



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

District: 01

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

Last Inspection: 08/11/2023

Sticker Expires: 2/11/2024

Standard Deviation: 632.25

Rating: A-1

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

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

14 4500 1.557 3.313 846.57 5818.11 < 6600.71 < 7304.69

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

23 3000 1.515 3.081 677.1 4025.81 < 4802.61 < 5086.15

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
-------------------	------------------------------	--------------	------------------------	------------------------

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

40 3000 1.5 3 722.22 5341.75 > 5166.66 = 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: 10/19/2023

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

Data Slump Greater than or equal to 2 inches

2000479	601.002.015 Concrete, Class K	07/02/2023	639	639
---------	----------------------------------	------------	-----	-----

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

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

22	4000	1.518	3.096	541.86	4822.54	< 5240.91	< 5677.6
----	------	-------	-------	--------	---------	-----------	----------

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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2002586	601.002.013 Concrete, Class H		648	648
---------	----------------------------------	--	-----	-----

<----- 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	4000	1.588	3.51	689.87	5095.51	8017.27	6421.44
----	------	-------	------	--------	---------	---------	---------

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

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

Data Slump Greater than or equal to 2 inches

2100842	601.002.003 Concrete, Class B		600	553
---------	----------------------------------	--	-----	-----

<----- 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

12	3000	1.576	3.429	742.78	5862.5	> 5546.99	= 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2100852	601.002.013 Concrete, Class H		651	651
---------	----------------------------------	--	-----	-----

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

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

41	4000	1.5	3	456.26	4684.39	6264.63	5368.78
----	------	-----	---	--------	---------	---------	---------

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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

Data Slump Greater than or equal to 2 inches

2300378	601.002.003 Concrete, Class B		564	564
---------	----------------------------------	--	-----	-----

<----- 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	773.25	4218.64	< 4435	< 5651.47
----	------	-------	-------	--------	---------	--------	-----------

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 01

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

Last Inspection: 08/22/2023

Sticker Expires: 2/22/2024

Standard Deviation: 759.07

Rating: A-1

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

Data Slump Greater than or equal to 2 inches

2000472	601.002.003 Concrete, Class B	07/01/2023	545	545
---------	----------------------------------	------------	-----	-----

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

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

14	3000	1.557	3.313	778.08	4211.47	< 4749.29	< 5577.78
----	------	-------	-------	--------	---------	-----------	-----------

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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2002592	601.002.013 Concrete, Class H	07/13/2023	648	648
---------	----------------------------------	------------	-----	-----

<----- 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	649.43	5016.36	7941.54	6185.33
----	------	-------	-------	--------	---------	---------	---------

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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: 574.85 Rating: B

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

Data Slump Greater than or equal to 2 inches

2100204 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)
13	3000	1.565	3.365	692.64	4083.98	< 4701.54	< 5330.73
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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

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

District: 01 Plant Name: MRM3.01.601 The Wells Group, Winfield WV
 Last Inspection: 04/26/2023 Sticker Expires: 10/26/2023 Standard Deviation: 721.96 Rating: A-2

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

Data Slump Greater than or equal to 2 inches

2200135 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)
33	3000	1.5	3	834.84	4252.26	< 4575.76	< 5504.52
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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: 732.14

Rating: A-1

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

Data Slump Greater than or equal to 2 inches

2002600	601.002.003 Concrete, Class B	07/30/2023	546	546
---------	----------------------------------	------------	-----	-----

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

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
29	3000	1.503	3.016	902.33	4356.2	< 5141.72	< 5721.43
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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2002602	601.002.015 Concrete, Class K	07/30/2023	635	635
---------	----------------------------------	------------	-----	-----

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

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
18	4000	1.533	3.175	637.39	4977.12	< 5139.44	< 6023.71
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: 10/19/2023

District: 02

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

Last Inspection: 08/23/2023

Sticker Expires: 2/23/2024

Standard Deviation: 652.22

Rating: A-1

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

Data Slump Less than 2 inches

1465018	601.002.015 Concrete, Class K		639	592
---------	----------------------------------	--	-----	-----

<----- 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

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

Data Slump Greater than or equal to 2 inches

1465018	601.002.015 Concrete, Class K		639	639
---------	----------------------------------	--	-----	-----

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

19 4000 1.528 3.151 599.73 4916.39 < 5309.74 < 5889.75

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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

1465064	601.002.003 Concrete, Class B		545	498
---------	----------------------------------	--	-----	-----

<----- 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

37 3000 1.5 3 427.03 5263.92 > 4281.09 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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

Data Slump Greater than or equal to 2 inches

1465065	601.002.013 Concrete, Class H		636	636
---------	----------------------------------	--	-----	-----

<----- 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)
----------------	--------------------------	------------------	------------------	------------------------	----------------	-------------------------	----------------

37	4000	1.5	3	675.02	5012.53	6297.03	6025.06
----	------	-----	---	--------	---------	---------	---------

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

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

Data Slump Greater than or equal to 2 inches

2000414	601.002.022 Concrete, Class DC		674	674
---------	-----------------------------------	--	-----	-----

<----- 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)
----------------	--------------------------	------------------	------------------	------------------------	----------------	-------------------------	----------------

17	4500	1.538	3.202	791.75	5717.71	< 6156.18	< 7035.18
----	------	-------	-------	--------	---------	-----------	-----------

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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2003481	601.002.006 Concrete, Class B Mass, Modified		564	517
---------	---	--	-----	-----

<----- 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)	$X - (F_c+K_2s)/200$
----------------	--------------------------	------------------	------------------	------------------------	-------------------------	----------------	----------------------

16	4500	1.543	3.233	549.93	6622.19	> 6277.92	= 47
----	------	-------	-------	--------	---------	-----------	------

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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: 603.89 Rating: A-1

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

Data Slump Greater than or equal to 2 inches

2000473 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 3.51 877.99 4394.25 < 5205.45 < 6081.74

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

17 4000 1.538 3.202 539.33 4829.49 < 5427.94 < 5726.93

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

District: 02

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

Last Inspection: 09/07/2023

Sticker Expires: 3/7/2024

Standard Deviation: 542.41

Rating: A-1

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

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

31 3000 1.5 3 491.71 4644.19 > 4475.13 = 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2100381 601.002.015 658 658
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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

15 4000 1.549 3.27 574.06 4889.22 < 5673 < 5877.18

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

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
-------------------	------------------------------	--------------	------------------------	------------------------

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

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



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

District: 03 Plant Name: CCC1.01.601 The Wells Group F1 @ Ravenswood, WV
 Last Inspection: 06/05/2023 Sticker Expires: 12/5/2023 Standard Deviation: 462.25 Rating: A-1

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

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

35 3000 1.5 3 466.49 3699.74 < 4143.14 < 4399.47

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

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: 08/16/2023 Sticker Expires: 2/16/2024 Standard Deviation: 609.85 Rating: A-2

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

Data Slump Greater than or equal to 2 inches

2100404 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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

42 3000 1.5 3 603.28 3904.92 < 4023.57 < 4809.84

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

1463290	601.002.003 Concrete, Class B		564	564
---------	----------------------------------	--	-----	-----

<----- 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)
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: 10/19/2023

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: 603.98

Rating: A-1

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

Data Slump Greater than or equal to 2 inches

2100409 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

17 3000 1.538 3.202 491.96 4800 > 4575.26 = 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2100411 601.002.015 658 705
Concrete, Class K

<----- 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

27 4000 1.507 3.034 599.03 4692.22 < 4902.74 = 47

INCREASE 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2200178 601.002.014 07/18/2023 632 632
Concrete, Class H 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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

11 4000 1.588 3.51 691.44 5098.01 < 5900.91 < 6426.95

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

District: 04 Plant Name: CSC1.01.601 Central Supply F-1 @ Saltwell, WV
 Last Inspection: 08/28/2023 Sticker Expires: 2/28/2024 Standard Deviation: 687.86 Rating: A-1

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

Data Slump Greater than or equal to 2 inches

1434199 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)
38	3000	1.5	3	682.82	4024.23	< 4797.18	< 5048.46
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

District: 04 Plant Name: CSC1.02.601 Central Supply F-2 @ Westover, WV
 Last Inspection: 08/24/2023 Sticker Expires: 2/24/2024 Standard Deviation: 820.05 Rating: A-1

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

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
11	4000	1.588	3.51	1076.72	5709.83	< 5746.36	< 7779.29
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

District: 04

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

Last Inspection: 05/01/2023

Sticker Expires: 11/1/2023

Standard Deviation: 608.23

Rating: A-1

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

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 (K_1)	Factor (K_2)	Standard Deviation (s)	(F_c+K_1s)	Average Strength(X)	(F_c+K_2s)
16	3000	1.543	3.233	823.51	4270.68	< 5261.25	< 5662.41

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
-------------------	------------------------------	--------------	------------------------	------------------------

