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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](mailto:codesupport@safti.com).

**Table 8.3.3.12 Marking Fire-Rated Glazing Assemblies**

| Fire Test Standard        | Marking | Definition of Marking                                                                        | Recommended SAFTI FIRST Product<br>(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<br>SuperLite I-W (SL I-W)<br>PYRAN Platinum (PP) by SAFTI FIRST<br>PYRAN Platinum F (PPF) by SAFTI FIRST<br>PYRAN Platinum L (PPL) by SAFTI FIRST                               |
| NFPA 252                  | D       | Meets fire door assembly criteria.                                                           | SuperLite I & I-XL (SL I & I-XL)<br>SuperLite II-XL (SL II-XL) 45-120<br>SuperLite I-W (SL I-W)<br>SuperLite X-90 (SL X-90)<br>PYRAN Platinum F (PPF) by SAFTI FIRST<br>PYRAN Platinum L (PPL) by SAFTI FIRST |
|                           | H       | Meets fire door assembly hose stream test.                                                   | SuperLite II-XL (SL II-XL) 45-120<br>SuperLite I-W (SL I-W)<br>SuperLite X-90 (SL X-90)<br>PYRAN Platinum F (PPF) by SAFTI FIRST<br>PYRAN Platinum L (PPL) by SAFTI FIRST                                     |
|                           | 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 <sup>2</sup> ) <sup>a</sup> | 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 <sup>b,c</sup> |                                   | 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. <sup>2d</sup>                                      | D-H-90<br>or<br>D-H-W-90                                                                                                | SL X-90<br>SL I-W<br>PPF/PPL<br><br>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. <sup>2d</sup>                                      | D-H-60<br>or<br>D-H-W-60                                                                                                | SL X-90<br>SL I-W<br>PPF/PPL<br><br>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. <sup>2c</sup>                                       | D-20 or<br>D-W-20                                                                                                       | SL I & I-XL<br>SL I-W<br>PPF/PPL                                         | 1/3                                             | 1/3             | D-H-20                                              | D-W-20          | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | NP                                    | W-30                              | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         |
| Elevator lobby (per 7.2.13.4)                                 | 1                         | 1                         | 100 in. <sup>2b</sup>                                      | ≤100 in. <sup>2</sup> ,<br>D-H-T-60<br>or D-H-W-60 <sup>a</sup><br><br>>100 in. <sup>2</sup> ,<br>D-H-W-60 <sup>b</sup> | SL X-90<br>SL I-W<br>PPF/PPL<br><br>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<br>or<br>D-H-W-90                                                                                                | SL X-90<br>SL I-W<br>PPF/PPL<br><br>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<br>or<br>D-H-W-60                                                                                                | SL X-90<br>SL I-W<br>PPF/PPL<br><br>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 <sup>2</sup> ) <sup>a</sup> | 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 <sup>b,c</sup> |                                   | 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<br>SL I-W<br>PPF/PPL                                         | 1/3                                             | 1/3              | D-H-20                                              | D-W-20          | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | NP                                    | W-30                              | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         |
| Fire Barriers                                     | 3                         | 3                         | 100 in. <sup>2b</sup>                                      | ≤100 in. <sup>2</sup> ,<br>D-H-180<br>or D-H-W-180 <sup>a</sup><br><br>>100 in. <sup>2</sup> ,<br>D-H-W-180 <sup>b</sup> | PPF/PPL                                                                  | NP                                              | 3                | NP                                                  | D-H-W-180       |                                                                          | NP                                    | W-180                             |                                                                          |
|                                                   | 2                         | 1-1/2                     | Max size tested                                            | D-H-90<br><br>or<br>D-H-W-90                                                                                             | SL X-90<br>SL I-W<br>PPF/PPL<br><br>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<br>SL I-W<br>PPF/PPL                                         | 3/4 <sup>f</sup>                                | 3/4 <sup>f</sup> | D-H-45                                              | D-H-W-45        | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | 3/4                                   | OH-45<br><br>or<br>W-60           | SL II-XL 45<br>SL I-W<br>PPF/PPL<br><br>SL II-XL 60                      |
|                                                   | 1/2                       | 1/3                       | Max size tested                                            | D-20 or D-W-20                                                                                                           | SL I & I-XL<br>SL I-W<br>PPF/PPL                                         | 1/3                                             | 1/3              | D-H-20                                              | D-W-20          | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | 1/3                                   | OH-20<br>or W-30                  | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         |
| Horizontal exits                                  | 2                         | 1-1/2                     | Max size tested                                            | D-H-90<br><br>or<br>D-H-W-90                                                                                             | SL X-90<br>SL I-W<br>PPF/PPL<br><br>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 <sup>f</sup>                               | D-H-45 or D-H-W-45                                                                                                       | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | 3/4 <sup>f</sup>                                | 3/4 <sup>f</sup> | D-H-45                                              | D-H-W-45        | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | 3/4                                   | OH-45<br><br>or<br>W-120          | SL II-XL 45<br>SL I-W<br>PPF/PPL<br><br>SL II-XL 120                     |

