

SCDOT Concrete Technician Certification

Form 700.04

Tutorial

Form 700.04 is a comprehensive form, which includes:

- ▶ Specifications
- ▶ Math calculations, such as percentage
- ▶ Moisture Adjustment
- ▶ Saturated Surface Dry (SSD)
- ▶ Specific Gravity
- ▶ Etc.



SCDOT Form 700.04

- ▶ Form 700.04 is the reporting form for **ready mix concrete** batches. It is used for QC/QA purposes in recording and monitoring:
 - concrete origin, load, placing, time on site and mixing information
 - concrete slump and air content
 - actual concrete mix versus design proportions
 - water and admixture proportions and history

Form 700.04 is published by the SCDOT Office of Materials and Research in Columbia, SC.

For more information, contact:

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Form 700.04

Unique ID:

Status:

File No:

Class:

Plant Location:

Plant Inspector:

READY MIX CONCRETE REPORT

Date:

Load No:

Cubic Yards:

Cumulative CY:

Project No:

Date and Time Mixing Began:

Revs at Plant Mixing Speed:

Truck No:

Max Water Allowed in Mix: gal. lbs.



Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights			Meets Range					
		-	+	Low	High	Batch 1	Batch 2	Sum						
Cement, lbs.	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	%	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes	Total lbs. Water in Load			
Fly Ash, lbs.	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	%	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes				
Silica Fume, lbs.	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	%	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes				
Total Cem. Matl	<input type="text"/>			<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes	Free Moisture %	SSD Weight	Free Aggr Moisture	
Aggregate (1), lbs.	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	%	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes	<input type="text"/> %	<input type="text"/>	<input type="text"/>	
Aggregate (2), lbs.	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	%	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes	<input type="text"/> %	<input type="text"/>	<input type="text"/>	
Aggregate (3), lbs.	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	%	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes	<input type="text"/> %	<input type="text"/>	<input type="text"/>	
Total (1)+(2)+(3)	<input type="text"/>			<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
Crr. Inhib. gal.	<input type="text"/>			<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		32 oz./gal.	(DCI Only)		
Meter Water, gal.	<input type="text"/>			<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		Truck Wash Water:	<input type="text"/> gal.	<input type="text"/>	
Meter Water, lbs.	<input type="text"/>			<input type="text"/>	* Rate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		Meter Water, lbs.	<input type="text"/>	<input type="text"/>	
Air Ent. Agent, oz.	<input type="text"/>			<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		Water Held at Plant	<input type="text"/> gal. <input type="text"/> lbs.	<input type="text"/>	
Water Reducer, oz.	<input type="text"/>			<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		Total Water at Plant	<input type="text"/>	<input type="text"/>	
Water Red/Retarder, oz.	<input type="text"/>			<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		1st Water Added at Site:	<input type="text"/> gal.	<input type="text"/>	
									Adjusted for Overweight			2nd Water Added at Site:	<input type="text"/> gal.	<input type="text"/>
									No <input type="text"/>			Total Water in Load	<input type="text"/>	<input type="text"/>

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = / =

W/C Ratio = / =

Date and Time Truck Finished Unloading:

Field Inspector:

Pour Location:

Slump:

ID No:

Mixing Revs at Site:

Entrained Air:

Concrete Temp at Placement: F

Revs After Site Added Water:

Mixing Time After Adding Admixture: minutes

Cylinders Made: No

Admixture Added at Site:

Total oz.: oz./100 lbs.



Form 700.04

Unique ID: []

Status: []

File No: []

Class: []

Plant Location: []

Plant Inspector: []

READY MIX CONCRETE REPORT



Date: []

Load No: []

Cubic Yards: []

Cumulative CY: []

Project No: []

Date and Time Mixing Began: []

Revs at Plant Mixing Speed: []

Truck No: []

Max Water Allowed in Mix: [] gal. [] lbs.

