



# West Virginia Department of Transportation

## PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 01

Plant Name: ERM1.05.601 Heidelberg Materials F-5 @ Winfield, WV

Last Inspection: 02/16/2023

Sticker Expires: 8/16/2023

Standard Deviation: 608.77

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

2000467 601.002.022 **06/24/2023** 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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19 4500 1.528 3.151 783.43 5697.08 < 6515.79 < 6968.59

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 **07/01/2023** 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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22 3000 1.518 3.096 707.42 4073.86 < 4802.27 < 5190.17

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

2000475 601.002.003 **07/01/2023** 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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41 3000 1.5 3 732.41 5400.24 > 5197.23 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

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

2000479	601.002.015 Concrete, Class K	07/02/2023	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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19	4000	1.528	3.151	499.23	4762.82	< 5299.47	< 5573.07
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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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11	3000	1.588	3.51	393.52	6227.27	> 4381.26	= 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

2100852	601.002.013 Concrete, Class H		651	651
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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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35	4000	1.5	3	470.39	4705.58	6310.29	5411.17
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 01

Plant Name: ERM1.07.601 Heidelberg Materials F-7 @ Charleston, WV

Last Inspection: 02/23/2023

Sticker Expires: 8/23/2023

Standard Deviation: 736.53

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

2000472 601.002.003 **07/01/2023** 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 3.27 726.8 4125.81 < 4717.33 < 5376.64

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

2000476 601.002.003 **07/01/2023** 545 545  
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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20 3000 1.525 3.13 835.93 5688.5 > 5616.46 = 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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Data Slump Greater than or equal to 2 inches

2002592 601.002.013 **07/13/2023** 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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13 4000 1.565 3.365 649.43 5016.36 7941.54 6185.33

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

2003494 601.002.004 639 639  
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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10 4000 1.604 3.615 864.31 5386.35 < 5979 < 7124.48

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 01 Plant Name: ERM1.09.601 Heidelberg Materials F-9 @ Winfield, WV (Transi  
 Last Inspection: 02/16/2023 Sticker Expires: 8/16/2023 Standard Deviation: 496.51 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

2002580 601.002.003 07/01/2023 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)
11	3000	1.588	3.51	507.59	3806.05	< 4649.09	< 4781.64
MAINTAIN CURRENT CEMENT FACTOR, 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: 03/02/2023 Sticker Expires: 9/2/2023 Standard Deviation: 590.77 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

2100204 601.002.003 564 564  
 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)
44	3000	1.5	3	641.23	3961.84	< 4828.18	< 4923.69
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

2100389 601.002.013 632 632  
 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)
12	4000	1.576	3.429	328.67	4517.98	6926.67	5127.01
MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H							

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 01

Plant Name: MRM3.01.601 The Wells Group, Winfield WV

Last Inspection: 04/26/2023

Sticker Expires: 10/26/2023

Standard Deviation: 752.53

Rating: A-2

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

2200135	601.002.003 Concrete, Class B		564	587.5
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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( $X$ )	( $F_c+K_1s$ )	( $F_c+K_1s$ )- $X/200$
23	3000	1.515	3.081	949.78	4421.74	< 4438.92	= 23.5
INCREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26							

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 01

Plant Name: RRM1.01.601 The Wells Group, LLC @ Winfield, WV

Last Inspection: 04/26/2023

Sticker Expires: 10/26/2023

Standard Deviation: 710.95

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    **08/09/2022**    543    496  
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
16	3000	1.543	3.233	421.35	4760	> 4362.22	= 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

2002600    601.002.003    **07/30/2023**    546    546  
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)
32	3000	1.5	3	924.47	4386.7	< 5090.62	< 5773.41
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

2002602    601.002.015    **07/30/2023**    635    635  
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)
21	4000	1.521	3.112	655.52	4997.05	< 5141.43	< 6039.98
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 01

