CCIL / LABORATORY INSPECTION CHECKLIST

Preparation of Marshall Specimens (from bituminous mixes) ASTM D6927-06

APPARATUS

1. Breaking	g Head / Clause 4.1					
2. Compre	ssion Loading Machine / Clause 4.2					
a.	Load – uniform vertical movement maintained at 50 ± 5mm/min					
3. Load Measuring Device / Clause 4.3						
a.	Dial indicator graduated in increments of 0.00025 mm (0.0001 in.) or finer					
4. Flowmeter / Clause 4.4						
a.	Graduation of the flowmeter gauge 0.25 mm (0.01) or finer					
5. Water Bath / Clause 4.5						
a.	Water level maintained at a minimum of 30 mm above the top of specimens					
b. c. d.	Thermostatically controlled to ± 1.0°C (2.0°F) at any point in the tank					
6. Oven / Clause 4.6						
a.	Able to maintain the specified temperature at ± 1°C (2°F)					
7. Thermometers / Clause 4.8						
a.	Calibrated thermometers readable to 0.2°C (0.4°F)					
PROCEDU	JRE / Clause 5.0					
a. b.	Minimum of 3 specimens tested (per mixture)?					
C.	Thickness of specimen measured according to ASTM D3549?					

Note 1: laboratory molded specimens shall comply with the thickness requirements of 63.5 \pm 2.5mm.

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PROCEDURE (continued)

	e.	Specimens conditioned to specified temperature
		 Temperature set at 60 ± 1°C (140 ± 2 °C) for water bath or oven Placed in water bath for 30 to 40 minutes Placed in oven for 120 to 130 minutes
		Note 2: Specimens can be conditioned for testing once they reach ambient room temperature (clause 5.3).
	f. g. h. i. j. k.	Specimen removed from conditioning and placed in testing head assembly Flowmeter positioned over guide rod and adjusted to zero
CALC	UL	ATIONS / Clause 6.0
	a.	Correction factor based on volume or thickness
		Example: $A = B \times C$
		Where: A = corrected stability, B = measure of stability (load), C = correlation ratio from Table 1 (Reference ASTM D6926 - 06 / Pg 7)
REPO	RTI	NG / Clause 7.0
(b. c. d. e.	Type of sample (laboratory, plant or core specimen) Nature of bituminous mixture, aggregate type, grading, binder grade and binder content – if available? Individual and average BRD's? Height of specimens to the nearest 0.25 mm (0.01 in.)? Individual and average Marshall Flow values (clause 7.1.6)? Test temperature to the nearest 0.2°C (0.4°F)?
COMN	/IEN	ITS: