## WSDOT FOP for AASHTO T 22

### Compressive Strength of Cylindrical Concrete Specimens

WSDOT has adopted the published AASHTO T 22 with errata's below.

AASHTO Test Methods cannot be included in Materials Manual due to copyright infringement.

WSDOT employees can access AASHTO and ASTM test methods in the following web address: wwwi.wsdot.wa.gov/tools-services/library-services/access-aashto-publications-and-astm-aci-or-sspc-standards

Non-WSDOT employees can order AASHTO's Standard Specifications for Transportation Materials and Methods of Sampling and Testing, using the following web address: https://store.transportation.org

#### 5. Significance and Use

5.2. Include Note below.

*Note:* Testing for determining compressive strength of cylinder specimens shall require a set of two specimens made from the same sample.

### 7. Specimens

- 6.3. Step not recognized by WSDOT.
- 6.4. Determine specimen mass and length as described below.

Remove any surface moisture with a towel and measure the mass of the specimen using a balance or scale that is accurate to within 0.3 percent of the mass being measured. Measure the length of the specimen to the nearest 1 mm (0.05 in.) at three locations spaced evenly around the circumference. Compute the average length and record to the nearest 1 mm (0.05 in.).

#### 8. Procedure

8.3. Include Note below.

*Note:* The 28-day compressive break may be extended by up to 48 hours if the scheduled 28-day break falls on a Saturday, Sunday, or Holiday. The Regional Materials Engineer must authorize the time extension in writing.

#### 10. Report

10.1. Include Note below.

Note: The report shall also include specimen mass and length as determined in 7.4..

### **Performance Exam Checklist**

## AASHTO T 22

# Compressive Strength of Cylindrical Concrete Specimens

Parti	cipant Name: Exam Date:	Exam Date:			
Reco	ord the symbols "P" for passing or "F" for failing on each step of the checklist.				
Procedure Element					
1.	The tester has a copy of the current procedure on hand?				
2.	All equipment is functioning according to the test procedure, and if required has the current calibration/standardization/check and maintenance tags present?				
3.	Specimens kept moist between removal from moist storage and testing?				
4.	Diameter of the cylinder recorded to the nearest 0.01 inch by averaging two diameters taken at about mid-height?				
5.	Specimen not tested if individual diameter readings differ more than 2 percent?				
6.	Ends of specimen checked for perpendicularity to the axis?				
7.	Specimen mass and length recorded?				
8.	Ends of specimen checked for plane?				
9.	If ends not plane, specimen sawed or ground to meet tolerance or capped in accordance to either AASHTO T 231 or ASTM C1231? (Refer to AASHTO T 231 or ASTM C1231 procedure and checklist if used)				
10.	Bearing faces wiped clean?				
11.	Load indicator set to zero?				
12.	Spherical seated block parallel to top of specimen prior to applying load?				
13.	If using Unbonded Caps, alignment of specimen checked after application of load but before reaching 10 percent of anticipated load strength?				
14.	Load applied continuously and without shock?				
15.	The designated load rate maintained at least during the latter half of anticipated load strength?				
16.	No adjustment to load rate as ultimate load is being approached?				
17.	Compressive load continued until tester is certain ultimate capacity has been attained?				
18.	Maximum load and type of fracture recorded?				
19.	Specimens broken within permissible time tolerances?				
20.	All calculations performed correctly?				

T 22						
Comments:	First Attempt: F	Pass	Fail	Second Attem	pt: Pass	Fail
Examiner Sig	nature:				WAQTC #:	