

CCIL / LABORATORY INSPECTION CHECKLIST

Standard Practice for Mixture Conditioning of Hot Mix Asphalt (HMA)
AASHTO R 30-2 (2006)¹

APPARATUS:

- 1. Thermometers: Having a range from 50 to 260° C and readable to 1° C?
2. Oven: Forced draft (thermostatically controlled) and able to maintain temperatures from room temperature to 176° C within ± 3.0° C?
3. Miscellaneous: Shallow metal pan for heating uncompacted HMA, timer?

MIXTURE CONDITIONING PROCEDURES (3 Mixture Conditionings)

A. Mixture Conditioning for Volumetric Mixture Design (Section 7.1)

Note 1: Applies to laboratory prepared, loose mixture only – not for conducting quality control or quality assurance testing on plant-produced mixture.

- Spread mixture evenly in a pan to a thickness between 25 to 50 mm?
- Placed mixture & pan in a forced-draft oven for 2 h ± 5 min. - temperature equal to the mixture’s compaction temperatures ± 3° C?
- Stirred the mixture after 60 ± 5 min. – to maintain uniform conditioning?
- Mixture removed from oven after 2 h ± 5 min.?
- Mixture ready for compaction or other testing?

B. Short-Term Conditioning for Mixture Mechanical Property Testing (Section 7.2)

Note 2: Applies to laboratory-prepared, loose mixes - short-term conditioning for the mixture mechanical property testing procedure.

- Spread mixture evenly in a pan to a thickness between 25 to 50 mm?
- Placed mixture & pan in oven for 4 h ± 5 min. at temperature of 135 ± 3.0°C
- Stirred the mixture after 60 ± 5 min. – to maintain uniform conditioning?
- Mixture removed from oven after 4 h ± 5 min.?
- Mixture ready for further conditioning or other testing?

C. Long-Term Conditioning for Mixture Mechanical Property Testing

Note 3: Applies to laboratory-prepared mixtures subjected to short-term conditioning as described in Note 2, plant-mixed HMA and compacted roadway specimens - long-term conditioning for the mixture mechanical property testing procedure.

PREPARED FROM LOOSE HMA:

1. Compacted Using the SP Gyrotory Compactor:

- Specimens compacted in accordance with T312?
- Cooled test specimen at room temperature for 16 ± 1 h?

Note 4: Specimen extruded from mold after cooling for initial 2 to 3 h.

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PREPARED FROM LOOSE HMA (continued)

2. Compacted Using the Rolling Wheel Compactor:

- Compacted in accordance with PP3? _____
- Test specimen cooled at room temperature for 16 ± 1 h? _____
- Removed slab from mold – sawed or core required specimen from slab? _____

COMPACTED ROADWAY SPECIMENS

- Cool specimens at room temperature for 16 ± 1 h? _____

and

For-Long Term Conditioning of Prepared Test Specimen

- Placed compacted specimen in oven at $85 \pm 3^\circ$ C for 120 ± 0.5 h? _____
- Turn oven off; open doors and allow specimen to cool to room temperature? _____

Note 5: Specimen not to be touched ore removed until it has cooled to room Temperature.

COMMENTS:
