charleston, WV

Last Inspection: 08/27/2021

Sticker Expires: 2/27/2022

Standard Deviation: 495.51

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1465033      601.002.003             545      498  
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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12      3000      1.576      3.429      455.67      6102.5      > 4562.49      =      47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000472      601.002.003             545      498  
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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15      3000      1.549      3.27      488.29      5511.33      > 4596.71      =      47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000476      601.002.003             545      545  
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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15      3000      1.549      3.27      893.24      4383.63      < 5740      < 5920.89

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 01

Plant Name: ERM1.09.601 Hanson Ready Mix F-9 @ Winfield, WV (Transit)

Last Inspection: 08/17/2021

Sticker Expires: 2/17/2022

Standard Deviation: 575.20

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1465035 601.002.003            545 498  
Concrete, Class B

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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33 3000 1.5 3 646.37 5921.52 > 4939.11 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

District: 01

Plant Name: MRM2.01.601 The Wells Group LLC - Madison Plant @ Madiso

Last Inspection: 09/29/2021

Sticker Expires: 3/29/2022

Standard Deviation: 461.38

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

2100204 601.002.003            564 564  
Concrete, Class B

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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19 3000 1.528 3.151 508.73 3777.34 < 4525.79 < 4603.01

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 01

Plant Name: RRM1.01.601 Rumble Ready Mix F-1 @ Winfield, WV

Last Inspection: 10/04/2021

Sticker Expires: 4/4/2022

Standard Deviation: 581.99

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

1458929 601.002.003 Concrete, Class B 543 519.5

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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15 3000 1.549 3.27 424.46 4521.33 > 4387.98 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

**Data Slump Greater than or equal to 2 inches**

1458929 601.002.003 Concrete, Class B 543 519.5

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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15 3000 1.549 3.27 424.46 4521.33 > 4387.98 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Less than 2 inches**

1458962 601.002.003 Concrete, Class B 543 496

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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14 3000 1.557 3.313 538.39 6188.57 > 4783.69 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

**Data Slump Greater than or equal to 2 inches**

1458962 601.002.003 Concrete, Class B 543 543

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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34 3000 1.5 3 775.65 4163.48 < 4922.35 < 5326.95

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 01

Plant Name: VBC1.03.601 The Wells Group @ Robertsburg

Last Inspection: 12/14/2021

Sticker Expires: 6/14/2022

Standard Deviation: 671.87

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1461856	601.002.003 Concrete, Class B	09/04/2021	545	545
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Pieces of Data	Design Strength( $F_c$ )	Factor ( $K1$ )	Factor ( $K2$ )	Standard Deviation ( $s$ )	( $F_c+K1s$ )	Average Strength( $X$ )	( $F_c+K2s$ )
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64	3000	1.5	3	777.47	4166.2	< 5271.25	< 5332.41
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 02

Plant Name: ATA1.01.601 Adams Trucking And Supply @ Barboursville, W

Last Inspection: 08/30/2021

Sticker Expires: 2/28/2022

Standard Deviation: 611.46

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->							
<b>Data Slump Less than 2 inches</b>					<i>Pieces of Data</i>	<i>Design Strength(Fc)</i>	<i>Factor (K1)</i>	<i>Factor (K2)</i>	<i>Standard Deviation (s)</i>	<i>(Fc+K1s)</i>	<i>Average Strength(X)</i>	<i>(Fc+K2s)</i>
1465018	601.002.015 Concrete, Class K		639	639	14	4000	1.557	3.313	643.89	5002.54 <	6103.57 <	6133.21
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26												
<b>Data Slump Greater than or equal to 2 inches</b>					<i>Pieces of Data</i>	<i>Design Strength(Fc)</i>	<i>Factor (K1)</i>	<i>Factor (K2)</i>	<i>Standard Deviation (s)</i>	<i>Average Strength(X)</i>	<i>(Fc+K2s)</i>	<i>X-(Fc+K2s)/200</i>
1465018	601.002.015 Concrete, Class K		639	592	17	4000	1.538	3.202	329.93	5637.65 >	5056.44 =	47
DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26												

