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ALDOT-231-73 TESTING TECHNIQUES FOR PNEUMATICALLY APPLIED CONCRETE

1. Responsibilities

- 1.1. The Alabama Department of Transportation will provide the cylinder molds upright and concentric during casting.
 - 1.1.1. The 6 in (150 mm) x 12 in (300 mm) cylinder molds shall be fabricated from ½" (13 mm) mesh hardware cloth in accordance with the design shown in Appendix A.
 - 1.1.2. The device or restraining frame for holding the mold-cylinder shall be constructed in accordance with the design criteria depicted in Appendix B.
- 1.2. The contractor will place the concrete in the molds. Project personnel will cut and screed the cylinders at the appropriate time.

2. Frequency Of Testing

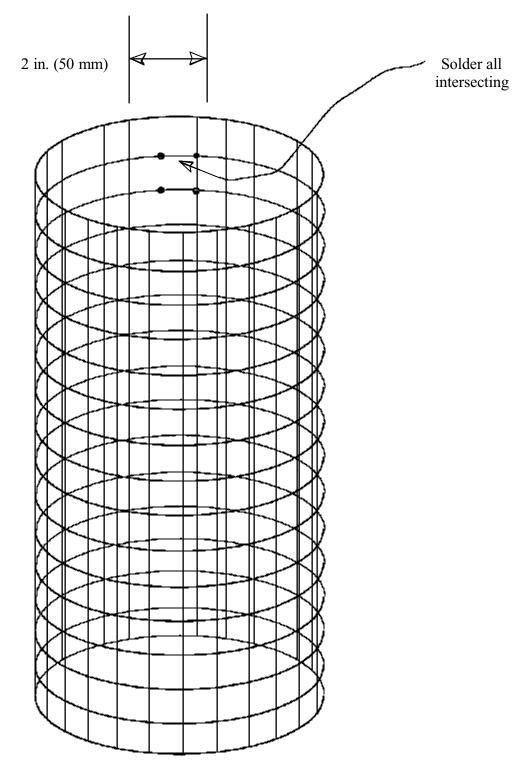
2.1. Three 28 day cylinders will be made every other day and at other times deemed necessary by the project engineer.

3. Consistency

- 3.1. Air pressure will remain the same in cylinder production as in the actual work.
- 3.2. Test cylinders will be cast by the same technique throughout the entire job unless changes are ordered in writing by the engineer.

4. Handling

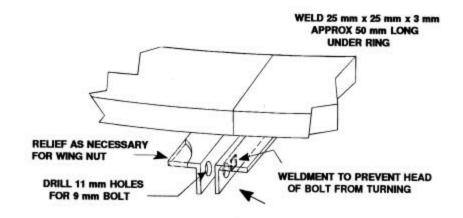
- 4.1. Cylinders shall be carefully cut and screeded using a trowel after initial set, normally about two hours.
- 4.2. After cutting and screeding, the cylinders shall be cured under polyethylene sheeting until time for stripping.
- 4.3. After 24 ± hours, the cylinders will be placed on a sand cushion and the wire mesh stripped, taking precautions not to damage the cylinders. Cylinders will be shipped to the Division or Central Laboratory for moist curing.



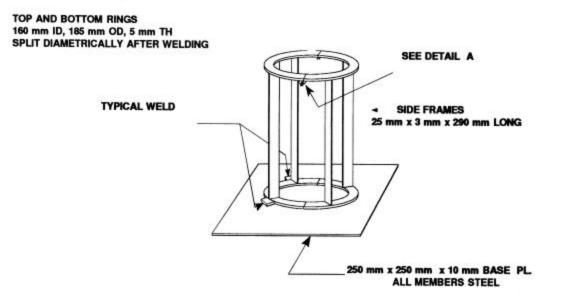
6 in. (150 mm) ID X 12 in. (300 mm) Height 1/2 in. (13 mm) Hardware Cloth Cylinder Edges Overlapped 2 in. (50 mm) & Securely Soldered

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DETAIL A -- CLAMPING BARS



PNEUMATICALLY APPLIED CONCRETE
CYLINDER RESTRAINING FRAME
Appendix B