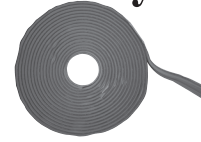


SUBMITTAL RECORD \_\_\_\_\_  
 JOB \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 SUBMITTED TO \_\_\_\_\_  
 SUBMITTAL PREPARED BY \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_  
 DATE \_\_\_\_\_



# Submittal Form BCRF316-58HP Pink Butyl Gasket



## DESCRIPTION

Wherever flanges are used in connecting parts of a duct system, the potential for air leakage exists. Besides contributing to energy waste, leaks can also create noise. Sealing of ductwork can be accomplished with the use of a pliable material which adheres to flanged surfaces. When this material is attached to a flange which is then assembled to a second flange, the material is compressed and fills gaps and irregularities creating a flexible seal.

Duro Dyne BCRF316-58HP is a UL Classified permanently soft caulking compound designed for sealing flanged joints in duct systems. It adheres to clean dry metal surfaces and does not promote corrosion.

## FEATURES

- Flexible to -20° F
- Provides a moisture and vapor tight seal
- Excellent resistance to water, alcohol, mild acids and mild bases
- Non Corrosive
- FDA Approved: As listed in CFR, Title 21, being composed of ingredients acceptable for packaging and transporting food.
- U.S.D.A. Acceptable: Chemically acceptable to the U.S.D.A. for use in meat and poultry processing areas under Federal Inspection.
- Paintable
- Military and Federal Specification for MIL-C-18969B, Type II, Class B and TT-C-1796A, Type II, Class B (Supersedes MIL-C-18909B)
- UL Classified per UL723 (ASTM E84) for Surface Burning Characteristics



**R27941**  
**Underwriters Laboratories, Inc.**  
**Classified**  
**General Use Tapes**  
**Surface Burning Characteristics**  
**Flame Spread: 5**  
**Smoke Developed: 5**  
**23N3**

## TYPICAL PROPERTIES

**Type:** Non-drying synthetic polymer  
**Color:** Pink  
**Specific Gravity:** 1.45 gm/cc  
**Adhesive Tensile Strength:** 10 to 12 PSI  
**Temperature Tolerance:** -40° F to 249° F  
**Application Temperature:** 0° F to 100° F  
**Flame & Smoke Rating:** Flame 5 Smoke Developed 5  
**Bead Dimensions:** 3/16" thick x 5/8" wide x 25' long  
**Shelf Life:** 1 year  
**Applies towards LEED credits.**

ITEM#	CODE	DESCRIPTION
13065	BCRF316-58HP	Pink Butyl Gasketing 25ft./Roll

## SUGGESTED SPECIFICATIONS

All flanged joints shall be sealed with a UL Classified permanently soft caulking compound coded BCRF316-58HP as supplied by Duro Dyne Corporation.

## RELATED SMACNA RECOMMENDATIONS\*

### 1.4.1 - Duct Sealing

Ducts must be sufficiently airtight to ensure economical and quiet performance of the system. It must be recognized that airtightness in ducts cannot, and need not, be absolute (as it must be in a water piping system). Codes normally require that ducts be reasonably airtight. Concerns for energy conservation, humidity control, space temperature control, room air movement, ventilation, maintenance, etc., necessitate regulating leakage by prescriptive measures in construction standards. Leakage is largely a function of static pressure and the amount of leakage in a system is significantly related to system size. Adequate airtightness can normally be ensured by a) selecting a static pressure, construction class suitable for the operating condition, and b) sealing the ductwork properly.

The designer is responsible for determining the pressure class or classes required for duct construction and for evaluating the amount of sealing necessary to achieve system performance objectives. It is recommended that all duct constructed for the 1 in. (250 Pa) and 1/2 in. (125 Pa) pressure class meet Seal Class C. However, because designers sometimes deem leakage in unsealed ducts not to have adverse effects, the sealing of all ducts in the 1 in. (250 Pa) and 1/2 in. (125 Pa) pressure class is not required by this construction manual. Designers occasionally exempt the following from sealing requirements: small systems, residential occupancies, ducts located directly in the zones they serve, ducts that have short runs from volume control boxes to diffusers, certain return air ceiling plenum applications, etc. When Seal Class C is to apply to all 1 in. (250 Pa) and 1/2 in. (125 Pa) pressure class duct, the designer must require this in the project specification. The designer should review the *HVAC Air Duct Leakage Test Manual* for estimated and practical leakage allowances.

Seven pressure classes exist [1/2 in. (125 Pa), 1 in. (250 Pa), 2 in. (500 Pa), 3 in. (750 Pa), 4 in. (1000 Pa), 6 in. (1500 Pa), and 10 in. wg (2500 Pa)]. If the designer does not designate pressure class for duct construction on the contract drawings, the basis of compliance with the SMACNA *HVAC Duct Construction Standards* is as follows: 2 in. wg (500 Pa) for all ducts between the supply fan and variable volume control boxes and 1 in. wg (250 Pa) for all other ducts of any application.

Some sealants can adversely affect the release function of breakaway connections to fire dampers; consult the damper manufacturer for installation restrictions.

Seal Class	Sealing Requirements	Applicable Static Pressure Construction Class
A	Class A: All Transverse joints, longitudinal seams, and duct wall penetrations	4 in. wg and up (1000 Pa)
B	Class B: All Transverse joints and longitudinal seams only	3 in. wg (750 Pa)
C	Class C: Transverse joints only	2 in. wg (500 Pa)

In addition to the above, any variable air volume systems duct of 1 in. (250 Pa) and 1/2 in. wg (125 Pa) construction class that is upstream of the VAV boxes shall meet Seal Class C

\*From *SMACNA HVAC Duct Construction Standards Metal and Flexible • Third Edition • 2005*

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