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 (K_1)	Factor (K_2)	Standard Deviation (s)	Average Strength(X)	(F_c+K_2s)	$X - (F_c+K_2s)/200$
27	3000	1.507	3.034	660.77	5110	> 5004.78	= 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: 10/19/2023

District: 04

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

Last Inspection: 06/30/2023

Sticker Expires: 12/30/2023

Standard Deviation: 747.50

Rating: A-1

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

Data Slump Greater than or equal to 2 inches

2100405	601.002.003 Concrete, Class B	05/18/2023	564	517
---------	----------------------------------	------------	-----	-----

<----- 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
39	3000	1.5	3	900.26	6046.41	> 5700.78	= 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2301352	601.002.003 Concrete, Class B		564	517
---------	----------------------------------	--	-----	-----

<----- 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
12	3000	1.576	3.429	592.43	6363.33	> 5031.44	= 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: 10/19/2023

District: 05

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

Last Inspection: 09/13/2023

Sticker Expires: 3/13/2024

Standard Deviation: 758.99

Rating: A-1

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

Data Slump Greater than or equal to 2 inches

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

<----- 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)	$X-(F_c+K_2s)/200$
----------------	--------------------------	------------------	------------------	----------------------------	-------------------------	----------------	--------------------

38 3000 1.5 3 686.13 6472.53 > 5058.39 = 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: 10/19/2023

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: 609.28

Rating: B

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

Data Slump Greater than or equal to 2 inches

2000444	601.002.003 Concrete, Class B	04/08/2023	564	564
---------	----------------------------------	------------	-----	-----

<----- 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	680.39	4072.29	< 5021.67	< 5333.06
----	------	-------	-------	--------	---------	-----------	-----------

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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2100549	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)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

12	3000	1.576	3.429	631.95	3995.95	< 4160	< 5166.96
----	------	-------	-------	--------	---------	--------	-----------

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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: 727.93

Rating: B

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

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
12	5000	1.576	3.429	430.82	6999.17	> 6477.28	= 47
DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26							

Data Slump Greater than or equal to 2 inches

1463293 601.002.004 750 703
Concrete, Class B Modified

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
12	5000	1.576	3.429	430.82	6999.17	> 6477.28	= 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

1463329 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)
30	3000	1.501	3.008	1051.39	4578.14	< 5498.67	< 6162.58
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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
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							

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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

Data Slump Greater than or equal to 2 inches

2000443	601.002.004		573	526
	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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

12	4000	1.576	3.429	636.83	6517.5	> 6183.69	= 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Less than 2 inches

2100560	601.002.014		750	750
	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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

13	5000	1.565	3.365	788.91	7754.62	> 7654.68	= 0
----	------	-------	-------	--------	---------	-----------	-----

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Data Slump Greater than or equal to 2 inches

2100560	601.002.014		750	703
	Concrete, Class H Modified			

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

43	5000	1.5	3	903.07	8220.93	> 7709.21	= 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Less than 2 inches

2300375	601.002.004		750	726.5
	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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

11	5000	1.588	3.51	775.65	7841.82	> 7722.53	= 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

2300375	601.002.004		750	750
	Concrete, Class B Modified			

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

47	5000	1.5	3	919.1	6378.65	< 7725.11	< 7757.3
----	------	-----	---	-------	---------	-----------	----------

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

District: 06

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

Last Inspection: 10/02/2023

Sticker Expires: 4/2/2024

Standard Deviation: 706.81

Rating: A-1

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

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

23 3000 1.515 3.081 495.47 5836.96 > 4526.54 = 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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

12 4500 1.576 3.429 1036.79 6133.98 < 7265 < 8055.15

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: 10/19/2023

District: 07

Plant Name: ACX1.01.601 Central Supply F-8 @ Buckhannon, WV

Last Inspection: 08/28/2023

Sticker Expires: 2/28/2024

Standard Deviation: 688.40

Rating: A-1

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

Data Slump Greater than or equal to 2 inches

1434200	601.002.003 Concrete, Class B		545	545
---------	----------------------------------	--	-----	-----

<----- 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)
----------------	--------------------------	------------------	------------------	----------------------------	----------------	-------------------------	----------------

14	3000	1.557	3.313	695.47	4082.85	< 5107.14	< 5304.09
----	------	-------	-------	--------	---------	-----------	-----------

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: 10/19/2023

District: 08

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

Last Inspection: 09/01/2023

Sticker Expires: 3/1/2024

Standard Deviation: 593.71

Rating: A-1

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

Data Slump Greater than or equal to 2 inches

1434201	601.002.003 Concrete, Class B	03/05/2023	545	521.5
---------	----------------------------------	------------	-----	-------

