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2012 NFPA 101 Tables

Table 8.3.3.12 Marking Fire-Rated Glazing Assemblies

Table 8.3.4.2 Minimum Fire Protection Ratings for Opening Protectives in Fire Resistance-Rated Assemblies and Fire-Rated Glazing Markings

Informational Supplement to NFPA 101 Table 8.3.3.12

The SAFTI FIRST recommended product found in these tables are not part of the 2012 NFPA 101, but provided by SAFTI FIRST as guide for choosing and specifying the correct code approved product. If you have any questions regarding these tables, contact SAFTI FIRST at 888.653.3333 or send an email to codesupport@safti.com.

Table 8.3.3.12 Marking Fire-Rated Glazing Assemblies

Fire Test Standard	Marking	Definition of Marking	Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)
ASTM E119 or ANSI/UL 263*	W	Meets wall assembly criteria.	SuperLite II-XL (SL II-XL) 60-120
NFPA 257	OH	Meets fire window assembly criteria including the hose stream test.	SuperLite II-XL (SL II-XL) 45 SuperLite I
NFPA 252	D	Meets fire door assembly criteria.	SuperLite I & I-XL (SL I & I-XL) SuperLite II-XL (SL II-XL) 45-120 SuperLite X-90 (SL X-90)
	H	Meets fire door assembly hose stream test.	SuperLite II-XL (SL II-XL) 45-120 SuperLite I SuperLite X-90 (SL X-90)
	T	Meets 450° F (230° C) temperature rise criteria for 30 minutes	SuperLite II-XL (SL II-XL) 45-120
	XXX	The time in minutes of the fire resistance or fire protection rating of the glazing assembly	

*ASTM E 119, *Standard Tests Methods for Fire Tests of Building Construction and Materials*, and ANSI/UL263, *Standard for Fire Tests of Building Construction and Materials*.

Table 8.3.4.2 Minimum Fire Protection Ratings for Opening Protectives in Fire Resistance-Rated Assemblies and Fire-Rated Glazing Markings

Component	Walls and Partitions (hr)	Fire Door Assemblies (hr)	Door Vision Panel Max Size (in ²) ^a	Fire-Rated Glazing Marking Door Vision Panel	Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)	Minimum Side Light/Transom Assembly Rating (hr)		Fire-Rated Glazing Marking Side Light/Transom Panel		Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)	Fire Window Assemblies ^{b,c}		Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)
						Fire Protection	Fire Resistance	Fire Protection	Fire Resistance		(hr)	Fire-Rated Glazing Marking Window	
Elevator hoistways	2	1-1/2	155 in. ^{2d}	D-H-90 or D-H-W-90	SL X-90 SL I SL II-XL 90	NP	2	NP	D-H-W-120	SL II-XL 120	NP	W-120	SL II-XL 120
	1	1	155 in. ^{2d}	D-H-60 or D-H-W-60	SL X-90 SL I SL II-XL 60	NP	1	NP	D-H-W-60	SL II-XL 60	NP	W-60	SL II-XL 60
	1/2	1/3	85 in. ^{2c}	D-20 or D-W-20	SL I & I-XL SL I	1/3	1/3	D-H-20	D-W-20	SL II-XL 45 SL I	NP	W-30	SL II-XL 45 SL I
Elevator lobby (per 7.2.13.4)	1	1	100 in. ^{2b}	≤100 in. ² , D-H-T-60 or D-H-W-60 ^a >100 in. ² , D-H-W-60 ^b	SL X-90 SL I SL II-XL 60	NP	1	NP	D-H-W-60	SL II-XL 60	NP	W-60	SL II-XL 60
Vertical shafts, including stairways, exits and refuse chutes	2	1-1/2	Max size tested	D-H-90 or D-H-W-90	SL X-90 SL I SL II-XL 90	NP	2	NP	D-H-W-120	SL II-XL 120	NP	W-120	SL II-XL 120
	1	1	Max size tested	D-H-60 or D-H-W-60	SL X-90 SL I SL II-XL 60	NP	1	NP	D-H-W-60	SL II-XL 60	NP	W-60	SL II-XL 60

Component	Walls and Partitions (hr)	Fire Door Assemblies (hr)	Door Vision Panel Max Size (in ²) ^a	Fire-Rated Glazing Marking Door Vision Panel	Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)	Minimum Side Light/Transom Assembly Rating (hr)		Fire-Rated Glazing Marking Side Light/Transom Panel		Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)	Fire Window Assemblies ^{b,c}		Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)
						Fire Protection	Fire Resistance	Fire Protection	Fire Resistance		(hr)	Fire-Rated Glazing Marking Window	
Replacement panels in existing vertical shafts	1/2	1/3	Max size tested	D-20 or D-W-20	SL I & I-XL SL I	1/3	1/3	D-H-20	D-W-20	SL II-XL 45 SL I	NP	W-30	SL II-XL 45 SL I
Fire Barriers	3	3	100 in. ^{2b}	≤100 in. ² , D-H-180 or D-H-W-180 ^a >100 in. ² , D-H-W-180 ^b		NP	3	NP	D-H-W-180		NP	W-180	
	2	1-1/2	Max size tested	D-H-90 or D-H-W-90	SL X-90 SL I SL II-XL 90	NP	2	NP	D-H-W-120	SL II-XL 120	NP	W-120	SL II-XL 120
	1	3/4	Max size tested	D-H-45 or D-H-W-45	SL II-XL 45 SL I	3/4 ^f	3/4 ^f	D-H-45	D-H-W-45	SL II-XL 45 SL I	3/4	OH-45 or W-60	SL II-XL 45 SL I SL II-XL 60
	1/2	1/3	Max size tested	D-20 or D-W-20	SL I & I-XL SL I	1/3	1/3	D-H-20	D-W-20	SL II-XL 45 SL I	1/3	OH-20 or W-30	SL II-XL 45 SL I
Horizontal exits	2	1-1/2	Max size tested	D-H-90 or D-H-W-90	SL X-90 SL I SL II-XL 90	NP	2	NP	D-H-W-120	SL II-XL 120	NP	W-120	SL II-XL 120
Horizontal exits served by bridges bet. buildings	2	3/4	Max size tested ^f	D-H-45 or D-H-W-45	SL II-XL 45 SL I	3/4 ^f	3/4 ^f	D-H-45	D-H-W-45	SL II-XL 45 SL I	3/4	OH-45 or W-120	SL II-XL 45 SL I SL II-XL 120

