

V27, K3.5

Model V2718

Residential

Horizontal Sidewall

and Recessed Horizontal Sidewall

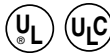
Quick Response

FOR RETROFIT ONLY

PRODUCT DESCRIPTION



**Horizontal
Sidewall** V2718



**Recessed
Horizontal Sidewall** V2718

These Model V27 residential sprinklers are designed to meet the requirements of NFPA 13, 13D and 13R for residential use for a variety of room sizes, depending upon available operating pressure and room configuration. The design incorporates state-of-the-art, heat responsive, frangible glass bulb design (quick response) for prompt, precise operation.

The die cast frame is more streamlined and attractive than traditional sand cast frames. It is cast with a hex-shaped wrench boss to allow easy tightening from

many angles, reducing assembly effort. This sprinkler is available in various finishes to meet many design requirements.

Sprinkler Operation

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand. When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters. As a result, the waterway is cleared of all sealing parts and water is discharged

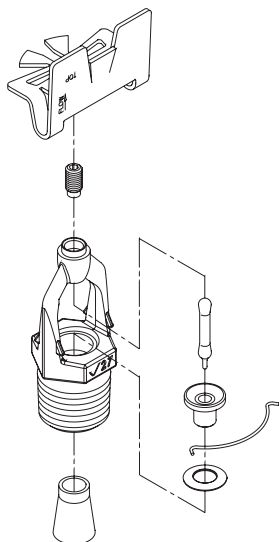
towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

Coverage

Residential spray coverage up to 16 feet X 16 feet (4,9 m X 4,9 m) room sizes per NFPA.

NOTE: Residential sprinkler installations are covered by the obstruction rules for extended coverage sprinklers per the 1999 (or later) version of NFPA 13.

TECHNICAL SPECIFICATIONS



(Exaggerated for clarity)

Model: V2718

Style: Residential Horizontal Sidewall and Recessed Horizontal Sidewall

Nominal Orifice Size: 3/8" (12 mm)

K-Factor: 3.5 Imp. (5,0 S.I. ^) for room sizes up to 16' (4,9 m).

Nominal Thread Size: 1/2" NPT (15 mm)

Max. Working Pressure: 175 psi (1200 kPa)

Factory Hydrostatic Test: 100% @ 500 psi (3450 kPa)

Min. Operating Pressure: 7 psi (48 kPa)

Temperature Rating: See chart on page 2.

MATERIAL SPECIFICATIONS

Deflector:

Bronze per UNS C22000

Bulb: Glass with glycerin solution.

Bulb Nominal Diameter: Quick Response: 3,0 mm

Load Screw: Bronze per UNS C65100

Bushing: Brass per UNS C36000

Pip Cap: Bronze per UNS C65100

Spring: Beryllium nickel

Seal: Teflon* tape

Frame: Die cast brass 65-30

Lodgement Spring: Stainless steel per UNS S30200

ACCESSORIES

Installation Wrench:

- ☐ Open End: V27
- ☐ Recessed: V38, V38-3

Sprinkler Finishes:

- ☐ Plain brass
- ☐ Chrome plated
- ☐ White painted**
- ☐ Custom painted**

For escutcheons, cabinets and other accessories refer to separate sheet.

NOTE: Weather resistant recessed escutcheons available upon request.

^ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

*Teflon is a registered trademark of Dupont Co.

**UL Listed for corrosion resistance.

APPROVALS/LISTINGS

Model	Orifice Size Inches/mm	Nominal K-Factor Imperial S.I. [^]	Response	Deflector Type	Approved Temperature Ratings °F/°C ‡			
					UL	ULC	NYC/MEA†	CSFM
V2718	3/8 10	3.5 5.0	Quick	Horizontal Sidewall	155 68	155 68	155 68	155 68
V2718	3/8 10	3.5 5.0	Quick	Recessed Horizontal Sidewall Up to 3/4" Adjustment	155 68	155 68	155 68	155 68

‡ Listings and approval as of printing.

[^] For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

† MEA #62-99-E.

RATINGS

Glass bulb fluid is rated for temperatures up to those shown in adjacent table and down to -67°F (-55°C).

Sprinkler Temperature Classification	Victaulic Part Identification	Temperature – °F/°C		Glass Bulb Color
		Nominal Temperature Rating	Maximum Ambient Temp. Allowed	
Ordinary	C	155 68	100 38	Red

ORDERING INFORMATION

Please specify the following when ordering:

- | | | |
|---|--------------------------------------|--|
| <input type="checkbox"/> Sprinkler Model Number | <input type="checkbox"/> K-Factor | <input type="checkbox"/> Sprinkler Finish |
| <input type="checkbox"/> Style | <input type="checkbox"/> Thread Size | <input type="checkbox"/> Escutcheon Finish |
| <input type="checkbox"/> Temperature Rating | <input type="checkbox"/> Quantity | <input type="checkbox"/> Wrench Model Number |

⚠ WARNING



- Always read and understand installation, care, and maintenance instructions, supplied with each box of sprinklers, before proceeding with installation of any sprinklers.
 - Always wear safety glasses and foot protection.
 - Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.
 - Installation rules, especially those governing obstruction, must be strictly followed.
 - Painting, plating, or any re-coating of sprinklers (other than that supplied by Victaulic) is not allowed.
- Failure to follow these instructions could result in serious personal injury and/or property damage.

