

Colorado Procedure – Laboratory 2203-10

Standard Method of Test for

Pliability and Thickness of Prefabricated Reinforced Membrane

1. SCOPE

1.1 This procedure describes the method of test for pliability and thickness of prefabricated reinforced membrane material to be used as a bridge deck waterproofing membrane.

2. APPARATUS

- 2.1 Cold chamber, capable of maintaining $10^{\circ}\text{F} \pm 2^{\circ}$.
- 2.2 Mandrel, 1 inch diameter.
- 2.3 Micrometer, capable of measuring to 0.001 inches.

3. PREPARATION OF SPECIMENS

3.1 Cut three test specimens, each 1" x 4" from sample representing material to be used. Test specimens shall not be cut from ends or sides, or adjacent locations in the sheet.

4. TEST PROCEDURE

- 4.1 Measure and record the thickness of test strips using micrometer. Measure two locations on each strip approximately 1/2 inch from the edge and 1 inch from each end.
- 4.2 Place the test strips in the cold chamber at 10°F for a minimum of 2 hours.
- 4.3 While in the cold chamber and using gloves, bend the specimens 180° over the 1 inch mandrel at a steady rate. Bending time should be approximately 5 seconds. Inspect for cracks.

5. REPORTING

- 5.1 There is no designated CDOT Form used for recording / reporting information for this CP-L.
- 5.2 Average the six thickness measurements and report as thickness in mils (0.001 inches).
- 5.3 Report as a failure if any cracks are evident.

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