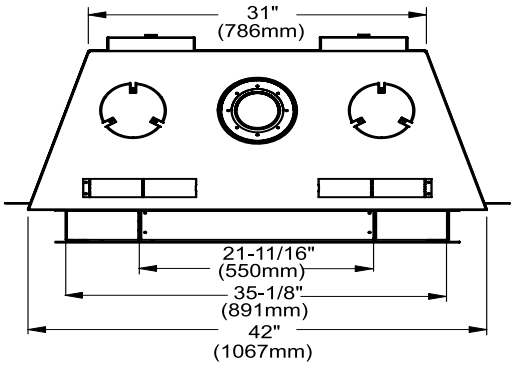
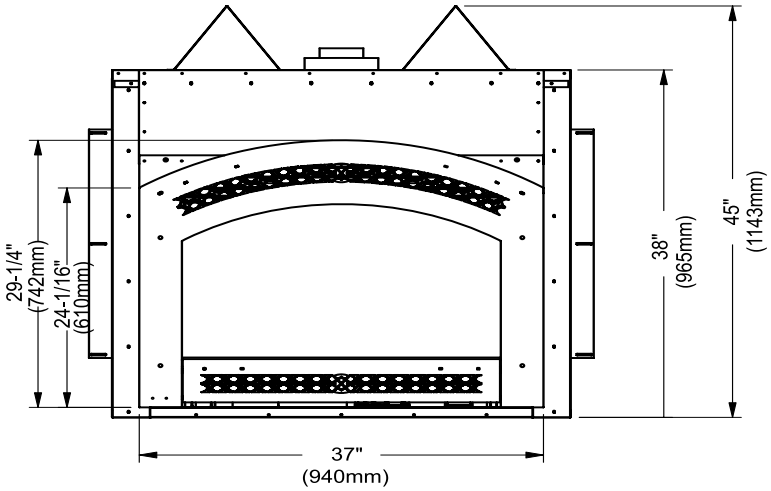
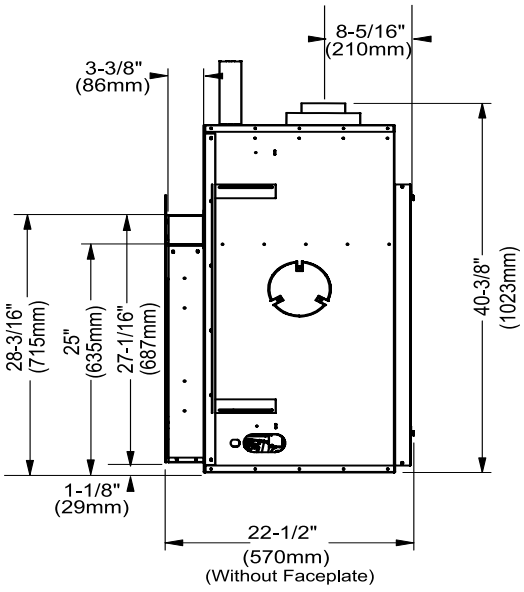
City Series P90E-11 Gas Fireplace

Model	P90E-NG11	P90E-LP11
Fuel	Natural Gas	Propane
Minimum Supply Pressure	5″ W. C. (1.25 kPa)	11″ W.C. (2.74 kPa)
Manifold Pressure - High	3.5″ W. C. (0.87 kPa)	10″ W.C. (2.49 kPa)
Manifold Pressure - Low	1.6″ W.C. (0.40 kPa)	6.4″ W.C. (1.60 kPa)
Orifice Size Altitude 0-4500 pi (0-1372 m)	# 34 DMS	# 51 DMS
Minimum Input Altitude 0-4500 pi (0-1372 m)	23 500 Btu/h (6.89 kW)	25 500 Btu/h (7.47 kW)
Maximum Input Altitude 0-4500 pi (0-1372 m)	35 000 Btu/h (10.26 kW)	31 500 Btu/h (9.23 kW)
Vent Sizing	4″ Inner / 6-7/8″ Outer	4″ Inner / 6-7/8″ Outer
CSA P.4.1	71.36%	72.79%

