Fireframes ®

Hardwood doors and frames are designed for maximum durability and fire-rated performance. The system offers an attractive alternative to traditional hollow metal steel frames and can incorporate a wide range of fire-rated glazing materials with glass sizes that surpass traditional systems.

FEATURES
- Fire ratings 20-45 minutes (45 min. with required hose stream test)
- Thick hardwood face for unmatched beauty and durability
- Available in a variety of species
- Available flat jamb and throated
- Compatible with most rated hardware
- Engineered core for dimensional stability
- 20 & 45 minute door jambs
- Designed for interior use

LISTINGS/STANDARDS
Classified and labeled by Underwriters Laboratories, Inc ®. File numbers R19305 (doors), and R21551 (20 and 45 minute frames). Frame tests performed in accordance with:

<table>
<thead>
<tr>
<th>UL 9</th>
<th>NFPA 252</th>
<th>CAN 4-S104</th>
<th>ASTM E119</th>
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<tbody>
<tr>
<td>UL 10B</td>
<td>NFPA 257</td>
<td>CAN 4-S106</td>
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<td>UL 10C</td>
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FRAMING

<table>
<thead>
<tr>
<th>Sidelites* &amp; Borrowed Lites</th>
<th>MAX. EXPOSED GLASS AREA PER PIECE</th>
<th>MAX. EXPOSED GLASS DIMENSION</th>
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</thead>
<tbody>
<tr>
<td>45 min.</td>
<td>4394.25 in² (2.84 m²)</td>
<td>46.5” (W) x 94.5” (H) 1.81 m (W) x 2.40 m (H)</td>
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<tr>
<td>Transom</td>
<td>1339.5 in² (.86 m²)</td>
<td>70.5” (W) x 19” (H) 1.79 m (W) x.48 m (H)</td>
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OPENINGS WITH DOORS
- Maximum Width = 12’ 6” (3.81 m)
- Maximum Height (including transom) = 10’ 11”–7/8” (3.35 m)

45 MINUTE OPENINGS WITHOUT DOORS
- Maximum Width = 12’ 7”–1/2” (3.84 m)
- Maximum Height = 10’ 1” (3.07 m)
- Minimum Wall Thickness = 3–3/4” (.095 m)

DOORS

| RATING                | MAX. SINGLE DOOR LEAF SIZE | MAX. EXPOSED GLASS SIZE PER PIECE | MAX. EXPOSED SINGLE DIMENSION |
|-----------------------|****************************|-----------------------------------|--------------------------------|
| 20 min. (Full Lite)   | 48” x 108” (.121 m x 2.74 m) | 2,868 in² (1.85 m²)               | 34–3/4” (W) .88 m (W) x 2.48 m (H) |
| 45 min. (Full Lite)   | 36” x 96” (.91 m x 2.43 m)   | 1,714 in² (1.11 m²)               | 18–3/4” (W) .48 m (W) x 2.00 m (H) |
| 45 min. (Partial Lite)| 36” x 108” (.91 m x 2.74 m)  | 1,296 in² (.84 m²)                | 54” (1.37 m)                     |
| 60 min. (Partial Lite)| 36” x 96” (.91 m x 2.43 m)   | 1,296 in² (.84 m²)**              | 54” (1.37 m)                     |
| 90 min. (Partial Lite)| 36” x 96” (.91 m x 2.43 m)   | 1,296 in² (.84 m²)**              | 54” (1.37 m)                     |

Note: Individual lite sizes cannot exceed “Max. Exposed Glass Area” shown.

*Maximum Hardwood Series doorframe rating is 45-minutes.

**Temp. rise at 100 sq. in. (.065 m2) max.
SPECIFICATIONS

Complete 3-part CSI format specifications are available online at fireglass.com, or by calling 800.426.0279.
As interpretation of building and fire codes may vary depending on locale, please consult your local authorities for the proper use of Fireframes Hardwood Series.

DOOR JAMBS: 20/45 MINUTE

- **20 MINUTE**
  - SINGLE 4’ 0” x 9’ 0”
    - (1.21 m x 2.74 m)
  - or
  - PAIR 4’ 0” x 9’ 0”
    - (1.21 m x 2.74 m) EACH

- **45 MINUTE**
  - SINGLE 3’ 0” x 9’ 0”
    - (.91 m x 2.74 m)
  - or
  - PAIR 3’ 0” x 9’ 0”
    - (.91 m x 2.74 m) EACH

DOOR JAMB ASSEMBLIES: 20/45 MINUTE

- **70-1/2” x 19” MAXIMUM EXPOSED GLASS AREA (DOOR TRANSOM ONLY)**
  - SINGLE 3’ 0” x 9’ 0”
    - (.91 m x 2.74 m)
  - or
  - PAIR 3’ 0” x 9’ 0”
    - (.91 m x 2.74 m)

  - **45 MINUTE MAXIMUM FIRE-RATING FOR DOORS**

  - WIDTH LIMITATION: 12’ 7-1/2” (3.84 m)

WINDOW ASSEMBLIES: 45 MINUTE

- **46-1/2” x 34-1/2”**
  - (1.18 m x 0.88 m)
  - MAXIMUM EXPOSED GLASS AREA (WINDOW TRANSOM ONLY)

- **46-1/2” x 84-1/2”**
  - (1.18 m x 2.14 m)
  - MAXIMUM EXPOSED GLASS AREA

STANDARD DOOR ELEVATIONS

- **20 MINUTE**
  - 6’ (1.83 m) standard
  - 6’ 1-1/2” (1.96 m) standard

- **45 MINUTE**
  - 8’ (2.44 m) min.
  - 8’ 3-1/2” (2.52 m) max.
  - 8’ 9-1/2” (2.68 m) max. visible glass
  - 10’ 1-1/2” (3.18 m) min.
  - 10’ 5” (3.18 m) max. exposed height

- **60 + 90 MINUTE**
  - 10’ (3.05 m) min.
  - 11’ 4-1/2” (3.47 m) max. frame height for horizontally stacked
  - 12’ 11-1/2” (3.84 m) max. visible glass for no Temp Rise
  - 18” (0.46 m) max. visible glass for Temp Rise
  - 52-1/2” (1.34 m) max. exposed height

  - 4’ 6” x 8’ 0”
    - (1.37 m x 2.44 m) max. door size

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HARDWOOD ELEVATIONS & DETAILS

THROATED

HARDWOOD SERIES

1–1/2” (38.1 mm)

3–3/4” (95.25 mm)
min. wall thickness

5–5/16” (135 mm)

min. wall thickness

FLAT JAMB

Intumescent Caulking

Intumescent Tape at 45 minutes

There are no restrictions casing sizes

Use intumescent caulking on all voids between frame and wood or metal studs

For 20 minute frames use fiberglass insulation to fill void.

For 45 minute frames use intumescent caulking on all voids between frame and wood or metal studs.

5–5/16” (135 mm)
min. wall thickness

3–3/4” (95.25 mm)
min. wall thickness

There are no restrictions casing sizes

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