

Performance Examination Checklist — Practice C617/C617M (Capping)

Examinee Name (please print): _____

Last four digits of Social Security Number: _____

Employer: _____

This checklist forms the *basis* of the performance examination; it does not necessarily reflect all of the detail necessary to conduct the procedures in complete compliance with the governing ASTM Practice. Examination of performance may refer to relevant procedural details contained in the published ASTM Practice but which are not included in this checklist.

	<i>First Trial</i>	<i>Second Trial</i>	<i>Re-Trial</i>
1. Inspect capping plate for gouges, grooves, or indentations. (Para. 4.1)	PASS FAIL	PASS FAIL	PASS FAIL
2. Form cap on cylinder:			
A.) <u>If using freshly molded cylinders:</u>			
i.) Do not apply the neat paste to the exposed end until the concrete has ceased settling in the molds. (Para. 6.1)	PASS FAIL	PASS FAIL	PASS FAIL
ii.) Remove free water and laitance from the top of the specimen immediately before capping. (Para. 6.1)	PASS FAIL	PASS FAIL	PASS FAIL
iii.) Place a conical mound of paste on the specimen and then gently press a freshly oiled capping plate on the conical mound until the plate contacts the rim of the mold. The capping plate must not rock during this operation. (Para. 6.1)	PASS FAIL	PASS FAIL	PASS FAIL
iv.) Carefully cover the capping plate and mold with a double layer of damp burlap and a polyethylene sheet to prevent drying. (Para. 6.1)	PASS FAIL	PASS FAIL	PASS FAIL
B.) <u>If using high-strength gypsum paste or neat cement paste:</u>			
i.) Place a conical mound of paste on the specimen and then gently press a freshly oiled capping plate on the conical mound until the plate contacts the rim of the mold. The capping plate must not rock during this operation. (Para. 6.2.3)	PASS FAIL	PASS FAIL	PASS FAIL
ii.) Carefully cover the capping plate and mold with a double layer of damp burlap and a polyethylene sheet to prevent drying. (Para. 6.2.3)	PASS FAIL	PASS FAIL	PASS FAIL
C.) <u>If using sulfur mortar:</u>			
<i>Water or other suitable liquid at room temperature may be substituted for molten sulfur in Steps i–vi.</i>			
i.) Prepare sulfur mortar by heating to a temperature between 130 to 145 °C [265 and 290 °F]. (Para. 6.2.4)	PASS FAIL	PASS FAIL	PASS FAIL

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	<i>First Trial</i>	<i>Second Trial</i>	<i>Re-Trial</i>
ii.) Check to ensure that capping plate and device are warm. (Para. 6.2.4)	PASS FAIL	PASS FAIL	PASS FAIL
iii.) Oil capping plate lightly. (Para. 6.2.4)	PASS FAIL	PASS FAIL	PASS FAIL
iv.) Stir the molten sulfur mortar immediately prior to pouring each cap. (Para. 6.2.4)	PASS FAIL	PASS FAIL	PASS FAIL
v.) Check end of cylinder to ensure that it does not contain excess moisture. (Para. 6.2.4)	PASS FAIL	PASS FAIL	PASS FAIL
vi.) Form cap on cylinder. (Para. 6.2.4)	PASS FAIL	PASS FAIL	PASS FAIL

Provide prepared, capped cylinder to the Examinee.

3.	Check cap for planeness with straight edge and feeler gauge. (Para. 6.2.5.1)	PASS FAIL	PASS FAIL	PASS FAIL
4.	Check cap for hollow areas. (Para. 6.2.5.1)	PASS FAIL	PASS FAIL	PASS FAIL
5.	Protect capped specimen from drying by covering with double layer of moist burlap or by returning to moist room. (Para. 7.1)	PASS FAIL	PASS FAIL	PASS FAIL

In order to merit a passing overall score on the performance exam, each of the individual steps must have been passed on either the first or second trial, or on the re-trial following a voluntary suspension.

OVERALL SCORE (circle one for each trial)	PASS FAIL SUSPENDED	PASS FAIL SUSPENDED	PASS FAIL
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Signature: _____ Date: _____
 Supplemental Examiner (First Trial and Re-Trial, where applicable)

Signature: _____ Date: _____
 Supplemental Examiner (Second Trial and Re-Trial, where applicable)