



FIRE RATED

Single Swing and Standard Pairs SLI Series Fire Doors

CONFIGURATION WORKSHEET

Model: SLI - FR- 46037 - - -

base door model

single/pair

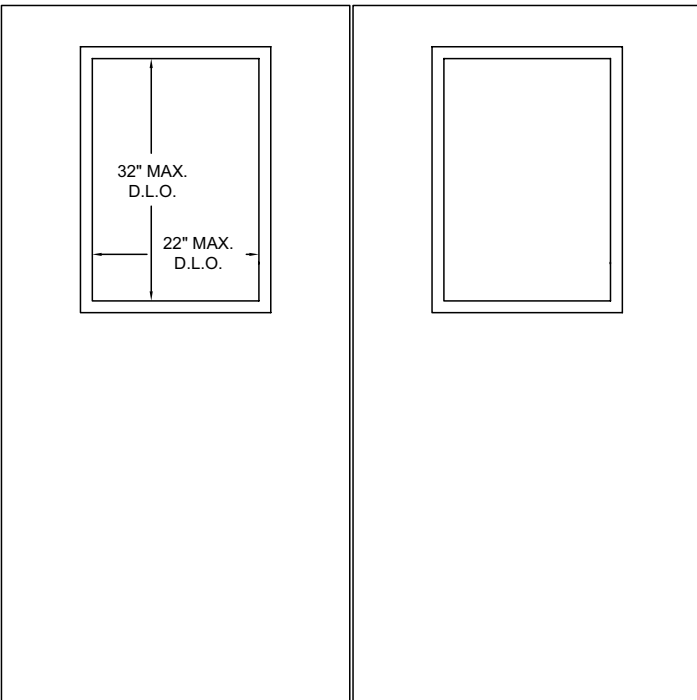
glass

Custom Vision Lite Size or Multiple Lite Size (D.L.O.): X X

width

height

quantity



PRODUCT LIMITATIONS

- Swing:** Standard Swing
- Double Egress:** No
- Latching:** 4-point or separating mullion
3-point or separating mullion
SVR Less Bottom Rod
Rim x Rim w/ listed mullion
- Undercut:** 3/4 in. Max Door to Finish Floor
- Raceways:** Yes
- Max Size:** 48 in. x 96 in. Single Door (Max D.O.)
96 in. x 96 in. Double Door (Max D.O.)
- Vision Lites:** Max 704 in.² (D.L.O.)
Max 22 in. x 32 in. (D.L.O.)
- Models:** SLI-17FR
SLI-19FR
SLI-19-1FR
SLI-20FR
- Duration:** 20 min. Positive Pressure w/hose
(Surface applied intumescent required for positive pressure rating)

Glazing Options:

Listed Ceramic Glazing		
Code	D.L.O.	Description
SQ	10" x 10"	AMS 110 Vision Lite Kit (Square Lite)
SL	4" x 25"	AMS 110 Vision Lite Kit (Slim Lite)
NL	6" x 28"	AMS 110 Vision Lite Kit (Narrow Lite)
HL	20" x 28"	AMS 110 Vision Lite Kit (Half Lite)
CL	Custom	Custom Size Max 22 in. x 32 in.

Design Guidelines:

Application

These doors are Category "A" doors (no additional edge sealing system is required) or can be Category "B" construction which requires surface applied intumescent edge seal. Doors labeled for positive pressure applications must include installation instructions to be furnished by the door labeler. Unless otherwise noted in the door's installation instructions all intumescent materials and smoke/draft control gasketing used in the assembly are to be installed per their respective manufacturer's instructions. Doors used in positive pressure applications require the use of intumescent materials, smoke gasketing, or a combination thereof. Options include frame mounting the intumescent and/or smoke gasketing, mortising the intumescent into the door perimeter, concealing the intumescent with the stile (s), or a combination of these methods. The options available depend on the door's application and are described in the Stile and Rail section. These assemblies are eligible for Category B - Doors - Additional Edge-Sealing System Required. This category includes doors evaluated with an edge-sealing system (Category G) field-applied to the labeled frame or door. The application of the edge-sealing system does not require any machining of the frame or door. Please refer to "Category G - Edge-Sealing System" for individual manufacturer's listings. These assemblies are eligible for use in any "Category C - Standard" frame. These doors may also be installed in frames listed in "Category C - Proprietary" in the accordance with the frame manufacturer's individual listing. All doors listed in Category B are eligible to bear the "S" (for Smoke & Draft Control assemblies) if alisted "Category H - Smoke & Draft Control Gasket" has been applied to the assembly. Please refer to Category H for individual gasket manufacturer's listings.

