



#### **Introduction:**

- Fill box is one of the apparatus of the SCC (Self Consolidating Concrete) test accessories. These tests are used to determine the flowability and passing ability of Self-Consolidating Concrete (SCC) as defined in ASTM C1621. Passing ability refers to the ability of SCC, under its own weight (without vibration), to flow into and completely fill the spaces within an intricate framework, containing obstacles such as reinforcement bars.

#### **Application of Fill box test method for SCC:**

- This test is also known as 'Kajima test'. The test is used to measure the filling ability of self compacting concrete with a maximum aggregate size of 20 mm.

#### **Construction Details:**

- The apparatus consists of a container (transparent) with a flat and smooth surface. In the container are 35 obstacles are made of PVC with a diameter of 20mm and a distance centre to centre of 50mm, see figure. At the top side is a put filling pipe (diameter 100mm height 500mm) with a funnel (height 100mm). The container is filled with concrete through this filling pipe and difference in height between two sides of the container is a measure for the filling ability.

Note: Specifications are subject to change.