Description	Total Weight	Tolerance	Total Wgt Range		Actual Batch Weights			Meets Range	Free Moisture %	SD Weight	Free Aggr Moisture
			Low	High	Batch 1	Batch 2	Sum				
Project Number											Total lbs. Water in Load
Date											
Concrete Class											
Load Number											
Load Size											
Accumulated Load Size											
Truck Number											
Time Mixing Began											
Mixing Speed											
Batch Origin (Plant)											
Plant Inspector											
Slump											
Entrained Air											
Concrete Temp at Placement											
Revs After Site Added Water											
Mixing Time After Adding Admixture											
Cylinders Made											
Admixture Added at Site											
Total oz.											

Basic Batch Information

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = [] / [] = [] as Batched

W/C Ratio = [] / [] = [] as Placed

Slump: []

ID No: []

Mixing Revs at Site: []

Entrained Air: []

Concrete Temp at Placement: [] F

Revs After Site Added Water: []

Mixing Time After Adding Admixture: [] minutes

Cylinders Made: No

Admixture Added at Site: []

Total oz.: [] oz./100 lbs.

Date and Time Truck Finished Unloading: []

Field Inspector: []

Pour Location: []



Form 700.04

Unique ID:

Status:

File No:

Class:

Plant Location:

Plant Inspector:

READY MIX CONCRETE REPORT



Date:

Load No:

Cubic Yards:

Cumulative CY:

Project No:

Date and Time Mixing Began:

Revs at Plant Mixing:

Speed:

Truck No:

Mix: gal.

lbs.

Required Mix Proportions from Batch Chart

- Cement
- Fly Ash
- Silica Fume
- Aggregate
- Water

Materials	Total Weight	Tolerance		T	Low	High	Batch 1	Batch 2	Sum	Meets Range	Total lbs. Water in Load		
		-	+								%	Free Moisture %	SSD Weight
Cement, lbs.		<input type="checkbox"/>	<input type="checkbox"/>							Yes			
Fly Ash, lbs.		<input type="checkbox"/>	<input type="checkbox"/>							Yes			
Silica Fume, lbs.		<input type="checkbox"/>	<input type="checkbox"/>							Yes			
Total Cem. Matl										Yes	Free Moisture %	SSD Weight	Free Aggr Moisture
Aggregate (1), lbs.		<input type="checkbox"/>	<input type="checkbox"/>							Yes	%		
Aggregate (2), lbs.		<input type="checkbox"/>	<input type="checkbox"/>							Yes	%		
Aggregate (3), lbs.		<input type="checkbox"/>	<input type="checkbox"/>							Yes	%		
Total (1)+(2)+(3)													
Crr. Inhib. gal.										32 oz./gal.		(DCI Only)	
Meter Water, gal.										Truck Wash Water:	gal.		
Meter Water, lbs.													
Air Ent. Agent, oz.											Water Held at Plant	gal.	lbs.
Water Reducer, oz.												Total Water at Plant	
Water Red/Retarder, oz.												Added at Site:	gal.
												Adjusted for Overweight:	gal.
												and Water Added at Site:	gal.
												Total Water in Load	



• Admixtures

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = / = as Batched

W/C Ratio = / = as Placed

Slump:

ID No:

Mixing Revs at Site:

Entrained Air:

Concrete Temp at Placement: F

Revs After Site Added Water:

Mixing Time After Adding Admixture: minutes

Cylinders Made: No

Admixture Added at Site:

Total oz.: oz./100 lbs.

Date and Time Truck Finished Unloading:

Field Inspector:

Pour Location:



Batch Chart

Date		SCDOT Office of Materials and Research										PAGE 2		
October 21, 2013		Concrete Mix Design												
TYPE OF C. A.		Class 4000 Concrete												
CRUSHED STONE														
SPECIFIC GRAVITY		MOISTURE(%)		PERCENT(%)AGGREGATE				SAND PERCENT MOISTURE (%)						
F.A.:	2.62	N/A						SAND (LBS)						
C.A.:	2.65	0.50						CUMULATIVE AGGR. WT.						
S.F.:	2.20	N/A		F.A. 35.00%				WATER (LBS)						
I.A.:	0.00	0.00		C.A. 65.00%				WATER (GALLONS)						
DCI	1.30	N/A		I.A. 0.00%										
C.Y.	CEM 1	CEM 2	S.FUME	DCI	OTHER	CAWT	IAWT	3%	4%	5%	6%	7%	8%	9%
9	5580	0	0	0	0	18138	0	9896	9992	10088	10184	10280	10376	10473
	CEM1+CEM2					CAW+IAW		28034	28130	28226	28322	28418	28514	28610
	5580					18138		1854	1757	1661	1565	1469	1373	1277
								222	211	199	188	176	165	153
8	4960	0	0	0	0	16122	0	8796	8882	8967	9053	9138	9223	9309
	CEM1+CEM2					CAW+IAW		24919	25004	25090	25175	25260	25346	25431
	4960					16122		1648	1562	1477	1391	1306	1221	1135
								198	187	177	167	157	146	136
7	4340	0	0	0	0	14107	0	7697	7772	7846	7921	7996	8071	8145
	CEM1+CEM2					CAW+IAW		21804	21879	21953	22028	22103	22178	22252
	4340					14107		1442	1367	1292	1217	1143	1068	993
								173	164	155	146	137	128	119
6	3720	0	0	0	0	12092	0	6597	6661	6725	6790	6854	6918	6982
	CEM1+CEM2					CAW+IAW		18669	18753	18837	18921	18994	19079	19162
	3720					12092		1236	1172	1108	1044	979	915	851
								148	141	133	125	118	110	102
5	3100	0	0	0	0	10076	0	5498	5551	5605	5658	5711	5765	5818
	CEM1+CEM2					CAW+IAW		15574	15628	15681	15734	15788	15841	15895
	3100					10076		1030	976	923	870	816	763	709
								124	117	111	104	98	92	85
4	2480	0	0	0	0	8061	0	4398	4441	4484	4526	4569	4612	4654
	CEM1+CEM2					CAW+IAW		12459	12502	12545	12587	12630	12673	12716
	2480					8061		824	781	738	696	653	610	568
								99	94	89	83	78	73	68
3	1860	0	0	0	0	6046	0	3299	3331	3363	3395	3427	3459	3491
	CEM1+CEM2					CAW+IAW		9345	9377	9409	9441	9473	9505	9537
	1860					6046		618	586	554	522	490	458	426
								74	70	66	63	59	55	51
2	1240	0	0	0	0	4031	0	2199	2220	2242	2263	2285	2306	2327
	CEM1+CEM2					CAW+IAW		6230	6251	6272	6294	6315	6336	6358
	1240					4031		412	391	369	348	326	305	284
								49	47	44	42	39	37	34
1	620	0	0	0	0	2015	0	1100	1110	1121	1132	1142	1153	1164
	CEM1+CEM2					CAW+IAW		3115	3126	3136	3147	3158	3168	3179
	620					2015		206	195	185	174	163	153	142
								25	23	22	21	20	18	17
0.75	465	0	0	0.00	0	1511	0	825	833	841	849	857	865	873
	CEM1+CEM2					CAW+IAW		2336	2344	2352	2360	2368	2376	2384
	465					1511		154	146	138	130	122	114	108
								19	18	17	16	15	14	13
0.50	310	0	0	0.00	0	1008	0	550	555	560	566	571	576	582
	CEM1+CEM2					CAW+IAW		1557	1563	1569	1573	1579	1584	1589
	310					1008		103	98	92	87	82	76	71
								12	12	11	10	10	9	9
0.25	155	0	0	0.00	0	504	0	275	278	280	283	286	288	291
	CEM1+CEM2					CAW+IAW		779	781	784	787	789	792	795
	155					504		51	49	46	43	41	38	35
								6	6	6	5	5	5	4



Date October 21, 2013
 TYPE OF C.A. CRUSHED STONE

**Concrete Mix Design
 Class 4000 Concrete**

SPECIFIC GRAVITY

F.A.: 2.62
 C.A.: 2.65
 S.F.: 2.20
 I.A.: 0.00
 DCI 1.30

MOISTURE(%)

N/A
 0.50
 N/A
 0.00
 N/A

PERCENT(%)AGGREGATE

F.A. 35.00%
 C.A. 65.00%
 I.A. 0.00%

SAND PERCENT MOISTURE (%)
 SAND (LBS)
 CUMULATIVE AGGR. WT.
 WATER (LBS)
 WATER (GALLONS)