Plant Name: VBC1.03.601 The Wells Group @ Robertsburg

Last Inspection: 06/14/2023

Sticker Expires: 12/14/2023

Standard Deviation: 435.56

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

2100207	601.002.003 Concrete, Class B		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength( $F_c$ )	Factor ( $K1$ )	Factor ( $K2$ )	Standard Deviation ( $s$ )	Average Strength( $X$ )	( $F_c+K2s$ )	$X-(F_c+K2s)/200$
17	3000	1.538	3.202	499.66	4680.59	> 4599.91	= 0
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: 8/11/2023

District: 02

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

Last Inspection: 02/22/2023

Sticker Expires: 8/22/2023

Standard Deviation: 664.70

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 Less than 2 inches**

1465018 601.002.015 Concrete, Class K 639 592

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

1465018 601.002.015 Concrete, Class K 639 639

----- 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 4000 1.528 3.151 512.45 6193.42 > 5614.73 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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20 4000 1.525 3.13 522.62 4797 < 5473.75 < 5635.8

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**

1465064 601.002.003 Concrete, Class B 545 498

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

1465064 601.002.003 Concrete, Class B 545 545

----- 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 3.615 416.4 5418.5 > 4505.29 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

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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59 3000 1.5 3 641.08 4956.61 > 4923.24 = 0

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26



# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

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

1465065	601.002.013 Concrete, Class H		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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20	4000	1.525	3.13	510.05	4777.83	6361.75	5596.46
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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

2000414	601.002.022 Concrete, Class DC	05/12/2023	674	650.5
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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
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10	4500	1.604	3.615	470.07	6342.5	> 6199.3	= 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

2003481	601.002.006 Concrete, Class B Mass, Modified		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
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14	4500	1.557	3.313	574.06	6669.64	> 6401.86	= 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: 8/11/2023

District: 02 Plant Name: ERM1.08.601 Heidelberg Materials F-8 @ Huntington, WV  
 Last Inspection: 05/15/2023 Sticker Expires: 11/15/2023 Standard Deviation: 628.78 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

2000477 601.002.003 **07/01/2023** 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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17 3000 1.538 3.202 806.26 4240.03 < 5351.18 < 5581.64

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

2002588 601.002.013 **07/13/2023** 643 643  
 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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17 4000 1.538 3.202 682.34 5049.44 7607.35 6184.85

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

2003495 601.002.004 639 639  
 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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14 4000 1.557 3.313 491.93 4765.94 < 5625 < 5629.76

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 02      Plant Name: LCC1.01.601      The Wells Group F-1 @ Logan, WV  
 Last Inspection: 03/02/2023      Sticker Expires: 9/2/2023      Standard Deviation: 521.55      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

2100203      601.002.003             564      540.5  
 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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34      3000      1.5      3      475.48      4645.59 > 4426.44 = 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

2100381      601.002.015             658      634.5  
 Concrete, Class K

<----- 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      4000      1.576      3.429      503.91      5847.08 > 5727.91 = 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

2100388      601.002.013             632      632  
 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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13      4000      1.565      3.365      718.45      5124.37      5761.54      6417.58

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

2100395      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      447.68      6822.27 > 6071.36 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 02

Plant Name: TWG1.03.601 The Wells Group F-3 @ Wayne, WV

Last Inspection: 05/23/2023

Sticker Expires: 11/23/2023

Standard Deviation: 536.38

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

2100205	601.002.003 Concrete, Class B		564	540.5
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength( $F_c$ )	Factor ( $K1$ )	Factor ( $K2$ )	Standard Deviation ( $s$ )	Average Strength( $X$ )	$(F_c+K2s)$	$X-(F_c+K2s)/200$
12	3000	1.576	3.429	466.42	4746.67	> 4599.35	= 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: 8/11/2023

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

Last Inspection: 12/07/2022 Sticker Expires: 6/7/2023 Standard Deviation: 455.85 Rating: B

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

2100403 601.002.003 [REDACTED] 564 564  
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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52 3000 1.5 3 448.8 3673.2 < 4171.35 < 4346.4

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

2100421 601.002.013 [REDACTED] 632 632  
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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16 4000 1.543 3.233 301.56 4465.31 6437.5 4974.94

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

District: 03 Plant Name: CCC1.02.601 The Wells Group F2 @ Parkersburg, WV

Last Inspection: 02/06/2023 Sticker Expires: 8/6/2023 Standard Deviation: 493.92 Rating: B

