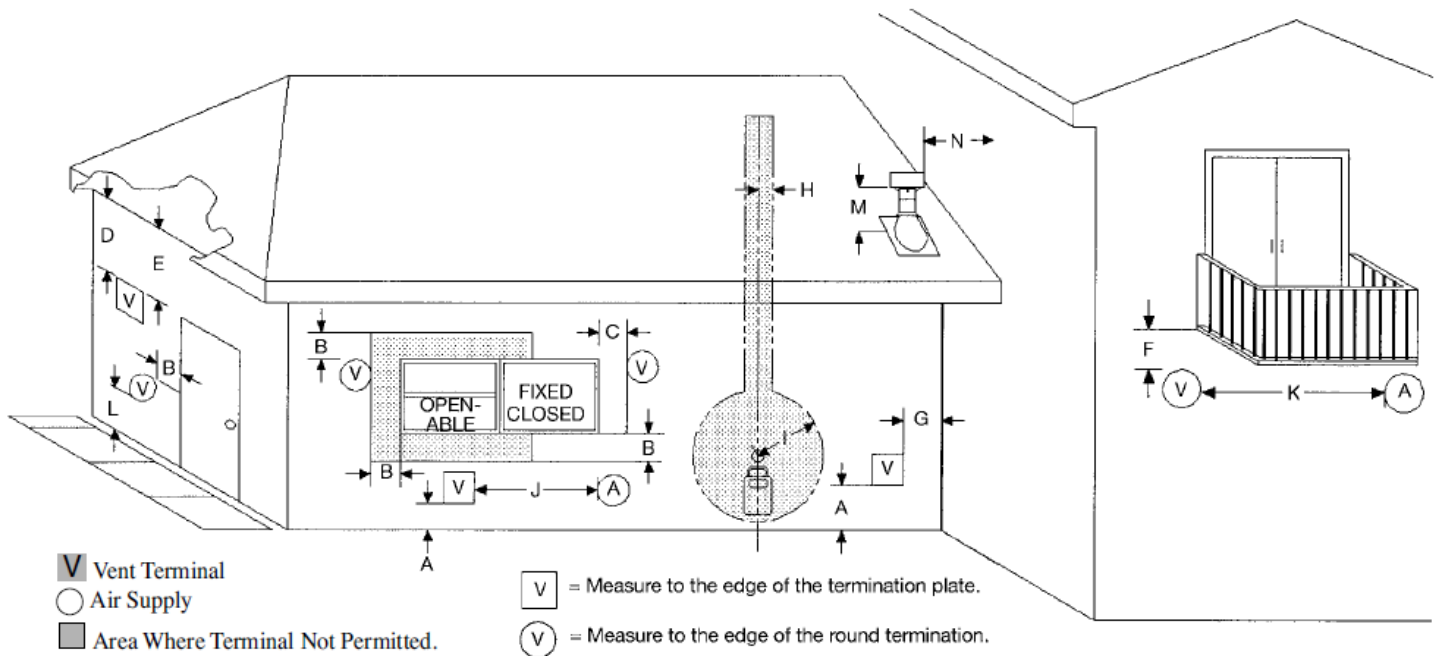


# CSA B149.1 Direct Vent Placement / Requirement for Natural Gas & Propane Appliances



- A. Clearance above grade, veranda, porch, deck, or balcony 12 inches (30cm) minimum.<sup>1,2</sup>
- B. Clearance to window or door that may be opened. 12 inches (30cm) minimum for appliances 100,000 Btuh (30 kW) and lower, in Canada, 9 inches<sup>2</sup> (23cm) for appliances 50,000 Btuh and lower, in USA.
- C. Clearance to permanently closed window minimum 12 inches (30cm) recommended to prevent condensation on window, in Canada. 9 inches<sup>2</sup> (23cm) for appliances 50,000 Btuh and lower, in USA.
- D. Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 feet (60cm) from the center line of the termination. 18 inches (46cm) minimum.<sup>5</sup>
- E. Clearance to unventilated soffit 12 inches (30cm) minimum.
- F. Clearance under veranda, porch, deck or balcony 12 inches<sup>1</sup> (30cm) minimum.<sup>4</sup> US<sup>5</sup>
- G. Clearance from a perpendicular inside wall or outer corner to the edge of the vent terminal plate is 3" (minimum).
- H. Clearance to each side of center line extended above meter/regulator assembly 3 feet (91cm) within a height 15 feet (4.5m) above the meter/regulator assembly.
- I. Clearance to service regulator vent outlet 3 feet (91cm) minimum.<sup>1</sup> US<sup>5</sup>
- J. Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance: In Canada, 6 inches (15cm) for appliances ≤10,000 Btuh (3kW), 12 inches<sup>1</sup> (30cm) minimum for appliances >10,000 Btuh (3kW) and ≤100,000 Btuh (30kW), 36 inches (91cm) for appliances >100,000 Btuh (30kW). In the USA, 6 inches<sup>2</sup> (15cm) for appliances ≤10,000 Btuh (3kW), 9 inches (23cm) for appliances >10,000 Btuh (3kW) and ≤50,000 Btuh (15kW), 12 inches (30cm) for appliances >50,000 Btuh (15kW).
- K. Clearance to a mechanical air supply inlet 6 feet (1.8m) minimum<sup>1</sup>. In Canada. In USA, 3 feet (91cm) above if within 10 feet<sup>2</sup> (3m) horizontally.
- L. Clearance above paved sidewalk or a paved driveway located on public property 7 feet (2.1m) minimum.<sup>3</sup>
- M. Clearance above highest point of exit on roof 18 inches (45cm).
- N. Clearance to perpendicular wall 24 inches (60 cm). (Recommended to prevent re-circulation of exhaust products. For additional requirements check local codes.)

**NOTE:** Clearances are to the edge of terminal plate, add 6-<sup>3</sup>/<sub>4</sub>" to clearances to arrive at center line.

**NOTE:** Local Codes or Regulations may require different clearances.

## Termination

It is imperative that the vent termination be located observing the minimum clearances as shown. There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" from the front of the termination plate. Do not locate termination where excessive snow or ice build-up may occur. Be sure to check vent termination area after snow falls and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

ONLY VENTING COMPONENTS SPECIFICALLY APPROVED AND LABELED FOR THIS FIREPLACE MAY BE USED.

Venting terminal shall not be recessed into a wall or siding. If finishing the outside wall with vinyl or wood siding it is recommended that an approved Siding Shield be installed.

1. In accordance with the current **CSA B149.1, Natural Gas and Propane Code**.
2. In accordance with the current **ANSI Z223.1/NFPA 54, National Fuel Gas Code**.
3. A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.
4. Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.
5. Clearance in accordance with local installation codes and the requirements of the gas supplier.