

METHOD OF TEST FOR AIR CONTENT OF FRESHLY MIXED SELF-CONSOLIDATING CONCRETE BY THE PRESSURE METHOD

1. SCOPE

1.1 This method covers the determination of the air content of freshly mixed self-consolidating concrete (SCC). The procedure is suitable for use in the laboratory or in the field.

2. REFERENCES

2.1 CSA A23.2-4C Air Content of Plastic Concrete by the Pressure Method

3. DEFINITIONS

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

4. PROCEDURE

4.1 The procedures of CSA A23.2-4C shall be followed with the following exceptions.

5. EXCEPTIONS

5.1 Place SCC in the measuring bowl using a scoop or a small bucket, using no layering or rodding. Ensure that concrete is deposited into the bowl from a height of 150 mm or less above the top of the bowl.

5.2 Following placement of SCC in the measuring bowl, tap the outside of the bowl smartly 5-10 times with a mallet until no large bubbles of air appear on the surface.

6. REPORT

6.1 Reporting shall be according to the requirements of CSA A23.2-4C.