

APPENDIX E-1  
TABLE 5.—FIRE-RESISTANCE RATINGS OF STRUCTURAL ELEMENTS IN HOURS

Structural Element	Fireproof	Type of Construction											
		TYPE 1			TYPE 2			TYPE 3			TYPE 4		
		1A	1B	2A	2B	2C	3A	3B	3C	4A	4B	4C	
Exterior Walls	Note a	Noncombustible											
On street lot line or with fire separation of 10' or more from exterior lot lines of any building	Bearing	4	3	2	1 1/2	1	0	0	0	0	0	0	0
On interior lot lines or less than 5' therefrom or from any building	Bearing	4	3	2	1 1/2	1	0	0	0	0	0	0	
5' or more but less than 11'	Bearing	4	3	2	1 1/2	1	0	0	0	0	0	0	
11' or more but less than 30'	Bearing	4	3	2	1 1/2	1	0	0	0	0	0	0	
Interior bearing walls and partitions	Note b	Noncombustible											
9' fire walls	Note c	Noncombustible											
Fire Divisions	Note d	Noncombustible											
Fire enclosure of elevators, elevator hoistways, public hallways and stairways—Note e	Note e	Noncombustible											
Shafts other than stairways	Note e	Noncombustible											
Corridor partitions and vertical separation of tenant spaces	Note e	Noncombustible											
Other non-bearing partitions (See Art. 9)	Note e	Noncombustible											
Columns, girders, trusses, (other than roof trusses) and framing	Note f	Noncombustible											
Structural members supporting wall	Note g	Noncombustible											
Floor construction including beams	Note h	Noncombustible											
Roof construction including beams—15' or less in height	Note h	Noncombustible											
Roof trusses and framing including arched and roof deck	Note i	Noncombustible											

Note a.—The fire separation or fire exposure in feet as herein limited applies to the distance from other buildings on the site, or from an interior lot line or from the opposite side of a street or other public space not less than thirty (30) feet wide to the building wall. (See Definitions.)  
 Note b.—Protected exterior walls shall be required within the fire limits in type 2 construction as follows: high hazard uses, 2-hour fire resistance with fire separation up to 11 feet.  
 Note c.—One-story buildings of type 2-C construction which do not exceed three thousand (3000) square feet in area in all use groups except high hazard, assembly and institutional shall be exempt from the protected exterior wall requirements of table 5.  
 Note d.—Party walls in type 4 buildings shall be as follows: 1 and 2-family dwellings, 3/4-hour fire resistance. Other uses 2 hours, but not less than the fire grading of the use group.  
 Note e.—Stair enclosures in all buildings, other than 1 and 2-family dwellings, which do not exceed three (3) stories or forty (40) feet in height with an occupancy load of less than forty (40) below and less than seventy-five (75) above the grade floor shall be of not less than 3/4-hour fire resistance. In buildings of types 3 and 4 construction, such 3/4-hour enclosures may be of combustible construction.  
 Note f.—In all buildings in which the roof framing may be unprotected, roof slabs and decking may be noncombustible with construction or of any other material, providing equivalent fire-resistant and structural properties.  
 Note g.—The fire-resistance rating of enclosure and fire division walls against interior fire exposure shall be not less than the fire grading of the use group.  
 Note h.—For special high hazard uses involving a higher degree of fire severity and higher concentration of combustible contents, the fire-resistance requirements for structural elements shall be increased accordingly.

APPENDIX E-2  
TABLE 6.—GENERAL HEIGHT AND AREA LIMITATIONS OF BUILDINGS FACING ON ONE STREET OR PUBLIC SPACE NOT LESS THAN 30 FEET WIDE

Use Group	Fireproof	Type of Construction											
		Type 1			Type 2			Type 3			Type 4		
		1A	1B	2A	2B	2C	3A	3B	3C	4A	4B	4C	
A High Hazard	58:45	58:40	58:40	58:30	58:30	58:30	58:10	58:10	58:10	58:10	58:10	58:10	
B-1 Storage—Moderate Hazard	58:45	58:40	58:40	58:30	58:30	58:30	58:10	58:10	58:10	58:10	58:10	58:10	
B-2 Storage—Low Hazard	X	X	58:45	58:45	58:40	58:40	58:45	58:45	58:40	58:40	58:40	58:40	
C Business—Retail	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
D Business—Industrial	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
E Business—Offices	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
F-1-A Assembly—Theatres	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
F-1-B Assembly—Theatres	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
F-2 Assembly—Night clubs and similar uses	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
F-3 Assembly—Lecture halls, recreation centers, terminals, or other night clubs	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
F-4 Assembly—Churches, schools	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
M-1 Institutional—Restrainted	105:15	105:15	105:15	105:15	105:15	105:15	105:15	105:15	105:15	105:15	105:15	105:15	
M-2 Institutional—Incapacitated	125:15	125:15	125:15	125:15	125:15	125:15	125:15	125:15	125:15	125:15	125:15	125:15	
L-1 Residential—Hotels	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
L-2 Residential—Multi-Family	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
L-3 Residential—1 and 2 Family	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	
M Miscellaneous and temporary	X	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	58:15	

