

WORKSHEET FOR SUPERPAVE ASPHALT CONCRETE MIX DESIGN AASHTO R 35

Project:	Date:
Contractor:	Nominal Maximum Aggregate Size, :
Asphalt supplier:	Grade of asphalt:
Sources for: Aggregates:	Mineral filler:
Testing laboratory name:	Phone:
Testing performed by:	
Testing reported by:	

- | English | Metric | SUMMARY OF THE PROPOSED JOB-MIX-FORMULA |
|---|--------|---|
| 1. Number of gyrations ($N_{int}/N_{des}/N_{max}$) | | 10. Specific gravity of binder (G_b) |
| 2. Percent binder by mass of total mix (P_b) ¹ | | 11. Recommended plant mixing temperature,
(Attach Temperature Viscosity Curve) |
| 3. Percent binder by mass of aggregate | | 12. Percent compaction at N_{max} |
| 4. Air voids (V_a) at N_{des} | | 13. Hveem stabilometer value (If specified) |
| 5. Voids in mineral aggregate (VMA) at N_{des} | | 14. Moisture Susceptibility: |
| 6. Voids filled with asphalt (VFA) at N_{des} | | a. Dry strength, |
| 7. Maximum unit mass (G_{mm}) | | b. Wet strength, |
| 8. Effective specific gravity of aggregate (G_{se}) | | c. Index of Retained Strength, % |
| 9. Dust-to-Binder Ratio (DP) | | |

GRADATION TARGET VALUES AND ALLOWABLE DEVIATIONS			SPECIFIC GRAVITY AND ABSORPTION		
Sieve Sizes	Job Mix Formula Target Value ²	Allowable Deviation ³ %	Fine Aggregate (AASHTO T 84)	Coarse Aggregate (AASHTO T 85)	Combined Aggregate
			Bulk SG (G_{sb})		
			Bulk SSD SG		
			Apparent SG (G_{sa})		
			Absorption	%	%

¹ Establish asphalt cement content (percent by mass of mix) to the nearest 0.01 percent.
² Establish target values to the nearest 0.1 percent as a part of the job mix formula.
³ Allowable deviations plus or minus from established target values.

WORKSHEET FOR A SUPERPAVE MIX DESIGN (Continued)

Trial Number	1		AVG		2		AVG		3		AVG	
% Asphalt by mass of total mix (P_b)												
Specimen height,												
Effective Binder Content (P_{be})												
Bulk specific gravity at N_{des} (G_{mb})												
% compaction at N_{int}												
% Air voids at N_{des} (V_A)												
Max. unit mass G_{mm}												
Voids in mineral aggregate (VMA) at N_{des}												
Voids filled with asphalt (VFA) at N_{des}												
Dust-to-Binder Ratio, (DP)												
Hveem Stabilometer value												
Trial Number	4		AVG		5		AVG		6		AVG	
% Asphalt by mass of total mix (P_b)												
Specimen height,												
Effective Binder Content (P_{be})												
Bulk specific gravity at N_{des} (G_{mb})												
% compaction at N_{int}												
% Air voids at N_{des} (V_A)												
Max. unit mass G_{mm}												
Voids in mineral aggregate (VMA) at N_{des}												
Voids filled with asphalt (VFA) at N_{des}												
Dust-to-Binder ratio, (DP)												
Hveem Stabilometer value												

Test Results for Each of the Individual Moisture Susceptibility Test Specimens

Percent asphalt binder:

AASHTO T 283

Specimen Dia: 6 inch 4 inch

Antistrip, type, amount:

Freeze cycle: Yes No

Sample I.D.								Average
Height	Dry							
	Wet							
Bulk Specific Gravity	Dry							
	Wet							
Air Voids	Dry							
	Wet							
Strength	Dry							
	Wet							
Retained Strength, %								