| Component                          | Walls and Partitions (hr) | Fire Door Assemblies (hr) | Door Vision Panel Max Size (in <sup>2</sup> ) <sup>a</sup> | 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 <sup>b,c</sup> |                                   | 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 <sup>g</sup> | 1                         | 1/3                       | Max size tested                                            | D-20 or D-W-20                               | SL I & I-XL<br>SL I-W<br>PPF/PPL                                         | 3/4                                             | 3/4             | D-H-45                                              | D-H-W-20        | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | 3/4                                   | OH-45<br>or<br>W-60               | SL II-XL 45<br>SL I-W<br>PPF/PPL<br><br>SL II-XL 60                      |
|                                    | 1/2                       | 1/3                       | Max size tested                                            | D-20 or D-W-20                               | SL I & I-XL<br>SL I-W<br>PPF/PPL                                         | 1/3                                             | 1/3             | D-H-20                                              | D-H-W-20        | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | 1/3                                   | OH-20<br>or W-30                  | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         |
| Smoke barriers <sup>a</sup>        | 1                         | 1/3                       | Max size tested                                            | D-20 or D-W-20                               | SL I & I-XL<br>SL I-W<br>PPF/PPL                                         | 3/4                                             | 3/4             | D-H-45                                              | D-H-W-20        | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | 3/4                                   | OH-45<br>or<br>W-60               | SL II-XL 45<br>SL I-W<br>PPF/PPL<br><br>SL II-XL 60                      |
| Smoke partitions <sup>g,h</sup>    | 1/2                       | 1/3                       | Max size tested                                            | D-20 or D-W-20                               | SL I & I-XL<br>SL I-W<br>PPF/PPL                                         | 1/3                                             | 1/3             | D-H-20                                              | D-H-W-20        | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         | 1/3                                   | OH-20<br>or W-30                  | SL II-XL 45<br>SL I-W<br>PPF/PPL                                         |

NP: Not permitted.

<sup>a</sup> Note: 1 inch<sup>2</sup> = .00064516 m<sup>2</sup>

<sup>b</sup> 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.)

<sup>c</sup> Fire-rated glazing in exterior windows shall be marked in accordance with Table 8.3.3.12

<sup>d</sup> See ASME A17.1, *Safety Code for Elevators and Escalators*, for additional information.

<sup>e</sup> See ASTM A17.3, *Safety Code for Existing Elevators and Escalators*, for additional information.

<sup>f</sup> Maximum area of individual exposed lights shall be 1298 in.<sup>2</sup> (0.84 m<sup>2</sup>) 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]

<sup>g</sup> 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*.

<sup>h</sup> 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<br>(per Door Leaf <sup>a</sup> ) |
|---------------------------------------|----------------------------------------------------------|
| 1/2 , 1/3                             | Limited to maximum area tested                           |
| 3/4                                   | Limited to maximum area tested <sup>b</sup>              |
| 1 <sup>c</sup> , 1-1/2 <sup>a,c</sup> | Limited to maximum area tested                           |
| 3 <sup>a</sup>                        | 100 in. <sup>2</sup> (0.65 m <sup>2</sup> )              |

<sup>a</sup> See also requirements in 4.4.4.

<sup>b</sup> See 4.4.5.1.

<sup>c</sup> Fire protection-rated glazing materials exceeding 100 in.<sup>2</sup> (0.065 m<sup>2</sup>) in area are not permitted in temperature rise-rated doors.