Limitations

- Mortise or cylindrical latches with maximum 5" backset allowed
- Surface-mounted vertical rod or roller vertical rod fire exit devices allowed
- Rim-type fire exit devices allowed
- Deadbolts allowed
- Surface bolts and mortised flush bolts allowed
- Surface-mounted closers allowed
- Surface-mounted protection plates allowed
- Viewer allowed
- Vision Lite Kits: max 704 in.² D.L.O. when using Fire Rated Ceramic Type Glass.
- Glass over 100 in.² voids temperature rise requirements per NFPA 80.
- Surface-mounted door bottoms allowed

Plant-ons

Not allowed

Hardware

Preparation shall be made in accordance with NFPA 80, Paragraph 1-3.4. Only hardware listed and labeled for use with wood fire doors may be installed.

• Hinges

- Per NFPA 80, Table 2-4.3.1
- Continuous Hinges
- Spring hinges per NFPA 80

• Latchsets

- Min. latch bolt throw shall be 3/4"

• Cylindrical

- Max bore: 2-1/8", Max backset 5", Min. distance from the edge of latch cutout to edge of door: 1-13/16"

• Mortise

- Max cutout 1-1/16" wide x 4-1/2" deep x 6" long

• Fire Exit Devices

- Surface-mounted vertical rod or roller vertical rod
- Less bottom rod with door to door or door to floor fire pen on both leaves
- Rim-type surface-mounted

Design Guidelines (cont.):

- **Fire Exit Devices (cont.)**
 - Mortise-type exit devices
 - Note: Surface mounted exit devices shall be installed with through bolts unless inner blocking is provided.
- **Deadlock**
 - Cylindrical with a max 2-1/8" diameter bore located a minimum of 5" above latch cutout
 - Mortise deadlock is allowed (refer to Mortise Latchset for cutout) located a minimum of 5" above latch cutout
- **Door Bolts**
 - Surface-mounted manual
 - Mortised automatic/manual
- **Door Bottoms**
 - Surface-mounted
- **Closing Devices**
 - Surface-mounted installed with through bolts or if inner blocking is provided, wood screws may be used
- **Viewers**
 - Listed viewers may be used
- **Protection Plates**
 - Plates of brass, bronze, steel, aluminum, polycarbonate or decorative laminate may be installed on one or both sides of the door. Top of plate located a max of 16" from bottom of the door. Attached with #6 x 3/4" wood screws spaced a min. of 6" on center and/or adhesive.

Edge-Sealing System

Pemko HSS 2000 (or listed and labeled equivalent) is field-applied to jambs, head and meeting edges. Pemko 88 smoke seal (or listed and labeled equivalent) is applied to head and jambs. Pemko S77 (or listed and labeled equivalent) smoke seal is applied to meeting edges. Note: Surface applied intumescent is required for positive pressure rating.

Optional Stainless Steel Edge Channels

0.062" thick 3/4" leg stainless steel edge channels are part of the standard construction and applied to the entire perimeter of the door, sealed by 3M CP 25WB+ Fire Barrier Caulk applied to the inside edges of all the stainless steel edge channels. Attached with #10 x 1-1/4" screws, max 2" from the end and 12" O.C.

Vision Lites

- Max Area (D.L.O.): 704 in²
- Max Height (D.L.O.): 32"
- Max Width (D.L.O.): 22"

No lite cutout may come within 5" of the door edge or the edge of any other cutout in the door. Only fire-rated glazing installed in fire-rated vision lites, listed and labeled for use in wood fire doors shall be used. The glass shall be installed in accordance with NFPA 80 and the vision lite installation instructions.

Design Guidelines (cont.):

Raceways

- Maximum size 3/8" x 3/8" that are routed into the core edge joints during door construction or round raceways that are drilled 3/8" diameter holes are allowed.
- Raceways to be centered in the door core thickness no more than 40" above the bottom of the door edge.
- Raceways are to be located from the latch to an EPT or Hinge location opposite of the latch.
- Raceways must be installed by certified raceway installer or core manufacturer.
- Maximum of 2 raceways allowed with minimum of 4" between raceways.

Clearances

- A maximum 1/8" clearance between the frame and the door is allowed.
- A maximum 1/8" clearance between the leaves of pairs is allowed.

Final Checklist:

Single swing or standard pair

D.O. is $\leq 48"$ x $96"$ for single door or $\leq 96"$ x $96"$ for double doors

Undercut $\leq 3/4"$

Hinge clearance $\leq 1/8"$ unless otherwise specified by hardware manufacturer

Lock clearance $\leq 1/8"$

Head clearance $\leq 1/8"$

Rim x Rim w/listed mullion (90 min.), 4-point latching (90 min.) or separating mullion

Hardware configuration provides for 3-point latching (60 min.) or separating mullion

Raceways horizontal from device to hinge or EPT and $\leq 40"$ from bottom of door

Vision Lites are sized correctly

Face sheet is Pebble FRP, Sandstone Texture FRP, Contemporary Woodgrain FRP, or Rustic Woodgrain FRP

Louvers are sized correctly

ESTIMATOR

DETAILER

PRODUCTION