DIMENSIONS







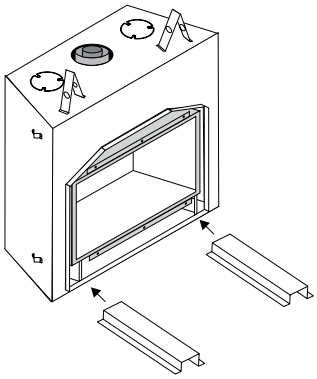
REQUIREMENTS

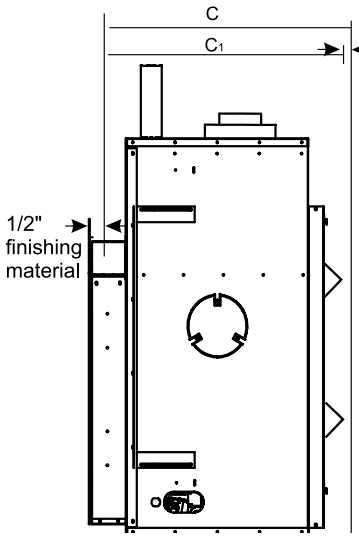
Unit Base Standoffs

To accommodate varying thicknesses and finishes of hearth materials, we have increased the overall height of the appliance by a further 1 1/8". This increase is added with the inclusion of two stand-offs at the bottom of the unit, below the outer box, taking the overall height of the framing dimensions from 45-1/4" up to 46-3/8".

In the event that you should choose to use thinner materials to finish the hearth, you can omit the standoffs provided for raising the unit. However, we recommend that you leave the framing dimensions as they are in the manual and alter only the facing requirement by reducing it by the same distance that you have lowered the unit.

Insert the 2 unit base standoffs underneath the unit as shown in the diagram below. Space the standoffs centrally, approximately 2 or 2-1/2 feet apart. Ensure that the unit is not unstable.



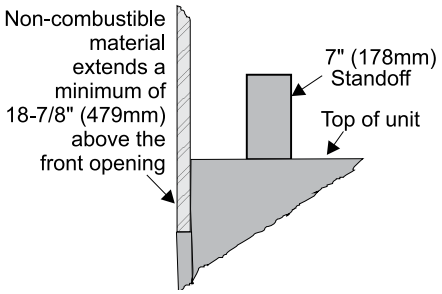


C = 21-1/2" - min. depth required
C_1 = 21-3/8" - C_1 + Finishing material thickness

Note: After unit is framed in, steel studs can be used inside of the wood framing to attach the noncombustible material. An optional steel stud framing kit is available for this purpose–see manual for details. If choosing not to purchase this kit, steel studs can be used in place–to attach the non combustible material. Use the optional steel stud kit instructions as a guide.

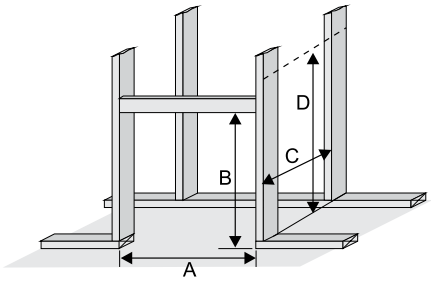
Framing and Finishing

1. Determine the total thickness of facing material (e.g. drywall plus ceramic tiles) to allow the finished surface to be flush with the front of the unit. Total facing thickness can vary from 1/2" (13mm) to 3-3/8" (86mm) thick.

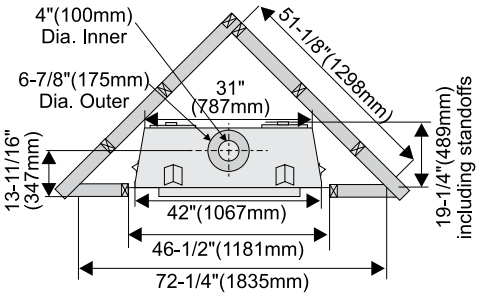


Install Top Standoffs & Side Nailing Strips before unit is slipped into position. See the "Unit Assembly Prior to Installation" section for assembly details.