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 [REDACTED] 564 540.5  
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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24 3000 1.513 3.067 349.78 4229.58 > 4072.78 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 03 Plant Name: ERM1.06.601 Heidelberg Materials F-6 @ Parkersburg, WV  
 Last Inspection: 03/23/2023 Sticker Expires: 9/23/2023 Standard Deviation: 640.29 Rating: A-2

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

2100551 601.002.003 [REDACTED] 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)
12	3000	1.576	3.429	693.65	4093.19	< 4310	< 5378.53
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

District: 03 Plant Name: SCC1.02.601 Smith Concrete F-2 @ Marietta, OH  
 Last Inspection: 03/18/2022 Sticker Expires: 9/18/2022 Standard Deviation: 853.10 Rating: B

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

1463290 601.002.003 [REDACTED] 564 564  
 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)
17	3000	1.538	3.202	853.1	4312.07	< 5138.82	< 5731.63
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: 8/11/2023

District: 04

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

Last Inspection: 07/07/2023

Sticker Expires: 1/7/2024

Standard Deviation: 593.91

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**

2100409	601.002.003 Concrete, Class B		564	540.5
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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( $X$ )	( $F_c+K_2s$ )	( $F_c+K_2s$ )- $X/200$
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31      3000      1.5      3      539.1      4779.03 > 4617.3 = 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**

2100411	601.002.015 Concrete, Class K		658	681.5
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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( $X$ )	( $F_c+K_1s$ )	( $F_c+K_1s$ )- $X/200$
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33      4000      1.5      3      639.48      4769.39 < 4959.22 = 23.5

INCREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 04

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

Last Inspection: 02/28/2023

Sticker Expires: 8/28/2023

Standard Deviation: 662.91

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 Concrete, Class B		545	545
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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( $X$ )	( $F_c+K_2s$ )
42	3000	1.5	3	674.97	4012.46	< 4837.76	< 5024.91
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

1455036	601.002.022 Concrete, Class DC		671	671
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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( $X$ )	( $F_c+K_2s$ )
18	4500	1.533	3.175	711.15	5590.19	< 6003.5	< 6757.9
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							



# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 04      Plant Name: CSC1.02.601 Central Supply F-2 @ Westover, WV  
 Last Inspection: 02/27/2023      Sticker Expires: 8/27/2023      Standard Deviation: 782.19      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

1434193      601.002.003      07/06/2023      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)
44	3000	1.5	3	818.68	4228.02	< 4972.95	< 5456.04
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

1436404      601.002.015      05/14/2023      636      636  
 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)
13	4000	1.565	3.365	1023.98	5602.53	< 5739.23	< 7445.69
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 04 Plant Name: RDR1.01.601 R.D.R. Energy Resources  
 Last Inspection: 05/01/2023 Sticker Expires: 11/1/2023 Standard Deviation: 626.78 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

2100211 601.002.003   550 550  
 Concrete, Class B

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

Pieces of Data	Design Strength( $F_c$ )	Factor (K1)	Factor (K2)	Standard Deviation (s)	( $F_c+K1s$ )	Average Strength(X)	( $F_c+K2s$ )
34	3000	1.5	3	835.93	4253.89	< 4687.35	< 5507.79
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

2300368 601.002.003   564 540.5  
 Concrete, Class B

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

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
19	3000	1.528	3.151	678.76	5290.53	> 5138.77	= 23.5
DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26							

District: 04 Plant Name: SAC1.01.601 Stone & Company @ Morgantown, WV  
 Last Inspection: 06/30/2023 Sticker Expires: 12/30/2023 Standard Deviation: 748.42 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

2100405 601.002.003 05/18/2023 564 540.5  
 Concrete, Class B

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

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
57	3000	1.5	3	855.15	5785.09	> 5565.45	= 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: 8/11/2023

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

Last Inspection: 03/28/2023 Sticker Expires: 9/28/2023 Standard Deviation: 678.48 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**

2100408 601.002.014 [REDACTED] 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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15 4000 1.549 3.27 711.61 7319.33 > 6326.96 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

