



**TYPE "B" GAS VENT**  
**SD (sizes 3", 4", 5", 6", 7")**



## **INSTALLATION INSTRUCTIONS**

Type "B" Gas Vents are strictly for interior or enclosed exterior use or exterior use above a roof line.

Read vent and appliance instructions carefully before starting installation. Failure to comply with instructions will void vent certification.

B vent is designed for venting approved gas appliances certified with draft hoods or diverters producing nominal flue gas temperatures of 135°C and not exceeding 245°C (470°F).

Do not connect gas vent to a solid or liquid fuelled appliance or any appliance requiring a chimney.

Minimum clearance between the vent and combustible materials is 1". Gas vents which extend through any story above that on which the connected appliance is located are to be provided with enclosures having a fire resistance rating equal to or greater than that of the floor or roof assemblies through which they pass.

Framing dimensions of enclosures and at joist or rafter levels shall be a minimum of 2" larger than the outside of the vent.

Near the vent base, post a notice of the vent's type and it's limitation to vent gas appliances only, and a reminder to homeowners to check the rain cap for icing during low ambient temperatures.

Connection of the vent to the appliance(s) shall be in accordance with applicable gas utilization codes, and the inspection authority.

B-Vent may be used in retrofit B-Vent to B-Vent chimney applications when all approved type "B" gas vents are listed with ULC/UL/c-UL.

**CAUTION:** Listed rain caps incorporating bird screens are necessary and/or required in some areas but may be susceptible to blockage through freezing moisture in areas of low ambient temperatures. Consult authority having jurisdiction.

## **PLANNING**

Check that the diameter and height of the vent is suitable for the appliance(s) as determined in standard gas venting tables and/or applicable local/regional codes.

A vent passing through a pitched roof shall extend above the highest point where it passes through a roof surface in accordance with the following table and not less than 2 ft above any other obstruction within a horizontal distance of 10 ft. This termination height is measured to the lowest opening in the rain cap.

Roof Pitch	Min. Termination height above roof line (inches)
Flat to 9/12	24
9/12 to 10/12	32
10/12 to 11/12	39
11/12 to 12/12	46
12/12 to 14/12	60
14/12 to 16/12	75
16/12 to 18/12	90

Locate the gas vent so as to avoid cutting joists, rafters, or other load bearing structural members. Also, route around plumbing and electrical lines. Locate the base of the gas vent close to the appliance.

### INTERIOR INSTALLATION PROCEDURE:

#### Support Assembly

1) The support assembly will safely support up to 60' of vent. If the vent exceeds this height, use additional support assemblies at intervals of 60'.

2) Frame a four sided hole in the floor with dimensions 2" larger than the vent's outer diameter. Place the support assembly on the upper side of the hole with the spacers fitting inside the hole (spacers ensure proper clearance to combustibles) and support band on top.

3) Nail the support assembly to the floor with three 3" nails on each side.

4) Lower the first vent section (male end up) through the support's band and clamp the band to hold the vent at the desired height. Additionally, secure the band to the vent's casing with four #8 x 3/8" long sheet metal screws.

#### Assemble Vent Sections

1) Install additional lengths of vent above the first.

2) Fit the female end over the male collar and fasten it with a clockwise twist.

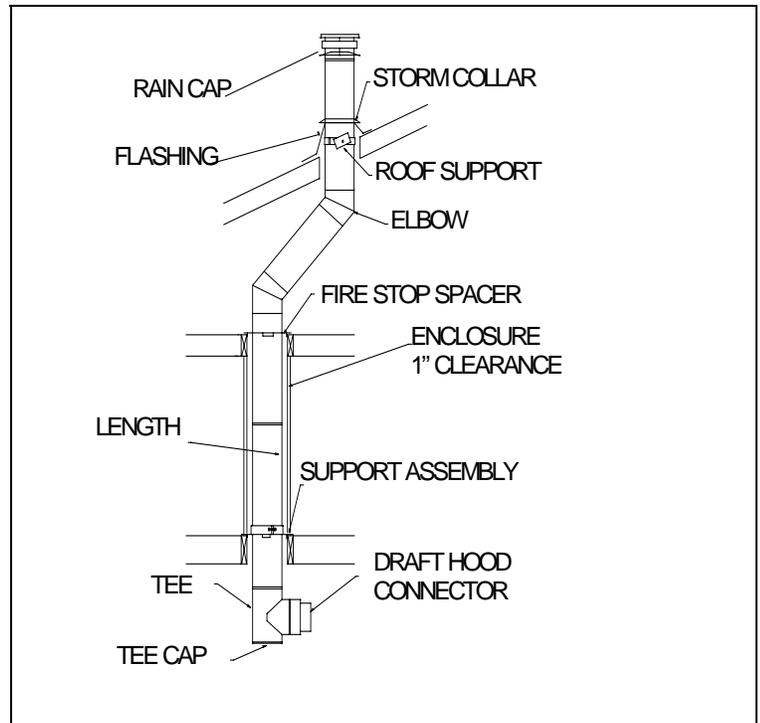
3) Adjustable lengths telescope over a regular length and are secured by tightening the clamp.