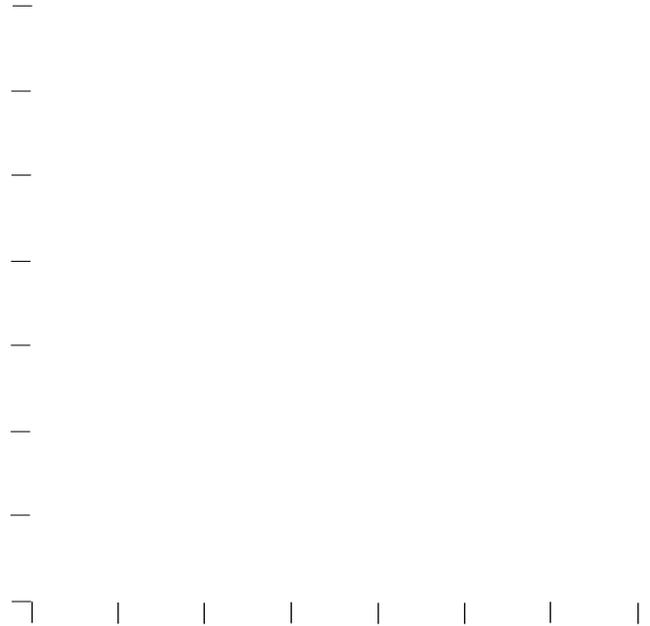
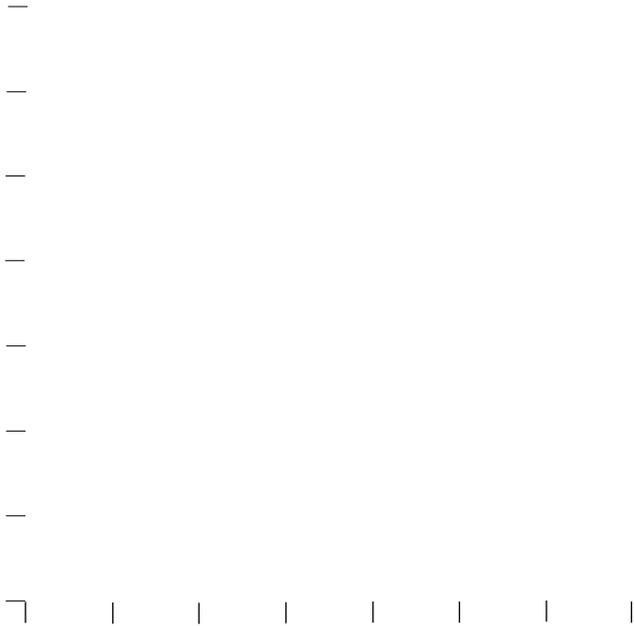
WORKSHEET FOR A SUPERPAVE MIX DESIGN (Continued)

Design Curves for Proposed Job Mix Formula (JMF)

AIR VOIDS (V_a)

UNIT MASS

% Air voids (V_a)



% Asphalt binder (P_b)

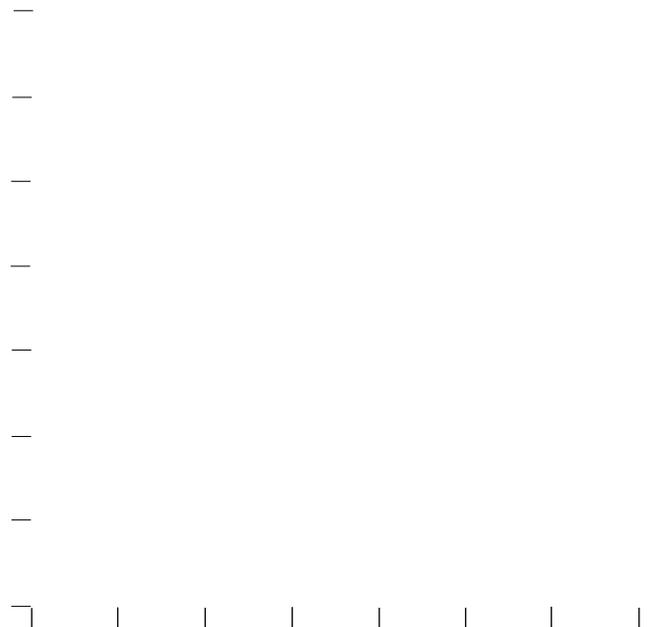
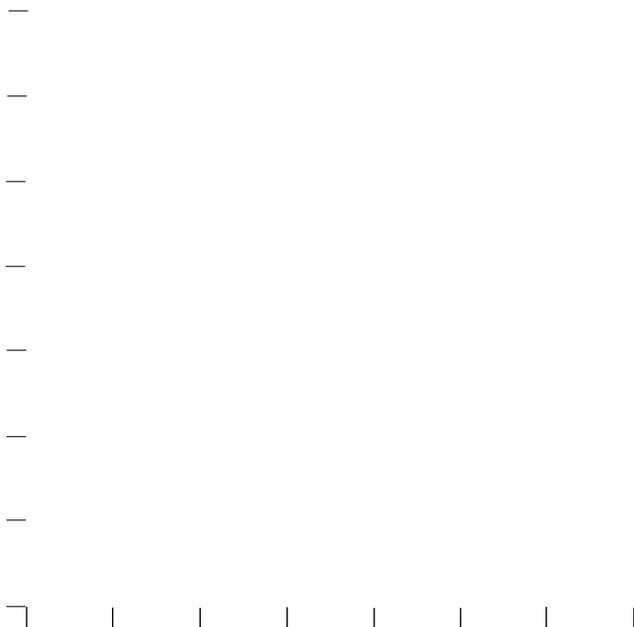
% Asphalt binder (P_b)

VFA

VMA

Voids filled with asphalt

Voids in mineral aggregate



% Asphalt binder (P_b)

% Asphalt binder (P_b)