

Colorado Procedure – Laboratory 4101-19

Standard Method of Test for

Preparing Concrete Blocks for Testing Sealants, For Joints and Cracks

(This procedure modifies ASTM D 1985-13. ASTM D 1985 and CP-L 4101 must be used together.)

NOTE: Replace Section 5, *Concrete Block Preparation*, of ASTM D 1985-13 with the following:

- 5.1 Prepare the concrete in accordance with the procedure described in Test Method ASTM C 192 / C102M using the following mix design:

Concrete Mix Proportions for 1 Cubic Yard SSD Batch Weight:

Cement, Type I/II	528 lb
Fly-Ash, Class F	132 lb
Coarse Aggregate, Morrison Quarry, #57/67	1750 lb
Sand, Washed, Brighton Pit	1100 lb
W/C Ratio	0.50

Note: Contact Aggregate Industries' Materials Dispatch at 303-987-1234 to obtain the required aggregates.

- 5.2 Use a metal or plastic mold provided with a metal or plastic base plate. Provide means for securing the base plate to the mold. Make the assembled mold and base plate water-tight and oil with mineral oil before use. Fill the mold with concrete prepared in accordance with Subsection 5.1 to overflowing and vibrate externally for 30 seconds. Screed (level) the concrete to a smooth surface with a wooden float and level off with a metal straightedge drawn across the top with a sawing motion. Cure as specified in Test Method ASTM C 192 / C 192M. After curing for not less than 14 days, cut the slab of concrete into individual blocks using a 40 by 60-grit diamond saw blade rotating at a peripheral speed of 3050 ± 150 m/min. ($10\,000 \pm 500$ ft/min.). Each test block should be 25mm x 50mm x 75mm (1" x 2" x 3"). Any face contacting the test material must be saw cut. While the blocks are still wet from the sawing operation, scrub the surfaces of the blocks lightly with a non-metallic stiff-bristle brush while holding under a stream of running water. Stocks of prepared blocks may be stored under standard conditions indefinitely, but store such blocks in a 100% humidity environment for not less than 7 days prior to use.

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