C.Y.	CEM 1	CEM 2	S.FUME	DCI	OTHER	CAWT	IAWT	3%	4%	5%	6%	7%	8%	9%
9	5580	0	0	0	0	18138	0	9896	9992	10088	10184	10280	10376	10473
	CEM1+CEM2					CAW+IAW		28034	28130	28226	28322	28418	28514	28610
	5580					18138		1854	1757	1661	1565	1469	1373	1277
								222	211	199	188	176	165	153
8	4960	0	0	0	0	16122	0	8796	8882	8967	9053	9138	9223	9309
	CEM1+CEM2					CAW+IAW		24919	25004	25090	25175	25260	25346	25431
	4960					16122		1648	1562	1477	1391	1306	1221	1135
								198	187	177	167	157	146	136

Class 4000 Concrete
 Specific Gravity of Aggregate
 Aggregate Proportion
 Coarse Aggregate Moisture



Batch Size
9 cu.yd.

Moisture Content of Sand
3%

er 21, 2013
USHED STONE

MOISTURE(%)
N/A
0.50
N/A
0.00
N/A

PERCENT(%)AGGREGATE
F.A. 35.00%
C.A. 65.00%
I.A. 0.00%

SAND (LBS)
CUMULATIVE AGGR. WT.
WATER (LBS)
WATER (GALLONS)

S.S.: 2.20
I.A.: 0.00
DCI: 1.30

CY.	CEM 1	CEM 2	S.FUME	DCI	OTHER	CAWT	IAWT	3%	4%	5%	6%	7%	8%	9%
9	5580	0	0	0	0	18138	0	9896	9992	10088	10184	10280	10376	10473
	CEM1+CEM2					CAW+IAW		28034	28130	28226	28322	28418	28514	28610
	5580					18138		1854	1757	1661	1565	1469	1373	1277
								222	211	199	188	176	165	153

Cementitious Material
5580 lbs cement

Coarse Aggregate:
18138 lbs

Aggregate Weight:
9896 lbs sand
28034 lbs total aggregate
1854 lbs water or
222 gallons water



Form 700.04

Unique ID: []

Status: []

File No: []

Class: []

Plant Location: []

Plant Inspector: []

READY MIX CONCRETE REPORT

Date: []

Load No: []

Cubic Yards: []

Cumulative CY: []

Project No: []

Date and Time Mixing Began: []

Revs at Plant Mixing Speed: []

Truck No: []

Max Water Allowed in Mix: [] gal. [] lbs.



Materials	Total Weight	Tolerance		Total	Wgt Range	Actual Batch Weights				Meets Range	Moisture %	SSD Weight	Total lbs. Water in Load
		-	+			High	Batch 1	Batch 2	Sum				
Cement, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	[]	Yes	[]	[]	Free Aggr Moisture
Fly Ash, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	[]	Yes	[]	[]	
Silica Fume, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	[]	Yes	[]	[]	
Total Cem. Matl	[]				[]					Yes			
Aggregate (1), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	[]	Yes	[]	[]	[]
Aggregate (2), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	[]	Yes	[]	[]	[]
Aggregate (3), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	[]	Yes	[]	[]	[]
Total (1)+(2)+(3)	[]				[]								
Crr. Inhib. gal.	[]				[]							(DCI Only)	[]
Meter Water, gal.	[]				[]							Truck Wash Water: [] gal.	[]
Meter Water, lbs.	[]			* Rate	[]							Water, lbs.	[]
Air Ent. Agent, oz.	[]				[]						Water Held at Plant	[] gal. [] lbs.	[]
Water Reducer, oz.	[]				[]						Total Water at Plant	[]	[]
Water Red/Retarder, oz.	[]				[]						1st Water Added at Site:	[] gal.	[]
					Adjusted for Overweight						2nd Water Added at Site:	[] gal.	[]
					No						Total Water in Load	[]	[]

Calculated Allowable Range of Mix Proportions:

- Cement -1%
- Fly Ash -1%
- Silica Fume -1%
- Aggregate ±2%

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = [] / [] = [] as Batched

W/C Ratio = [] / [] = [] as Placed

Slump: []

ID No: []

Mixing Revs at Site: []

Entrained Air: []

Concrete Temp at Placement: [] F

Revs After Site Added Water: []

Cylinders Made: No

Admixture Added at Site: []

Total oz.: [] oz./100 lbs.

