METHOD OF MAKING AND CURING SELF-CONSOLIDATING CONCRETE TEST CYLINDERS

1. SCOPE

1.1 This method covers the procedure for making and curing test cylinders from freshly mixed self-consolidating concrete. The procedure is suitable for use in the laboratory or in the field.

2. REFERENCES

2.1 CSA A 23.2-3C Making and Curing Concrete Compression and Flexural Test Specimens

3. DEFINITIONS

3.1 Self-consolidating concrete (SCC): is highly flowable yet stable concrete that can spread readily into place, fill the formwork, and encapsulate the reinforcement without any mechanical consolidation and without undergoing segregation or excessive bleeding.

4. PROCEDURE

4.1 The procedure of CSA A 23.2 - 3 C shall be followed with the following exceptions.

5. EXCEPTIONS

5.1 Cylinders shall be 100 mm diameter and 200 mm in length.

5.2 Use a scoop or a small bucket to fill the cylinder mould using no layering, rodding or vibration.

5.3 Ensure that concrete is deposited into the mould from a height of no more than 150 mm above the top of the mould.

5.4 Finish the top surface by striking off with a strike-off bar or tamping rod.