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



# Specification Form DLSN-5 Duct Lock Sealant

#### DESCRIPTION

Wherever there are joints in ductwork, 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 viscous material which fills gaps and conforms in the longitudinal lock of assembled rectangular duct.

Duro Dyne DLSN Sealant is a grey, single-component, non-drying, permanently flexible material designed for sealing metals, and masonry surfaces without the need or requirement of a primer.

#### **FEATURES**

- Non-corrosive
- Non- Toxic

• Adheres to oily metal surfaces, painted and unpainted galvanized steel or aluminum

### TYPICAL PROPERTIES

Type: Butyl Rubber, resins, inert pigments Solids: 90% approximate Weight: 12-13 lbs./gal. Color: Grey Odor: Petroleum Naptha VOC: < .72 gms./ltr. Viscosity: 130,000 to 165,000 cps Brookfield Flammability: Flammable Effect of Freezing: N/A Storage Life: One year ( Unopened drum or bucket ) Clean With: Small spills- Mineral-Spirits / Large spills- Absorbents like Clay Cure Time: 72 hours

ITEM#	CODE	DESCRIPTION
5065	DLSN-5	Duct Lock Sealant- 5 Gallon Pail

## SUGGESTED SPECIFICATIONS

All longitudinal Pittsburg Locks of metal duct shall be sealed according to SMACNA Duct Construction Standard Section 1.6 and 1.7. Sealer shall be Butyl Rubber Based conforming to federal specification TT-S-001657 TYPE 1. Sealer shall be DLSN as manufactured by Duro Dyne Corporation.

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Duro Dyne Canada, Lachine, Quebec, Canada	514-422-9760	Fax:	514-636-0328
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# **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.

Table 1-1 Standard Duct Sealing Requirements					
Seal Class	Sealing Requirements	Applicable Static Pressure Construction Class			
А	Class A: All Transverse joints, longitudi- nal seams, and duct wall penetrations	4 in. wg and up (1000 Pa)			
В	Class B: All Transverse joints and longi- tudinal seams only	3 in. wg (750 Pa)			
С	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 vig (125 Pa) construction along that is unstream of the VAV bayes shall most					

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

Seal Class C

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