



Revised 5/2/2023

FIRE RATINGS

CLASSIC – 20 MINUTE RATED (negative/neutral pressure – fixed throat frames)

Single Door Frames up to 3' 0" x 9' 0" | Double Door Frames up to 6' 0" x 9' 0"

Single Sidelite up to 24" wide (DLO)– fixed throat frames only (attaching to single frames only)

No Borrowed Lites

(Up to 7'-6" ht requires 3 hinges, over 7'-6" Ht. requires 4 hinges)

CLASSIC – 20 MINUTE RATED (negative/neutral pressure – adjustable throat frames)

Single Door Frames up to 3' 0" x 9' 0" | Double Door Frames up to 6' 0" x 9' 0"

No Borrowed Lites or Sideelites

(Up to 7'-6" ht requires 3 hinges, over 7'-6" Ht. requires 4 hinges)

SOLUTIONS – 20 MINUTE RATED (negative/neutral pressure - fixed throat frames)

Single Door Frames up to 4' 0" x 10' 0" | Double Door Frames up to 8' 0" x 10' 0"

Solutions ADJ frame can be 20M NP rated up to 3'-0" x 9'-0" Single & 6'-0" x 9'-0" Pair *(Max. 106-1/2" opening ht)*

Single sidelite up to 24" wide -- fixed throat frames only (attaching to single frames only)

Borrowed Lite up to 5' 0" x 4' 0" – fixed throat frames only

Borrowed Lite up to 4' 0" x 9' 0" – fixed throat frames only

(Up to 7'-6" ht requires 3 hinges, over 7'-6" Ht. requires 4 hinges)

SOLUTIONS – 90 MINUTE RATED Positive Pressure (Adjustable Throat Frames only with Steel Channels)

Single Door Frames up to 4' 0" x 9' 0" | Double Door Frames up to 8' 0" x 9' 0"

No Sidelites

No Borrowed Lites

Minimum 4-7/8" throat up to 9-5/8" Maximum throat

(Up to 7'-6" ht requires 3 hinges, over 7'-6" Ht. requires 4 hinges) | (Meets UL1784 Smoke Rating)

SOLUTIONS II – 20 MINUTE POSITIVE PRESSURE RATED (fixed throat frames only) – with "S" Label

Single Door Frames up to 4' 0" x 9' 0" *(Max. 106-1/2" Opg height)* | Double Door Frames up to 8' 0" x 9' 0" *(Max. 106-1/2" Opg height)*

Single sidelite up to 2' 0" x 9' 0" – fixed throat frames only (attaching to single frames - maximum 36" DOW – only!)

- *If the sidelite is over 8' 0" tall an intermediate horizontal mullion is required.*
- *Up to 7'-6" height requires 3 hinges, over 7'-6" height requires 4 hinges.*

No Borrowed Lites

(Flush Trim only / No Reveal Trim)

RACO WIDE STILE DOORS – 20 MINUTE POSITIVE PRESSURE RATED – with "S" Label

Single Door up to 4' 0" x 9' 0" *(Butt hinge & lock prep only!!)*

Pair Doors up to 4' 0" x 9' 0" *(Butt hinge & lock prep w/ flushbolt & astragal prepped & furnished)*

* GLAZED with SUPERLITE GLASS (By O'Keefe's) -- Above doors must be sold with Solutions II Positive pressure frames

* Up to 7'-6" height requires 3 hinges, over 7'-6" height requires 4 hinges

* When Raco doors are used in other frame, that frame must include intumescence in order to hold rating.

SMOKE ONLY RATING – (MEETS UC1784 STANDARDS)

Single Door Frames up to 4' 0" x 9' 0" | Double Door Frames up to 8' 0" x 9' 0"

- *Frames must be Solutions II, Fixed throat frames (Flush Trim only / No Reveal Trim).*
- *Sidelites on one or both sides are approved (no sizing limits) – if butt glazed, a 400-deg minimum silicone seal between the panes is required.*
- *Wood doors in these frames must carry a minimum 20 Minute Positive Pressure fire rating.*
- *Raco will supply additional Smoke Seals & Auto Door Bottoms & Frame will us a 90M Vinyl bulb gasketing.*
- *No Concealed hardware (other than an LCN 3130 closer with the body of the closure in the frame).*
- *Cannot Accommodate CVR Exit with Bottom Rods, because bottom rod conflicts with Auto Door Bottom Hdwe.*

NOTE:

- 1) 20-minute rating on borrowed lites does not meet fire code in most areas. In some cases fire inspectors will pass the conditions if there are sprinklers on either side of the opening. This evaluation is to be made by the fire inspector ONLY. Most fire codes require borrowed lites to have a minimum 45-minute fire rating. You should advise the customer of 45-minute fire rating requirement on most borrowed lites and let the customer determine whether to supply 20-minute fire rated borrowed lites.
- 2) Solutions II 20M frames & Doors include a smoke label (not Classic)
- 3) Consult with RACO for acceptable hardware on Smoke Rated and Fire Rated frames if using anything other than hinges and ASA strikes.