2. Frame in the enclosure for the unit with framing material. The framed opening is 45-1/4" high(46-3/8" - if using base standoffs) x 46-1/2" wide x 21-1/2" deep (1149mm high x 1181mm wide x 546mm deep).



Framing Dimensions			
A	B	C	D
46-1/2" 1181mm	45-1/4" 1149mm	21-1/2" 546mm	53-3/4" 1365mm
	*46-3/8" 1178mm		
*If raised 1-1/8" using base standoffs.			

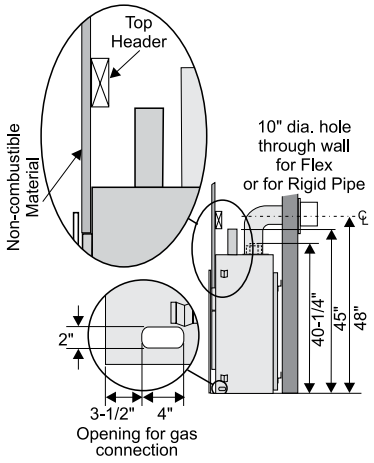


3. For exterior walls, insulate the enclosure to the same degree as the rest of the house, apply vapour barrier and drywall, as per local installation codes. **(Do not insulate the fireplace itself.)**

REQUIREMENTS

4. **Note: The unit does not have to be completely enclosed in a chase. The clearance on top of the unit is 0" to the standoffs so combustible building materials can be laid directly on top of the standoffs. You must maintain clearance from the vent to combustible materials for both rigid and flex, see the "Clearances" section.**

Note: 48" (1219mm) is the minimum height for both flex termination or Rigid Pipe venting.

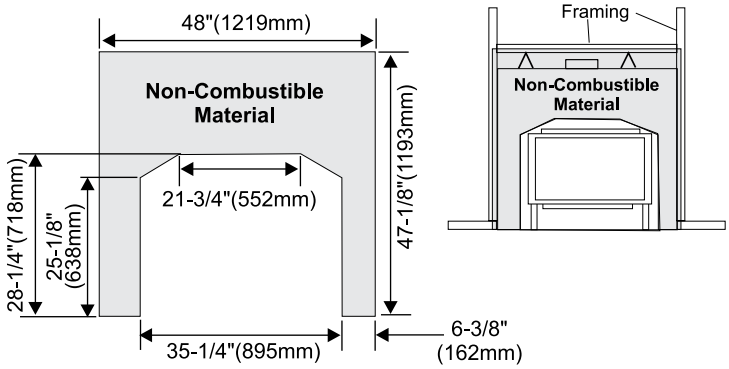


The ***HeatWave*** Duct Kit has different clearance and framing requirements, check the ***HeatWave*** manual for details.

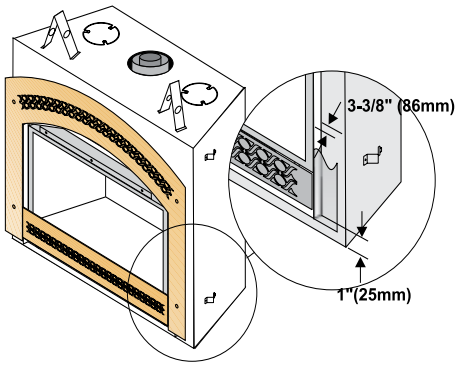
Facing Requirement

This fireplace requires a non-combustible material extending from the framing header and sides.

The flanges on the front face of the fireplace are for a facing thickness of 3-3/8" (86mm).

