

PART 1 – BREECHING, CHIMNEY & STACK**1.1 SCOPE: DOUBLE WALL GAS VENT FOR ZERO CLEARANCE AND FIRE RATED ENCLOSURE**

- A. Provide factory-built modular venting system that is tested and listed by the Underwriters' Laboratories, Inc. for use Category I, II, III, & IV gas burning or Type L oil burning appliances as described in NFPA-54, NFPA-92 and NFPA-211. UL Listings shall include:
- 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 appliances listed for use with Type B Gas Vent, otherwise known as Category I, with operating flue gas exhaust temperatures up to 480°F continuous.
 - c. UL 641 Standard for Type L Low-Temperature Venting Systems, suitable for use with appliances approved for use with Type L Venting Systems, with operating flue gas exhaust temperatures up to 570°F continuous.
 - d. UL 2221 insulated duct with zero clearance to combustible, a 2-hour fire rating, and use of factory fire stops at necessary floor/wall penetrations.

1.2 CONSTRUCTION

- A. The double wall fiber insulated venting 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. Type 444 stainless steel inner liner.
 - b. 3.25" minimum thick fiber insulation.
 - c. Type 304 BA 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 rolled flange with sealant against condensate and high-pressure cleaning. The joints shall be secured with overlapping vee band on the inner and overlapping locking band on the outer jacket.
- C. Venting system shall be designed and installed to be liquid tight and thus prevent leakage of flue gases and condensation into a building.
- D. Venting system is based upon Jeremias Model DWFL-ZC. Detailed manufacturer's submittal drawings shall be provided for approval prior to installation of the exhaust system.

PART 2 – EXECUTION**2.1 INSTALLATION**

- A. Inner pipe joints shall be sealed by use of factory supplied overlapping vee bands (protected by an overlapping inner extension) and sealant as specified in the manufacturer's installation instructions.
- B. Roof and wall penetrations shall be factory insulated and UL listed as not to require air ventilation for safe installation around combustible materials.
- C. Entire venting 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.