<----- 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

10 3000 1.604 3.615 583.11 5338 > 5107.94 = 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Less than 2 inches

1436389	601.002.015 Concrete, Class K		636	589
---------	----------------------------------	--	-----	-----

<----- 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

27 4000 1.507 3.034 640.01 6244.07 > 5941.79 = 47

DECREASE CEMENT FACTOR BY 47 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	612.5
---------	----------------------------------	--	-----	-------

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

15 4000 1.549 3.27 699.91 6529.33 > 6288.71 = 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: 10/19/2023

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

Data Slump Greater than or equal to 2 inches

1436443	601.002.013 Concrete, Class H	07/17/2023	628	628
---------	----------------------------------	------------	-----	-----

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

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

16	4000	1.543	3.233	494.16	4762.49	6640.62	5597.62
----	------	-------	-------	--------	---------	---------	---------

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

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

Data Slump Less than 2 inches

2301343	601.002.015 Concrete, Class K		618	571
---------	----------------------------------	--	-----	-----

<----- 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

11	4000	1.588	3.51	350.21	5773.64	> 5229.24	= 47
----	------	-------	------	--------	---------	-----------	------

DECREASE CEMENT FACTOR BY 47 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: 463.00 Rating: B

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

Data Slump Greater than or equal to 2 inches

1465021	601.002.013 Concrete, Class H	07/17/2023	345	345
---------	----------------------------------	------------	-----	-----

<----- 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	463	4704.22	6424.76	5440.86
----	------	-------	-------	-----	---------	---------	---------

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

District: 08

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

Last Inspection: 03/27/2023

Sticker Expires: 9/27/2023

Standard Deviation: 405.61

Rating: B

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

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(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
28	4000	1.505	3.024	477.26	4718.28	< 4777.86	< 5443.23

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
-------------------	------------------------------	--------------	------------------------	------------------------

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(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
11	4000	1.588	3.51	257.13	4408.32	< 4491.82	< 4902.53

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: 10/19/2023

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: 660.12 Rating: A-1

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

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

26 3000 1.508 3.044 755.1 4138.69 < 5056.92 < 5298.52

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
-------------------	------------------------------	--------------	------------------------	------------------------

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

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: 10/19/2023

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: 594.22 Rating: A-1

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

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

15 3000 1.549 3.27 762.54 4181.17 < 4674.67 < 5493.51

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
-------------------	------------------------------	--------------	------------------------	------------------------

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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

10 3000 1.604 3.615 544.47 3873.33 < 4296 < 4968.26

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

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

Data Slump Greater than or equal to 2 inches

2200142	601.002.003 Concrete, Class B		564	517
---------	----------------------------------	--	-----	-----

<----- 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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

13	3000	1.565	3.365	313.67	4780.77	> 4055.5	= 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2200156	601.002.013 Concrete, Class H		632	632
---------	----------------------------------	--	-----	-----

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

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

18	4000	1.533	3.175	791.45	5213.29	6634.44	6512.85
----	------	-------	-------	--------	---------	---------	---------

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: 367.32 Rating: A-1

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

Data Slump Greater than or equal to 2 inches

1463299	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)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

20	3000	1.525	3.13	532.04	3811.36	< 4005.5	< 4665.29
----	------	-------	------	--------	---------	----------	-----------

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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2200167	601.002.013 Concrete, Class H		632	632
---------	----------------------------------	--	-----	-----

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

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

10	4000	1.604	3.615	258.79	4415.1	7368	4935.53
----	------	-------	-------	--------	--------	------	---------

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

PCC Plant Evaluation with Cement Factors

Effective Date: 10/19/2023

District: 10 Plant Name: ECI1.01.601 Eastern Concrete Pinville WV
 Last Inspection: 04/26/2022 Sticker Expires: 10/26/2022 Standard Deviation: 411.58 Rating: B

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

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

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: 09/28/2023 Sticker Expires: 3/28/2024 Standard Deviation: 484.84 Rating: A-1

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

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
----------------	---------------------	-------------	-------------	------------------------	---------------------	----------	----------------

28 3000 1.505 3.024 534 4800.71 > 4614.82 = 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
-------------------	------------------------------	--------------	------------------------	------------------------

Data Slump Greater than or equal to 2 inches

2000463 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)
----------------	---------------------	-------------	-------------	------------------------	----------	---------------------	----------

12 4000 1.576 3.429 359.6 4566.73 5772.5 5233.07

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H