Performance Exam Checklist

ASTM D 2628 AASHTO M220

Test for High and Low Temperature Recovery of Elastomeric Joint Seals for Concrete Pavements

Participant Name: _____   Exam Date: _____

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

Procedure Element	**Trial 1**	**Trial 2**
1. Sample is cut into 5-inch pieces?	____	____
2. Specimens for high and low temperature recovery tests (2 each) lightly dusted with talc?	____	____
3. Specimens deflected between parallel plates to 50% of the nominal width using a compression device clamp assembly?	____	____

High Temperature Recovery

	Trial 1	**Trial 2**
1. Clamp assembly containing the compressed specimens placed in an oven capable of maintaining 212 ± 2°F (100 ± 1°C) and kept there for 70 hours?	____	____
2. Clamp assembly removed from the oven after 70 hours?	____	____
3. Unclamped the assembly and carefully removed the specimens?	____	____
4. Specimens allowed to rest on a wooden surface at room temperature for 1 hour?	____	____
5. Recovered width of the specimens measured in the center of the 5-inch length at the top of the longitudinal edge using a dial caliper or other measuring device?	____	____
6. Data entered into the computer data base where % Recovery is automatically calculated?	____	____

Low Temperature Recovery

	Trial 1	**Trial 2**
1. Clamp assembly containing the compressed specimens placed in a refrigerated chamber capable of maintaining -20 ± 2°F (-29 ± 1°C) and kept there for 22 hours?	____	____
2. Clamp assembly removed from the chamber after 22 hours?	____	____
3. Unclamped the assembly and carefully removed the specimens?	____	____
4. Specimens transferred to a wooden surface in the chamber and allowed to recover for 1 hour?	____	____
5. Specimens removed from the chamber and measured the recovered width in the center of the 5-inch length at the top of the longitudinal edge using a dial caliper or other measuring device?	____	____
6. Data entered into the computer data base where % Recovery is automatically calculated?	____	____

$$\text{Recovery, \%} = \text{recovered width} \times 100 / \text{nominal width}$$

Comments: First Attempt: Pass _____ Fail _____   Second Attempt: Pass _____ Fail _____

Examiner Signature: _____   WAQTC #: _____