#### Firestop Spacers

1) Where the vent passes through a floor or ceiling a firestop is necessary. The firestop may be installed at either the top or bottom side of the joist.

2) Place the firestop spacer around the vent with the spacer brackets towards the framed hole.

3) Push the firestop flat to the joist and fasten it to the framing with four nails.



4) At the level where the vent penetrates the air/vapour barrier, special attention is required. Seal the vapour barrier to the firestop or ceiling support assembly using an appropriate caulking compound.

### Offsets

1) Offset vents must be re-supported above the second elbow with an Interior offset Support or roof support. A roof support's band is clamped around the vent and screwed to the casing with four #8 x 3/8" screws. It's brackets are adjusted to the roof pitch and are screwed to the roof with #8 x 1 1/2" screws or 1 1/2" spiral nails. **Utilise all 18 (9 per side) screw/nail locations.** The roof support will safely support 30 ft of vent. The Interior offset support band is clamped around the vent and screwed to the vent casing. The straps are then nailed to the joists.

### Roof Assembly

1) With the vent protruding through the roof, slide the flashing down the vent until it's base sits on the roof.

2) Place upper side of the base under the shingles and lower side over shingles. Nail flashing to the roof with roofing nails.

3) Slide a storm collar down to the flashing top and seal it with silicone.

4) Top off the vent with a rain cap. The rain cap fits on the vent male collar and fastens with a clockwise twist.

5) If the vent terminates higher than 6 feet above the roof line, it requires additional support from guy wires or roof brace poles.

### Through the Wall Installation Procedure:

**Note:** Follow chase enclosure requirements as per local codes.

### Wall Penetration

1) Cut a hole in the wall where the vent is to pass through. Frame the hole square dimensions 2" larger than the outside diameter of the vent.

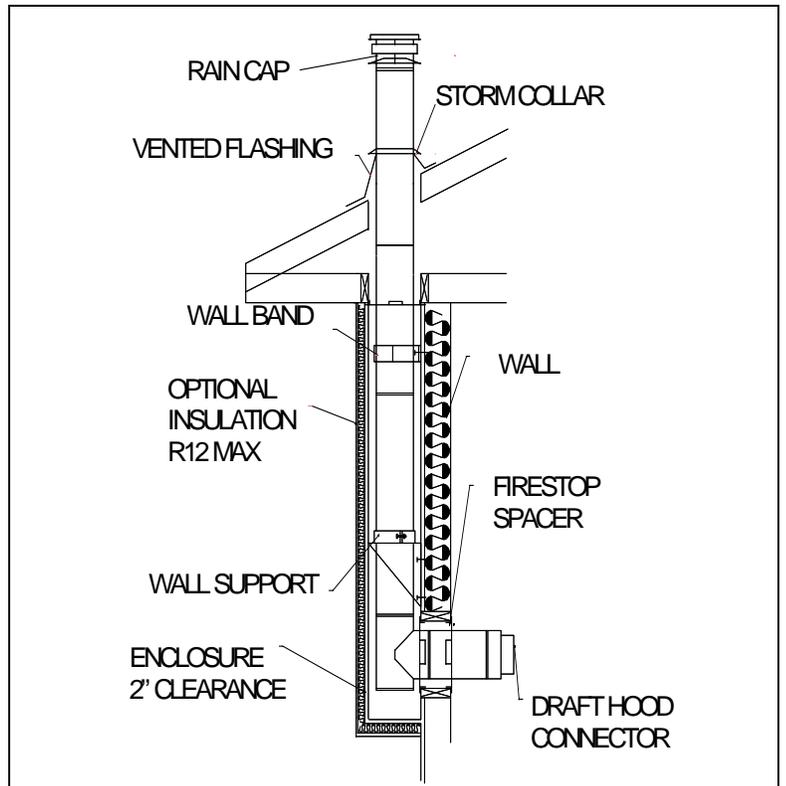
2) Install fire stop spacers on both the inside and outside of the opening. Fasten them with a minimum of 1" nails at each corner.

3) Place a length of vent through the fire stop spacers.

4) From outside the building, connect a 90 degree elbow or a tee to the horizontal vent section.

### Support

1) Assemble the support and bolt it to the wall with 4 two inch long wall anchors appropriate for the wall material.



- 2) Lower a length of vent through the support and twist lock it to the elbow/tee.
- 3) Tighten the support's clamp band and further secure the vent with four #8 x 3/8" sheet metal screws through the clamp and into the vent case.
- 4) Continue up with additional vent lengths as necessary.
- 5) If desired, vent sections may be secured additionally by #8 x 3/8" screws at the collars. Screws must not penetrate the vent's inner liner.
- 6) Install wall bands at least every 6' of vent rise.
- 7) The support will safely hold 40' of vent. If the vent is more than 40' tall, install additional supports at intervals not exceeding 40'.