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->							
<b>Data Slump Greater than or equal to 2 inches</b>					<i>Pieces of Data</i>	<i>Design Strength(Fc)</i>	<i>Factor (K1)</i>	<i>Factor (K2)</i>	<i>Standard Deviation (s)</i>	<i>Average Strength(X)</i>	<i>(Fc+K2s)</i>	<i>X-(Fc+K2s)/200</i>
1465064	601.002.003 Concrete, Class B		545	498	38	3000	1.5	3	483.19	4981.84 >	4449.57 =	47
DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26												

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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----- Evaluation of Cement Requirements ----->

**Data Slump Greater than or equal to 2 inches**

1465065	601.002.013		636	636
	Concrete, Class H			

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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26	4000	1.508	3.044	687.78	5037.17	5933.46	6093.6
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

**District:** 02      **Plant Name:** ERM1.08.601      Hanson Ready Mix F-8 @ Huntington, WV

**Last Inspection:** 11/18/2021      **Sticker Expires:** 5/18/2022      **Standard Deviation:** 577.87      **Rating:** A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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----- Evaluation of Cement Requirements ----->

**Data Slump Greater than or equal to 2 inches**

2000473	601.002.003		545	545
	Concrete, Class B			

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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14	3000	1.557	3.313	540.39	4856.79	> 4790.31	= 0
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26



# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 02

Plant Name: LCC1.01.601 The Wells Group F-1 @ Logan, WV

Last Inspection: 08/19/2021

Sticker Expires: 2/19/2022

Standard Deviation: 545.36

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1461810	601.002.003 Concrete, Class B	08/09/2021	545	631
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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41	4000	1.5	3	433.65	4650.48	6079.76	5300.95
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1461852	601.002.013 Concrete, Class H	08/09/2021	631	631
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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41	4000	1.5	3	433.65	4650.48	6079.76	5300.95
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

2100203	601.002.003 Concrete, Class B		564	564
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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16	3000	1.543	3.233	693.13	4069.5	< 4740.94	< 5240.89
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 03 Plant Name: CCC1.01.601 The Wells Group F1 @ Ravenswood, WV

Last Inspection: 06/24/2021 Sticker Expires: 12/24/2021 Standard Deviation: 681.48 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->							
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
<b>Data Slump Greater than or equal to 2 inches</b>												
1461812	601.002.003 Concrete, Class B	05/21/2021	545	545	22	3000	1.518	3.096	813.03	4234.18 <	5167.27 <	5517.14
					MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 03

Plant Name: CCC1.02.601 The Wells Group F2 @ Parkersburg, WV

Last Inspection: 08/16/2021

Sticker Expires: 2/16/2022

Standard Deviation: 579.96

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

1432578	601.002.003 Concrete, Class B		550	550
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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11	3000	1.588	3.51	890.28	4413.76	< 4800	< 6124.88
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Less than 2 inches**

1461813	601.002.003 Concrete, Class B	05/21/2021	545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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11	3000	1.588	3.51	664.96	4055.96	< 5006.36	< 5334.01
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

**Data Slump Greater than or equal to 2 inches**

1461813	601.002.003 Concrete, Class B	05/21/2021	545	521.5
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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43	3000	1.5	3	580.78	4934.65	> 4742.34	= 23.5
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DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

2100404	601.002.003 Concrete, Class B		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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18	3000	1.533	3.175	590.1	3904.62	< 4025	< 4873.57
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 03

Plant Name: ERM1.06.601 Hanson Ready Mix F-6 @ Parkersburg, WV

Last Inspection: 09/24/2021

Sticker Expires: 3/24/2022

Standard Deviation: 459.35

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1465020	601.002.013 Concrete, Class H		618	618
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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12	4000	1.576	3.429	762.01	5200.93	8229.17	6612.93
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1465056	601.002.003 Concrete, Class B		545	521.5
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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49	3000	1.5	3	455.99	4514.29	> 4367.97	= 23.5
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DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 04

