



TECHNICAL DATA SHEET

WILLSEAL® 1FR-H

Pre-Compressed, Fire-Rated,
Horizontal Expansion Seal

PRODUCT DESCRIPTION

Willseal® 1FR-H is a fire-rated, pre-compressed, sound-attenuating expansion seal with an integral smoke barrier within the foam body and a pre-cured, traffic-rated, factory-applied sealant coating on the face. Willseal 1FR-H is comprised of a UV stable, fire-retardant impregnated foam, that is designed to be used in horizontal expansion joints by itself, but can also be used behind any other expansion joint cover, plate, or filler where joint depth allows.

BASIC USES

Willseal 1FR-H is designed for use in horizontal expansion joints, including those subject to vehicle or foot traffic and those in fire-rated systems to provide a 1-hour fire-rated seal. Willseal 1FR-H can either be coated on a single side or both sides based on the fire-rated system requirements. The following are acceptable applications for Willseal 1FR-H:

- Primary horizontal expansion joints with vehicular traffic
- Primary horizontal expansion joints with pedestrian traffic
- Parking garages
- Stadiums
- Plaza decks on grade
- Airport runways
- Ceiling joints

FEATURES & BENEFITS

Willseal 1FR-H has been tested and certified under UL 2079 and includes an integral smoke barrier. Willseal 1FR-H is available uncoated or coated with a sealant facer. If coated, Willseal 1FR-H can be single-side coated or double-side coated. As a standard Willseal 1FR-H is coated with a traffic-grade sealant.

- 1- hour fire rated seal when installed in accordance with a UL tested firestop system
- STC rating of 54, OITC rating of 48
- Integrated smoke barrier prevents toxic gases and fumes from passing thru the joint
- Meets UL 2079 (ASTM E1966) and CAN/ULC-S115

Willseal 1FR-H provides a watertight seal in dynamic joints. It accommodates for rapid rates of joint movement and allows for up to 100% movement (\pm 50% movement).

- Has excellent compression recovery
- Utilizes non-invasive anchoring

Willseal 1FR-H is supplied in a pre-compressed state for ease of installation. Material will self-expand to fill the joint. Expansion time will vary based on humidity, temperature, and storage conditions for the prior 24 hours; may differ for wider, thicker material. Material will continue to expand and equalize in the joint.

AVAILABILITY

Available in joint sizes from ½" to 5" in sticks (6.5 ft lengths) from your authorized Tremco distributor, or any Tremco or Willseal Sales Representative. Custom sizes are available upon request. For more information contact Customer Service by phone at 800-274-2813 or email custserv@willseal.com.

COLORS

Available in Concrete Gray, Highway Gray, and Traffic-Grade Black. Industry standard colors and custom colors available upon request.

LIMITATIONS

Not recommended for use with passive fire containment systems not listed or approved by Willseal. Depth of seal is typically 4". Refer to UL listings at www.UL.com. Contact Willseal Technical Services for additional information.

WARRANTY

A repair or replacement warranty is available on all Willseal products. Visit <https://www.tremcosealants.com/warranties/> for details.

Please refer to our website at www.tremcosealants.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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Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc.



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