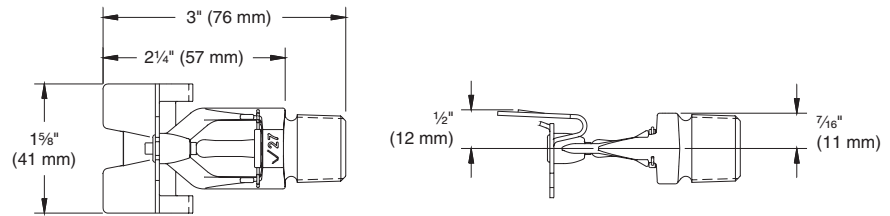
The owner is responsible for maintaining the fire protection system and devices in proper operating condition. For minimum maintenance and inspection requirements, refer to the current National Fire Protection Association pamphlet that describes care and maintenance of sprinkler systems. In addition, the authority having jurisdiction may have additional maintenance, testing, and inspection requirements that must be followed.

If you need additional copies of this publication, or if you have any questions about the safe installation of this product, contact Victaulic World Headquarters, P.O. Box 31, Easton, Pennsylvania 18044-0031, 610-559-3300.

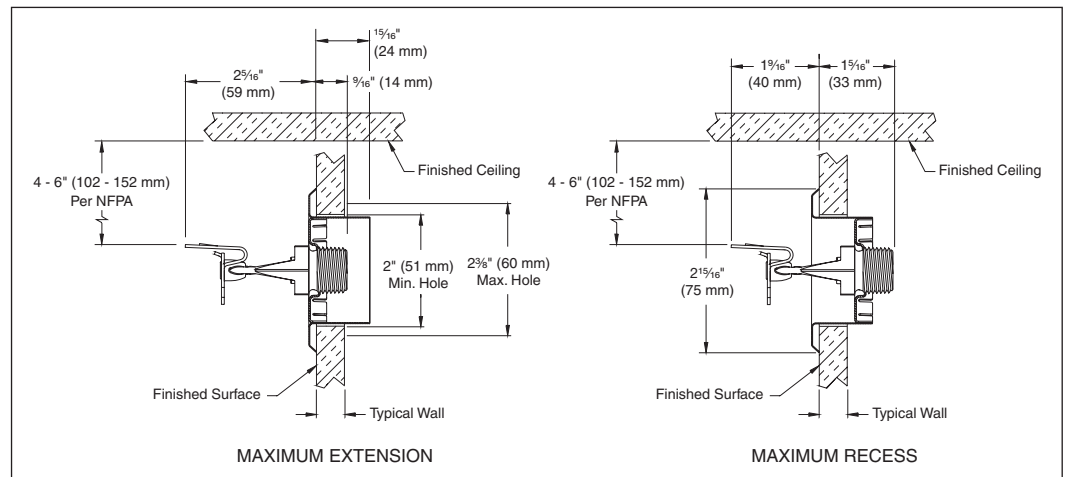
WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