Plant Name: CCC1.03.601 The Wells Group F3 @ Bridgeport, WV

Last Inspection: 07/22/2021

Sticker Expires: 1/22/2022

Standard Deviation: 659.53

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434187 601.002.003   545 545  
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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40 3000 1.5 3 651.55 3977.32 < 4924.92 < 4954.65

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434188 601.002.015   639 639  
Concrete, Class K

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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13 4000 1.565 3.365 612.14 4958 < 5384.85 < 6059.85

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1461855 601.002.022 08/14/2021 705 705  
Concrete, Class DC

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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13 4500 1.565 3.365 1013.15 6085.58 < 7154.08 < 7909.25

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100410	501.002.001		564	564
	Concrete, Pavement			

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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16	3000	1.543	3.233	681.12	4050.97	< 5057.81	< 5202.06
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 04

Plant Name: CSC1.01.601 Central Supply F-1 @ Saltwell, WV

Last Inspection: 09/01/2021

Sticker Expires: 3/1/2022

Standard Deviation: 471.15

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434199	601.002.003		545	498
	Concrete, Class B			

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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10	3000	1.604	3.615	491.16	5231.3	> 4775.54	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1455036	601.002.022		671	671
	Concrete, Class DC			

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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17	4500	1.538	3.202	561.13	5363.02	< 6111.35	< 6296.74
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 04 Plant Name: CSC1.02.601 Central Supply F-2 @ Westover, WV

Last Inspection: 09/01/2021 Sticker Expires: 3/1/2022 Standard Deviation: 648.46 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->							
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
<b>Data Slump Less than 2 inches</b>												
1434193	601.002.003		545	498	18	3000	1.533	3.175	600.91	5647.22	> 4907.89	= 47
Concrete, Class B					DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26							
<b>Data Slump Greater than or equal to 2 inches</b>												
1434193	601.002.003		545	545	21	3000	1.521	3.112	431.51	4439.05	> 4342.86	= 0
Concrete, Class B					MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->							
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
<b>Data Slump Less than 2 inches</b>												
1436404	601.002.015		636	636	10	4000	1.604	3.615	608.87	6235	> 6201.07	= 0
Concrete, Class K					MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

District: 04 Plant Name: RDR1.01.601 R.D.R. Energy Resources

Last Inspection: 11/10/2021 Sticker Expires: 5/10/2022 Standard Deviation: 559.01 Rating: A-2

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->							
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
<b>Data Slump Greater than or equal to 2 inches</b>												
2100211	601.002.003		550	550	35	3000	1.5	3	558.2	3837.3	< 4154.2	< 4674.6
Concrete, Class B					MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/16/2021

District: 04

Plant Name: SAC1.01.601 Stone & Company @ Morgantown, WV

Last Inspection: 07/01/2021

Sticker Expires: 1/1/2022

Standard Deviation: 528.37

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

2100405	601.002.003 Concrete, Class B		564	517
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Pieces of Data	Design Strength( $F_c$ )	Factor ( $K1$ )	Factor ( $K2$ )	Standard Deviation ( $s$ )	Average Strength( $X$ )	( $F_c+K2s$ )	$X-(F_c+K2s)/200$
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21	3000	1.521	3.112	528.37	6190.95	> 4644.29	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26							
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# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 05      Plant Name: FCC1.01.601      Fairfax Concrete F-1 @ Scherr WV

Last Inspection: 09/22/2021      Sticker Expires: 3/22/2022      Standard Deviation: 518.88      Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463272	601.002.003 Concrete, Class B		564	517
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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15	3000	1.549	3.27	376.24	6271.33	> 4230.3	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463275	601.002.003 Concrete, Class B		545	498
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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21	3000	1.521	3.112	619.71	5999.71	> 4928.54	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463281	601.002.013 Concrete, Class H	11/13/2021	645	645
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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10	4000	1.604	3.615	651.7	5045.33	7706.1	6355.9
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 05

Plant Name: FCC1.05.601 Allegany Concrete F-5 W Short Gap WV (Transit)

