

## Chapter 17 STRUCTURAL TESTS AND INSPECTIONS

### SECTION 1701 — SPECIAL INSPECTIONS

**1701.1 General.** In addition to the inspections required by Section 108, the owner or the engineer or architect of record acting as the owner's agent shall employ one or more special inspectors who shall provide inspections during construction on the types of work listed under Section 1701.5.

**EXCEPTION:** The building official may waive the requirement for the employment of a special inspector if the construction is of a minor nature.

**1701.2 Special Inspector.** The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection.

**1701.3 Duties and Responsibilities of the Special Inspector.** The special inspector shall observe the work assigned for conformance with the approved design drawings and specifications. The special inspector shall furnish inspection reports to the building official, the engineer or architect of record, and other designated persons. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority and to the building official.

The special inspector shall submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plan and specifications and the applicable workmanship provisions of this code.

**1701.4 Standards of Quality.** The standards listed below labeled a "U.B.C. standard" are also listed in Chapter 35, Part II, and are part of this code.

1. **Concrete.**  
U.B.C. Standard 19-3, Ready-mixed Concrete
2. **Connections.**  
Chapter 22, Division IV, High-strength Bolting
3. **Fireproofing.**  
U.B.C. Standard 7-6, Thickness and Density Determination for Spray-applied Fireproofing

**1701.5 Types of Work.** Except as provided in Section 1701.1, the types of work listed below shall be inspected by a special inspector.

1. **Concrete.** During the taking of test specimens and placing of reinforced concrete. See Item 1 for shotcrete.

**EXCEPTIONS:** 1. Concrete for foundations conforming to minimum requirements of Table 18-1-D or Group R, Division 3 or Group M, Division 1 Occupancies, provided the building official finds that a special hazard does not exist.

2. For foundation concrete, other than cast-in-place drilled piles or caissons, where the structural design based on an  $f_c$  no greater than 2,500 pounds per square inch (psi) (17.2 MPa).

3. Nonstructural slabs on grade, including prestressed slabs on grade when effective prestress in concrete is less than 150 psi (1.03 MPa).

4. Site work concrete fully supported on earth and concrete where no special hazard exists.

2. **Bolts installed in concrete.** Prior to and during the placement of concrete around bolts where stresses increases permitted by Footnote 5 of Table 19-E or Section 1925 are utilized.
3. **Special moment-resisting concrete frame.** As required by Section 1921.9 of this code.

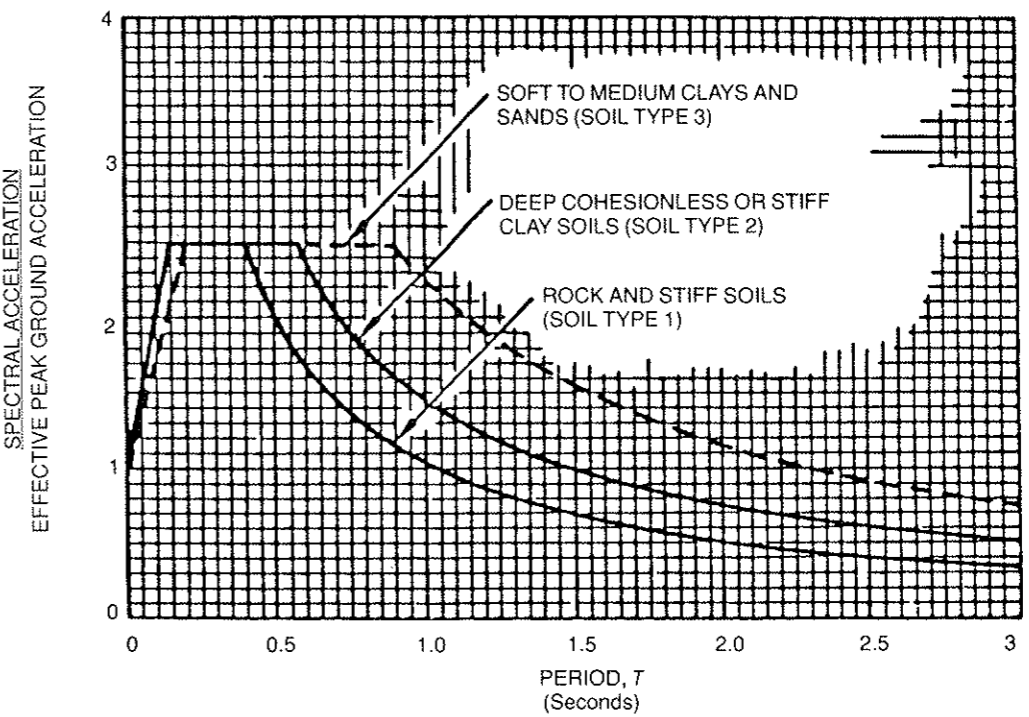


FIGURE 16-3—NORMALIZED RESPONSE SPECTRA SHAPES