



Standard Specification and Test Method for Establishing Recommended Design Stresses for Round Timber Construction Poles¹

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1. Scope

1.1 This specification covers the physical characteristics of round timber construction poles to be used either treated or untreated.

1.2 This test method covers basic principles for establishing recommended design stress values for round timber construction poles that are applicable to the quality described.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D25 Specification for Round Timber Piles](#)

¹ This specification and test method is under the jurisdiction of ASTM Committee D07 on Wood and is the direct responsibility of Subcommittee D07.04 on Pole and Pile Products.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

[D2899 Practice for Establishing Allowable Stresses for Round Timber Piles](#)

3. Terminology Definition

3.1 *construction poles*—those poles which are used as principle load-carrying components of a building.

4. Physical Requirements

4.1 The round timber construction poles shall be as specified in Specification [D25](#), with the following exception:

4.1.1 In place of 7.1 of Specification [D25](#), the following shall apply:

The tip circumference shall be specified. The corresponding butt circumference shall not be less than that specified in [Table 1](#) of this standard.

5. Design Stresses

5.1 Methods for establishing design stresses for round timber construction poles shall follow those presented in Method [D2899](#).

6. Keywords

6.1 design; poles; stresses; timber

TABLE 1 Specified Tip Circumference With Corresponding Minimum Butt Circumference

Tip circumference, required min, in. (mm)	16 (406)	19 (483)	22 (559)	25 (635)	28 (711)	31 (787)	35 (889)	38 (965)
Length, ft (mm)	Minimum Circumference 3 ft (914 mm) from Butt, in. (mm)							
10 (3048)	18.5 (469.9)	21.5 (546.1)	24.5 (622.3)	27.5 (698.5)	30.5 (774.7)	33.5 (850.9)	37.5 (952.5)	40.5 (1028.7)
15 (4572)	19.8 (502.9)	22.8 (579.1)	25.8 (655.3)	28.8 (731.5)	31.8 (807.7)	34.8 (883.9)	38.8 (985.5)	41.8 (1061.7)
20 (6096)	22.0 (533.4)	24.0 (609.6)	27.0 (685.8)	30.0 (762.0)	33.0 (838.2)	36.0 (914.4)	40.0 (1016.0)	43.0 (1092.2)
25 (7620)	22.2 (563.9)	25.2 (640.1)	28.2 (716.3)	31.2 (792.5)	34.2 (868.7)	37.2 (944.9)	41.2 (1046.5)	44.2 (1122.7)
30 (9144)	23.5 (596.9)	26.5 (673.1)	29.5 (749.3)	32.5 (825.5)	35.5 (901.7)	38.5 (977.9)	42.5 (1079.5)	45.5 (1155.7)
35 (10668)	24.8 (629.9)	27.8 (706.1)	30.8 (782.3)	33.8 (858.5)	36.8 (934.7)	39.8 (1010.9)	43.8 (1112.5)	46.8 (1188.7)
40 (12192)	26.0 (660.4)	29.0 (736.6)	32.0 (812.8)	35.0 (889.0)	38.0 (965.2)	41.0 (1041.4)	45.0 (1143.0)	48.0 (1219.2)

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