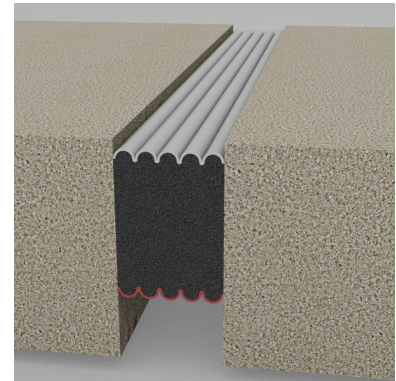


Wabo®FireShield FSH

Fire-Retardant Impregnated Pre-Compressed Horizontal Foam Expansion Joint System

Features	Benefits
<ul style="list-style-type: none"> • Fire-Rated 	2 hr or 3 hr fire rating in accordance with UL-2079
<ul style="list-style-type: none"> • Sound Attenuation 	Minimizes sound transfer
<ul style="list-style-type: none"> • Ease of installation 	No mechanical anchors needed to install system. Saves time and labor.
<ul style="list-style-type: none"> • Generous Movement Capability 	Can accommodate structural movement up to +/-50% and excellent for thin slab applications



DESCRIPTION:

Wabo®FireShield FSH is a second generation unified fire rated, sound, UV stable, thermal and waterproof sealant system. It features waterproof silicone faces on each side of a fire-retardant impregnated foam sealant without the need for additional set of intumescent bellows. This fire-retardant impregnated foam does not rely on the silicone face or an intumescent coating to provide its fire rating.

Although designed to be used alone, it can also be below any metallic or elastomeric expansion joint system. With both sides coated, it may be placed with either side exposed to view adding to the versatility and increasing the aesthetic fireproof sealing options. The silicone finish enhances the water resistant nature of the product and provides an aesthetic finish. Wabo®FireShield FSH Also has the ability to handle variations in joint size through incremental sizing. There is no drilling or modifying of the substrate required for installation.

RECOMMENDED FOR:

- All Interior and Exterior horizontal expansion joint applications
- For use in various construction projects including:
 - Health-Care
 - Transportation
 - Recreation
 - Retail
 - Commercial
 - Educational
 - Parking Garage
 - Water Treatment facilities
 - Stadium

PACKAGING/COVERAGE:

- Shipped in nominal standard lengths of 6.5 LF (2meters).
- Epoxy adhesive supplied as part of the system.
- Silicone sealant and intumescent sealant for unions only.
- Silicone face: gray for traffic surface. Underside color is red to indicate existence of fire proofing or orientation for installation.



TABLE 'A' (+/-25%)

Size when ordering @ Mean Temperature										Part Number for Ordering (25% mvmt)	
"A" @ Mid.		Joint Opening "A"						System Depth "B"		2hr Rated @ 25% mvmt Coated Both Sides	3hr Rated @ 25% mvmt Coated Both Side
Nominal Install J.O.		Min.		Max.		Total Mov.					
in	mm	in	mm	in	mm	in	mm	in	mm		
0.50	13	0.38	10	0.63	16	0.25	6	4.00	102	FSH 60101	FSH 60278
1.00	25	0.75	19	1.25	32	0.50	13	4.00	102	FSH 60119	FSH 60284
1.50	38	1.13	29	1.88	48	0.75	19	4.00	102	FSH 60131	FSH 60287
2.00	51	1.50	38	2.50	64	1.00	25	4.00	102	FSH 60143	FSH 60289
2.50	64	1.88	48	3.13	79	1.25	32	4.00	102	FSH 60155	FSH 60291
3.00	76	2.25	57	3.75	95	1.50	38	4.00	102	FSH 60167	FSH 60293
3.50	89	2.63	67	4.38	111	1.75	44	4.00	102	FSH 60179	(not avail, in 3.5" size)
4.00	102	3.00	76	5.00	127	2.00	51	4.00	102	FSH 60191	(not avail, in 4" size)
4.50	114	3.38	86	5.63	143	2.25	57	4.00	102	FSH 60203	(not avail, in 4.5" size)

Other intermediate sizes are available up to 4.5" w ide, contact WBA for details. Contact your WBA Representative with your special design needs.

