

BREECHINGS, CHIMNEYS, AND STACKS

DESIGN GUIDELINES

1. General

- a. Stacks should be shown on the drawings using the standard fittings and pieces cataloged from the manufacturer. Stacks shall be drawn double line with joint lines drawn for each fitting or component.
- b. Locate stack discharge such that the discharge is not drawn into fresh air intakes for the building or adjacent buildings. Prevailing winds and obstructions shall be considered.
- c. Individual boiler flues are preferred. The designer shall pay close attention to flue layout and flue calculations.
- d. Flue draft fans are not acceptable.
- e. Coordinate with Architect to:
 - Maintain the required clearance to combustible materials.
 - Maintain the required space to support the vertical stack in the chase using the cataloged supports.
 - Conceal stacks.

2. Specifications

- a. Specify that the vendor provide flue calculations with shop drawing submittal.

EQUIPMENT and PRODUCT REQUIREMENTS

1. Manufacturers:

- a. B Vent and Positive Pressure
 - AMPCO
 - Metalbestos
 - Metat-Fab
 - Schebler
 - Van-Packer
- b. Condensing
 - Heat Fab
 - ProTech Systems
 - or equivalent.

2. B-VENT

- a. B Vent shall be double wall type.

- b. The vent shall have an inner wall constructed of a minimum of .01B" thick aluminum alloy.
The outer wall shall be a minimum of .020" of G 90 galvanized steel.
- 3. Positive Pressure
 - a. The double wall stack shall have an outer jacket of a minimum of .025" thick aluminum coated steel.
 - b. The Inner gas carrying pipe shall be a minimum of .035" thick type 316 stainless steel.
 - c. The engineer shall determine the required insulation value based on the application and what is adjacent to the stack.
- 4. Condensing
 - a. Flue shall have AL29 4C stainless steel wall.

END OF SECTION