Date and Time Truck Finished Unloading: []

Mixing Time After Adding Admixture: [] minutes

Field Inspector: []

Pour Location: []



**Design Weight
from Batch
Chart**



9896 lbs

(Sand from example batch chart)

Allowable Range

low

high

$$-2\% = -0.02$$

$$+2\% = +0.02$$

$$9896 - 9896(0.02)$$

$$9896 + 9896(0.02)$$

9698 lbs

10094 lbs

Form 700.04

Unique ID: []

Status: []

File No: []

Class: []

Plant Location: []

Plant Inspector: []

READY MIX CONCRETE REPORT



Date: []

Load No: []

Cubic Yards: []

Cumulative CY: []

Project No: []

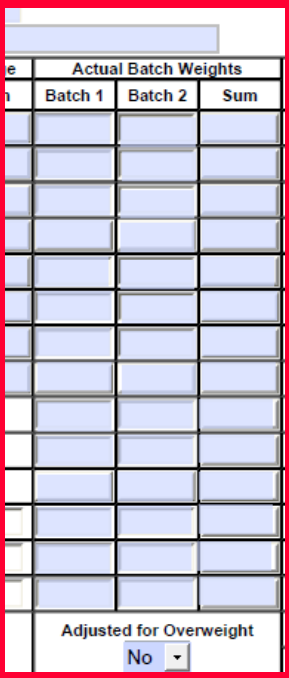
Date and Time Mixing Began: []

Revs at Plant Mixing Speed: []

Truck No: []

Max Water Allowed in Mix: [] gal. [] lbs.

Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights			Meets Range			
		-	+	Low	High	Batch 1	Batch 2	Sum				
Cement, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	Yes	Total lbs. Water in Load		
Fly Ash, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	Yes				
Silica Fume, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	Yes				
Total Cem. Matl	[]				[]	[]	[]	[]	Yes	Free Moisture %	SSD Weight	Free Aggr Moisture
Aggregate (1), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	Yes	[] %	[]	[]
Aggregate (2), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	Yes	[] %	[]	[]
Aggregate (3), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[] %	[]	[]	[]	[]	Yes	[] %	[]	[]
Total (1)+(2)+(3)	[]				[]	[]	[]	[]				
Crr. Inhib. gal.	[]				[]	[]	[]	[]		32 oz./gal.	(DCI Only)	
Meter Water, gal.	[]				[]	[]	[]	[]		Truck Wash Water: [] gal.		[]
Meter Water, lbs.	[]			* Rate	[]	[]	[]	[]		Meter Water, lbs.		[]
Air Ent. Agent, oz.	[]				[]	[]	[]	[]		Water Held at Plant [] gal. [] lbs.		
Water Reducer, oz.	[]				[]	[]	[]	[]		Total Water at Plant		[]
Water Red/Retarder, oz.	[]				[]	[]	[]	[]		1st Water Added at Site: [] gal.		[]
										2nd Water Added at Site: [] gal.		[]
										Total Water in Load		[]



Adjusted for Overweight
No

Calculation of Water/Cementitious Material Ratio:

Slump: []

Entrained Air: []

Cylinders Made: No

W/C Ratio = [] / []

W/C Ratio = [] / []

Date and Time Truck Finished Unloading: []

Field Inspector: []

Pour Location: []

Actual Mix Proportions

Temperature: [] F

Humidity: []

Admixture: [] minutes

Admixture Added at Site: []

Total oz.: [] oz./100 lbs.



Form 700.04

Unique ID:

Status:

File No:

Class:

Plant Location:

Plant Inspector:

READY MIX CONCRETE REPORT



Date:

Load No:

Cubic Yards:

Cumulative CY:

Project No:

Date and Time Mixing Began:

Revs at Plant Mixing Speed:

Truck No:

Max Water Allowed in Mix: gal. lbs.

Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights			Meets Range			
		-	+	Low	High	Batch 1	Batch 2	Sum		Free Moisture %	SSD Weight	Free Aggr Moisture
Cement, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes			Total lbs. Water in Load
Fly Ash, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes			
Silica Fume, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes			
Total Cem. Matl									Yes			
Aggregate (1), lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes	<input type="text"/>	<input type="text"/>	
Aggregate (2), lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes	<input type="text"/>	<input type="text"/>	
Aggregate (3), lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes	<input type="text"/>	<input type="text"/>	
Total (1)+(2)+(3)												
Crr. Inhib. gal.										32 oz./gal.	(DCI Only)	
Meter Water, gal.										Truck Wash Water: <input type="text"/> gal.		
Meter Water, lbs.										Meter Water, lbs.		
Air Ent. Agent, oz.										Water Held at Plant: <input type="text"/> gal. <input type="text"/> lbs.		
Water Reducer, oz.												
Water Red/Retarder, oz.												

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = / = as Batched

W/C Ratio = / = as Placed

Date and Time Truck Finished Unloading:

Field Inspector:

Pour Location:

Slump:

ID No:

Mixing Rev:

Orders Made: No

Mixture Added at Site:

oz.: oz./100 lbs.

minutes

Do actual mix proportions fall within allowable range?



Form 700.04

Unique ID:

Status:

File No:

Class:

Plant Location:

Plant Inspector:

READY MIX CONCRETE REPORT



Date:

Load No:

Cubic Yards:

Cumulative CY:

Date and Time Mixing Began:

Revs at Plant Mixing:

Max Water Allowed:

Water from moisture in aggregate

Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights			Meets Range
		-	+	Low	High	Batch 1	Batch 2	Sum	
Cement, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Fly Ash, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Silica Fume, lbs		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Total Cem. Matl									Yes
Aggregate (1), lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Aggre		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Aggre		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Total									
Crr									32 oz/gal. (DCL Only)
Met									Truck Wash Water: gal.
Met									Meter Water, lbs.
Air E									Water Held at Plant gal. lbs.
Water									Total Water at Plant
Water R									1st Water Added at Site: gal.
									2nd Water Added at Site: gal.
									Total Water in Load

Meter Water added at plant (includes truck wash water)

Free Moisture %	SSD Weight	Free Aggr Moisture
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = / = as Batched

W/C Ratio = / = as Placed

Slump:

ID No:

Mixing Revs at Site:

Entrained Air:

Concrete Temp at Placement: F

Revs After Site Added Water:

Mixing Time After Adding Admixture: minutes

Cylinders Made:

Admixture Added at Site:

Total oz.: oz./100 lbs.

Date and Time Truck Finished Unloading:

Field Inspector:

Pour Location:



Water from Moisture in Aggregate Calculation

Moisture content	Aggregate Weight without moisture	Weight of Water from Aggregate Moisture
%moist	$\frac{\text{Aggregate Batch Weight}}{1 + \% \text{moist}}$	Aggregate Batch Weight – Aggregate Weight without moisture
3% = 0.03	$\frac{9896 \text{ lbs}}{1 + 0.03} = 9608 \text{ lbs}$	$9896 - 9608 = 288 \text{ lbs}$

Form 700.04

Unique ID:

Status:

File No:

Class:

Plant Location:

Plant Inspector:

READY MIX CONCRETE REPORT



Date:

Load No:

Cubic Yards:

Cumulative

Date and Time Mixing Began:

Revs at Plant

Max Water A

Water from moisture in aggregate

Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights			Meets Range
		-	+	Low	High	Batch 1	Batch 2	Sum	
Cement, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Fly Ash, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Silica Fume, lbs		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Total Cem. Matl									Yes
Aggregate (1), lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Aggregate		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Aggregate		<input type="checkbox"/>	<input type="checkbox"/>						Yes
Total (
Crr. It									32 oz./gal. (DCI Only)
Meter									Truck Wash Water: gal.
Meter									Meter Water, lbs.
Air Ent.									Water Held at Plant gal. lbs.
Water R									Total Water at Plant
Water Red									1st Water Added at Site: gal.
									2nd Water Added at Site: gal.
									Total Water in Load

Meter Water added at plant (includes truck wash water)