TABLE 'B' (+/-50%)

Size when ordering @ Mean Temperature										Part Number for Ordering (50% mvmt)	
"A" @ Mid.		Joint Opening "A"						System Depth "B"		2hr Rated @ 50% mvmt Coated Both Sides	3hr Rated @ 50% mvmt Coated Both Sides
Nominal Install J.O.		Min.		Max.		Total Mov.					
in	mm	in	mm	in	mm	in	mm	in	mm		
0.50	13	0.25	6	0.75	19	0.50	13	4.00	102	FSH 60380	FSH 60311
1.00	25	0.50	13	1.50	38	1.00	25	4.00	102	FSH 60383	FSH 60317
1.50	40	0.75	19	2.25	57	1.50	38	4.00	102	FSH 60385	FSH 60321
2.00	50	1.00	25	3.00	76	2.00	51	4.00	102	FSH 60387	FSH 60324
2.50	65	1.25	32	3.75	95	2.50	64	4.00	102	FSH 60389	FSH 60326
3.00	76	1.50	38	4.50	114	3.00	76	4.00	102	FSH 60391	FSH 60328
3.50	65	1.75	44	5.25	133	3.50	89	4.00	102	FSH 60532	FSH 60536
4.00	102	2.00	51	6.00	152	4.00	102	4.00	102	FSH 60589	FSH 60582
4.50	114	2.25	57	6.75	171	4.50	114	4.00	102	FSH 60591	(not avail, in 4.5" size)
5.00	127	2.50	64	7.50	191	5.00	127	4.00	102	FSH 60593	(not avail in 5.0" size)

Other intermediate sizes are available up to 4.5" w ide, contact WBA for details. Contact your WBA Representative with your special design needs.

TECHNICAL DATA:

Design Information

Wabo®FireShield FSH is permanently resilient and will expand and contract with the movement of the joint under any weather condition.

- Wabo®FireShield FSH has been tested and certified under UL 2079 & ULC-S115. It meets the requirements of ASTM E1966, ASTM E119 and ASTM E1399. UL 2079, like ASTM E1966, was developed to encompass the fire testing of ASTM E119 and movement cycling regime of ASTM E1399.
- It is also tested to ASTM E283, 330, 331 & 547 to confirm its sealing capabilities through its entire stated movement range. ASTM E90 testing has been completed to verify the sound attenuating properties of the system (test results available upon request).
- Movement Capability: +/- 25% (50% total) or +/- 50% (100% total) of nominal material size, depending on the material selected.



APPLICATION:

INSTALLATION SUMMARY:

- Manufactured in 6.5LF (2M) sticks which can be joined in the field to optional factory fabricated 90° factory transitions. These factory fabricated 90° units can be coated on both sides with the silicone coating allowing them to be installed as an upturn or downturn transition.
- Custom sizes are available to meet actual field conditions. Transitions end in an uncoated 90° miter to be adhered to another transition piece as used in walls-to-decks, treads and risers, parapets, curbs and other applications.
- 90 degree transitions can sometimes allow for much faster and secure installation by eliminating field cutting at angles.
- Product does not require an “injected bead” for its waterproof characteristics. The unions between each stick are made using a field applied silicone sealant and an intumescent sealant on the ends of the foam sealant.
- ASTM E90 Sound attenuation values for a 2” Wabo®FireShield System are a STC result of 54 and an OITC result of 48.

OPTIONS:

- Single Sided
- Double Sided
- Uncoated
- Pick Resistant Coating
- Traffic grade gray only
- Custom intermediate sizes are available

FOR BEST RESULTS:

- Surfaces to be sealed must be sound, dry, clean and free of oil, grease, laitance, rust and other foreign material.
- Remove dirt and other loose particles.
- Do not install if the joint’s anticipated movement will exceed the seal’s movement range.
- Complete installation information is supplied with material and is also available from Watson Bowman Acme.
- Periodically inspect the applied material and repair localized areas as needed. Consult a Watson Bowman Acme representative for additional information.
- Make certain the most current version of the product data sheet is being used. Please consult the website (www.watsonbowmanacme.com) or contact a customer service representative.
- Proper application is the responsibility of the user. Field visits by Watson Bowman Acme personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.
- Store Wabo®FireShield at a minimum of 68°F (20°C) for a minimum of 24 hrs prior to installation, regardless of temperature at location of installation.
- Store materials in a dry, enclosed area off the ground and out of direct sunlight.
- Do not install when substrate or ambient temperatures are below 40°F (4°C) or above 95°F (35°C).



RELATED DOCUMENTS:

- Material Safety Data Sheets
- Wabo@FireShield Specification
- Wabo@FireShield Sales Drawings
- Wabo@FireShield Installation Procedure

WARRANTY:

- Includes a one-year material warranty. Project specific warranties maybe available from the manufacturer upon request.



LIMITED WARRANTY:

Watson Bowman Acme Corp. warrants that this product conforms to its current applicable specifications. WATSON BOWMAN ACME CORP. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. The sole and exclusive remedy of Purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of Watson Bowman Acme Corp. Any claims concerning this product shall be submitted in writing within one year of the delivery date of this product to Purchaser and any claims not presented within that period are waived by Purchaser. IN NO EVENT SHALL WATSON BOWMAN ACME CORP. BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDES LOSS OF PROFITS) OR PUNITIVE DAMAGES. Other warranties may be available when the product is installed by a factory trained installer. Contact your local Watson Bowman Acme representative for details. The data expressed herein is true and accurate to the best of our knowledge at the time published; it is, however, subject to change without notice.

WaboFireShield FSH_0321