



# FireLite<sup>®</sup> PLUS<sup>®</sup> WS



## FIRE-RATED, GLASS CERAMIC FOR UP TO 2-HOUR ASSEMBLIES WHEN USED WITH TYCO WS SPECIFIC APPLICATION WINDOW SPRINKLERS

FireLite Plus<sup>®</sup> WS is a nominal 5/16" (8 mm) thick laminated glazing material listed for use in doors, sidelites, transoms and borrowed lites. When acceptable to the local Authority Having Jurisdiction (AHJ), FireLite Plus WS may be used in combination with TYCO Model WS Window Sprinklers as an alternative to fire rated assemblies requiring a 2-hour rating. Unlike tempered glass, using FireLite Plus WS glazing eliminates TYCO's WS Special Application Sprinkler requirement for keeping combustible materials a minimum of 2" from the glass face (typically accomplished by incorporating a minimum 36" ponywall).

**ultraHD<sup>®</sup>**  
TECHNOLOGY

## DOCUMENTATION\* AND USE

TYCO Model WS Window Sprinklers are the first to be specifically listed to provide complete wetting and coverage for FireLite Plus WS glass for windows and glazing using closed sprinklers. As part of the sprinkler testing, the gas flow required to achieve the time/temperature relationship specified in ASTM E119 was established in a test furnace. A window assembly protected with the TYCO Model WS Window Sprinklers was then installed in the test furnace, and the same gas flow conditions were maintained for a two-hour test period. No cracking or visible damage to the window was permitted during the test period, even when a hose stream was directed at the window.

The Model WS Window Sprinkler and FireLite Plus WS glazing can be used as interior protection of windows or glazing in a sprinklered or non-sprinklered building in accordance with Section 104 of the International Building Code (IBC) ("Alternate Materials, Design and Methods of Construction and Equipment"). TYCO Model WS Window Sprinkler and FireLite Plus WS glazing can be used as an open sprinkler for "Outside Sprinkler Protection against Exposure Fire", using the design requirements of NFPA.

\*Important: For complete information, application, detail drawings and design criteria, please refer to the TYCO Model WS product information document 'TFP 620' which may be found at [tyco-fire.com](http://tyco-fire.com).

## FIRELITE PLUS WS FEATURES

- Can be used with TYCO Model WS Window Sprinklers as an alternative to a fire-rated assembly when acceptable to the AHJ
- Clear and wireless glass ceramic
- May be butt-glazed allowing longer spans of uninterrupted glass free of vertical frames
- Installs into non-combustible frames with a standard EPDM rubber gasket seal
- Impact safety-rated—meets ANSI Z97.1 and CPSC 16CFR1201 (Cat. I and II)
- Now with ultraHD<sup>®</sup> Technology for improved surface quality, clarity and color
- Protects from fire and impact on both sides of the glass
- Withstands thermal shock
- Also available as an insulated glass unit (IGU)
- 5-year limited FireLite Plus warranty

## FIRELITE PLUS LISTINGS

FireLite Plus (including FireLite Plus WS) is classified and labeled by Underwriters Laboratories, Inc.<sup>®</sup> and Underwriters Laboratories of Canada. File number for labeled fire-rated assemblies is R13377. All above tests performed in accordance with UL 9, UL 10B, UL 10C, NFPA 80, NFPA 252, NFPA 257, CAN4 S-104 and CAN4 S-106. Approved for use in New York City: MEA 290-90-M-6. Approved for use in Los Angeles: LARR 25798.

## FIRELITE PLUS WS SURFACE FINISH

FireLite Plus WS is available in two different surface conditions for clear viewing, premium grade and standard grade. For further information regarding surface finish, please reference FAQ which can be found at [fireglass.com/faq](http://fireglass.com/faq)

## FIRELITE PLUS WS MAXIMUM APPLICATION SHEET SIZE

When used with TYCO Model WS Window Sprinklers and acceptable to the AHJ, FireLite Plus WS may be used up to 36" x 96" per piece.

## FIRELITE PLUS WS LABELING

Each piece of FireLite Plus WS shall be permanently labeled with the FireLite Plus WS logo, UL logo and listing number.

## LIABILITY DISCLAIMER

As with any specific fire-rated glazing and sprinkler application, the installation instructions for the glazing and sprinkler system must be precisely followed. If there are additional local or jurisdiction installation standards / codes for window sprinklers on glazed window systems, this document and the TYCO Model WS Sprinkler documentation does not relieve the designer / installer from these requirements. Consult your local AHJ to verify if or when these additional guidelines must be followed.

## FAMILY OF PRODUCTS

TGP offers a complete family of products for all your fire-rated glazing needs, ranging from 20 minute to 3 hour applications. More information is available online at [fireglass.com](http://fireglass.com), or by calling 800.426.0279.

## SAMPLE DETAIL

For complete information, application, detail drawings and design criteria, please refer to the TYCO Model WS product information document 'TFP 620' which may be found at [tyco-fire.com](http://tyco-fire.com).

