

# WILLSEAL® FR/SAF-V

Pre-Compressed Fire Rated Vertical Safety Expansion Seal

## Product Overview

Willseal® FR/SAF-V is a fire-rated, pre-compressed, watertight, UV stable foam, with an integral smoke barrier within the foam body, sound-attenuating expansion joint with a pre-cured, factory-applied pick-resistant sealant applied to the face. FR-V is comprised of a fire-retardant impregnated foam designed to be used in vertical expansion joints by itself, without the addition of an intumescent sealant on the foam surface.

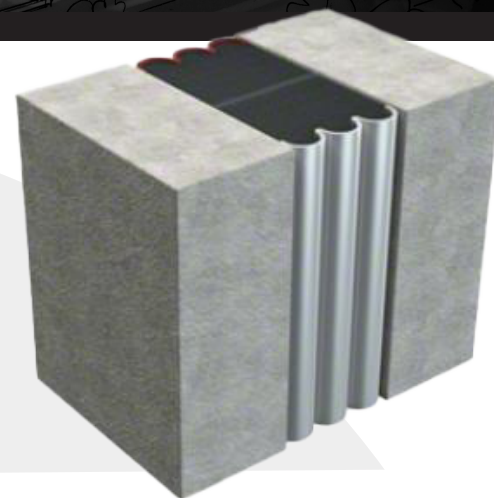
Willseal FR/SAF-V is designed for use in vertical expansion joints coated with a pick-resistant sealant on a single side or both based on the pick-resistant fire-rated system requirements required in schools, detention facilities, hospitals, prisons, and other government facilities.

- Vertical fire-rated expansion joint systems
- Primary construction joints
- Expansion, control, and isolation joints
- Retrofit & seismic joints
- Joints requiring a resilient, waterproof seal
- Larger joints requiring an architectural finish

## Features & Benefits

Willseal FR/SAF-V has been tested and certified under UL 2079 and includes an integral smoke barrier with a pick resistant coating. Willseal FR/SAF-V is available in both single- and double-sided pick resistant coating.

- Allows for up to 100% ( $\pm 50\%$ )
- 2- & 3-hour fire rated sea when installed in accordance with a tested firestop system
- STC rating of 54, OITC rating of 48
- Integrated smoke barrier prevents toxic gases and fumes from passing thru the joint.



- Tamper resistant sealant
- Abrasion and tear resistant
- Excellent compression recovery
- Supplied in pre-compressed state for ease of installation
- Sealant hardens to  $50 \pm 10$  durometer
- Meets UL94V0, Cal 117 for self-extinguishing



## Colors

- Tru White, Limestone
- Custom Colors available upon request and may require a minimum order quantity.

## Packaging

- Joint sizes from 1/2" to 6" in sticks (6.5 ft lengths)
- Depth of seal is typically 4". Refer to UL listings at [www.UL.com](http://www.UL.com).
- Custom lengths are available by requests where applicable.

## Fire Rated Systems

For a full list of UL tested systems contact Willseal Technical Services or refer to UL website at [www.ul.com](http://www.ul.com).

## Applicable Standards

- UL 2079 (ASTM E1966)
- CAN/ULC-S115

## Availability

Willseal FR-V is available from your authorized Tremco or Willseal distributor, or any Tremco or Willseal Sales Representative. For more information contact Customer Service by phone at 800-274-2813 or email [custserv@willseal.com](mailto:custserv@willseal.com).

## Limitations

- Not recommended for use with passive fire containment systems not listed or approved by Willseal.
- Do not subject to harsh chemicals such as acids, strong alkalis, ketones, etc.
- Will not adhere to surfaces contaminated by oil or grease. Concrete should clean, dry & sound.

## Storage

Store material in a dry, enclosed area, off the ground, and out of direct sunlight. Store material at a minimum of 68 °F (20 °C). If ambient storage temperatures fall below 50 °F (10 °C), warm material up to 68 °F (20 °C) for a minimum of 24 hours prior to installation, regardless of temperature at location of installation.

## Warranty

Willseal Products are warranted to be free of defects in materials, but no warranty is made as to appearance or color. No other warranty, expressed or implied, is made with respect to Willseal Products, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE. The sole and exclusive remedy under this warranty shall be to replace or refund the purchase price of the quantity of Willseal Products proven to be defective, and there is no liability whatsoever for other loss or damage.

## Typical Physical Properties

SEALANT PROPERTY <sup>T</sup>	TEST METHOD	TYPICAL RESULTS
Hardness, Shore A Ultimate*	ASTM C 661	50+/-10
Adhesion to Concrete (pli)	ASTM C 794	25-47
Elongation, ultimate (%)	ASTM D 412	175-300
Tear Strength (ppi)	ASTM D 624	40+/-5
Tensile Strength, ultimate (psi)	ASTM D 412	250

Please refer to our website at [www.willseal.com](http://www.willseal.com) for the most up to date Product Data Sheets. NOTE: All Willseal Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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