

FR55 Door Series

45-90 MINUTE FIRE-RATED FRAMES

Optimum has revolutionized the construction industry by offering the most comprehensive line of steel fire rated windows. Today, we are one of the largest and most efficient manufacturers in our field, with fire rated products ranging from 20 to 90 minutes. Optimum's multiple window and door series are used in non-temperature rise applications and through various glazing options can be modified to address most fire rated applications.

FEATURES

- 45 min rating w/ Wire Glass; 90 min rating w/ Ceramic Glazing
- All Cold Rolled sections are formed from GALVANIZED STEEL
- UL (Underwriters Laboratories) Listed and Certified
- EPDM and Silicone Pile Weather-Stripping
- 2 1/4" exterior frame depth
- Mitered, corner keyed fully welded frame and sash joinery
- Glazing is held in place via mechanically fastened steel glazing beads
- Can accommodate glazing ranging from 3/16" to 3/4" in O.A. thickness
- Insulated glazing available for this series
- All FR55 doors will be factory glazed, unless ordered otherwise
- Standard Optimum Window colors (White, Bronze, Black) factory finished
- Units arrive with installation straps (upon request)
- Doors will arrive with fire resistant hinges and door closer
- Fabricated in the United States of America

OPTIONS

- Custom color from RAL colors.
- Steel Break Metal trim

STANDARD WARRANTIES

- 10 year warranty on the finish

LISTINGS

Listed and labeled by Underwriters Laboratories Inc. and Underwriters' Laboratories of Canada. Test report for labeled 20/45/60/90 minute fire-rated frame assemblies is UL file NO. R-12349. Frame tests performed in accordance with ASTM E283, ASTM E331 & ASTM E 330. Approved for use in New York City, MEA# 151-91-M

GENERAL TEST RESULTS AND / ADIMENSIONAL LIMITATIONS

| Hour Rating | Min Frame Dim. | Max Frame Dim. | (Air) ASTM E283 @ 6.25psf | (Water) ASTM E331 @ 5.0gph / ft2 | Uniform Load ASTM E330 | Max Vent Dim. | Max. Wire Gls Dim. | Max. Safety Gls. | Max. Ceramic Gls. |
|-------------|----------------|----------------|---------------------------|----------------------------------|------------------------|---------------|--------------------|------------------|-------------------|
| 1 ½ | 30" x 72" | 46" x 98" | n/a | n/a | n/a | 46" x 98" | n/a | 2012 sq in | n/a |
| 1 | 30" x 72" | 46" x 98" | n/a | n/a | n/a | 46" x 98" | n/a | 3115 sq in | n/a |
| ¾ | 30" x 72" | 46" x 98" | n/a | n/a | n/a | 46" x 98" | n/a | 3115 sq in | n/a |

***Note: Test specimen size**