



SAMPLE SPECIFICATION PRESSURE SINGLE-WALL CHIMNEY MODEL PSW

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 specification for furnishing and installing pressure single-wall chimney.

1.2 SUBMITTALS

Submit the following in accordance with Section _____.

- A. Catalog cuts
- B. Sizing calculations
- C. Installation drawings
- D. Installation instructions
- E. Sample of extended warranty

1.3 QUALITY ASSURANCE

A. APPLICABLE STANDARDS

All products furnished under the section shall conform to the requirements of NFPA-211.

B. WARRANTY

The pressure single-wall pipe shall be warranted by the manufacturer against defects in material and workmanship for a period of twelve (12) years from the date of the original installation. Any portion of the chimney repaired or replaced under warranty shall be warranted for the remainder of the original warranty period.

2.1 PRESSURE SINGLE-WALL CHIMNEY

- A. The pipe shall be of the single-wall, factory-built type for use with gaseous, liquid or solid fuels, as described in NFPA-211, which produce flue gases exhausted at a temperature not exceeding 1400°F continuously or 1800°F intermittently.
- B. Pipe shall be designed and tested for 60 inches w.g. internal static pressure.
- C. The pipe wall shall be constructed of .035 inch thick Type 304 stainless steel,

for diameters 6" through 36" and .048 thickness for diameters 38" through 48".

Optional: The pipe wall shall be constructed of .035 inch thick Type 316 stainless steel, for diameters 6" through 36" and .048 thickness for diameters 38" through 48".

- D. When used as an appliance breeching or connector, the pipe shall be installed so as to maintain a minimum clearance to combustibles of eighteen inches. When used to re-line masonry or concrete chimneys, clearance shall be as required for installation.

NOTE: If appliance is to be fired with No. 4 to No. 6 oil or coal, pipe wall must be Type 316 stainless steel.

- E. All supports, drains, cap, appliance adapters, fittings and expansion joints required to install the chimney shall be included.
- F. Pressure single-wall pipe shall not be used to penetrate a combustible roof, unless used to re-line a masonry or concrete chimney, which penetrates the roof.
- G. All pipe joints shall be held together by means of formed vee bands and sealed with PO77 Silicone Sealant for flue gas temperatures up to 600° F, or P071 High Temperature Sealant for flue gas temperatures over 600°F.

Nuts for the inner and outer bands shall be retained by means of a free-floating cage to allow easy alignment.

Screws shall be of the hex head type with shoulder stops and tapered "lead-in" threads for easy starting.

2.2 AVAILABLE MANUFACTURERS

Pressure single-wall pipe shall be manufactured by Metal-Fab, Inc.

PART 3 EXECUTION

- A. Store delivered materials inside, out of the weather. Protect materials from accidental damage or vandalism.
- B. Installation shall conform to the manufacturer's installation instructions, UL listing and state or local codes.
- C. Support chimney from building structure using rigid structural shapes for

attachment of fixed point supports (Plate Support Assembly). Anchor supports to structure by welding, bolting, steel expansion anchors, or concrete inserts. Size of structural shapes shall be in accordance with manufacturer's recommendations.

- D. Coordinate installation of dampers or fans. Dampers or fans shall be supported independently from the chimney sections. Protect chimney from twist or movement due to fan torque or vibration.
- E. Protect incomplete chimney installations by attaching temporary closures over open ends of sections.
- F. Clean all chimneys and breechings of dust and debris prior to final connection to appliances.