Washington State Department of Transportation

Asphalt Mixtures Testing "Rice Density Worksheet"

Contract Number:	Class Mix:	Mix ID Number:
Lab ID Number:	Sample ID Number:	Acceptance Number:
JMF Pb:	JMF Mixing Temp.:	Source:

G_{mm} of Asphalt Mixtures (T 209)

Standardized Container Number	
Mass of Dry Container	
Mass of Dry Container & Sample	
A = Mass of Sample = (Mass of Dry Container & Sample — Dry Container)	
D = Mass of Container, Water and Cover (From Standardization Procedure)	
Water Temperature 77° ± 2°F or 25° ± 1°C	
E = Mass of Container, Sample, Water and Cover	
G_{mm} (Report to 0.001) = $\frac{A}{A + D - E}$	
Theoretical Maximum Density (Report to 0.1 lb/ft^3) = G_{mm} x 62.245 lb/ft^3	
Certified Tester:	Date:

Moving Average of Theoretical Maximum Density (WSDOT SOP 729)

Average Theoretical Maximum Density (TMD) Determination

- The average of the five (5) most recent TMD's from a given JMF should be used for compaction control.
- If less than 5 TMD's are available, the averages will be based on the number of TMD's available, excluding mix design data. See test procedure for additional information.Procedure for additional information.
- Procedure for additional information.

	(1)	(2)	(3)	(4)	(5)	Moving Average (0.1 lb/ft^3)
Density						
Test Date						

G_{mb} of Compacted Asphalt Mixtures (T 166)

Water Temperature 77° ± 1.8°F or 25° ± 1°C	
A = Specimen Dry Mass	
C = Specimen Weight in Water	
B = Specimen Saturated Surface Dry Mass	
G_{mb} (Report to 0.001) = $\frac{A}{B - C}$	
Percent Water Absorbed (Report to 0.01) = $\frac{B - A}{B - C}$ x 100	
Certified Tester:	Date: