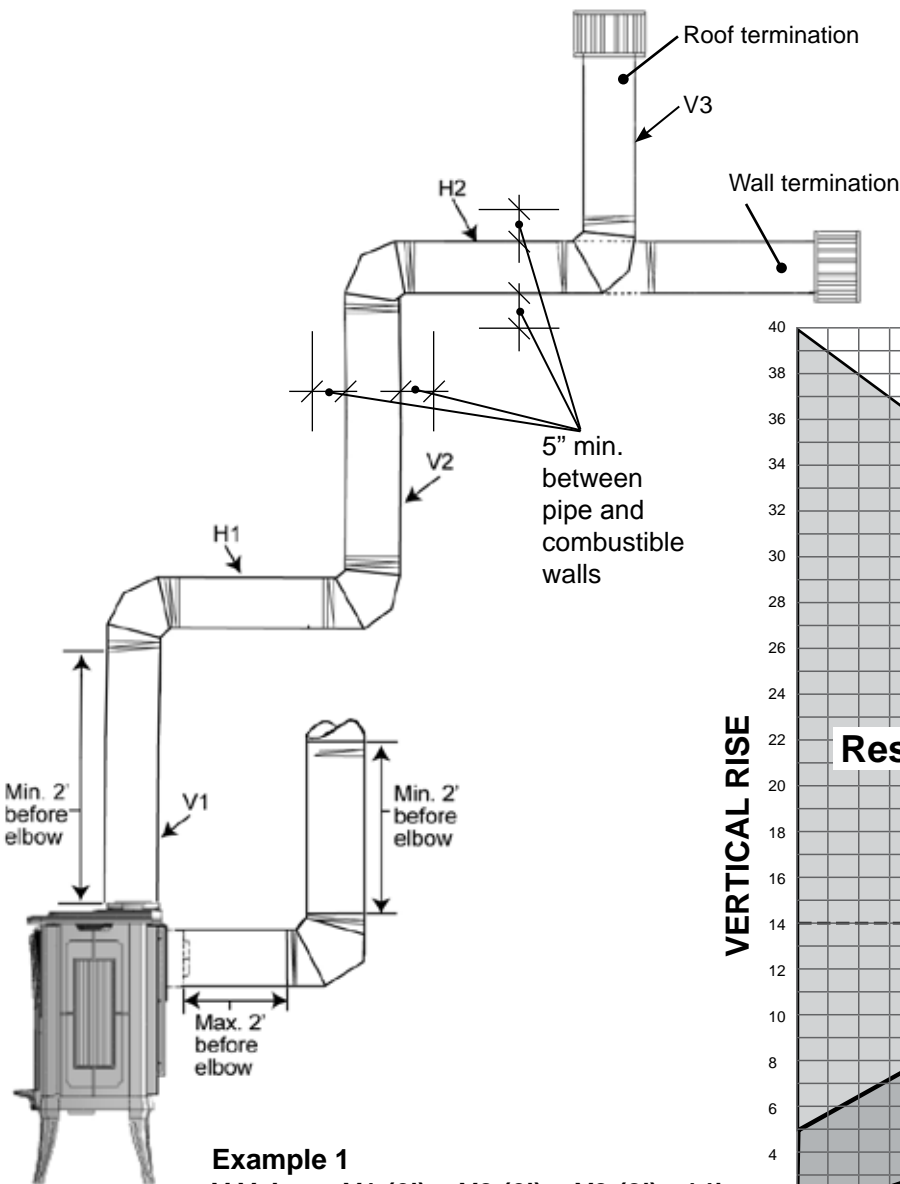


# Madrona Freestanding Gas Fireplace

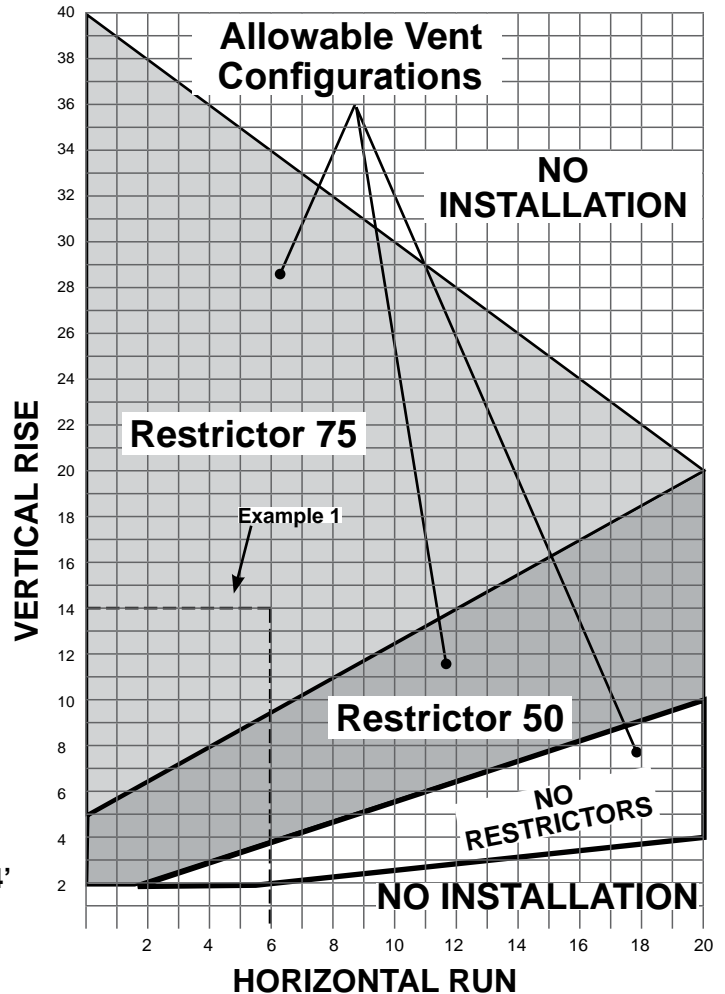
The chart below applies to top or rear outlet, roof or wall termination **with a vertical rise**. **All rear outlet venting without a vertical rise must be terminated by a snorkel.**

