

Flowable Concrete/SCC Qualification and Testing Frequency Form



The following minimum frequencies are required during qualification of mix designs for self-consolidating/flowable concrete where the flow range equals a flow of 20 inches or more and during the subsequent production testing, as outlined in MNL-116 and MNL-117. Record the results of the target values/ranges for each mix parameter in the spaces to the right, for reference by the QC staff during production testing. This form should also be filed with the mix design information.

Mix # _____ Qualification Date: _____

SLUMP FLOW RANGE: ASTM C1611
each 75 cubic yards per mix design daily and whenever 28-day cylinders are made _____

T-20 RANGE ASTM C1611
twice per mix design, per month, or whenever there is a stability issue _____

VSI ASTM C1611
each 75 cubic yards per mix design daily and whenever 28-day cylinders are made _____

AIR CONTENT RANGE ASTM C231 / ASTM C173
each 75 cubic yards per mix design daily and whenever 28-day cylinders are made _____

J-RING ASTM C1621
once per mix for qualification, or whenever there is an issue with blocking _____

COLUMN SEGREGATION ASTM C1610
once per mix for qualification, or whenever there is an issue with segregation _____

PENETRATION SEGREGATION ASTM C1712
once per mix for qualification, or whenever there is an issue with segregation _____

UNIT WEIGHT ASTM C138
each 75 cubic yards per mix design daily and whenever 28-day cylinders are made _____

TARGET STRENGTH* ASTM C39
once every 75 cubic yards daily, or once per production bed _____

*See ASTM C1758 - Standard Practice for Fabricating Test Specimens with Self-Consolidating Concrete

QC Manager: _____