

Designation: D3200 - 74 (Reapproved 2022)

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

This standard is issued under the fixed designation D3200; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

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 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.5 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²
D25 Specification for Round Timber Piles
D2899 Practice for Establishing Allowable Stresses for Round Timber Piles

3. Terminology Definition

3.1 *construction poles*—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 Practice D2899.

6. Keywords

6.1 design; poles; stresses; timber

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.

Current edition approved Aug. 1, 2022. Published August 2022. Originally approved in 1974. Last previous edition approved in 2017 as D3200 – 74 (2017). DOI: 10.1520/D3200-74R22.

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.

D3200 – 74 (2022)

TABLE I Opechica The one anne concerned with corresponding minimum batt one anne concerned								
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)

TABLE 1 Specified Tip Circumference With Corresponding Minimum Butt Circumference

ASTM International takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.

This standard is copyrighted by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or service@astm.org (e-mail); or through the ASTM website (www.astm.org). Permission rights to photocopy the standard may also be secured from the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, Tel: (978) 646-2600; http://www.copyright.com/

iTeh Standards (https://standards.iteh.ai) Document Preview

<u>ASTM D3200-74(2022)</u>

https://standards.iteh.ai/catalog/standards/sist/f8fb353e-6e41-4a74-982c-a4157c7bd6c6/astm-d3200-742022