



WORKSHEET FOR A HVEEM ASPHALT CONCRETE MIX DESIGN AASHTO T 246

Project: _____ Date: _____

Contractor: _____ Class of mixture: _____

Asphalt supplier: _____ Grade of asphalt: _____

Sources for : Aggregates: _____, Mineral filler: _____

Admixtures: _____, _____

Testing laboratory name: _____ Phone: _____

Testing performed by: _____

Testing reported by: _____

SUMMARY OF THE PROPOSED JOB-MIX-FORMULA

- | | |
|--|--|
| 1. Percent asphalt by mass of total mix ¹ _____ | 9. Specific gravity of asphalt _____ |
| 2. Percent asphalt by mass of aggregate _____ | 10. Specific gravity of mineral filler _____ |
| 3. Air voids _____ | 11. Dust/asphalt ratio _____ |
| 4. Voids in mineral aggregate (VMA) _____ | 12. Immersion compression test results: |
| 5. Maximum specific gravity (AASHTO T 209) _____ | a. Dry strength, kPa _____ |
| 6. Recommended plant mixing temperature, °C _____ | b. Wet strength, kPa _____ |
| 7. Effective specific gravity of aggregate _____ | c. Index of retained strength, % _____ |
| 8. Stabilometer value (AASHTO T 246) _____ | |

GRADATION TARGET VALUES AND ALLOWABLE DEVIATIONS			SPECIFIC GRAVITY AND ABSORPTION		CKE
Sieve Sizes	Target Value ² % by Mass Passing	Allowable Deviation ³ %	Fine Aggregate (AASHTO T 84)	Coarse Aggregate (AASHTO T 85)	Centrifuge Kerosene Equivalent (AASHTO T 270)
_____	_____		Bulk SG	_____	Surface Area: _____ m ² /kg
_____	_____	_____	Bulk SSD SG	_____	
_____	_____	_____	Apparent SG	_____	Asphalt % by CKE: _____ %
_____	_____	_____	Absorption	_____ %	
_____	_____	_____		_____ %	
_____	_____	_____			

¹ Asphalt cement content (percent by mass of mix) shall be established to the nearest 0.01 percent.
² Target values to be established by the contractor as part of the JMF. Target value shall be established to the nearest 0.1 percent.
³ Allowable deviations plus or minus from established target values.

WORKSHEET FOR A HVEEM ASPHALT CONCRETE MIX DESIGN (Continued)

	Stockpile Description	Quantity Represented	Blend Ratio
Stockpile A	_____	_____	%
Stockpile B	_____	_____	%
Stockpile C	_____	_____	%
Stockpile D	_____	_____	%
Stockpile E	_____	_____	%

Stockpile Gradation

Sieve Size	Stockpile A %	Stockpile B %	Stockpile C %	Stockpile D %	Stockpile E %	Blended Stockpile Gradation	Target Values	Specification Limits
_____								100.0
_____								97.0 - 100.0

Remarks: _____

WORKSHEET FOR A HVEEM ASPHALT CONCRETE MIX DESIGN (Continued)

Trial Number ¹	1			2			3		
% Asphalt by mass of total mix									
% Asphalt by mass of aggregate									
Specimen height in millimeters									
Stabilometer value									
Bulk specific gravity									
Bulk unit mass (kg/m ³)									
Max. specific gr. (AASHTO T 209)									
Max. unit mass (AASHTO T 209)									
Dust/asphalt ratio									
% Air voids									
Voids in mineral aggregate (VMA)									
Trial Number ¹	4			5			6		
% Asphalt by mass of total mix									
% Asphalt by mass of aggregate									
Specimen height in millimeters									
Stabilometer value									
Bulk specific gravity									
Bulk unit mass (kg/m ³)									
Max. specific gr. (AASHTO T 209)									
Max. unit mass (AASHTO T 209)									
Dust/asphalt ratio									
% Air voids									
Voids in mineral aggregate (VMA)									

¹ Three test trials are required for each asphalt content.

