

# BOX CULVERT PRODUCTS

## GASKETS, WRAP & SEALANT

Box culvert sealing performance questions are being asked by not only precast customers, but contractors and the engineering community responsible for designing and utilizing box culverts in a variety of applications. This sealing and specification guide is designed to assist in researching, choosing the appropriate level of sealing performance, and determining the proper specifications to be applied to your specific project. It can also aid in developing municipal standards.





# BOX CULVERT

## SEALING AND SPECIFICATION GUIDE



### PROFILE RUBBER GASKETS

Press-Seal's Type 4G Wedge and Reduced Friction Seal (RFS) prelubricated gaskets are available for watertight applications meeting ASTM C 1677. Trust the gaskets that have become the industry standard for sealing pipes, manholes, and box culverts. Press-Seal is the only gasket manufacturer in North America that controls our quality and product performance through our in-house custom rubber mixing department.

Type 4G Wedge and RFS Prelubricated Gaskets meet or exceed:

- ASTM C 1677: Standard Specification for Joints for Concrete Box, Using Rubber Gaskets.
- ASTM C 443: Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets.
- ASTM C 1619: Standard Specification for Elastomeric Seals for Joining Concrete Structures, Section 7, Physical Requirements, Class E
- CSA A 257.3: Joints For Circular Concrete Sewer and Culvert Pipe Using Rubber Gaskets.

### HIGH PERFORMANCE BUTYL RUBBER SEALANT

Pro-Stik and EZ-Stik are both butyl sealants containing no bitumen or asphalt materials meeting ASTM C 990, Section 6.2 Butyl Rubber. Press-Seal butyl sealants are all weather, therefore, they perform better in both hot and cold weather unlike mastic or blended materials. We offer a wide range of sizes to fit your joints.

Pro-Stik and EZ-Stik meet or exceed:

- ASTM C 990 - Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Performed Flexible Joint Sealants. Section 6.2.1 Butyl Sealants (elastomeric polymer shall be butyl rubber only)
- ASTM C765-Standard Test Method for Low-Temperature Flexibility of Preformed Tape Sealants.
- ASTM C972-Standard Method for Compression-Recovery of Tape Sealant.

### BUTYL EXTERIOR JOINT WRAP

Exterior joint wraps are a great secondary seal for use with other sealing products for box culverts. Both 12" EZ-Wrap Plastic and EZ-Wrap Rubber are sized for box culvert joints and meet ASTM C 877. Press-Seal is the only butyl wrap manufacturer that utilizes a spray adhesive option to maximize bonding; reducing installation time and improving long-term sealing compared to a paint-on primer.

EZ-Wrap Plastic and EZ-Wrap Rubber meet or exceed:

- ASTM C 877 (Type III): Standard Specification for External Sealing Bands for Concrete Pipe, Manholes, and Precast Box Sections.

### CELLULAR JOINT FILLER

Flexible closed cell neoprene sponge is a quick, easy solution for filling box culvert joints. Press-Seal offers various sizes and shapes for soil and silt tight applications meeting ASTM D 1056. Press-Seal has improved the installation process by pairing with our spray adhesive.

Cellular Joint Material meet or exceed:

- ASTM D 1056: Flexible Cellular Materials - Sponge or Expanded Rubber.

All rubber gaskets made for box culverts are produced in an EPDM compound for UV resistance.



Press-Seal believes all information is accurate as of its publication date. Information, specifications, and prices are all subject to change without notice. Press-Seal is not responsible for any inadvertent errors. Copyright 2020.

Phone: 800-348-7325  
Fax: (260) 436-1908

**PRESS-SEAL CORPORATION**  
*Protecting Our Planet's Clean Water Supply*  
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Email: [sales@press-seal.com](mailto:sales@press-seal.com)  
Web: [www.press-seal.com](http://www.press-seal.com)