District: 05 Plant Name: FCC1.05.601 Allegany Concrete F-5 W Short Gap WV (Transit

Last Inspection: 04/13/2023 Sticker Expires: 10/13/2023 Standard Deviation: 639.73 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**

1463284 601.002.013 [REDACTED] 645 645  
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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10 4000 1.604 3.615 456.81 4732.72 7962.6 5651.37

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 05

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

Last Inspection: 03/13/2023

Sticker Expires: 9/13/2023

Standard Deviation: 802.80

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 Less than 2 inches**

2000432 601.002.003 **06/23/2022** 563 563  
Concrete, Class B

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

2000432 601.002.003 **06/23/2022** 563 516  
Concrete, Class B

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

Pieces of Data	Design Strength( $F_c$ )	Factor ( $K1$ )	Factor ( $K2$ )	Standard Deviation ( $s$ )	( $F_c+K1s$ )	Average Strength( $X$ )	( $F_c+K2s$ )
15	3000	1.549	3.27	1111.51	4721.73	< 6395.33	< 6634.64

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Pieces of Data	Design Strength( $F_c$ )	Factor ( $K1$ )	Factor ( $K2$ )	Standard Deviation ( $s$ )	Average Strength( $X$ )	( $F_c+K2s$ )	$X - (F_c+K2s)/200$
45	3000	1.5	3	742.12	6328.73	> 5226.36	= 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: 8/11/2023

District: 06

Plant Name: ERM1.04.601 Heidelberg Materials F-4 @ McMechen WV

Last Inspection: 11/10/2022

Sticker Expires: 5/10/2023

Standard Deviation: 586.91

Rating: B

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

2000444	601.002.003 Concrete, Class B	04/08/2023	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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11      3000      1.588      3.51      710.78      4128.72 < 5039.09 < 5494.84

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)
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17      3000      1.538      3.202      669.14      4029.14 < 4169.41 < 5142.59

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 06

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

Last Inspection: 03/15/2023

Sticker Expires: 9/15/2023

Standard Deviation: 635.15

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

1463293 601.002.004   750 703  
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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33 5000 1.5 3 511.43 7089.39 > 6534.29 = 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

1463329 601.002.003   564 540.5  
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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68 3000 1.5 3 816.97 5748.24 > 5450.91 = 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

1463331 601.002.015   06/12/2023 658 658  
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 5300 1.565 3.365 478.13 6048.27 < 6235.38 < 6908.91

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

2100560 601.002.014   750 703  
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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28 5000 1.505 3.024 636.97 8412.14 > 6926.2 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

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

2300375	601.002.004		750	750
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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11	5000	1.588	3.51	894.69	6420.77	< 7606.36	< 8140.36
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 06

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

Last Inspection: 04/06/2023

Sticker Expires: 10/6/2023

Standard Deviation: 715.89

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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29	3000	1.503	3.016	525.82	5755.17	> 4585.87	= 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

2100210	601.002.004		658	658
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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17	4500	1.538	3.202	969.63	5991.29	< 7084.71	< 7604.76
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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: 8/11/2023

**District:** 07      **Plant Name:** ACX1.01.601 Central Supply F-8 @ Buckhannon  
**Last Inspection:** 02/28/2023      **Sticker Expires:** 8/28/2023      **Standard Deviation:** 658.00      **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**

1434200	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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11	3000	1.588	3.51	903.7	4435.08	< 4877.27	< 6171.99
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26
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**District:** 07      **Plant Name:** CSC1.04.601 Central Supply F-4 @ Gassaway, WV  
**Last Inspection:** 03/02/2023      **Sticker Expires:** 9/2/2023      **Standard Deviation:** 545.75      **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		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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26	3000	1.508	3.044	592.15	3892.96	< 4493.08	< 4802.5
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MAINTAIN CURRENT CEMENT FACTOR, 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: 8/11/2023

District: 08 Plant Name: CSC1.03.601 Central Supply F-3 @ Elkins, WV

Last Inspection: 03/01/2023 Sticker Expires: 9/1/2023 Standard Deviation: 633.28 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	03/05/2023	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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18 3000 1.533 3.175 544.63 5200.56 > 4729.2 = 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 Less than 2 inches**