\*Not permitted within the fire limits. See Section 107.2.  
 Note a.—For all buildings with frontages of more than twenty-five (25) per cent of the building perimeter on one or more streets or other accessible public space not less than thirty (30) feet wide, the tabular area may be increased two (2) per cent for each one (1) per cent of such excess.  
 Note b.—In use groups B-2, C, D and E, the tabular area may be increased one hundred (100) per cent when equipped with automatic sprinkler systems not specifically required by law.  
 Note c.—In use group B-1, and other uses of moderate fire hazard, the tabular area may be increased fifty (50) per cent when sprinklered and such sprinklers are not specifically required by law.  
 Note d.—The maximum total permissible increased floor area shall not exceed two and one-half (2 1/2) times the tabular value.  
 Note e.—In use groups E, D, and X, isolated buildings of other than type 4 construction may be of unlimited area outside of fire limits when not more than one (1) story or eighty-five (85) feet in height when complying with specific provisions of Sec. 107.5.  
 Note f.—In use groups B-2, C, D, and E, types 1, 2 and 3 construction may be increased one (1) story but not more than twenty (20) additional feet in height when equipped with automatic sprinkler not specifically required by law. (See section 310.)  
 Note g.—Church and auditoriums of type 3-A construction may be erected to sixty-five (65) feet in height.  
 Note h.—For exceptions to height and area limitations of high hazard use buildings, see article 4 governing the specific use. For other special fire-resistance requirements governing specific uses, see section 905.

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APPENDIX F.—RECOMMENDED NAILING SCHEDULE

Building element	Nail type	Number and distribution
Stair to sole plate	Common-toe nail	3—16d
Stair to cap plate	Common-end nail	2—16d
Double studs	Common-direct	10d 12" o.o. or 16d 30" o.o.
Corroded studs	Common-direct	16d 30" o.o.
Sole plate to joist or blocking	Common	20d 16" o.o.
Double cap plate	Common-direct	16d 24" o.o.
Cap plate lath	Common-direct	3—16d
Ribbon strip—6" or less	Common-direct	2—10d each bearing
Ribbon strip—over 6"	Common-direct	3—10d each bearing
Roof rafter to plate	Common-toe nail	3—16d
Roof rafter to ridge	Common-toe nail	2—16d
Jack rafter to hip	Common-toe nail	3—10d
Floor joists to studs (no ceiling joists)	Common-direct	5—10d or 3—16d
Floor joists to studs (with ceiling joists)	Common-direct	2—10d
Floor joists to girder	Common-toe nail	2—16d
Leader strip	Common-direct	3—20d at each joist
Tail beams to plate	Common-toe nail	2—16d
Ceiling joists to rafters	Common-direct	3—16d
Ceiling joists (lags over partition)	Common-direct	3—16d
Collar beam	Common-direct	4—10d
Bridging to joists	Common-direct	2—8d each end
Diagonal brace (to stud and plate)	Common-direct	2—8d each bearing
Tail beams to headers (when nailing permitted)	Common end nail	1—20d each 4 sq. ft. floor
Header beams to trimmers (when nailing permitted)	Common end nail	1—20d each 8 sq. ft. floor
(1) sub-flooring 6" less	Common-direct	2—8d each joist
(1) sub-flooring 8" or more	Common-direct	3—8d each joist
(2) sub-flooring	Common-direct	2—20d each joist
(1) sheathing—8" or less	Common-direct	2—8d each stud or rafter
(1) sheathing—10" or more	Common-direct	3—8d each stud or rafter
Flywood sheathing	Common-direct	6d 10" o.o. exterior edges
Roof sheathing—6" or less	Common-direct	2—8d each rafter
Roof sheathing—8" or more	Common-direct	3—8d each rafter
Fiber board sheathing	Common-direct	8d—3" o.o. intermediate
Gypsum sheathing—Large head	Common-direct	7-No. 11g x 1 1/2" per bearing under shingles
Shingles—wood	Corrosion resistant	2—No. 14 B&S each bearing
Weather boarding	Corrosion resistant	2—8d each bearing

Shingle nails shall penetrate not less than 3/4 inch into nailing strips, sheathing or supporting construction except as otherwise provided in section 111.62.  
 Notice is hereby given that there are available for public use and inspection in the office of the City Clerk copies of certain codes adopted by the city in the foregoing Ordinance, as follows:  
 1. Basic Building Code of the Building Officials conference of America.  
 2. Plumbing Code of the City of Detroit, Michigan.  
 3. National Electrical Code.  
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