

PART 1 – BREECHING, CHIMNEY & STACK**1.1 SCOPE: DOUBLE WALL GAS VENT FOR CATEGORIZED APPLIANCES**

- A. Manufacturer shall provide a factory-built, double-wall, modular, vent system for gas fired appliances. Such system shall be tested and listed by Underwriters Laboratories Inc. (UL) for use on Category I, II, III, and IV Appliances, appliances approved for Type B Gas Vent, and use as a Chimney for building heating equipment and appliances as required by NFPA-54, NFPA-31, and NFPA-211. The vent system shall be listed in accordance with:
- a. UL 1738 Standard for Venting Systems for Gas-Burning Appliances, Categories II, III, and IV, with operating flue gas exhaust temperatures up to 550°F continuous, and/or 480°F continuous.
 - b. UL 441 Standard for Gas Vents, for Category I appliances listed for use with Type B Gas Vent, with operating flue gas exhaust temperatures up to 480°F continuous.

1.2 CONSTRUCTION

- A. The double wall air insulated exhaust system shall be constructed of all-stainless steel. The materials and construction of modular sections and accessories shall be as specified by the terms of the product's UL listing.
- a. UL 1738 Listing approved Type 444, 316L, or AL29-4C stainless steel inner liner.
 - b. Minimum 1" insulating air space.
 - c. Type 304 stainless steel outer jacket.
 - d. The entire exhaust system, including all accessories (connectors, hardware, anchor plate supports, guides, drains, and terminals), shall be Type 304 stainless steel.
- B. Inner flue shall have an overlapping male/female socket that protects the gasket and/or sealant against condensate contamination. All pipe joints shall be secured with mechanical tightening bands.
- C. Exhaust system shall be designed to compensate for all temperature induced thermal expansion, installed to be gastight, and thus prevent leakage of combustion products into a building.
- D. Exhaust system is based upon Jeremias Model DWGV. Detailed manufacturer's submittal drawings shall be provided for approval prior to installation of the exhaust system.

PART 2 – EXECUTION**2.1 INSTALLATION**

- A. Roof and wall penetrations shall be factory insulated and UL listed as not to require air ventilation for safe installation around combustibles.

- B. Entire exhaust system from the appliance outlet to the termination point, including accessories shall be from one manufacturer, except where noted.

PART 3 – WARRANTY

3.1 WARRANTY

- A. The factory-built modular exhaust system shall be warranted against functional failure for Twenty-Five (25) years.
- B. Manufacturer shall provide ASHRAE flue sizing calculations, or certificate of vent equivalent feet, confirming the inner diameter is in complete compliance with appliance manufacturer’s installation instructions.
- C. Manufacturer shall provide certificate of code compliance for all required local and national codes for the installation with the scheduled appliances.