Test Results for Each of the Individual Immersion Compression Test Specimens

Percent asphalt cement: _____

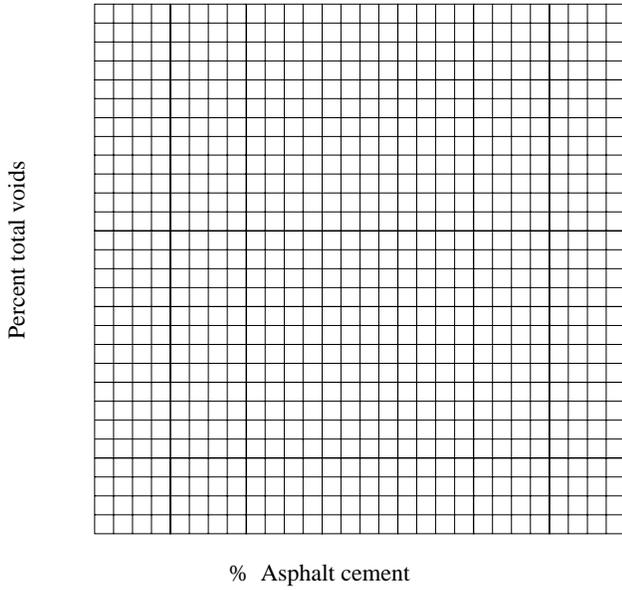
Specimen ID		Specimen Height (mm)		Bulk Specific Gravity		Air Voids (%)		Compressive Strength (kPa)	
Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
Averages									

Index of retained strength: _____ %

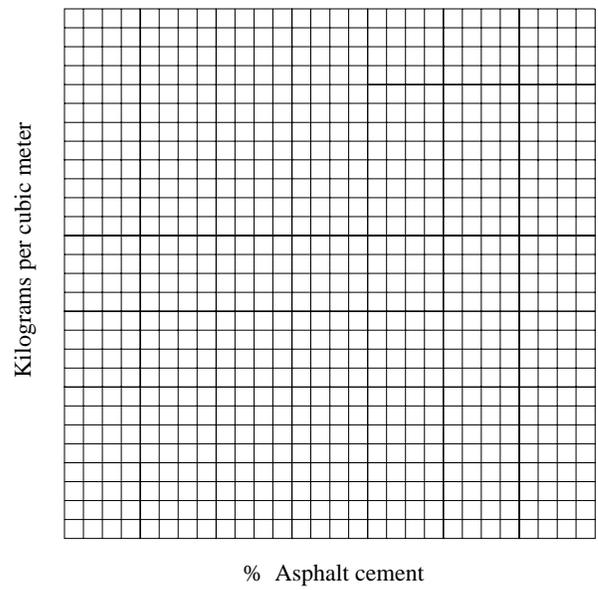
WORKSHEET FOR A HVEEM ASPHALT CONCRETE MIX DESIGN (Continued)

Design Curves for Proposed Job Mix Formula (JMF)

