

**tyco**  
Fire Protection Products

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# Model WS Window Sprinklers

Allowing Greater  
Design Freedom

# Allowing Greater Design Freedom

## Model WS Specific Application Window Sprinklers



The use of glass as a construction element is becoming increasingly common throughout the commercial built environment. Ensuring that glass can appropriately resist the effects of fire is often such a challenge that the full scope of architectural creativity is stifled.

The innovative Model WS Window Sprinklers from Tyco Fire Protection Products provide a proven and cost effective method to protect glass during a fire event, allowing projects to progress the way the design team intended.

The Model WS Window Sprinklers are able to respond quickly in the case of fire, with a special spray pattern that is designed to coat the entire surface of the window with a cooling water flow. The result is a level of protection that reduces the risk of

cracking or shattering due to thermal shock, minimizing the chance of fire spread, helping protect lives and property.

FireLite Plus® WS by Technical Glass Products can be specified along with Model WS Window Sprinklers. This combination eliminates the requirement for a two-inch separation (usually accomplished through the use of a pony wall), further enhancing the building design aesthetic.

The following types of single- or double-paned glass are recognized for use:

- FireLite Plus® WS by Technical Glass Products
- Heat-Strengthened Glass
- Tempered Glass



Photography - Peter Bennett

*Tyco solutions are used in some of the most widely recognized buildings worldwide. The Gas Natural building in Barcelona is recognized throughout the world and is an architectural masterpiece that is protected by the Model WS Window Sprinklers. By using Tyco sprinklers, the architect was free to create a futuristic design while still complying with safety requirements.*



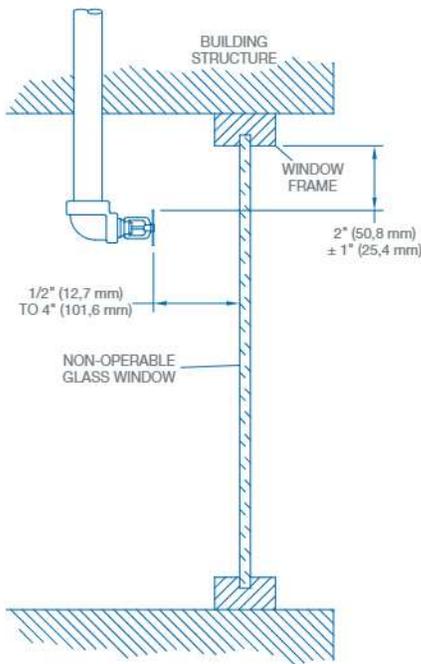
**TY3388 - Horizontal Sidewall**



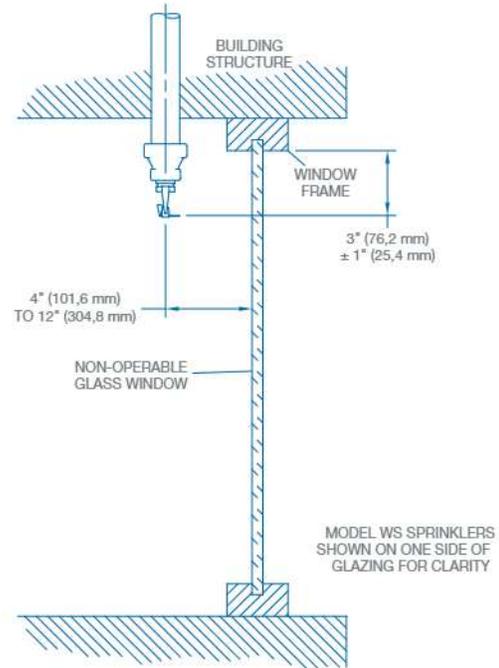
**TY3488 - Pendant Vertical Sidewall**

## Technical Data:

<b>Connections:</b>	1/2" NPT
<b>Discharge Coefficient:</b>	K= 5.6 GPM/psi <sup>1/2</sup> 80,6 LPM/ bar <sup>1/2</sup>
<b>Temperature Ratings:</b>	155°F (68°C) • 200°F (93°C)
<b>Finish:</b>	Polyester Coated / Chrome Plated / Natural Brass
<b>TY3388:</b>	Horizontal Sidewall
<b>TY3488:</b>	Pendent Vertical Sidewall
<b>Datasheet:</b>	For complete technical data refer to technical datasheet TFP620



**MODEL WS HORIZONTAL SIDEWALL SPRINKLER  
TYPICAL INSTALLATION**



**MODEL WS PENDENT VERTICAL SIDEWALL SPRINKLER  
TYPICAL INSTALLATION**



## Advantages of the Model WS Sprinklers

- Only automatic sprinklers available with Specific Application Listing from UL for use as a Window Sprinkler
- Only automatic sprinklers able to provide an alternative to a 2-hour fire-resistance-rated wall assembly, as recognized by ICC-ES
- Only automatic sprinklers that provide complete coverage of protected glazing when installed per technical data sheet TFP620

## Approvals

- UL, C-UL and ULC Listed
- NYC under MEA 289-04-E



## Additional Recognition

- ICC-ES Report ESR-2397
- Ontario Building Code

Although UL Listed, if there are additional local or jurisdictional installation standards/codes for window sprinklers on glazed window systems, this approval does not relieve the designer/installer from these requirements. Consult your local authority having jurisdiction to verify if or when these additional guidelines must be followed.



Global Strength. Local Expertise.  
At your service

### WORLDWIDE HEADQUARTERS

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