

20-Minute Fire Door Specifications

20-Minute Positive Pressure Category "A" MDF & Wood Doors
 20-Minute Positive Pressure Category "B" MDF & Wood Doors
 20-Minute Neutral Pressure MDF & Wood Doors

Maximum Sizes

| | |
|-----------|----------------|
| Singles | 4'0" x 8'0" |
| Pairs | 8'0" x 8'0" |
| Thickness | 1-3/4" minimum |

Panel Construction

| | |
|--------------|----------------|
| Raised Panel | 1-1/8" minimum |
| Flat Panel | 1/16" minimum |

Minimum Panel Size

| | |
|------------|-----------------|
| MDF Doors | 2-3/4" x 2-3/4" |
| Wood Doors | 5" x 5" |

Maximum Panel Size

| | |
|------------|-------------------|
| MDF Doors | 36-3/4" x 82-1/2" |
| Wood Doors | 32" x 74-1/4" |

Lite Construction

| | |
|-------------------|---|
| Maximum Lite Size | 38" x 82-3/4" |
| Maximum Lite Area | 3,145 in ² |
| Glass Type | 1/4" FireGlass 20 (no hosestream) 3/16" FireLite NT (hosestream) |

Standard Dimensions

| | |
|-------------------------|--|
| Stile ¹ | 5" minimum 6" minimum for glass doors |
| Top Rail ² | 5" minimum |
| Bottom Rail | 8-1/4" minimum |
| Intermediate Stile/Rail | 2" minimum 3-1/2" minimum for glass doors |

Hardware Machining Options*

| | |
|-----------------------------|--|
| Hinges | Per NFPA80 |
| Locksets | 1/2" minimum bolt throw |
| Cylindrical Lock | 2-1/8" bore, 2-3/4" backset |
| Mortise Lock ¹ | Listed locks |
| Dead Bolt | 2-1/8" bore, 2-3/4" backset (minimum 5" above latch cutout) |
| Fire Exit Device | Surface mounted vertical rod Rim-type surface mounted exit device Mortise type exit device |
| Closing Device ² | Surface mounted Concealed |
| Viewer | Listed viewers |
| Flush Bolt | Surface mounted manual Mortise manual Automatic |
| Auto Door Bottom | Surface mounted Mortised |
| Kick Plate ³ | Top maximum 16" from door bottom |
| Raceway | 1/2" x 1/2" maximum cutout |

* Only hardware listed and labeled for use with 20-minute wood fire doors may be installed. Consult factory for configurations not shown.

¹ Certain mortise locks may require a 6" minimum stile

² 6" top rail is recommended for certain closing devices

³ Unless approved by kick plate manufacturer

TruStile is pleased to add 20-minute glass doors to its comprehensive lineup of fire-rated door options, which includes 20- through 90-minute ratings.

With TruStile, you never have to sacrifice style for fire door safety. Virtually all of TruStile's stile and rail panel door configurations are available in up to 90-minute ratings. And now, you have the flexibility to specify glass doors in 20-minute ratings.

Fire-rated glass doors are the perfect solution for offices, conference rooms and lobbies where a 20-minute door is required by code but the look of a glass door is preferred.

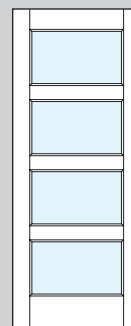


Product Highlights

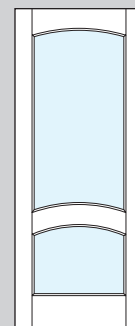
TruStile's 20-minute fire-rated glass doors are built with the same premium construction as TruStile's other stile and rail doors.

- Available to meet Category A and Category B requirements
- Hose stream-approved glass available
- Available with any of TruStile's standard sticking profiles
- Over 120 standard door styles
- Available with arch- or radius-shaped glass
- Custom door styles available
- Maximum glass area over 3,000 square inches

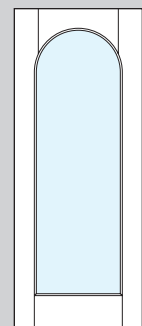
Sample Glass Door Styles



TSL4100



TSL2050



FL103

For more information on TruStile's complete line of fire-rated doors, refer to our fire door product data sheets or visit www.trustile.com.