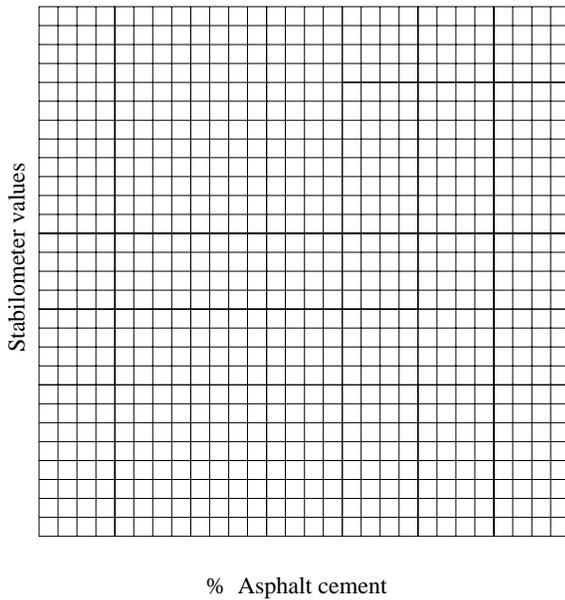
AIR VOIDS



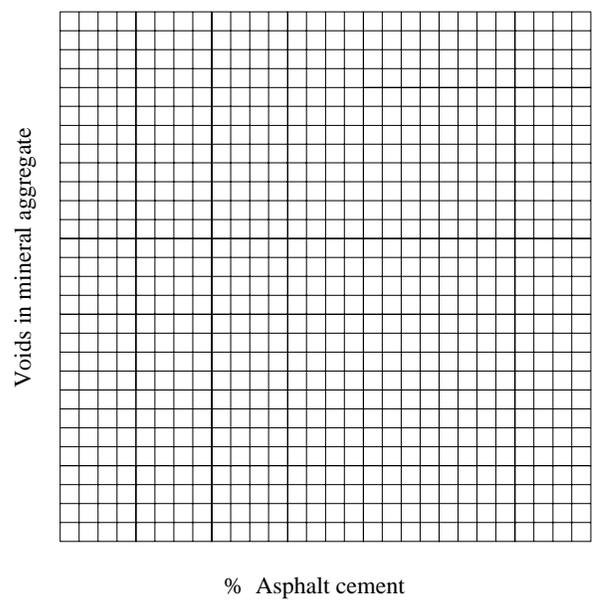
UNIT MASS



STABILOMETER

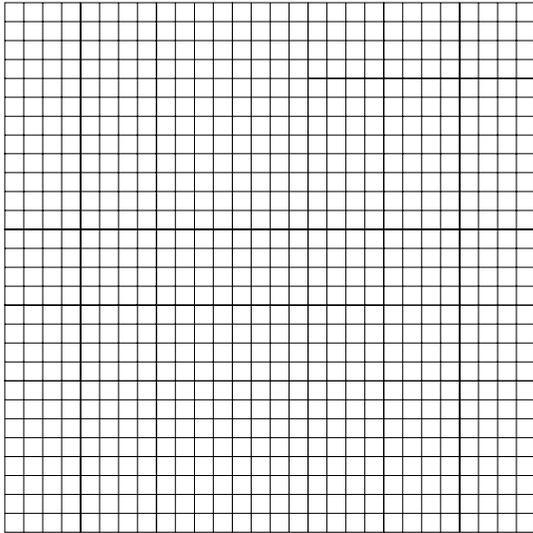


VMA

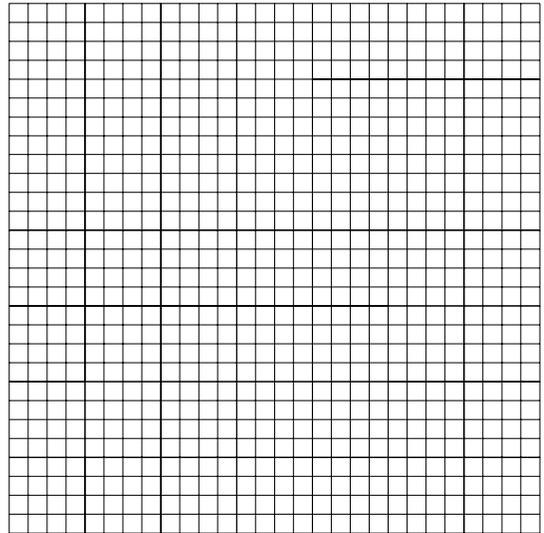


WORKSHEET FOR HVEEM ASPHALT CONCRETE MIX DESIGN (Continued)

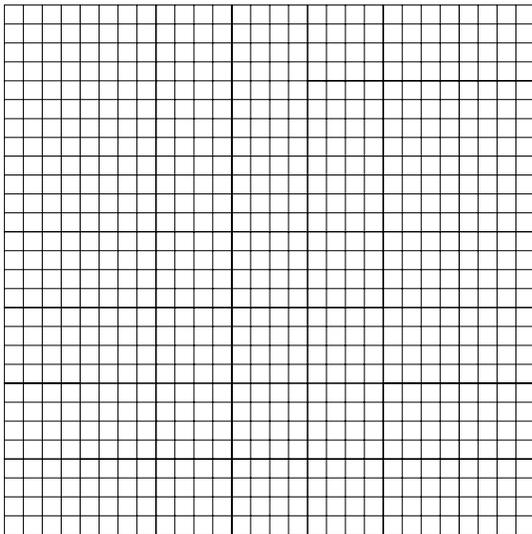
Design Curves for Proposed Job Mix Formula (JMF)



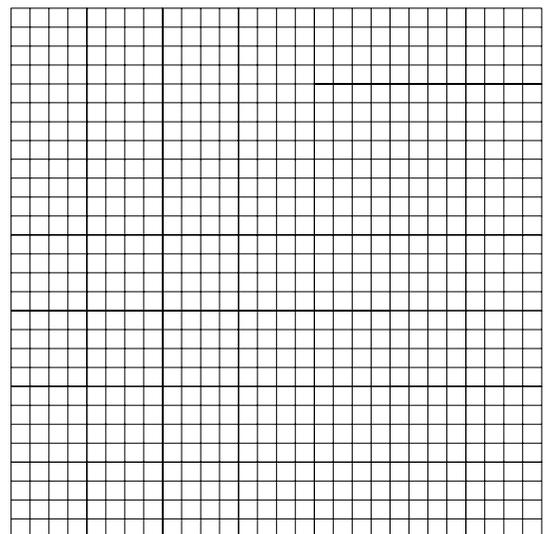
% Asphalt cement



% Asphalt cement



% Asphalt cement



% Asphalt cement