Total Water from plant

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = / = as Batched

W/C Ratio = / = as Placed

Date and Time Truck Finished Unloading:

Field Inspector:

Pour Location:

Slump:

ID No:

Mixing Revs at Site:

Entrained Air:

Concrete Temp at P

Revs After Site Add

Mixing Time After A

Cylinders Made: NO



Form 700.04

Unique ID:

Status:

File No:

Class:

Plant Location:

Plant Inspector:

READY MIX CONCRETE REPORT

Date:

Load No:

Cubic Yards:

Cumulative CY:

Project No:

Date and Time Mixing Began:

Revs at Plant Mixing Speed:

Truck No:

Max Water Allowed in Mix: gal. lbs.



Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights			Meets Range			
		-	+	Low	High	Batch 1	Batch 2	Sum				
Cement, lbs.		<input type="checkbox"/>	<input type="checkbox"/>	%					Yes	Total lbs. Water in Load		
Fly Ash, lbs.		<input type="checkbox"/>	<input type="checkbox"/>	%				Yes				
Silica Fume, lbs.		<input type="checkbox"/>	<input type="checkbox"/>	%				Yes				
Total Cem. Matl									Yes	Free Moisture %	SSD Weight	Free Aggr Moisture
Aggregate (1), lbs.		<input type="checkbox"/>	<input type="checkbox"/>	%					Yes	%		
Aggregate (2), lbs.		<input type="checkbox"/>	<input type="checkbox"/>	%					Yes	%		
Aggregate (3), lbs.		<input type="checkbox"/>	<input type="checkbox"/>	%					Yes	%		
Total (1)+(2)+(3)												
Crr. Inhib. gal.										32 oz./gal.	(DCI Only)	
Meter Water, gal.												
Meter Water, lbs.				* Rate								
Air Ent. Agent, oz.												
Water Reducer, oz.												
Water Red/Retarder, oz.												
Adjusted for Overweight										Total Water at Plant		
										1st Water Added at Site: gal.		
										2nd Water Added at Site: gal.		
										Total Water in Load		

Water added on site

1st Water Added at Site: gal.
2nd Water Added at Site: gal.

Calculation of Water/Cementitious Material Ratio:

W/C Ratio =

/ = as Batched

W/C Ratio =

/ = as Placed

Slump:

ID No:

Mixing Revs at Site:

Entrained Air:

Concrete Temp at Placement: F

Revs After Site Added Water:

Mixing Time After Adding Admixture: minutes

Cylinders Made: No

Admixture Added at Site:

Total oz.: oz./100 lbs.

Date and Time Truck Finished Unloading:

Field Inspector:

Pour Location:



Form 700.04

Unique ID:

Status:

File No:

Class:

Plant Location:

Plant Inspector:

READY MIX CONCRETE REPORT



Date:

Load No:

Cubic Yards:

Cumulative CY:

Project No:

Date and Time Mixing Began:

Revs at Plant Mixing Speed:

Truck No:

Max Water Allowed in Mix:

gal.

lbs.

Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights		
		-	+	Low	High	Batch 1	Batch 2	Sum
Cement, lbs.		<input type="checkbox"/>	<input type="checkbox"/>					
Fly Ash, lbs.		<input type="checkbox"/>	<input type="checkbox"/>					
Silica Fume, lbs.		<input type="checkbox"/>	<input type="checkbox"/>					
Total Cem. Matl								
Aggregate (1), lbs.		<input type="checkbox"/>	<input type="checkbox"/>					
Aggregate (2), lbs.		<input type="checkbox"/>	<input type="checkbox"/>					
Aggregate (3), lbs.		<input type="checkbox"/>	<input type="checkbox"/>					
Total (1)+(2)+(3)								
Crr. Inhib. gal.								
Meter Water, gal.								
Meter Water, lbs.				* Rate				
Air Ent. Agent, oz.								
Water Reducer, oz.								
Water Red/Retarder, oz.								
Adjusted for Overweight						No <input type="button" value="v"/>		

Is the total water less than the allowable water for this mix?

