

AASHTO - PERFORMANCE EXAM CHECKLIST

Applicant: _____

Date: _____

AASHTO R68-22 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus

		First test	Retest
		Yes/No	Yes/No
<u>Plant Produced</u>			
<i>SEC: 4.5.2</i>	Sample size that will result in a compacted specimen 63.5±1.27 mm (2.5±0.05 in.)	_____	_____
<i>SEC: 4.5.3</i>	Place the sample into a pan to a uniform thickness.	_____	_____
<i>SEC: 4.5.4</i>	Bring the asphalt mixture to the compaction temperature range by careful, uniform heating in an oven immediately prior to compaction.	_____	_____
<i>SEC: 4.6.1</i>	Mold assembly and hammer clean. Mold assembly and Face of compaction hammer heated to a temperature between 93.3 and 148.9°C (200 and 300°F).	_____	_____
<i>SEC: 4.6.2</i>	Place paper in the bottom of the mold before the mixture is introduced.	_____	_____
<i>SEC: 4.6.3</i>	Place the entire batch in the mold, and spade the mixture vigorously with a heated spatula or trowel 15 times around the perimeter and 10 times over the interior.	_____	_____
<i>SEC: 4.6.3</i>	Smooth the surface of the mix to a slightly rounded shape.	_____	_____
<i>SEC: 4.6.3</i>	Check the temperature immediately prior to compaction and verify it's within compaction temperature. If it is too high, allow to cool. If the mixture is below compaction temperature, remove the mixture from the mold and replace it in the oven until the desired temperature is reached. This process should not be repeated more than once. The material should be heated for the minimum time required to achieve the compaction temperature.	_____	_____
<i>SEC: 4.6.4</i>	Place paper on top of the mixture and place the mold assembly on the compaction pedestal in the mold holder. Apply 50 or 75 blows with the compaction hammer. Reverse the assembly and apply the same number of blows to the specimen.	_____	_____
<i>SEC: 4.6.5</i>	After compaction, remove the base plate, carefully extract the specimen from the mold and transfer to a smooth, flat surface.	_____	_____
<i>SEC: 4.6.6</i>	Allow to cool.	_____	_____

Examiner: _____

SCORE: **PASS** **FAIL** **FAIL**
 Proctor Initials:

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