

**Draft TABLE 601
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (hours)**

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV	TYPE V	
	A	B	A	B	A	B	HT	A	B
Structural frame a Including columns, girders, trusses	3 b,g	2 b	1	0	1	0	HT	1	0
Bearing walls Exterior f Interior	4 4 b	3 3 b	1 1	0 0	2 1	2 0	2 2 b/HT	1 1	0 0
Nonbearing walls and partitions Exterior	See Table 602								
Nonbearing walls and partitions Interior e	0	0	0	0	0	0	See Section 602.4.6	0	0
Floor construction Including supporting beams and joists	3 g	2	1 d	0 d, h	1 d	0 d, h	HT	1	0 h
Roof construction Including supporting beams and joists	1½ c,g	1 c	1 c	0	1 c	0	HT	1 c	0

For SI: 1 foot = 304.8 mm.

a. The structural frame shall be considered to be the columns and the girders, beams, trusses and spandrels having direct connections to the columns and bracing members designed to carry gravity loads. The members of floor or roof panels which have no connection to the columns shall be considered secondary members and not a part of the structural frame.

b. Fire-resistance ratings of the structural frame and bearing walls are permitted to be reduced by 1 hour where supporting one floor or one roof only.

c. 1. Except in Factory-Industrial (F-1), Hazardous (H), Institutional (I), Mercantile (M) and Moderate-Hazard Storage (S-1) occupancies, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below.

2. In Type I and II construction, fire-retardant-treated wood shall be allowed in buildings including girders and trusses as part of the roof construction when the building is:

i. Two stories or less in height;

ii. Type II construction over two stories; or

iii. Type I construction over two stories and the vertical distance from the upper floor to the roof is 20 feet or more.

d. Group B and M occupancies of Type II or III construction five or more stories in height shall be required to have a minimum 2-hour fire-resistance rating for the floor construction located over the basement.

e. Not less than the fire-resistance rating required by other sections of this code.

f. Not less than the fire-resistance rating based on fire separation distance (see Table 602).

g. For Group A, B, E, F and R occupancies and parking garages, the required fire-resistance ratings for the structural frame, floor and roof construction, including supporting beams and joists, shall be permitted to be reduced by 1-hour where the building is protected throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1, but the fire resistance rating shall not be less than 1-hour.

h. For unsprinklered Group E occupancies of Type, II-B, III-B, IV or V-B construction, the floor construction located immediately above useable space in basements shall have a fire-resistance rating of not less than 1-hour.