



## **SAMPLE SPECIFICATION DOUBLE WALL POSITIVE PRESSURE FasNSeal® Vent**

### **PART 1 GENERAL**

#### **1.1 SCOPE**

- A. The provisions of Section \_\_\_\_\_, Mechanical General Specifications apply to all work in this Section
- B. This Section includes all specifications relating to the furnishing and installing of Double Wall Positive Pressure Vent Systems.

#### **1.2 SUBMITTALS**

Submit the following items in accordance with Section \_\_\_\_\_:

- A. Catalog Cuts/Diagrams/Descriptions
- B. Sizing calculations
- C. Installation instructions
- D. Installation drawings
- E. Copy of product warranties

#### **1.3 CODES AND APPLICABLE STANDARDS**

All products furnished under this Section shall conform to the requirements of The National Fuel Gas Code, ANSI Z223.1/NFPA-54 where applicable and shall comply with and be listed to UL 1738, the U.S. Standard for Venting Systems for Gas-Burning Appliances, Category II, III, and IV and ULC-S636-95, the Canadian Standard for Type BH gas vent systems. Components coming in direct contact with products of combustion shall carry the appropriate UL or cUL labels.

#### **1.4 WARRANTIES**

The manufacturer shall warrant the Positive Pressure Vent System against defects in material and workmanship for a period of 15 years from the date of the original installation. Any portion of the vent repaired or replaced under the warranty shall be warranted for the remainder of the original warranty period.

### **PART 2 PRODUCTS**

#### **2.1 POSITIVE PRESSURE VENT**

- A. The vent shall be of the double wall, factory-built type, designed for use in conjunction with Category II, III, or IV condensing or non-condensing gas fired appliances or as specified by the heating equipment manufacturer.
- B. Maximum continuous flue gas temperature shall not exceed 550 degrees F (288 degrees C).
- C. Vent shall be listed for a maximum positive pressure rating of 6" w.c. and shall have passed at 15" w.c.

- D. The vent system shall be continuous from the appliance's flue outlet to the vent termination outside the building. All systems components shall be UL/cUL listed and supplied by the same manufacturer.
- E. The vent shall be constructed with an inner and outer tube, where the annular air space between the tubes is 0.5 inches.

The inner tube (flue gas conduit) shall be constructed from AL29-4C ® or UNS S44735 stainless steel, with a min. wall thickness of .016" for 3" through 7"dia. vents, .019" for 8" through 12"dia. vents and .024" for 14" and 16"dia. vents.

The outer tube (jacket) shall be constructed from 304 or 430 stainless steel, with a min. wall thickness of 0.16" for 3" through 6"dia. vents and 0.24" for 7" through 16"dia. vents.

- F. All systems components such as vent supports, roof or wall penetrations, terminations, appliance connectors and drain fittings required to install the vent system shall be UL listed and provided by the vent manufacturer.
- G. All systems components shall include a factory- installed gasket in their female-end to render the vent air and water tight when the male/female ends are pushed together as per manufacturers instructions. Vent systems requiring field installed sealants or compounds shall not be acceptable.
- H. All systems components shall include a factory installed, internal mechanical locking band for fastening and securing all vent components against each other.
- I. Vent layout shall be designed and installed in compliance with manufacturers installation instructions and all applicable local codes.

## 2.2 AVAILABLE MANUFACTURERS

Vent shall be FasNSeal®W2 manufactured by ProTech Systems, Inc.

## **PART 3 EXECUTION**

### 3.01 VENT SYSTEM LAYOUT

- A. The vent system shall be routed to maintain minimum clearance to combustibles as specified by the manufacturer.
- B. Vent Installation shall conform to the manufacturer's installation instructions, its UL listing and state/local codes
- C. The vent system and breechings shall be inspected and cleaned before the final connection to the appliances.

### 3.02 MECHANICAL EQUIPMENT

- A. If dampers or fans are installed in conjunction with the vent system, such equipment shall be supported independently from the vent system. Protect vent system from twisting or movement due to fan torque or vibration.