

# TESTING OF HMA

CONTROL SECTION	JOB NUMBER	MIXTURE TYPE	MIX DESIGN NUMBER	LOT NUMBER	SUBLLOT NUMBER	REPORT No.	DATE
CONTRACTOR		PLANT No.	PLANT LOCATION		NAME OF TESTER ( Please Print)		QUALIFICATION NUMBER

<b>MAXIMUM THEORETICAL SPECIFIC GRAVITY (Gmm) (WITHOUT COVER)</b>	<b>CALCULATED ASPHALT CONTENT (Pb)</b>
A. Weight of Sample and Pycnometer Bowl in air (Dry), grams	$\frac{100 \times G_b \text{ _____ } \times (G_{se} \text{ _____ } - H. \text{ _____ })}{H. \text{ _____ } \times (G_{se} \text{ _____ } - G_b \text{ _____ })} \quad P_b = \text{ _____}$
B. Pycnometer Bowl Weight in Air (Dry), grams	
C. Weight of Sample in Air, (A. - B.)	<b>CALCULATED VOIDS IN MINERAL AGGREGATE (VMA)</b>
D. Weight of Sample and Pycnometer Bowl in Water, grams	
E. Pycnometer Bowl Weight in Water, grams	$100 - \left( \frac{(O. \text{ _____ } \times (100 - P_b \text{ _____}))}{G_{sb} \text{ _____}} \right) \quad VMA = \text{ _____}$
F. Weight of Sample in Water, (D. - E.)	
G. Volume of Sample, cc, (C. - F.)	<b>CALCULATED VOIDS FILLED WITH ASPHALT</b>
H. Maximum Theoretical Specific Gravity (Gmm), (C. / G.)	
	$\frac{100 (VMA \text{ _____ } - Q. \text{ _____ })}{VMA \text{ _____}} \quad VFA = \text{ _____}$

MARSHALL / GYRATORY DENSITY (Gmb) AND PERCENT AIR VOIDS	MARSHALL	GYRATORY
Sublot Number, Sample Letter		
I. Weight of Specimen in Air, grams		
J. Weight of Specimen in Water, grams		
K. Weight of Specimen in Air (Surface Dry), grams		
L. Volume of Specimen, (K. - J.), cc		
M. Marshall / Superpave Specific Gravity (Gmb), (I. / L.)		
N. Corrected Gyratory Specific Gravity (Gmb)		
O. Average Marshall / Gyratory Specific Gravity (Gmb), (Sum of M. / 3 Marshall, N. / 2 Gyratory)		
P. Maximum Theoretical Specific Gravity, (See H.)		
Q. Percent Air Voids, ((P - O) / P) x 100		

REMARKS:

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