

ALABAMA DEPARTMENT OF TRANSPORTATION

GYRATORY COMPACTOR NON-SHEAR

TUSCUMBIA AREA

THE GYRATORY COMPACTOR SHALL BE THE NEWEST MODEL AT THE TIME OF PURCHASE WITH AN ELECTROMECHANICAL COMPACTOR WITH A RAM AND RAM HEADS AS WITH A MINIMUM ROCKWELL HARDNESS OF C48. THE GYRATORY COMPACTOR SHALL BE NON-HYDRAULIC AND CAPABLE OF PRODUCING 150 MM (+/- 0.1MM) DIAMETER HOT MIX ASPHALT SPECIMEN BETWEEN 60 AND 170 MM IN HEIGHT BY COMPRESSING A SPECIMEN AT 600 kPa (+ / - 18 kPa) WHILE GYRATING THE SPECIMEN 30 (+ / - 0.35 mrad (1.16 degrees + / - 0.02 degrees) AND SHALL RECORD SPECIMEN'S HEIGHT TO THE NEAREST 0.1 MM (minimum precision 0.1mm) EVERY GYRATION (AT LEAST ONCE PER GYRATION) DURING COMPACTION. THE COMPACTOR SHALL HAVE A SAMPLE EXTRUDER / 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 AND TOP PLATES AS REQUIRED FOR EACH MOLD)

INTERNAL DATA STORAGE (MINIMUM OF 20 TESTS) THAT RECORDS THE SPECIMEN HEIGHT OF EACH GYRATION.

USB PORT OR ETHERNET PORT CAPABILITES.

THE COMPACTOR SHALL HAVE THE ABILITY TO ADD THE SHEAR VALUE OPTION AT A LATER DATE.

THE BID 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