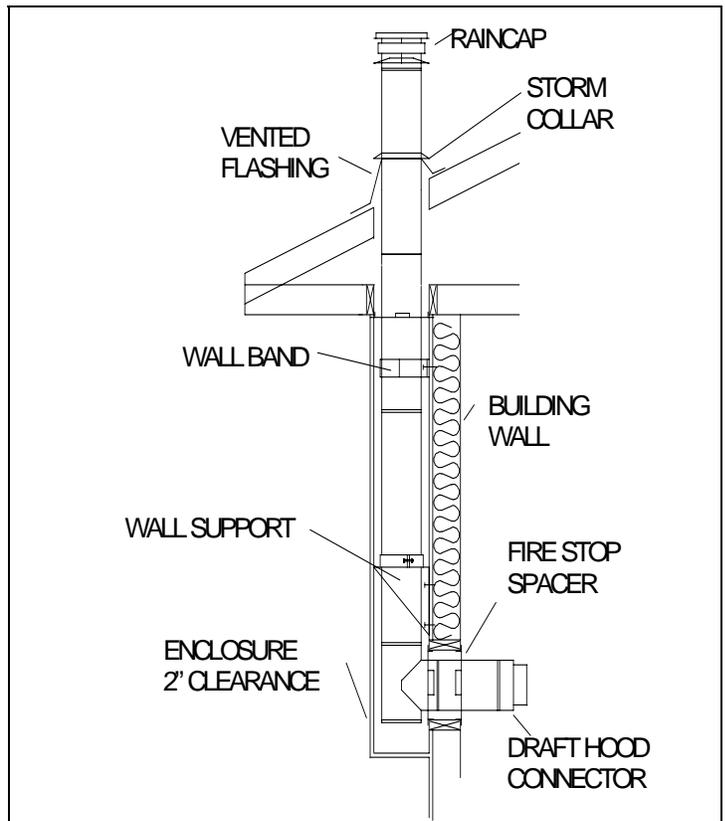
### Enclosure

Venting should be installed within the heated portion of the structure whenever possible. If an exterior location is necessary, enclose exposed portions (especially in cold climates) to reduce heat loss which may in turn lead to poor draft and/or condensation/icing problems.

- 1) The B Vent must be enclosed by a chase at least to the roof line.
- 2) At the minimum, enclosure must consist of a 28 gauge sheet metal box spaced out 2" from the vent. The chase should be caulked to prevent entry of moisture. It is also recommended that the chase be insulated up to a maximum of R-12 (RSI 2.1). Exposed insulation shall be of rigid type.
- 4) The bottom of the enclosure must be closed off.

### Roof Assembly

- 1) A vented flashing must be used atop a vent chase. Do not seal the openings in this flashing.
- 2) If the vent extends through an eave, slide the flashing down the vent until its base sits on the roof.
- 3) Place upper side of the base under the shingles and lower side over shingles. Nail flashing to the roof with roofing nails. Seal around the flashing base with appropriate roofing mastic.
- 4) Slide a storm collar down to the flashing top.
- 5) Top off the vent with a rain cap. It fits on the vent male collar and fastens with a clockwise twist.
- 6) If the vent terminates higher than 6 feet above the roof line, it requires additional support from guy wires or roof brace poles.



## Retrofit Applications

When retrofitting TO another ULC/UL listed B-Vent use BV-UAF (Universal Adaptor Female) for ½” walls and BV-UAFQ (Universal Adaptor Female Quarter) for ¼” walls.

When retrofitting FROM another ULC/UL listed B-Vent use BV-UAM (Universal Adaptor Male) for ½” walls and BV-UAMQ (Universal Adaptor Male Quarter) for ¼” walls.

Slide universal adaptor over existing vent as far as it will go ensuring flue gas directional arrow on the ULC/UL label matches flue gas direction. Tighten bracket securely.

For ½” walls, install 3 #8 x 3/8” sheet metal screws through both outer casings to ensure there is no slippage.

For ¼” walls, install 3 #6 x 1/4” sheet metal screws through both outer casings to ensure there is no slippage. Avoid over tightening or touching liner.

For retrofits above a roof line silicone all exposed seams / joints using silicone with a temperature rating of 150° C (300° F) or more.

The LISTING MARK on the product is the only evidence provided by Underwriters Laboratories Inc. to identify products which have been produced under their Factory Inspection and Follow-Up program.

Manufactured by: **Selkirk Corp.**  
33828 Sutton Rd  
PO Box 631,  
Logan, OH 43138

**Selkirk Corp.**  
P. O. Box 526, Depot 1  
Hamilton, ON L8L 7X6  
Tel: (888) SELKIRK (735-5475)