

# AASHTO - PERFORMANCE CHECKLIST

Applicant: \_\_\_\_\_

Date: \_\_\_\_\_

## AASHTO R47- 23 Reducing Samples of Asphalt Mixtures to Testing Size

		First test	Retest
		Yes/No	Yes/No
<b><u>Mechanical Splitter Type A (Quartermaster)</u></b>			
<i>SEC: 8.1</i>	Place the splitter on a level surface. The splitter and accessory equipment may be heated, not to exceed the maximum mixing temperature. Surfaces may be lightly coated with an approved asphalt release agent.	_____	_____
<i>SEC: 8.2.1</i>	Place the asphalt mixture into the mechanical splitter hopper (Note: hopper in closed position) and position four receptacles under the chutes.	_____	_____
<i>SEC: 8.2.2</i>	Fill the hopper in a manner to avoid segregation of the asphalt mixture.	_____	_____
<i>SEC: 8.2.3</i>	Release the handle to drop the asphalt mixture through the dividers into the sample receptacles.	_____	_____
<i>SEC: 8.2.4</i>	Reintroduce selected receptacles from opposite corners into the splitter hopper as many times as necessary to reduce the asphalt sample to the size for the intended test.	_____	_____
<b><u>Quartering Method</u></b>			
<i>SEC: 10.1</i>	Place the sample on a hard nonstick surface. The surface may be made nonstick with an approved asphalt release agent or paper. The template and other tools may be heated to not exceed the maximum mixing temperature.	_____	_____
<i>SEC: 10.2</i>	Mix the material thoroughly by turning the entire sample over a minimum of four times with a flat bottom scoop or by alternately lifting each corner of the paper and pulling it over the sample diagonally toward the opposite corner, causing the material to be rolled.	_____	_____
<i>SEC: 10.2</i>	Create a conical pile by either depositing each scoop or shovelful of the last turning on top of the preceding one, or lifting both opposite corners.	_____	_____
<i>SEC: 10.3</i>	Carefully flatten the conical pile to a uniform thickness with a diameter four to eight times the thickness by pressing down the top.	_____	_____
<i>SEC: 10.3</i>	Make a visual observation to ensure that the material is homogeneous.	_____	_____
<i>SEC: 10.4</i>	Divide the flattened mass into four quarters by inserting the quartering template and pressing down until the template is in complete contact with the surface.	_____	_____

**SEC: 10.4** Straight edges may be used in lieu of the quartering device to completely separate the material into approximately equal quarters.

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**SEC: 10.5.1.1** Remove two diagonally opposite quarters, including all fine material.

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**SEC: 10.5.1.3** Repeat until the required sample size is obtained.

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**SEC: 10.5.1.3** The final test sample consists of two diagonally opposite quarters.

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**Sec:10.5.2** **Sectoring**

**SEC: 10.5.2.1** Using a straight edge, obtain a sector by slicing through a quarter of the asphalt from the center point to the outer edge of the quarter.

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**SEC: 10.5.2.2** Pull or drag the sector from the quarter holding one edge of the straightedge in contact with the quartering device. Two straight edges may be used in lieu of the quartering device.

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**SEC: 10.5.2.3** Remove an approximately equally sector from the opposite quarter.

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**SEC: 10.5.2.2.4** Repeat until the required sample size is obtained.

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Examiner: \_\_\_\_\_

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

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