Last Inspection: 09/27/2021

Sticker Expires: 3/27/2022

Standard Deviation: 562.91

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1461807	601.002.003 Concrete, Class B		545	498
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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11      3000      1.588      3.51      530.24      6221.18 > 4861.14 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1461808	601.002.015 Concrete, Class K		635	635
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

15      4000      1.549      3.27      670.72      5038.95 < 5842 < 6193.25

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 05

Plant Name: TBH1.01.601 Thomas, Bennet & Hunter, Inc @ Martinsburg, W

Last Inspection: 09/13/2021

Sticker Expires: 3/13/2022

Standard Deviation: 723.49

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

**Data Slump Less than 2 inches**

I389014 - R15	601.002.003		555	516
Concrete, Class B				

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

23      3000      1.515      3.081      894.98      6918.7      > 5757.43      =      47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

**Data Slump Less than 2 inches**

2000432	601.002.003		563	516
Concrete, Class B				

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

23      3000      1.515      3.081      894.98      6918.7      > 5757.43      =      47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

**Data Slump Greater than or equal to 2 inches**

2000432	601.002.003		563	516
Concrete, Class B				

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

31      3000      1.5      3      685.04      6120.94      > 5055.12      =      47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 06

Plant Name: ERM1.04.601 Hanson Ready Mix F-4 @ McMechen WV

Last Inspection: 11/17/2021

Sticker Expires: 5/17/2022

Standard Deviation: 554.46

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1901031	601.002.003 Concrete, Class B		545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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29	3000	1.503	3.016	645.83	3970.68	< 4384.83	< 4947.82
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100549	601.002.003 Concrete, Class B		545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

11	3000	1.588	3.51	644.24	4023.05	< 4450.91	< 5261.28
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 06

Plant Name: SSC1.03.601 Smith Concrete F-3 @ Tiltonville OH

Last Inspection: 09/22/2021

Sticker Expires: 3/22/2022

Standard Deviation: 728.32

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463266 601.002.022                      810 763  
Concrete, Class DC

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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17 4500 1.538 3.202 852.96 7836.47 > 7231.18 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463337 601.002.006                      650 650  
Concrete, Class B Mass, Modified

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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15 5000 1.549 3.27 430.93 5667.51 < 5904 < 6409.14

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1901030 601.002.022                      705 658  
Concrete, Class DC

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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11 4500 1.588 3.51 701.55 7470.91 > 6962.44 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 06

Plant Name: SWC1.01.601 Swank @ Tridelpia, WV

Last Inspection: 08/04/2021

Sticker Expires: 2/4/2022

Standard Deviation: 757.03

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

2000422	601.002.003		564	564
Concrete, Class B				

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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18 3000 1.533 3.175 760.51 4165.86 < 4171.11 < 5414.62

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

2000426	601.002.006		610	610
Concrete, Class B Mass, Modified				

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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47 4000 1.5 3 865.45 6670.32 > 6596.35 = 0

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

2000429	601.002.004		730	824
Concrete, Class B Modified				

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K1s)	(Fc+K1s)-X/200
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33 5500 1.5 3 863.19 6067.45 < 6794.78 = 94

INCREASE CEMENT FACTOR BY 94 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

2000438	601.002.015 Concrete, Class K		658	681.5
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K1s)	(Fc+K1s)-X/200
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

17	4000	1.538	3.202	642.31	4906.47	< 4987.87	= 23.5
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INCREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

**Data Slump Greater than or equal to 2 inches**

2000438	601.002.015 Concrete, Class K		658	681.5
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K1s)	(Fc+K1s)-X/200
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

17	4000	1.538	3.202	642.31	4906.47	< 4987.87	= 23.5
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INCREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

2000441	601.002.013 Concrete, Class H		648	648
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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137	4000	1.5	3	827.07	5240.61	7696.52	6481.21
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

2000446	601.002.003 Concrete, Class B		564	540.5
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

