

SECTION 23 51 23 - GAS VENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Gas vents.

1.2 SUBMITTALS

A. Product Data: For the following:

1. Gas vents.

B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.

PART 2 - PRODUCTS

2.1 GAS VENTS

A. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:

1. Heat-Fab, Inc.
2. M & G DuraVent.
3. Metal-Fab, Inc.
4. Selkirk Inc.; Selkirk Metalbestos and Air Mate.

B. Description: Double-wall metal vents tested according to UL 441 and rated for 480 deg F (248 deg C) continuously for Type B, with neutral or negative flue pressure complying with NFPA 211.

C. Construction: Inner shell and outer jacket separated by at least a 1/2-inch (13-mm) airspace.

D. Inner Shell: ASTM B 209 (ASTM B 209M), Type 1100 aluminum, ASTM B 209 (ASTM B 209M), Type 3003 aluminum, or ASTM B 209 (ASTM B 209M), Type 3105 aluminum.

E. Outer Jacket: Galvanized steel.

F. Accessories: 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.

1. Termination: Round chimney top designed to exclude minimum 98 percent of rainfall.

PART 3 - EXECUTION

3.1 APPLICATION

- A. Listed Special Gas Vents: Condensing gas appliances.

3.2 INSTALLATION OF LISTED VENTS AND CHIMNEYS

- A. Locate to comply with minimum clearances from combustibles and minimum termination heights according to product listing or NFPA 211, whichever is most stringent.
- B. Seal between sections of positive-pressure vents and grease exhaust ducts according to manufacturer's written installation instructions, using sealants recommended by manufacturer.
- C. Support vents at intervals recommended by manufacturer to support weight of vents and all accessories, without exceeding appliance loading.
- D. Slope breechings down in direction of appliance, with condensate drain connection at lowest point piped to nearest drain.
- E. Lap joints in direction of flow.
- F. After completing system installation, including outlet fittings and devices, inspect exposed finish. Remove burrs, dirt, and construction debris and repair damaged finishes.
- G. Clean breechings internally, during and after installation, to remove dust and debris. Clean external surfaces to remove welding slag and mill film. Grind welds smooth and apply touchup finish to match factory or shop finish.
- H. Provide temporary closures at ends of breechings, chimneys, and stacks that are not completed or connected to equipment.
- I. Provide roof penetration as required and repair roof in accordance with roof manufacturer's instructions so as to not void warranty.

3.3 CONNECTIONS

- A. General: Install vents to mechanical equipment and food preparation equipment requiring vents, including equipment supplied by Owner and equipment supplied and installed by Owner.

END OF SECTION 23 51 23