

605.5.5 Wood beams and girders supported by walls required to have a fire resistance rating of 2 hours or more shall have not less than 4 inches (102 mm) of solid masonry between their ends and the outside face of the wall, and between adjacent beams.

605.5.6 Adequate roof anchorage shall be provided.

605.6 Floor Decks

Floors shall be without concealed spaces. They shall be of sawn or glued laminated plank, splined, or tongue-and-grooved, not less than 3 inches nominal thick, or of planks not less than 4 inches nominal wide set on edge and well-spiked together. The planks shall be laid so that no continuous line of joints will occur except at points of support and they shall not be spiked to supporting girders. Planks shall be covered with 1 inch nominal tongue-and-groove flooring laid crosswise or diagonally or with 15/32 inch (11.9 mm) wood structural panels. Planks and flooring shall not extend closer than 1/2 inch (12.7 mm) to walls to provide an expansion joint, and the joint shall be covered at top or bottom.

605.7 Roof Decks

Roofs shall be without concealed spaces and roof decks shall be sawn or glued laminated, splined or tongue and grooved plank, not less than 2 inches nominal thick, or of planks not less than 3 inches nominal wide, set on edge and spiked together as required for floors, or of 1 1/8-inch (29 mm) tongue and grooved wood structural panels bonded with exterior glue. Other types of decking may be used when approved by the building official.

605.8 Walls

605.8.1 Bearing portions of exterior and interior walls shall be of approved noncombustible materials and shall provide fire resistance ratings in accordance with Table 600.

605.8.2 Nonbearing portions of exterior walls shall be of approved noncombustible materials and shall provide fire resistance ratings in accordance with Table 600.

EXCEPTION: Where a horizontal separation of at least 20 ft (6096 mm) is provided, wood columns, arches, beams and roof decks conforming to heavy timber sizes may be used externally.

606 TYPE IV CONSTRUCTION

Type IV is construction in which the structural members including exterior walls, interior bearing walls, columns, beams, girders, trusses, arches, floors, and roofs are of noncombustible materials. Type IV construction may be protected or unprotected. Fire resistance requirements for structural elements of Type IV construction shall be as specified in Table 600. For provisions governing combustibles in concealed spaces, see 707.