

UDOT Minimum Sampling and Testing Requirements

Specification - Material: 02741 HMA

Assurance: Asphalt Binder Content and Sieve Analysis

Reference: AASHTO T 308 Method A, except Note 6 and AASHTO T 30

Lot Size: Production Day

Four random samples per lot

Frequency per Lot: If at least three samples cannot be taken, combine test results with the next day of production. Take one sample for each 500 tons or portion thereof from the following day's production.

Point of Acceptance: Grade behind the paver

Sampling Reference: MOI 8-984

Report/Form: Materials Database

Assurance: Theoretical Maximum Specific Gravity (Rice)

AASHTO T 209

Reference: One determination is the average of two test results split from a single sample. The two test results must be within the "Acceptable Range of Two Results – single-operator precision" as defined in T209. A third test result from the same sample may be necessary to have two within the range.

Lot Size: Production Day

Frequency per Lot: Three in conjunction with VMA determination

Point of Acceptance: Grade behind the paver

Sampling Reference: MOI 8-984

Report/Form: Materials Database

Assurance: Voids in Mineral Aggregate (VMA) Determination

Reference: AASHTO T 312, AASHTO R 35
One VMA determination is based on an average of two specimens.

Lot Size: Production Day

Frequency per Lot: Three, in conjunction with Rice Determination

Point of Acceptance: Grade behind the paver

Sampling Reference: MOI 8-984

Report/Form: Materials Database

Assurance: In-Place Density

Reference: AASHTO T 166

Lot Size: Production Day

700 tons and under – 4 cores

701 to 900 tons – 6 cores

Frequency per Lot: 901 to 1100 tons – 8 cores

>= 1100 tons – 10 cores

2 cores in each equally divided subplot

Point of Acceptance: Grade after compaction, prior to traffic

Sampling Reference: MOI 8-984

Report/Form: Materials Database

Assurance: Longitudinal Joint Density (This applies to all pavement as shown below except for Thin Overlay Pavement)

Reference: AASHTO T166

Lot Size: Production Day

Frequency per Lot: Take one core randomly for every 1000 feet or fraction thereof from each longitudinal joint within each lift of paving. Take a minimum of four longitudinal joint cores per lot.

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Point of Acceptance: Grade after compaction, prior to traffic

Sampling Reference: MOI 8-984

4 cases will be considered as follows:

	Type	Offset*	4 inch Core Size	6 inch Core Size	G _{mm}
1	Concrete or Milled edge to new Asphalt	3	X	X	H
2	New Asphalt to New Asphalt where the edge slope is approximately 1:1 or steeper	0	X	X	B
3	New Asphalt to New Asphalt where the edge slope is approximately 1:1 or flatter	3		X	B
4	Echelon Paving	0	X	X	B

*Offset is in inches from the visible joint to the center of the core. Offset is always to the hot side

** G_{mm} is the average G_{mm} from the lot. G_{mm} may be from either the hot side (H) or both the hot and cold side (B)

Report/Form: Materials Database

Assurance: Thickness

Reference: Average of three measurements on each core recorded to 1/8 inch

Lot Size: Production Day

Frequency per Lot: In conjunction with in-place density determination.

Point of Acceptance: Grade after compaction, prior to traffic

Sampling Reference: MOI 8-984

Report/Form: Materials Database

Assurance: Smoothness

Reference: Standard Specification 02701

Lot Size:

Frequency per Lot:

Point of Acceptance:

Sampling Reference:

Report/Form:

Assurance: Visual Acceptance of very small quantities of materials

Reference: Acceptance is limited to materials being furnished from sources found satisfactory under normal sampling and testing procedures.

Lot Size: For small projects with plan quantities of HMA less than 500 tons or for work such as utility work, traffic signals, detours, lane leveling, etc., the Engineer may elect to accept material based upon visual inspection. When acceptance is intended to be based upon visual inspection, the Engineer reserves the option of conducting any acceptance tests necessary to determine the material and workmanship meets the project requirements.

Frequency per Lot: One report for each day material is accepted

Point of Acceptance: Grade

Sampling Reference:

Report/Form: Visual Inspection Report