Available Door Styles

| | |
|------------|--|
| TSL Series | Most TSL door styles |
| PL Series* | PL100, PL130, PL145, PL146, PL200, PL202, PL220, PL230, PL300, PL330, PL400, PL410 |
| FL Series* | FL100, FL101, FL102, FL103, FL110, FL111, FL112, FL113 |
| Custom | Yes, call your TruStile sales representative to discuss your specific requirements |

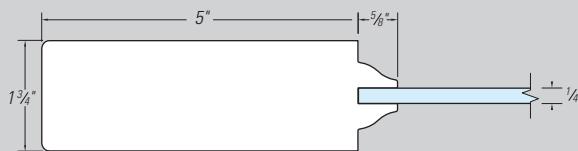
*Not available for divided lite doors.

Specifications

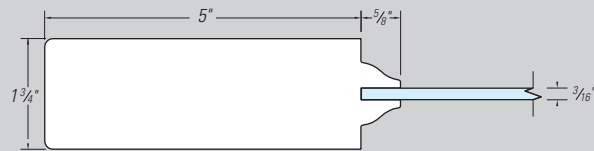
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|---------------------------|-------------------------------------|
| Thickness | 1-3/4" minimum |
| Maximum Size | Single swing: 4'0" wide x 8'0" high |
| | Pair: 8'0" wide x 8'0" high |
| | Double Egress: N/A |
| Panel Construction | |
| Flat Panel Thickness | 1/16" thick minimum |
| Raised Panel Thickness | 5/8" thick tongue |
| Panel Size | |
| Minimum Panel Size | MDF Doors: 2-3/4" x 2-3/4" |
| | Wood Doors: 5" x 5" |
| Maximum Panel Size | MDF Doors: 36-3/4" x 82-1/2" |
| | Wood Doors: 32" x 74-1/4" |
| Stock Dimensions | |
| Stile Face Width | 5" minimum |
| Top Rail Face Width | 5" minimum |
| Bottom Rail Face Width | 8-1/4" minimum |
| Intermediate Stiles/Rails | 3-1/2" minimum |

| | |
|----------------------|---|
| Material | Paint-grade MDF Stain-grade wood |
| Glazing | Compression fit only |
| Maximum Visible Area | 3,145 sq. inches |
| Non Hose Stream | 1/4" thick clear tempered glass |
| Hose Stream Approved | 3/16" thick ceramic with 3M safety film applied <i>Hose stream-approved glazing must be specified (requires custom quote)</i> |
| Fire Label | Neutral Pressure Positive Pressure Category A Positive Pressure Category B Also available "stamp only" for TruStile authorized dealers and distributors. |

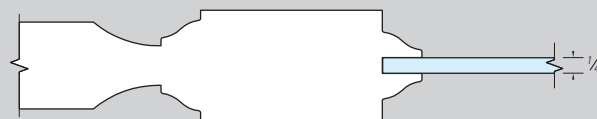
Door Construction



Standard 20-Minute Glass Cross Section



Hose Stream-Approved Glass Cross Section



Typical Partial-Lite Cross Section

45-Minute Fire Door Specifications

45-Minute Positive Pressure Category "A" MDF Doors

45-Minute Positive Pressure Category "A" Wood Doors

Maximum Sizes

| | |
|-----------|----------------|
| Singles | 3'6" x 8'0" |
| Pairs | 7'0" x 8'0" |
| Thickness | 1-3/4" minimum |

Panel Construction

| | |
|--------------|----------------|
| Raised Panel | |
| MDF Doors | 1-3/4" minimum |
| Wood Doors | 1-1/4" minimum |
| Flat Panel | 3/4" minimum |

Standard Dimensions

| | |
|-------------------------|------------|
| Stile ¹ | 5" |
| Top Rail ² | 5" |
| Bottom Rail | 8-1/4" |
| Intermediate Stile/Rail | 2" minimum |

Hardware Machining Options*

| | |
|-----------------------------|--|
| Hinges | Per NFPA80 |
| Locksets | 1/2" minimum bolt throw |
| Cylindrical Lock | 2-1/8" bore, 2-3/4" backset |
| Mortise Lock ¹ | Listed locks |
| Dead Bolt | 2-1/8" bore, 2-3/4" backset (minimum 5" above latch cutout) |
| Fire Exit Device | Surface mounted vertical rod Rim-type surface mounted exit device Mortise type exit device Concealed vertical rod |
| Closing Device ² | Surface mounted |
| Viewer | Listed viewers |
| Flush Bolt | Surface mounted manual Mortise manual Mortise automatic (DCI 960/962 Series) |
| Auto Door Bottom | Surface mounted Mortised |
| Kick Plate ³ | Top maximum 16" from door bottom |
| Raceway | 1/2" x 1/2" maximum cutout |

* Only hardware listed and labeled for use with 45-minute wood fire doors may be installed. Consult factory for configurations not shown.

¹ Certain mortise locks may require a 6" minimum stile

² 6" top rail is recommended for certain closing devices

³ Unless approved by kick plate manufacturer

60-Minute Fire Door Specifications

60-Minute Positive Pressure Category "A" MDF Doors

60-Minute Positive Pressure Category "A" Wood Doors

Maximum Sizes

| | |
|-----------|----------------|
| Singles | 3'6" x 8'0" |
| Pairs | 7'0" x 8'0" |
| Thickness | 1-3/4" minimum |

Panel Construction

| | |
|--------------|----------------|
| Raised Panel | |
| MDF Doors | 1-3/4" minimum |
| Wood Doors | 1-1/4" minimum |
| Flat Panel | 3/4" minimum |

Standard Dimensions

| | |
|-------------------------|------------|
| Stile ¹ | 5" |
| Top Rail ² | 5" |
| Bottom Rail | 8-1/4" |
| Intermediate Stile/Rail | 2" minimum |

Hardware Machining Options*

| | |
|-----------------------------|--|
| Hinges | Per NFPA80 |
| Locksets | 1/2" minimum bolt throw |
| Cylindrical Lock | 2-1/8" bore, 2-3/4" backset |
| Mortise Lock ¹ | Listed locks |
| Dead Bolt | 2-1/8" bore, 2-3/4" backset (minimum 5" above latch cutout) |
| Fire Exit Device | Surface mounted vertical rod Rim-type surface mounted exit device Mortise type exit device Concealed vertical rod |
| Closing Device ² | Surface mounted |
| Viewer | Listed viewers |
| Flush Bolt | Surface mounted manual Mortise manual Mortise automatic (DCI 960/962 Series) |
| Auto Door Bottom | Surface mounted Mortised |
| Kick Plate ³ | Top maximum 16" from door bottom |
| Raceway | 1/2" x 1/2" maximum cutout |

* Only hardware listed and labeled for use with 45-minute wood fire doors may be installed. Consult factory for configurations not shown.

¹ Certain mortise locks may require a 6" minimum stile

² 6" top rail is recommended for certain closing devices

³ Unless approved by kick plate manufacturer

90-Minute Fire Door Specifications

90-Minute Positive Pressure Category "A" MDF Doors

90-Minute Positive Pressure Category "A" Wood Doors

Sizes

| | |
|-----------|-------------------|
| Singles | 3'6 x 8'0 maximum |
| Pairs | 7'0 x 8'0 maximum |
| Thickness | 1-3/4" minimum |

Panel Construction

| | |
|--------------|---------------------------|
| Raised Panel | |
| MDF Doors | 1-3/4" minimum |
| Wood Doors | 1-5/16" minimum |
| | 1-9/16" minimum for pairs |
| Flat Panel | 7/8" minimum |
| | 1" minimum for pairs |

Standard Dimensions

| | |
|-------------------------|----------------|
| Stile ¹ | 5" minimum |
| Top Rail ² | 5" minimum |
| Bottom Rail | 8-1/4" minimum |
| Intermediate Stile/Rail | 2" minimum |

Hardware Machining Options*

| | |
|-----------------------------|--|
| Hinges | Per NFPA80 |
| Locksets | 1/2" minimum bolt throw |
| Cylindrical Lock | 2-1/8" bore, 2-3/4" backset |
| Mortise Lock ¹ | Listed locks |
| Dead Bolt | 2-1/8" bore, 2-3/4" backset (minimum 5" above latch cutout) |
| Fire Exit Device | Surface mounted vertical rod Rim-type surface mounted exit device Mortise type exit device |
| Closing Device ² | Surface mounted |
| Viewer | Listed viewers |
| Flush Bolt | Surface mounted manual Mortise manual Mortise automatic (DCI 960/962 Series) |
| Auto Door Bottom | Surface mounted Mortised ³ |
| Kick Plate ⁴ | Top maximum 16" from door bottom |
| Raceway | 1/2" x 1/2" maximum cutout |

* Only hardware listed and labeled for use with 90-minute wood fire doors may be installed. Consult factory for configurations not shown. Drawings available upon request.

¹ Certain mortise locks may require a 6" minimum stile

² 6" top rail is recommended for certain closing devices

³ Not available on 90-minute pairs

⁴ Unless approved by kick plate manufacturer