

Table 7.—PRESUMPTIVE SURFACE BEARING VALUES FOR UNFINISHED FOOTINGS

Table with 3 columns: Foundation Material, Tons per square foot, and Remarks. Rows include Hard sound rock, Soft rock, Gravel, etc.

110.2. Light Weight Structures.—Objectable foundation materials shall be assumed to have no bearing capacity...

110.4. Timber Footings.—For light frame structures or buildings where permitted under the provisions of this code...

110.5. Masonry Footings.—Masonry footings for walls, columns or piers shall consist of plain or reinforced concrete...

110.51. Wall Footings.—Concrete footings for load bearing walls unless otherwise required by the building official...

110.52. Chimney Footings.—Chimney footings shall have a minimum projection of six (6) inches beyond the chimney foundation...

110.53. Concrete Footings.—No concrete shall be poured through water unless deposited by approved means...

110.54. Masonry Wall Footings.—Masonry wall footings shall be laid in cement, cement-lime or other approved mortar...

110.55. Reinforced Concrete Footings.—Reinforced concrete footings shall be reinforced with a minimum covering under the reinforcement...

110.6. Foundation Walls.—The thickness of foundation walls shall be less than the thickness of the wall...

110.61. Reinforced Concrete.—When reinforced concrete is required to resist all stresses, the walls shall not be less than eight (8) inches thick...

110.62. Hollow Concrete.—When hollow concrete walls shall not be less than eight (8) inches thick...

110.63. Rubble Stone.—Walls of rubble stone shall be not less than sixteen (16) inches thick...

110.64. Bonding.—All foundation walls shall be bonded as required for full contact with the soil...

110.65. Lateral Stability and Uplift.—When required by the character of the soil or other local conditions...

110.66. Mortar in Masonry Foundation Walls.—All masonry walls and foundations in contact with the soil...

SECTION 111.00 WOOD FRAME CONSTRUCTION

111.01. Exterior Walls.—Exterior walls of frame structures which are constructed of either balloon, braced or platform type...

111.02. Floor Joists and Rafters.—For ordinary conditions of use and live loads, the spans of joists and beams shall be limited by tables 8, 9, 10 and 11 of this code.

111.03. Stressing of Materials.—The wood beam and wood joist tables of the ABC are based on average materials available in general yard lumber stocks...

111.04. Connections and Fastenings.—All structural members shall be connected at their ends, corners, bolts, lag screws, spikes, nails, straps or other approved devices...

111.05. Plates and Ribbon Boards.—Plates which are used in exterior walls to support joists or rafters shall be double, of the same thickness as the studs and each not less than two (2) inches thick...

111.06. Connections and Fastenings.—All structural members shall be connected at their ends, corners, bolts, lag screws, spikes, nails, straps or other approved devices...

111.07. Bridging.—In all floor, attic and flat roof joist framing, there shall be not less than one line of bridging for each eight (8) feet of span...

111.08. Cutting and Notching.—In girders, beams or joists, cuts and bore holes shall not be deeper than one-fifth (1/5) the beam or girder depth...

111.09. Connections and Fastenings.—All structural members shall be connected at their ends, corners, bolts, lag screws, spikes, nails, straps or other approved devices...

111.10. Nailing Weather Boarding, Wall and Roof Coverings.—All exterior wall and roof coverings shall be applied in accordance with the following minimum requirements...

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by the nailing schedule. Sills shall be at least the equivalent of a two by six (2 x 6) inch stud.

111.22. Multiple Joists and Rafters.—Floor joists under bearing partitions shall be doubled or, if nailed to stucco, shall be fastened at the ridge or shall be adequately trussed or tied together with not less than one by six (1 x 6) inch collar beams spaced not more than five (5) feet on centers...

111.23. Bearing and Anchorage on Girders.—Floor beams framing into girders shall be anchored, or, if nailed to stucco, shall be fastened at the ridge or shall be adequately trussed to support the load.

111.24. Spacing of Joists.—Joists shall be spaced not more than twenty-four (24) inches on centers for one inch floor or roof sheathing except for approved, integrated assemblies...

111.25. Headers and Trimmers.—All headers more than four (4) feet in length and their trimmers shall be supported on approved metal joist hangers.

111.26. Walls, Partitions and Posts.—The load-bearing value of isolated posts or struts shall be limited by table 12 and of framed walls by table 13.

111.27. Framing of Openings.—All windows and door openings shall be framed with double headers or trussed construction over the opening as provided in section 111.43.

111.28. Nailing.—Wood sheathing boards shall be nailed to each stud and to the top and bottom plates and sills as provided in the following table.

111.29. Omission of Bracing.—The diagonal bracing specified in section 111.42 may be omitted when diagonal wood sheathing or vertically spaced studs are used.

111.30. Paper-Back Lath Sheathing.—In one and two-family dwellings, the lathing may consist of a layer of approved paper-backed wire fabric of not less than No. 16 U. S. gage...

111.31. Types of Weather Wall Coverings.—The following materials shall be accepted as approved weather coverings of the nominal thickness specified:

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away from sheathing or building paper not less than one-fourth (1/4) inch with self-furring lath, metal strips or approved furring nails.

111.69. Masonry Veneers.—Veneers of metal shall be fabricated from approved corrosion-resistant materials or shall be protected from a preparatory dash coat of portland cement grout...

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TABLE 9.—MAXIMUM SPANS IN FEET OF FLOOR JOISTS Live load 80 pounds per square foot

Table with 4 columns: Size in inches, Spacing in inches, Plastered ceiling, No plastered ceiling. Rows include 2 x 6, 2 x 8, 2 x 10, etc.

TABLE 10.—MAXIMUM SPANS IN FEET OF FLOOR JOISTS Live load 100 pounds per square foot

Table with 4 columns: Size in inches, Spacing in inches, Plastered ceiling, No plastered ceiling. Rows include 2 x 8, 2 x 10, 2 x 12, etc.

TABLE 11.—MAXIMUM SPANS IN FEET OF FLOOR JOISTS Live load 120 pounds per square foot

Table with 4 columns: Size in inches, Spacing in inches, Plastered ceiling, No plastered ceiling. Rows include 2 x 8, 2 x 10, 2 x 12, etc.

TABLE 12.—SAFE LOADS FOR STRUTS, POSTS AND COLUMNS Thousands of pounds, concentric load

Table with 3 columns: Size of member, Area in square inches, Unsupported height in feet. Rows include 2 x 4, 2 x 6, 2 x 8, etc.

TABLE 8. MAXIMUM CLEAR SPANS IN FEET OF JOISTS Number 2 Dimension Yellow Pine and West Coast Fir

Table with 7 columns: Size, Spacing, Floors 49' and below, Floors and habitable attics 30' and below, Floors No ceiling, Ceilings Plastered, Ceilings Unplastered, Uninhabitable attics 20' and below. Rows include 2 x 4, 2 x 6, 2 x 8, etc.

TABLE 8 — (Continued) MAXIMUM CLEAR SPANS IN FEET OF RAFTERS Yellow Pine and West Coast Fir Roof covering not over 2 #1/2"

Table with 4 columns: Size in inches, Spacing in inches, Flat Roof Joist Unplastered, Roof Joist Sloped Gutter Than 3 in 12. Rows include 2 x 4, 2 x 6, 2 x 8, etc.