38	3000	1.5	3	738.73	5423.16	> 5216.19	= 23.5
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DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000459	601.002.016		655	608
Concrete, Class K Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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10 4500 1.604 3.615 599.8 7460 > 6668.28 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000462	601.002.014		648	601
Concrete, Class H Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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16 4000 1.543 3.233 479.88 7471.88 > 5551.45 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2003474	601.002.013		648	648
Concrete, Class H				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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19 4000 1.528 3.151 774.73 5183.79 7170.53 6441.17

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2003477	601.002.014		648	601
Concrete, Class H Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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21 4000 1.521 3.112 404.73 7494.29 > 5259.52 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26



# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2003480	601.002.006		610	563
Concrete, Class B Mass, Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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37      4000      1.5      3      447.59      6087.84 > 5342.77 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100848	501.002.002		803	756
Concrete, Pavement HES				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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14      3000      1.557      3.313      583.42      6752.86 > 4932.87 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

District: 06

Plant Name: WIC1.01.601 Weirton Ice & Coal @ Weirton, WV

Last Inspection: 10/11/2021

Sticker Expires: 4/11/2022

Standard Deviation: 554.41

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463244	601.002.003		564	517
Concrete, Class B				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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22      3000      1.518      3.096      757      5666.36 > 5343.67 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100210	601.002.004		658	634.5
Concrete, Class B Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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14      4500      1.557      3.313      531.02      6464.29 > 6259.27 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 07

Plant Name: CSC1.04.601 Central Supply F-4 @ Gassaway, WV

Last Inspection: 08/31/2021

Sticker Expires: 2/28/2022

Standard Deviation: 515.26

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434202 601.002.003  
Concrete, Class B

545 545

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength( $F_c$ )	Factor ( $K1$ )	Factor ( $K2$ )	Standard Deviation ( $s$ )	( $F_c+K1s$ )	Average Strength( $X$ )	( $F_c+K2s$ )
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11 3000 1.588 3.51 687.86 4092.32 < 4353.64 < 5414.39

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1436446 601.002.013  
Concrete, Class H

628 628

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength( $F_c$ )	Factor ( $K1$ )	Factor ( $K2$ )	Standard Deviation ( $s$ )	( $F_c+K1s$ )	Average Strength( $X$ )	( $F_c+K2s$ )
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12 4000 1.576 3.429 576.53 4908.61 7066.67 5976.92

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 08

Plant Name: CSC1.03.601 Central Supply F-3 @ Elkins, WV

Last Inspection: 09/10/2021

Sticker Expires: 3/10/2022

Standard Deviation: 659.77

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Greater than or equal to 2 inches**

1434201	601.002.003 Concrete, Class B		545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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33	3000	1.5	3	768.15	5319.39	> 5304.45	= 0
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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**Data Slump Less than 2 inches**

1436389	601.002.015 Concrete, Class K		636	636
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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10	4000	1.604	3.615	810.63	5300.25	< 6481	< 6930.43
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

**Data Slump Greater than or equal to 2 inches**

1436389	601.002.015 Concrete, Class K		636	636
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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12	4000	1.576	3.429	443.48	4698.92	< 5392.5	< 5520.69
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1459834	601.002.004		636	636
Concrete, Class B Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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21	4000	1.521	3.112	687.01	5044.94	< 5956.19	< 6137.98
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 08

Plant Name: CSC1.16.601 Central Supply F-16 @ Parsons, WV

Last Inspection: 09/21/2021

Sticker Expires: 3/21/2022

Standard Deviation: 586.58

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1461837	601.002.004		636	636
Concrete, Class B Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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19	4000	1.528	3.151	699.45	5068.76	< 6201.58	< 6203.97
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1465021	601.002.013		345	345
Concrete, Class H				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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19	4000	1.528	3.151	619.7	4946.9	6447.89	5952.67
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 09

Plant Name: BMC1.01.601 Central Supply F-9 @ Summersville, WV

Last Inspection: 11/22/2021

Sticker Expires: 5/22/2022

Standard Deviation: 761.54

Rating: A-2

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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<----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1432590	601.002.003 Concrete, Class B		543	613.5
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K1s)	(Fc+K1s)-X/200
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11	3000	1.588	3.51	900.12	3988.18	< 4429.39	= 70.5
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INCREASE CEMENT FACTOR BY 70.5 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 09 Plant Name: BMC1.05.601 Central Supply F-13 @ Alta, WV

