

SECTION 235100 - BREECHING, CHIMNEYS, AND STACKS

PART 1-GENERAL

1.1 SECTION INCLUDES

- A. Venting for fuel burning equipment.

1.2 SUBMITTALS

- A. Submit shop drawing and product data per applicable Division I Specifications
- B. Shop drawings shall include product data noting materials, sizes, and dimensions. Detailed shop drawings denoting layouts, specific to project for each vent is required.

1.3 QUALITY ASSURANCE

- A. Products and installation shall be in accordance with NFPA 211 and UL listed.
- B. Each vent section/fitting shall be labeled for UL compliance.
- C. Installation shall be in conformance with OBC.

1.4 WARRANTY

- A. Contractor shall warranty entire systems and equipment for a period of one (1) year.

PART 2-PRODUCTS

2.1 MANUFACTURES

- A. Selkirk Commercial
- B. Metalfab
- C. Heat-Fab
- D. DuraVent

2.2 COMPONENTS FOR LISTED SPECIAL GAS VENTS (LSGV's)

- A. Description: Double-wall metal vents tested according to UL 1738 and rated for 480 deg F continuously, for Category II and IV appliances, suitable for use with properly rated and manifolded appliances. complying with NFPA 211.
- B. Construction: Inner shell and outer jacket separated by at least a 1/2-inch airspace.
- C. Inner Shell: ASTM A 959, Type AL29-4C stainless steel.
- D. Outer Jacket: Stainless steel.
- E. Inner Pipe Size: See drawings for inner pipe size.

- F. Accessories: Angled inlet tees, elbows, increasers, draft-hood connectors, terminations, adjustable roof flashings, storm collars, support assemblies, thimbles, firestop spacers, and fasteners; fabricated from similar materials and designs as vent-pipe straight sections; all listed for same assembly.
- G. Termination: Stack cap designed to exclude minimum 90 percent of rainfall.
- H. Termination: Round chimney top designed to exclude minimum 98 percent of rainfall.
- I. Termination: Exit cone with drain section incorporated into riser.

2.3 COMPONENTS- TYPE B GAS VENTS

- A. Round double wall, with aluminized steel inner pipe galvanized steel outer pipe.
- B. Furnished with manufacturer's fittings.

PART 3-EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install in accordance with NFPA 54 (ANSI Z223.1).
- C. Install with minimum of joints. Align accurately at connections, with internal surfaces smooth.
- D. Pitch with positive slope up from fuel-fired equipment to chimney or stack.
- E. For all gas vents, maintain UL listed minimum clearances from combustibles. Assemble pipe and accessories as required for complete installation.
- F. Level and plumb chimney and stacks.
- G. Clean breechings, chimneys, and stacks during installation, removing dust and debris.
- H. At appliances, provide slip joints.
- I. Each flue shall be supported from the building structure, not from or on the equipment.
- J. All roof flashing shall be the responsibility of the General Contractor.

3.2 SCHEDULES

EQUIPMENT

Boiler
Water Heaters

VENT SYSTEM

Refer to boiler specification section
Type B

END OF SECTION 235100