

Description

The RJ Watson Armored Silicoflex System combines the proven performance of our Silicoflex seal with the strength of steel for a long lasting, more universal joint system. Armored Silicoflex was not only designed in response to the demand of high traffic and high impact applications but can easily be retrofitted to existing strip seal. RJ Watson has thousands of feet of Armored Silicoflex installations in many different environments.

The Armored Silicoflex System can be installed with standard concrete, or our RJ Watson Poly-Tron Elastomeric Concrete for added impact transfer reduction.

Uses

- New bridge construction
- Repair and maintenance of bridge expansion joint systems
- Skewed expansion joints
- Road widening projects; retrofitted to existing armored strip seals.

Features

- Capable of large movement ranges from 1.5" to 5"
- Strip Seal retrofit and repair.
- Easily welded or cut in the field as needed for installation
- Custom designed armoring
- Can be fabricated with or without manufactured upturns
- Silicoflex locking adhesive adheres to concrete, elastomeric concrete, steel, polymer concrete, and Silicoflex Joint Seal.
- Silicoflex seal allows for fast and simple installation
- Maintenance friendly

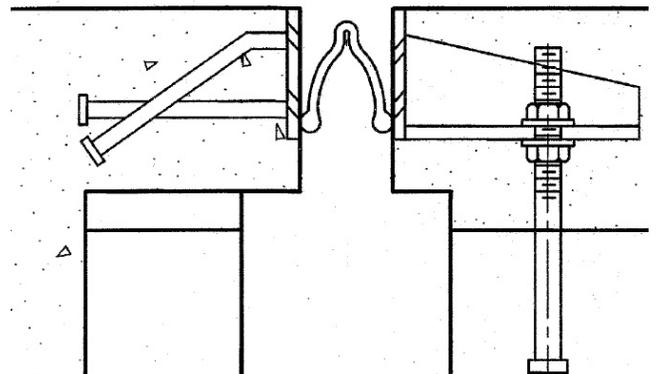


Packaging

- Armoring ships in standard 20-foot lengths with other lengths available if needed. Contact an RJ Watson rep for details.
- Silicoflex seal can be shipped in reel quantities or can be cut to desired lengths.

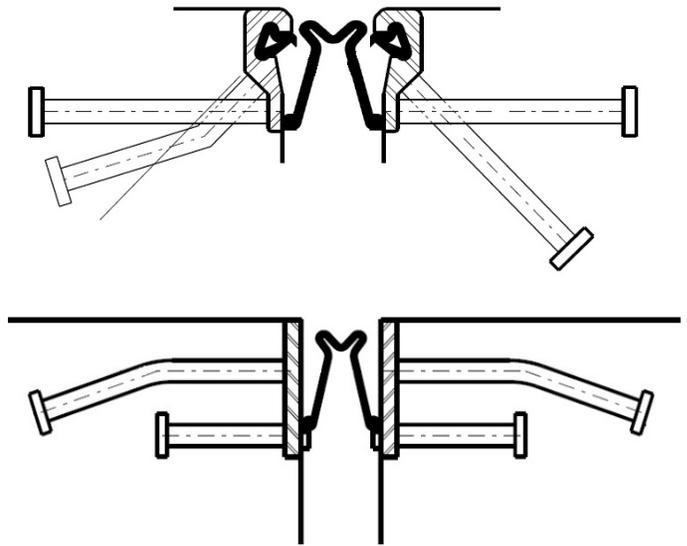
Installation

- Set the joint opening to designed width for the seal at the proper ambient temperature.
- Secure the armoring to the superstructure so that it will not move during the concrete placement.
- Place concrete or elastomeric concrete behind the armoring.
- Once the concrete is cured, Silicoflex can be installed according to the Silicoflex installation instructions.



In retrofitting situations to existing strip seal, such as road widening projects, the installation is similar with a few added steps:

- Field weld the steel armoring directly to the existing strip seal system.
- Remove old or damaged neoprene gland by simply cutting it with a blade at the gland cavity. The gland in the cavity can be left as it will not interfere with Silicoflex performance.
- Silicoflex can be installed across both new armoring and existing strip seal rails following Silicoflex installation instructions.



Technical Data

The following table represents the test properties of our Silicoflex Seal. For test properties of individual Silicoflex components, please see respective data sheet.

Test Property	Value	Test Procedure
Durometer (Shore A)	55 ± 5	ASTM D2240
Tensile (PSI) min.	1,000	ASTM D412
Elongation (%) min.	400	ASTM D412
Tear (die B ppi) min.	100	ASTM D624
Compression Set (212°F, 70hrs) % max.	30	ASTM D395
Durometer, max, points loss	5	
Tensile Strength, max, % loss	10	
Elongation, max, % loss	10	