Calculation of Water/Cementitious Material Ratio:

W/C Ratio =

/

=

as Batched

ID No:

W/C Ratio =

/

=

as Placed

Mixing Revs at Site:

Date and Time Truck Finished Unloading:

Field Inspector:

Pour Location:

Slump:

Entrained Air:

Cylinders Made: NO

Concrete Temp at Placement:

Revs After Site Added Water:

Mixing Time After Adding Admixture:

Total Water



Form 700.04

Unique ID:

Status:

File No:

Class:

Plant Location:

Plant Inspector:

READY MIX CONCRETE REPORT



Date:

Load No:

Cubic Yards:

Cumulative CY:

Project No:

Date and Time Mixing Began:

Revs at Plant Mixing Speed:

Truck No:

Max Water Allowed in Mix: gal. lbs.

Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights			Meets Range	Free Moisture %	SSD Weight	Free Aggr Moisture
		-	+	Low	High	Batch 1	Batch 2	Sum				
Cement, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes			Total lbs. Water in Load
Fly Ash, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes			
Silica Fume, lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes			
Total Cem. Matl									Yes			
Aggregate (1), lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes			Free Aggr Moisture
Aggregate (2), lbs.		<input type="checkbox"/>	<input type="checkbox"/>						Yes			
Aggregate (3)												
Total (1)+(2)+												
Crr. Inhib. g												
Meter Water,												
Meter Water,												
Air Ent. Agent, oz.										Water Held at Plant	gal. lbs.	
Water Reducer, oz.										Total Water at Plant		
Water Red/Retarder, oz.										1st Water Added at Site:	gal.	
										2nd Water Added at Site:	gal.	
										Total Water in Load		

$$w/c = \frac{\text{total water in load}}{\text{total cementitious material in load}}$$

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = / = as Batched

W/C Ratio = / = as Placed

Slump:

ID No:

Mixing Revs at Site:

Entrained Air:

Concrete Temp at Placement: F

Revs After Site Added Water:

Mixing Time After Adding Admixture: minutes

Cylinders Made:

Admixture Added at Site:

Total oz.: oz./100 lbs.

Field Inspector:

Pour Location:



Form 700.04

Unique ID: []

Status: []

File No: []

Class: []

Plant Location: []

Plant Inspector: []

READY MIX CONCRETE REPORT



Date: []

Load No: []

Cubic Yards: []

Cumulative CY: []

Project No: []

Date and Time Mixing Began: []

Revs at Plant Mixing Speed: []

Truck No: []

Max Water Allowed in Mix: [] gal. [] lbs.

Materials	Total Weight	Tolerance		Total Wgt Range		Actual Batch Weights			Meets Range	Total lbs. Water Load
		-	+	Low	High	Batch 1	Batch 2	Sum		
Cement, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Yes	[]
Fly Ash, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Yes	[]
Silica Fume, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Yes	[]
Total Cementitious Material, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Yes	[]
Aggregate (1), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Yes	[]
Aggregate (2), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Yes	[]
Aggregate (3), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Yes	[]
Total (1)+(2)+(3), lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Yes	[]
Crr. Inhibitor, gal.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	32 oz./gal.	(DCI Only)
Meter Water, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Water H ₂ O	[]
Meter Water, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Rate	[]
Air Ent. Agent, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	Water H ₂ O	[]
Water Reducer, lbs.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	1st V	[]
Water Red/Retarder, oz.	[]	<input type="checkbox"/>	<input type="checkbox"/>	[]	[]	[]	[]	[]	2nd V	[]
Adjusted for Overweight									Total Water in Load	
No									[]	

Slump

On-site mixing record

Air Content

On-site admixture record

Cylinders?

Temperature of concrete

Time Truck Unloaded

Inspector

On site Batch Information

Calculation of Water/Cementitious Material Ratio:

W/C Ratio = [] / [] = [] as Batched

W/C Ratio = [] / [] = [] as Placed

Slump: []

ID No: []

Mixing Revs at Site: []

Entrained Air: []

Concrete Temp at Placement: [] F

Revs After Site Added Water: []

Cylinders Made: No

Admixture Added at Site: []

Total oz.: [] oz./100 lbs.

Date and Time Truck Finished Unloading: []

Mixing Time After Adding Admixture: [] minutes

Field Inspector: []

Pour Location: []