DIMENSIONS



Standard HSW – V2718



**3/4" Adjustment
Recessed – V2718
(Drawing not to scale)**

AVAILABLE WRENCHES

	Open End	Recessed
V2718 – No escutcheon	V27	V38
V2718 – With escutcheon	–	V38

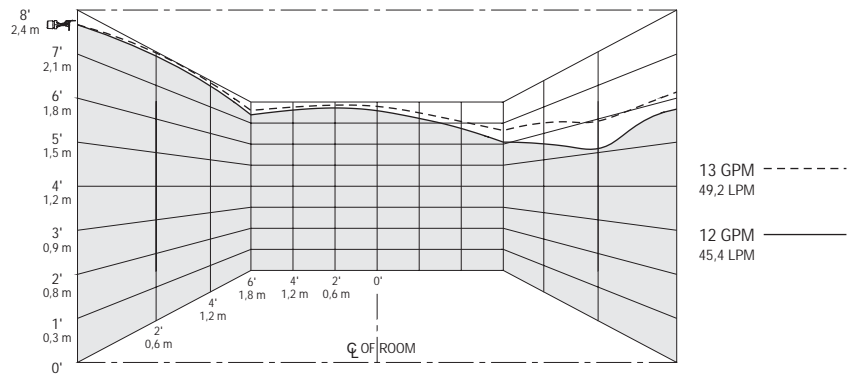
ROOM SIZE

Model	Room Size Feet/meters	Min. Installation Spacing Feet/meters	Nominal K-Factor Imp./S.I. [^]	Minimum Flow per Sprinkler GPM/LPM @ PSI/kPa	
				One Sprinkler Flowing	Multiple Sprinklers Flowing (per Sprinkler)
V2718	12 × 12 3,7 × 3,7	8,0 2,4	3,5 5,0	13 GPM @ 13,8 PSI 49,2 LPM @ 95,2 kPa	12 GPM @ 11,8 PSI 45,4 LPM @ 81,4 kPa
V2718	14 × 14 4,3 × 4,3	8,0 2,4	3,5 5,0	16 GPM @ 20,9 PSI 60,6 LPM @ 144,1 kPa	15,5 GPM @ 19,6 PSI 58,7 LPM @ 135,1 kPa
V2718	16 × 16 4,9 × 4,9	8,0 2,4	3,5 5,0	19 GPM @ 29,5 PSI 71,9 LPM @ 203,4 kPa	18,5 GPM @ 27,9 PSI 70,0 LPM @ 192,4 kPa

[^] For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

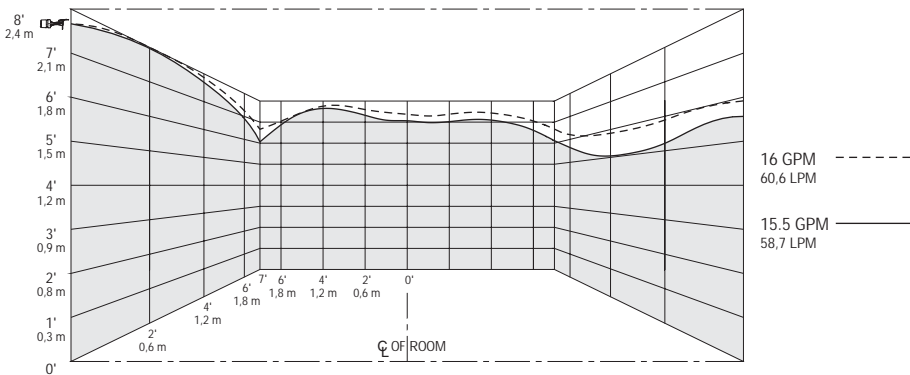
NOMINAL WETTING PATTERNS

MODEL V2718
K3.5 RESIDENTIAL HORIZONTAL SIDEWALL



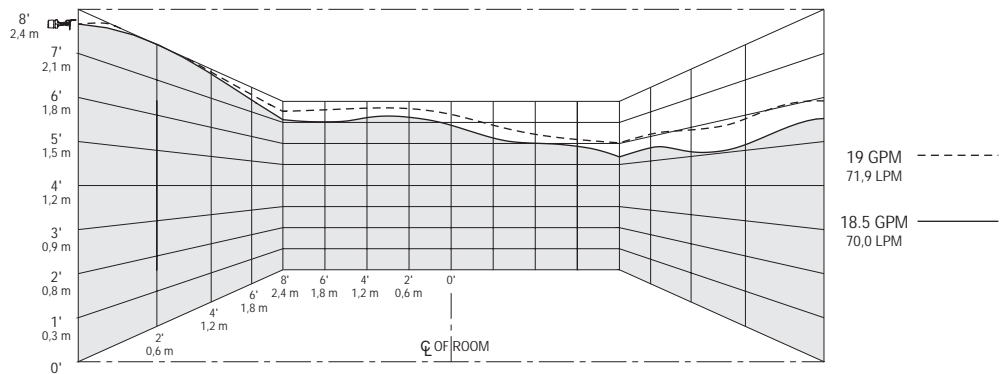
NOMINAL WETTING PATTERN
12' X 12' COVERAGE AREA

MODEL V2718
K3.5 RESIDENTIAL HORIZONTAL SIDEWALL



NOMINAL WETTING PATTERN
14' X 14' COVERAGE AREA

MODEL V2718
K3.5 RESIDENTIAL HORIZONTAL SIDEWALL



NOMINAL WETTING PATTERN
16' X 16' COVERAGE AREA

NOTES:

1. Data shown is approximate and can vary due to differences in installation.
2. These graphs illustrate approximate trajectories, floor-wetting, and wall-wetting patterns for these specific Victaulic FireLock Automatic Sprinklers. They are provided as information for guidance in avoiding obstructions to sprinklers and should not be used as minimum sprinkler spacing rules for installation. Refer to the appropriate NFPA National Fire Code or the Authority Having Jurisdiction for specific information regarding spacing limitations and area of coverage requirements. Refer to paragraph 5-4.5 of the 1999 Edition of NFPA 13 for obstruction rules when installing these residential horizontal sidewall sprinklers. Failure to follow these rules and guidelines could adversely affect the performance of the sprinkler and will void all Listings, Approvals and Warranties.
3. All patterns are symmetric to waterway.

This product shall be manufactured by Victaulic Company. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.