

F.2 Certificate of Compliance

Provide a computerized Certificate of Compliance with each truckload of ready-mixed concrete at the time of delivery. The Department defines computerized to mean a document that records mix design quantities from load cells and meters.

If the computer that generates the Certificate of Compliance malfunctions, the Engineer may allow the Contractor to finish any pours in progress if the Producer issues a handwritten MnDOT Form 0042, *Certificate of Compliance* with each load. Do not allow the Producer to begin new pours without a working computerized Certificate of Compliance.

Provide a computerized Certificate of Compliance that includes all of the following information:

- (1) Name of the ready-mix concrete plant,
- (2) Name of the Contractor,
- (3) Date,
- (4) State Project Number (SP) or (SAP),
- (5) Bridge Number (if applicable),
- (6) Time concrete was batched,
- (7) Truck number,
- (8) Quantity of concrete in this load,
- (9) Running total of each type of concrete, each day for each project,
- (10) Type of concrete (MnDOT Mix Designation Number),
- (11) Cementitious materials using MnDOT Standard Abbreviations,
- (12) Admixtures using MnDOT Standard Abbreviations,
- (13) Aggregate sources using 5 digit State Pit Numbers,
- (14) Admixture quantity in fluid ounces per 100 lb of cementitious materials or ounces per cubic yard,
- (15) Batch weights in columns in accordance with Table 2461-12:
 - (15.1) Print in order a through k.
 - (15.2) Use formula to calculate weights.
 - (15.3) Head columns with Standard Labels.

	Formula Letter	Formula	Standard Label
a	Ingredients (aggregate, cementitious, water, admixture type)	—	Ingredient
b	Product Source (MnDOT Standard Abbreviation)	—	Source
c	Total Moisture Factor (in decimals to 3 places)	—	MCFac
d	Absorption Factor (in decimals to 3 places)	—	AbsFac
e	MnDOT mix design oven dry (OD) weights, <i>lb/cu. yd</i>	—	OD
f	Absorbed moisture in the aggregates, <i>lb/cu. yd</i>	(e × d)	Abs
g	Saturated surface dry (SSD) weights for aggregates, <i>lb/cu. yd</i>	(e + f)	SSD
h	Free moisture, <i>lb/cu. yd</i>	(c - d) × e	Free Mst
i	Target weights for one cubic yard of concrete, <i>lb/cu. yd</i>	(g + h)	CY Targ
j	Target batch weights, <i>lb</i>	(cu. yd × i) [cu. m × i]	Target
k	Actual batch weights, <i>lb</i>	—	Actual

NOTE: Actual cubic yards batched may vary due to differences in air content, weight tolerances, specific gravities of aggregates, and other variables.

- (16) Total Water (Batch Water + Free Moisture) in pounds,
- (17) Water available to add [(Mix Design Water × Batch Size) – Total water] in gallons,
- (18) Space to note the water adjustment information, including:
 - (18.1) Water in gallons added to truck at plant (filled in by Producer, enter zero if no water is added),
 - (18.2) Water in gallons added to truck at the jobsite (filled in by Producer or Engineer, enter zero if no water is added), and
 - (18.3) Total actual water in pounds (Total Water from Certificate of Compliance plus any additions).
- (19) The following information printed with enough room beside each item to allow the Engineer to record the test results:
 - (19.1) Air content,
 - (19.2) Air temperature,
 - (19.3) Concrete temperature,
 - (19.4) Slump,
 - (19.5) Cylinder number,
 - (19.6) Location or part of structure,
 - (19.7) Time discharge, and
 - (19.8) Signature of Inspector.
- (20) Location for the Producer signature
- (21) For colored concrete, final color