Last Inspection: 11/22/2021 Sticker Expires: 5/22/2022 Standard Deviation: 559.67 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->									
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200		
<b>Data Slump Greater than or equal to 2 inches</b>														
1434221	601.002.003		543	496	10	3000	1.604	3.615	508.95	5734	> 4839.85	=	47	
Concrete, Class B					DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26									

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->									
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)		
<b>Data Slump Greater than or equal to 2 inches</b>														
1463335	601.002.003		545	545	12	3000	1.576	3.429	1019.94	4607.43	< 5135.83	<	6497.37	
Concrete, Class B					MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26									

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->									
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200		
<b>Data Slump Greater than or equal to 2 inches</b>														
1465019	601.002.004		594	570.5	21	3500	1.521	3.112	486.43	5173.48	> 5013.77	=	23.5	
Concrete, Class B Modified					DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26									



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 10 Plant Name: BMC1.03.601 Central Supply F-11 @ Princeton, WV

Last Inspection: 11/17/2021 Sticker Expires: 5/17/2022 Standard Deviation: 581.05 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1463301 601.002.003   545 545  
Concrete, Class B

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
10	3000	1.604	3.615	696.17	4116.66 <	4245 <	5516.65
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

District: 10 Plant Name: DHC1.02.601 Central Supply @ Mabscott, WV

Last Inspection: 11/12/2021 Sticker Expires: 5/12/2022 Standard Deviation: 570.92 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1463299 601.002.003   545 498  
Concrete, Class B

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
131	3000	1.5	3	430.87	4733.51 >	4292.61 =	47
DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26							

# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

District: 10 Plant Name: EC11.01.601 Eastern Concrete Pinville WV

Last Inspection: 10/15/2021 Sticker Expires: 4/15/2022 Standard Deviation: 858.33 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->									
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)		
<b>Data Slump Greater than or equal to 2 inches</b>														
1463326	601.002.015		639	639	34	4000	1.5	3	774.71	5162.07	< 5525.88	< 6324.13		
Concrete, Class K					MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26									

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->									
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200		
<b>Data Slump Greater than or equal to 2 inches</b>														
1463327	601.002.022		605	558	12	4500	1.576	3.429	640.19	8415.83	> 6695.21	= 47		
Concrete, Class DC					DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26									

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->									
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)		
<b>Data Slump Greater than or equal to 2 inches</b>														
1463328	601.002.013		631	631	25	4000	1.511	3.055	654.64	4989.16	5330.4	5999.93		
Concrete, Class H					MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H									

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor	<----- Evaluation of Cement Requirements ----->									
					Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)		
<b>Data Slump Greater than or equal to 2 inches</b>														
1465023	601.002.003		564	564	17	3000	1.538	3.202	751.75	4156.19	< 4731.76	< 5407.1		
Concrete, Class B					MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26									



# PCC Plant Evaluation with Cement Factors

Effective Date: 12/17/2021

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1465024	501.002.001		564	564
	Concrete, Pavement			

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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174	3000	1.5	3	907.88	5800.23	> 5723.64	= 0
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 10 Plant Name: EC11.02.601 Eastern Concrete, Beckley, WV

Last Inspection: 09/16/2021 Sticker Expires: 3/16/2022 Standard Deviation: 749.90 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

2002623	601.002.003		564	564
	Concrete, Class B			

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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14	3000	1.557	3.313	887.41	4381.7	< 5150.71	< 5939.99
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 10 Plant Name: JRM1.01.601 Jowar Ready Mix @ laeger, WV

Last Inspection: 09/16/2021 Sticker Expires: 3/16/2022 Standard Deviation: 658.36 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

1463341	601.002.003		615	568
	Concrete, Class B			

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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19	3000	1.528	3.151	658.36	5620	> 5074.49	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26