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ALABAMA DEPARTMENT OF TRANSPORTATION

THE GYRATORY SHALL BE IN COMPLIANCE WITH AASHTO T 312 BY AASHTO TP 71-09

The gyratory compactor shall be an electrohydraulic or electromechanical or electropneumatic compactor with a ram and ram heads as described in Section 4.3 OF AASHTO T 312. The gyratory compactor shall be capable of producing 150 mm (+/- 0.1 mm) diameter Hot Mix Asphalt specimens between 10 and 200 mm in height by compressing a specimen at 600 kPa (+/- 18 kPa) while gyrating the specimen 30 (+/-0.5) gyrations per minute at an internal angle of 20.2 +/- 0.35 mrad {1.16 degrees (+/-0.02 degrees)} as measured by AASHTO TP 71-09 and shall record the specimen's height to the nearest 0.1 mm (minimum precision 0.1 mm) every gyration (at least once per gyration) during compaction. The compactor shall have a built in sample extruder function. The compactor shall be mounted on swivel castors or like devices to insure compactor mobility within the laboratory. The compactor shall be furnished with the following minimum accessories: 500 specimen protector paper discs (150 mm diameter), four 150 mm diameter compaction molds (with bottom plates and top plates as required for each mold), a complete set of calibration equipment and/or tools, and internal data storage (minimum 20 tests) or a printer that records the specimen height each gyration.

The gyratory compactor shall have been recommended in writing by one of the following Superpave Regional Centers:

Auburn University (NCAT), Auburn, Alabama
Pennsylvania State University, State College, Pennsylvania
Purdue University, West Lafayette, Indiana
Texas University, Austin, Texas
University of Nevada at Reno, Reno, Nevada

The approved models which are in compliance with AASHTO T 312 by AASHTO TP 71-09 include:
PINE INSTRUMENTS CO (model AFGC125X, or AFG1A, AFG2A, AFG2AS)
TROXLER (model 4140 and 4141, if equipped with an electrohydraulic or electromechanical or electropneumatic sample extruder)
SERVOPAC GYRATORY COMPACTOR