

**Replace the 2nd paragraph of section 40-1.01C(4) with:**

10-15-21

At least 15 days before starting field qualification, submit the proposed concrete mix proportions, the corresponding mix identifications, and laboratory test reports, including measurements of 3 modulus of rupture and 3 compressive strength, for each trial mixture at 3, 7, 14, 21, 28, and 42 days.

**Replace the 3rd paragraph of section 40-1.01D(1) with:**

10-15-21

Provide material, labor and equipment that meets the initial curing requirement to assist the Engineer in fabricating, curing and handling specimens for the Department's modulus of rupture and compressive strength testing. Failure to maintain the proper curing environment during initial cure will not be basis for rejection of samples, dispute resolution, or claim against the Department. Secure the initial curing equipment at all times to protect against theft and damage.

**Add to the list in the 3rd paragraph of section 40-1.01D(3):**

10-15-21

17. Compressive strength

**Replace the 3rd paragraph of section 40-1.01D(5) with:**

10-15-21

To determine the minimum content of cementitious materials or the maximum ratio of water to cementitious materials, use the compressive strength equivalent to modulus of rupture values of at least 570 psi for 28 days age and at least 650 psi for 42 days age. Compressive strength must be tested under CT 521.

**Replace the 2nd paragraph of section 40-1.01D(7)(b) with:**

10-15-21

For field qualification, the compressive strength must be equivalent to a modulus of rupture at an age of 42 days or earlier of at least:

1. 625 psi for each single beam
2. 650 psi for the average of 3 beams

**Replace the row for *modulus of rupture at 28 days* in the table in the 1st paragraph of section 40-1.01D(8)(a) with:**

10-15-21

Compressive strength at 42 days	California Test 521	1,000 cu yd
---------------------------------	---------------------	-------------

**Replace the row for *modulus of rupture at 28 days* in the table in the 1st paragraph of section 40-1.01D(8)(c)(i) with:**

10-15-21

Compressive strength at 42 days (min, psi)	California Test 521	650 <sup>b</sup> equivalent modulus of rupture to compressive strength
--------------------------------------------	---------------------	------------------------------------------------------------------------

**Replace the note *b* in the table in the 1st paragraph of section 40-1.01D(8)(c)(i) with:**

<sup>b</sup>Average of the individual test results of 3 cylinders

10-15-21