1436389	601.002.015 Concrete, Class K		636	612.5
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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
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29 4000 1.503 3.016 645.89 6203.1 > 5948 = 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**

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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30 4000 1.501 3.008 845.12 5268.53 < 6145 < 6542.12

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

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

1436443	601.002.013 Concrete, Class H	07/17/2023	628	628
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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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16	4000	1.543	3.233	494.16	4762.49	6640.62	5597.62
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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

1459834	601.002.004 Concrete, Class B Modified		636	612.5
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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
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10	4000	1.604	3.615	461.71	5818	> 5669.08	= 23.5
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DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

District: 08 Plant Name: CSC1.16.601 Central Supply F-16 @ Parsons, WV

Last Inspection: 03/01/2023 Sticker Expires: 9/1/2023 Standard Deviation: 449.18 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

1465021	601.002.013 Concrete, Class H	07/17/2023	345	345
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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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21	4000	1.521	3.112	463	4704.22	6424.76	5440.86
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

District: 08

Plant Name: FCC1.06.601 Fairfax Materials @ Parsons, WV

Last Inspection: 03/27/2023

Sticker Expires: 9/27/2023

Standard Deviation: 455.24

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

2100840 601.002.004   555 555  
Concrete, Class B Modified

<----- 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( $X$ )	( $F_c+K_2s$ )
27	4000	1.507	3.034	675.86	5018.52	< 5029.63	< 6050.56
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

2200183 601.002.004   564 564  
Concrete, Class B Modified

<----- 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( $X$ )	( $F_c+K_2s$ )
19	4000	1.528	3.151	302.09	4461.59	< 4883.16	< 4951.89
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: 8/11/2023

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

Last Inspection: 05/10/2023 Sticker Expires: 11/10/2023 Standard Deviation: 657.43 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

1434221 601.002.003 04/01/2023 543 496  
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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31 3000 1.5 3 789.77 6157.1 > 5369.31 = 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

1463335 601.002.003 04/30/2022 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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27 3000 1.507 3.034 742.59 4119.08 < 5067.78 < 5253.02

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

2200103 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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18 3000 1.533 3.175 504.04 5371.11 > 4600.33 = 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: 8/11/2023

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

Last Inspection: 05/17/2023 Sticker Expires: 11/17/2023 Standard Deviation: 607.27 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

1432575 601.002.003 06/06/2022 543 496  
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 3.615 305.51 5330 > 4104.42 = 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

1463301 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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23 3000 1.515 3.081 731.45 4108.15 < 4448.26 < 5253.6

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

2200112 601.002.003 564 564  
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 3.27 731.67 4133.36 < 4361.33 < 5392.56

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

# PCC Plant Evaluation with Cement Factors

Effective Date: 8/11/2023

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

2200142	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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13	3000	1.565	3.365	312.93	4806.15	> 4053.01	= 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

2200156	601.002.013		632	632
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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10	4000	1.604	3.615	603.59	4968.16	6275	6181.98
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

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

Last Inspection: 05/18/2023 Sticker Expires: 11/18/2023 Standard Deviation: 419.40 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

1463299	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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43	3000	1.5	3	462.91	3694.36	< 4175.35	< 4388.73
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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: 8/11/2023

District: 10 Plant Name: ECI1.01.601 Eastern Concrete Pinville WV  
 Last Inspection: 04/26/2022 Sticker Expires: 10/26/2022 Standard Deviation: 562.72 Rating: B

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

1463324 601.002.003 [REDACTED] 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 3.615 562.02 5418 > 5031.7 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

District: 10 Plant Name: JRM1.01.601 Jowar Ready Mix @ laeger, WV  
 Last Inspection: 03/28/2023 Sticker Expires: 9/28/2023 Standard Deviation: 568.12 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

1463341 601.002.003 [REDACTED] 615 591.5  
 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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29 3000 1.503 3.016 547.19 4909.31 > 4650.33 = 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

2000463 601.002.013 07/23/2023 632 632  
 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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12 4000 1.576 3.429 359.6 4566.73 5772.5 5233.07

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H