Component	Walls and Partitions (hr)	Fire Door Assemblies (hr)	Door Vision Panel Max Size (in ²) ^a	Fire-Rated Glazing Marking Door Vision Panel	Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)	Minimum Side Light/Transom Assembly Rating (hr)		Fire-Rated Glazing Marking Side Light/Transom Panel		Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)	Fire Window Assemblies ^{b,c}		Recommended SAFTI FIRST Product (not in NFPA – added for easy reference)
						Fire Protection	Fire Resistance	Fire Protection	Fire Resistance		(hr)	Fire-Rated Glazing Marking Window	
Exit access corridors ^g	1	1/3	Max size tested	D-20 or D-W-20	SL I & I-XL SL I	3/4	3/4	D-H-45	D-H-W-20	SL II-XL 45 SL I	3/4	OH-45 or W-60	SL II-XL 45 SL I SL II-XL 60
	1/2	1/3	Max size tested	D-20 or D-W-20	SL I & I-XL SL I	1/3	1/3	D-H-20	D-H-W-20	SL II-XL 45 SL I	1/3	OH-20 or W-30	SL II-XL 45 SL I
Smoke barriers ^a	1	1/3	Max size tested	D-20 or D-W-20	SL I & I-XL SL I	3/4	3/4	D-H-45	D-H-W-20	SL II-XL 45 SL I	3/4	OH-45 or W-60	SL II-XL 45 SL I SL II-XL 60
Smoke partitions ^{g,h}	1/2	1/3	Max size tested	D-20 or D-W-20	SL I & I-XL SL I	1/3	1/3	D-H-20	D-H-W-20	SL II-XL 45 SL I	1/3	OH-20 or W-30	SL II-XL 45 SL I

NP: Not permitted.

^a Note: 1 inch² = .00064516 m²

^b Fire resistance-rated glazing tested to ASTM E 119, *Standard Test Methods for Fire Tests of Building Construction and Materials*, or ANSI/UL 263, *Standard for Fire Tests of Building Construction and Materials*, shall be permitted in the maximum size tested. (See 8.3.3.7.)

^c Fire-rated glazing in exterior windows shall be marked in accordance with Table 8.3.3.12

^d See ASME A17.1, *Safety Code for Elevators and Escalators*, for additional information.

^e See ASTM A17.3, *Safety Code for Existing Elevators and Escalators*, for additional information.

^f Maximum area of individual exposed lights shall be 1298 in.² (0.84 m²) with no dimension exceeding 54 in. (1.37 m) unless otherwise tested. [80: Table 4.4.5, note b, and 80:4.4.5.1]

^g Fire doors are not required to have a hose stream test per NFPA 252, *Standard Methods of Fire Tests of Door Assemblies*; ASTM E 2074, *Standard Test Method for Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side Hinged and Pivoted Swinging Door Assemblies*; ANSI/UL 10B, *Standard for Fire Tests of Door Assemblies*; or ANSI/UL 10C, *Standard for Positive Pressure Fire Tests of Door Assemblies*.

^h For residential board and care, see 32.2.3.1 and 33.2.3.1.

Table 8.3.4.2 was revised by tentative interim amendment (TIA).

Informational Supplement to NFPA 101 Table 8.3.3.12

NFPA 101 further limits the maximum door vision panel size to 100 sq. inches where the code requires a temperature rise door in 60-and 90-minute door openings.

2012 NFPA 101, Life Safety Code

8.3.3.8 Glazing materials that have been tested, listed, and labeled to indicate the type of opening to be protected for fire protection purposes shall be permitted to be used in approved opening protectives in accordance with Table 8.3.4.2 and in sizes in accordance with NFPA 80, Standard for Fire Doors and Other Opening Protectives.

2013 NFPA 80, Standard for Fire Doors and Other Opening Protectives

4.4.5* Glazing material shall be permitted in fire doors having the fire protection ratings shown in Table 4.4.5 when tested in accordance with NFPA 252, Standard Methods of Fire Tests of Door Assemblies, and shall be limited in size and area in accordance with Table 4.4.5.

Table 4.4.5 Fire Door Rating

Fire Door Rating (hr)	Maximum Area of Glazing (per Door Leaf ^a)
1/2 , 1/3	Limited to maximum area tested
3/4	Limited to maximum area tested ^b
1 ^c , 1-1/2 ^{a,c}	Limited to maximum area tested
3 ^a	100 in. ² (0.65 m ²)

^a See also requirements in 4.4.4.

^b See 4.4.5.1.

^c Fire protection-rated glazing materials exceeding 100 in.² (0.065 m²) in area are not permitted in temperature rise-rated doors.