



Selkirk gas vent parts listed and produced under the Factory Inspection and Follow-up program of Underwriters' Laboratories, Inc. carry the LISTING MARK illustrated here.



**CAUTION: WEAR GLOVES WHILE HANDLING METAL PARTS TO AVOID PERSONAL INJURY, SHARP EDGES OR PROJECTIONS CAN CUT.**



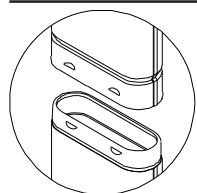
### WARNING

Failure to follow the installation instructions could cause **FIRE, CARBON MONOXIDE POISONING, OR DEATH**. If you are unsure of installation requirements, call the Phone Number listed on the instructions or visit [www.selkirkcorp.com](http://www.selkirkcorp.com).

These instructions describe installation of the following catalog designations and sizes of selkirk Oval Gas Vent Pipe and allied parts for specified gas appliances producing flue gas temperatures not in excess of 470°F (245°C).

### OVAL GAS VENT OPTIONS

Type	Size	Minimum Airspace Clearance to Combustibles
BW	4	As created by centering in 2x4 (50mmx100mm) stud walls
B	4,5	1" (25.4mm) or as centered in 2x4 (50mmx100mm) stud walls
B	6	1" (25.4mm) or as centered in 2x6 (50mmx100mm) stud walls



#### JOINING OVAL FITTINGS

Fig 1 - To Join, push upper section down onto lower section until "Fastloc" tabs are engaged.

All joints in Selkirk gas vents must be securely joined together using the appropriate method. Draft hood connectors, where required must be screwed to the appliance outlet.

Single wall connectors, if used, must be secured to the appliance, to the gas vent, and at all joints with 3 sheet metal screws per joint.

### TYPES OF APPLIANCES

Type B Gas Vents are for venting of Listed gas (LP or natural) gas-burning appliances equipped with draft hoods, and other Listed gas appliances specified for use with Type B gas vents. These appliances include (but are not limited to) the following types: furnaces, boilers, water heaters, room heaters, unit heaters, duct furnaces, floor furnaces, and decorative appliances. **DO NOT USE** Type B gas vent for wall furnaces "Listed" for use with Type B gas vents only, incinerators and appliances Listed for use with chimneys only, combination gas-oil burning appliances, and appliances which may be converted readily to the use of solid or liquid fuels. **NO NOT USE** Type B gas vent for Category II, III, IV appliances or for any gas-burning appliance which requires either a pressure-tight or liquid-tight venting system. Gas vents are to be installed and used in accordance with applicable National, Regional, State, and/or local codes. Check with local authority having jurisdiction for code requirements in your area. [Ex. -CAN/CGA B149 (Canada); ANSI Z223.1/NFPA 54-National Fuel Gas Code, International Fuel Gas Code, National Mechanical Code, Basic Mechanical Code, Standard Mechanical Code, etc. (portions of USA)]

**A NOTICE SHOULD BE POSTED** near the point where the Gas Vent is connected to the appliance, with the following wording: "Connect this Gas Vent only to gas burning appliances, as indicated in the installation instructions. Do not connect to incinerators, or liquid or solid fuel burning appliances."

### CLEARANCE AND ENCLOSURES

All Selkirk Type B Gas Vent pipe 24-inch (610mm) and less is installed with the specified **MINIMUM AIRSPACE CLEARANCE TO COMBUSTIBLES**. Oval gas vent may be installed either at 1" (25.4mm) airspace clearance to combustibles or within certain minimum stud spaces as specified in the table portion of Fig. 1. These clearances, which are marked on all gas carrying items, apply to indoor or outdoor vents whether they are open, enclosed, horizontal or vertical, or pass through floors, walls, roofs or furred-out spaces. The appropriate clearance should be observed to joists, studs, subfloors, plywood, drywall, or plaster enclosures, insulating sheathing, rafters, roofing and any other materials classed as combustible. Selkirk gas vents may be installed either in the open or fully enclosed. **NOTE:** Type B Gas Vents are recommended to be installed within the heated portion of the structure whenever possible. In order for this gas vent to vent properly, the system must be sized and installed appropriately for the application.

# Gas Vent

4, 5, 6 Oval

## INSTALLATION INSTRUCTIONS

Exterior vents in cold climate areas are not recommended as they are prone to sustaining excessive condensation of moisture which could lead to ice build-up and poor draft. Unless local code specifies otherwise, there is no need to enclose Selkirk gas vents where used as connectors under floors, in crawl spaces and basements, or in normally unoccupied or inaccessible attics. Enclosing the vertical portions of vents is recommended where they pass through rooms, closets, halls or other occupied spaces. Except for single and two-family dwellings, gas vents which extend through any story 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 assemblies through which they pass.

