PERFORMANCE EXAM CHECKLIST

Resistance to Deformation and Cohesion Of Bituminous Mixtures By Means Of Hveem Apparatus For AASHTO T246

Participant Name:_____ Exam Date:_____

Record the symbols "P" for passing or "F" for failing on each step of the checklist.

	Trial 1	Trial 2
Adjustment of Stabilometer		
1. Base adjusted so that distance from bottom of upper tapered ring to top of base is 89 mm (3.5 in.)?	_____	_____
2. Calibration cylinder inserted into stabilometer?	_____	_____
3. A horizontal pressure of 34.5kPa (5 psi) applied?	_____	_____
4. Turns indicator dial adjusted to zero?	_____	_____
5. Pump handle turned until the stabilometer dial reads 689kPa (100 psi)?	_____	_____
6. Pump handle turned at approx. two turns per second?	_____	_____
7. Turns indicator dial reads 1.95 and 2.05 turns?	_____	_____
8. If not, is in the air in the cell adjusted and procedure repeated?	_____	_____
Resistance to Deformation		
1. Test specimens mixed and compacted in accordance with T247?	_____	_____
2. Specimen brought to 60 ± 3°C (140 ± 5°F)?	_____	_____
3. Specimen transferred from mold to stabilometer by means of the push-out device?	_____	_____
4. Tamped end of specimen is up?	_____	_____
5. Follower placed on top of specimen?	_____	_____
6. Vertical movement of press begun?	_____	_____
7. Speed of 1.3 mm/min (0.05 in./min)?	_____	_____
8. If locking shims used on spherical head of loading device, shims removed prior to stabilometer test?	_____	_____
9. Stabilometer gauge readings recorded at vertical loads of 2.23, 4.45, 8.90, 13.4, 17.8, 22.3 and 26.7 kN (500, 1000, 2000, 3000, 4000, 5000, 6000 lbf)?	_____	_____
10. Vertical movement of press stopped at 26.7 kN (6000 lbf) load?	_____	_____
11. Vertical load immediately reduced to 4.45 kN (1000 lbf)?	_____	_____
12. Horizontal pressure adjusted to 34.5 kPa(5 psi)? *Note: This will result in a further reduction of the vertical load and is normal.*	_____	_____
13. Pump handle turned until the stabilometer dial reads 689 kPa (100 psi)?	_____	_____
14. Pump handle turned at approx. two turns per second?	_____	_____
15. Number of turns recorded as the displacement reading (D)?	_____	_____
16. Stabilometer value calculated correctly?	_____	_____
17. If height of specimen is not 64 ± 3 mm (2.5 ± 0.1 in.), is stabilometer value corrected as shown below?	_____	_____

$$S = \frac{22.2}{P_h * D / (P_v - P_h) + 0.222}$$

Where: S = stabilometer value
P_h = horizontal pressure
P_v = vertical pressure
D = displacement

COMMENTS: First attempt: Pass ☐ Fail ☐ Second attempt: Pass ☐ Fail ☐

Signature of Examiner _____