## How to Read the Venting Chart

1. The total length of the vent pipe cannot exceed 40' (12.2m).
2. The minimum vertical height with roof termination is 8' (2.45 m).
3. Any combination of rise and run can be used as long as they are within the allowable limits shown on the chart below.
4. A maximum of 5 x 90° elbows—or equivalent ( $2 \times 45^\circ = 90^\circ$ )—can be used.
5. Each 90° elbow installed on the horizontal plane is equivalent to a 3' horizontal pipe; therefore, 3' must be subtracted from allowable horizontal run. (45° elbow is equivalent to 18" horizontal pipe.)
6. All horizontal pipe runs must be graded 1/4" per foot upwards in the direction of the exhaust flow.
7. **Co-linear venting** in existing chimney systems is limited to 40' vertical rise.
8. **Restrictors are not required** for co-linear installations.



**5 x 90° ELBOWS  
MAXIMUM**



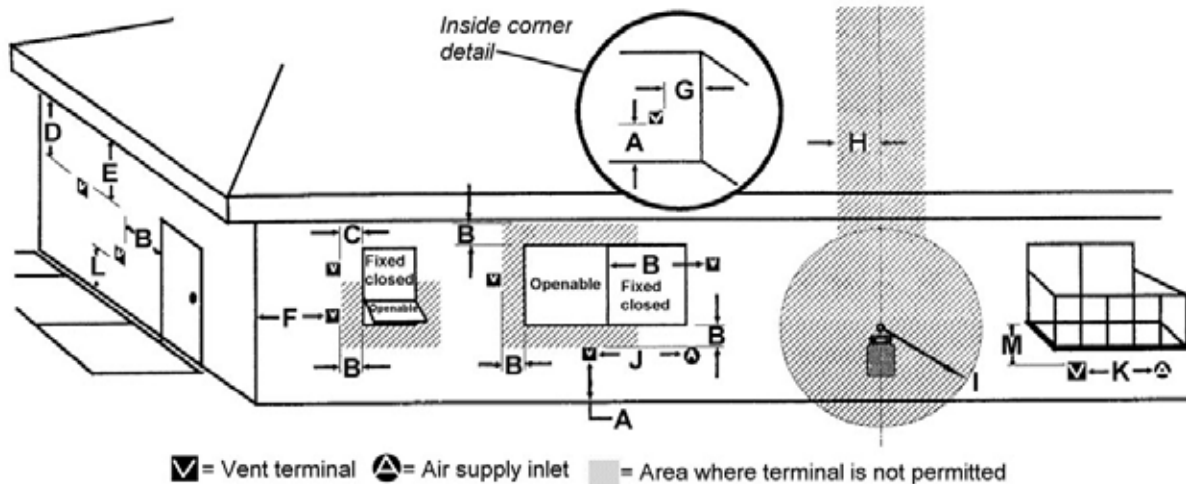
**Example 1**  
 $V \text{ Value} = V1 (6') + V2 (6') + V3 (2') = 14'$   
 $H \text{ Value} = H1 (3') + H2 (3') = 6'$   
**75% restrictor required**

Not to scale

# Venting

## Horizontal Vent Termination

- The vent terminal must be located on an outside wall or through the roof.
- This direct vent appliance is designed to operate when an undisturbed airflow hits the outside vent terminal from any direction.
- The minimum clearances from this terminal that must be maintained when located on an outside wall are shown in the figure below. Any reduction in these clearances could result in a disruption of the airflow or a safety hazard. Local codes or regulations may require greater clearances.
- The vent terminal must not be recessed into a wall or siding.
- The vent terminal should be positioned where it will not be covered by snowdrifts.
- Sidewall vent terminations within 7' of grade require a terminal guard.



KEY	VENT TERMINAL LOCATIONS - MINIMUM DISTANCES	MINIMUM CLEARANCE	
		Inches	Cm
A	Clearance above grade, verandah, porch, deck or balcony	12	30
B	Clearance to window or door that may be opened	12	30
C	Clearance to permanently closed window (recommended to prevent condensation on window)	12	30
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal	18	46
E	Clearance to unventilated soffit	12	30
F	Clearance to outside corner	12	30
G	Clearance to inside corner	6	30
H	Horizontal clearance to center-line of meter/regulator assembly located within 15 feet (4.6 m) below the terminal	36	90
I	Clearance to service regulator vent outlet	36	90
J	Clearance to non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance	12	30
K	Clearance to a mechanical air supply inlet	72	180
L	Clearance above paved sidewalk or a paved driveway located on public property <b>Note:</b> A vent must not terminate directly above a sidewalk or paved driveway, which is located between two single-family dwellings and serves both dwellings	84	210
M	Clearance under a verandah, porch, deck or balcony Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor	12	30

Note: Local codes and regulations may require different clearances.

# Venting

## Vertical Vent Termination

Roof Pitch	Minimum "H" (feet)
Flat to 7/12	1'
Over 7/12 to 8/12	1.5'
Over 8/12 to 9/12	2'
Over 9/12 to 10/12	2.5'
Over 10/12 to 11/12	3.25'
Over 11/12 to 12/12	4'
Over 12/12 to 14/12	5'