### AIR SUPPLY

Gas appliances must have adequate air for combustion, vent operation, and ventilation. Where infiltration is inadequate, as in tight buildings, or when appliances are in small rooms, special provisions for bringing in outdoor air are necessary. Consideration must be given to climate in choice of the air supply method. Consult local code/ authority having jurisdiction for air supply requirements in your area.

### CAPACITY

4 and 5 Type B ovals have equivalent vent capacity to 4" (100mm) and 5" (125mm) round Type B gas vents. Type B vent capacity is as indicated in section entitled "TYPE B GAS VENTS, SINGLE AND MULTI-STORY".

### OVAL FITTINGS

Selkirk manufactures a complete line of fittings for the oval gas vent systems, including round to oval and oval to round transitions, oval elbows, tees, firestops, flashings, storm collars and rain caps, making it possible to install a complete oval system or a combination round and oval system.

### TERMINATION

Selkirk oval gas vents may be terminated in two ways. 4 oval may be terminated with an oval top with Fastloc slot for direct attachment to the top section of oval vent. 4, 5, and 6 oval may also be terminated by using an oval to round transition, optional section(s) of round vent and a 4,5 or 6 (respectively) Selkirk Round Top.

### ADDITIONAL INSTRUCTIONS

The following instructions are for installing oval gas vent within walls. For further detailed instructions relative to installation of Selkirk Oval and Round gas vent systems (including considerations on air supply, gas vent height, flashings, vent terminations, top installations, checking vent operation and painting), refer to the installation instructions supplied with the termination cap. These considerations apply to round, oval and combination round/ oval vent system installations. **NOTE:** Approval of this gas vent system is based upon the use of parts supplied by Selkirk. The performance of the assembly may be affected if the combination of these parts is not used in actual building construction.

### 5 OVAL AND 6 OVAL GAS VENTS

Installation of 5 Oval and 6 Oval Selkirk Gas Vents is Type B only (similar to round). When used inside a wall, the studs must be 4-inch (100mm) nominal width (actual dimension 3-1/2" (89mm)) for 5 Oval and 6 inch (150mm) nominal width (actual dimension 5-1/2" (140mm)) for 6 Oval, to obtain the required clearance. If not used within stud wall, minimum airspace to combustibles is 1" inch (25mm). 5 Oval and 6 Oval are not listed for Type B use on recessed wall furnaces.

The following installation methods may be used for Selkirk 4 and 5 Oval as follows:

1. Type B installation-single story-for wall furnaces (or recessed heaters) only. (4 Oval only)
2. Type B installation-multistory-for wall furnaces (or recessed heaters) only. (4 Oval only)
3. Type B in 2 x 4 (50mm x 100mm) stud walls for use with gas appliances other than wall furnace such as water heaters, boilers, furnaces, room heaters, etc. or any other gas appliances which can use Type B venting. (4 and 5 Oval)
4. Type B at one inch clearance to combustibles for use with any gas appliance which can use Type B venting. (same appliances as Method 3) (4 and 5 Oval).

# Installation of 4 Oval as Type B and 4,5,and 6 Oval as Type B Gas Vents

## TYPE B GAS VENTS, SINGLE AND MULTI-STORY

(Methods 1 and 2) (applies to 4 Oval only)

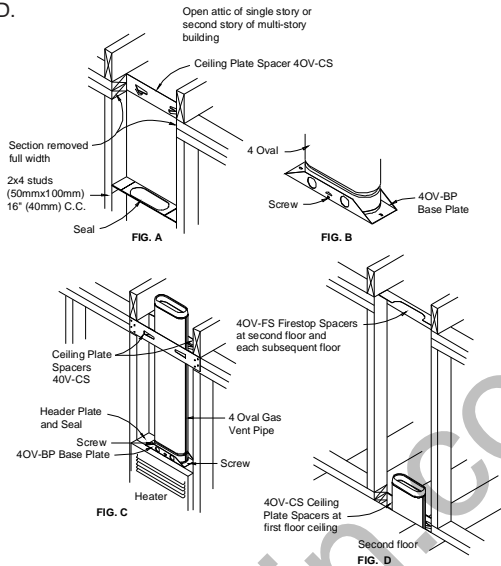
Maximum input to a vented wall furnace is 85,000 BTU/Hr (24.91kw) for single story and 65,000 BTU/Hr (19.05kw) for multi-story installations.

Single story TYPE B gas vents using Selkirk require No. 4OV-BP Base Plate and the No. 4OV-CS CEILING PLATE SPACERS. Multi-story TYPE B gas vent require the No. 4OV-BP BASE PLATE, the No. 4OV-CS CEILING PLATE SPACERS at the first ceiling, and the No. 4OV-FS FIRESTOP SPACERS at each successive ceiling level. Stud space around vent must be free of obstructions and building paper. Be sure to follow the heater manufacturer's instructions carefully.

1. Use a Selkirk Type B installation kit. Install the heater plate furnished with the wall furnace or recessed heater. Cut out the ceiling plate for the full distance between the two studs. Nail one ceiling plate spacer as shown. Select proper length of gas vent to extend from the heater plate to at least 6" (152.4mm) above the ceiling plate. Fig A

2. Attach base plate to vent pipe, securing with screws on each side of pipe. Fig. B  
3. Attach base plate to header plate with sheet metal screws at each end. Nail other ceiling plate spacer to ceiling plate. Adjust spacer lugs to center vent in the stud space. Continue vent system of single story installation through attic and roof using either oval or round Selkirk Type B gas vent pipe and fittings. Maintain 1" (25.4mm) clearance from combustible construction above the ceiling plate. A minimum installation height of 12" (3.66m) is required for correct venting. Fig C.

4. For multi-story building install Firestop-Spacers at each ceiling plate above the first floor. Nail one Firestop-Spacer plate as shown. Install Selkirk vent pipe in stud space to a point above ceiling plate. Nail other Firestop-Spacer to stud to close opening through wall. Install Firestop Spacers at ceiling plates of each additional floor or story. Fig D.



## TYPE B GAS VENTS IN 2x4 (50mm x 100mm) INCH STUD WALLS

(Method 3) (applies to 4 and 5 Ovals)

1. Choose stud space where vent is to be installed. Cut away floor and ceiling plates and any internal blocking to leave a clear passageway 14-1/2 inches long (368mm) by the full stud space width of 3-1/2 inches (89mm) inches. Fig E.

2. Install one Firestop Spacer at the floor level and one at the ceiling plate level, and install vent in the stud space making certain that every joint is securely locked. Locate ceiling and attic firestops so as to prevent insulation from filling space around vent. Fig F.

3. Install the remaining Firestop-Spacers to close the openings between the vent and the structure. Fig. G.

4. The vent may be continued through any number of upper floors in this manner using one pair of 4OV-FS (for 4 Oval) or 5OV-FS (for 5 Oval) Firestop-Spacers at each level.

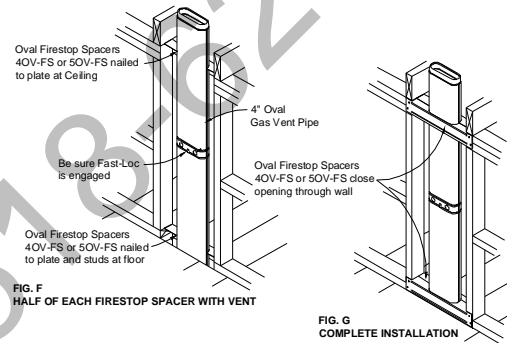
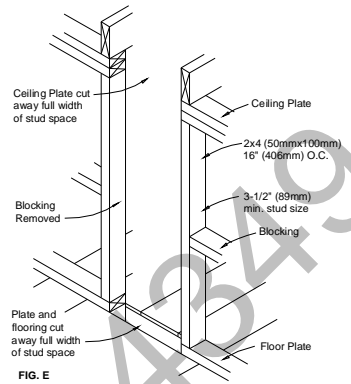
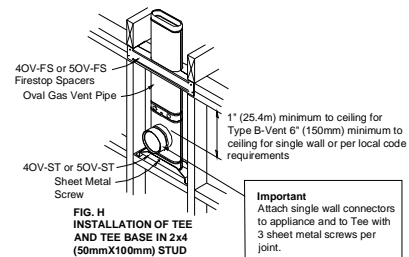


FIG. G  
COMPLETE INSTALLATION



**Important**  
Attach single wall connectors to appliance and to Tee with 3 sheet metal screws per joint.

Always apply silicone sealant to nail heads, flashing snout and storm collar. For longer installation life, all exterior metal parts should be painted.

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