

# FR55 Fixed 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 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 Fixed windows will be factory glazed, unless ordered otherwise
- Standard Optimum Window colors (refer to OWM color chart)
- Units arrive with installation straps (upon request)
- Fabricated in the United States of America

### OPTIONS

- RAL colors available as option
- Non metallic color matches are optional & available upon request
- Steel Break Metal trim

### STANDARD WARRANTIES

- 10 year warranty on the finish
- 1 year on the parts

### 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 E330. 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	18" x 18"	46" x 98"	.01 cfm / ft2	WTP @ 12.00 psf	75 psf	n/a	n/a	optional	2012 sq in
1	18" x 18"	46" x 98"	.01 cfm / ft2	no	interior	n/a	n/a	optional	3115 sq in
¾	18" x 18"	46" x 98"	.01 cfm / ft2	leakage	exterior	n/a	n/a	optional	3115 sq in

**\*Note: Test specimen size**