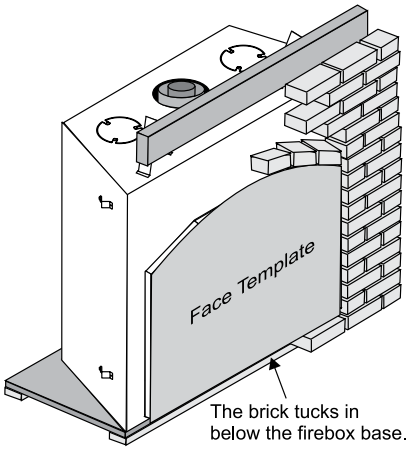


*Please note that all vertical measurements are taken from the base of the unit **excluding** risers or bottom stand-offs.*



Facing Over 3-3/8" (86mm) Thick

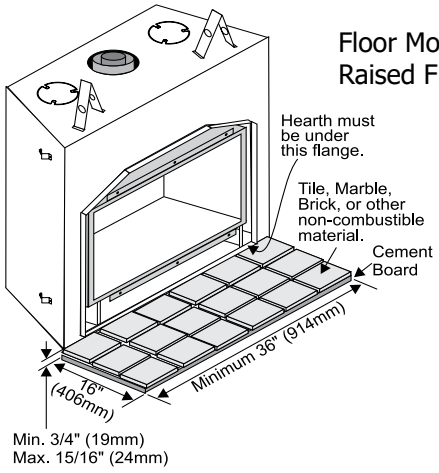
If the facing material is over 3-3/8" (86mm) thick (example: brick or river rock), install the facing around the perimeter of the face. You may wish to make a face template as shown on the diagram.
Note: The template should be slightly larger than the actual surround itself to accommodate the removal of the surround when having this serviced. The surround when fitted must be lifted up and out in order to remove it.



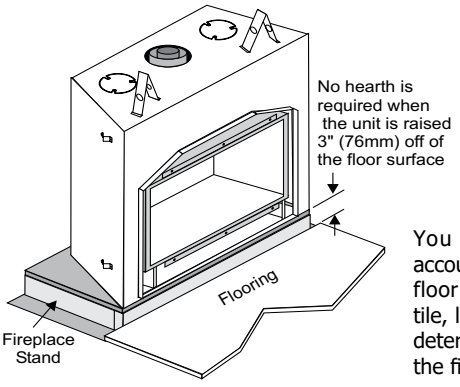
Regency provides a template on the box.

NOTE: If using a brick hearth, the fireplace will need to be raised to accommodate the brick thickness. Example: If the brick is 2" thick, the unit must be raised 1".

Hearth Requirements



Floor Mounted Fireplaces
Raised Fireplaces



You must take into account the depth of the floor covering (carpet, tile, linoleum, etc.) when determining the height of the fireplace stand.

MANTEL CLEARANCES

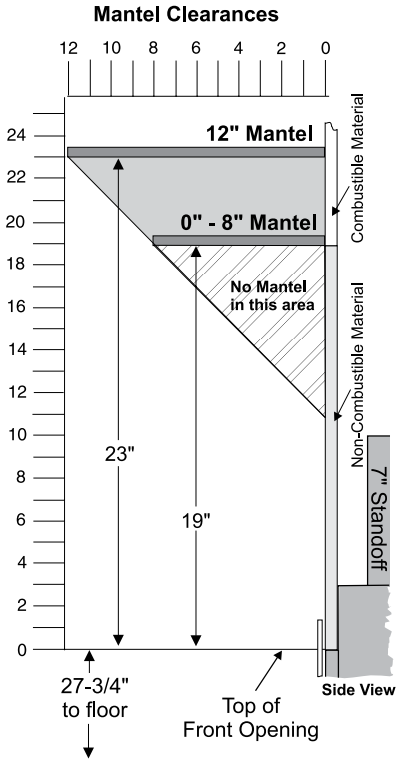
Combustible Mantels

Because of the extreme heat this fireplace emits, the mantel clearances are critical. Combustible mantel clearances from top of unit are shown in Diagram below.

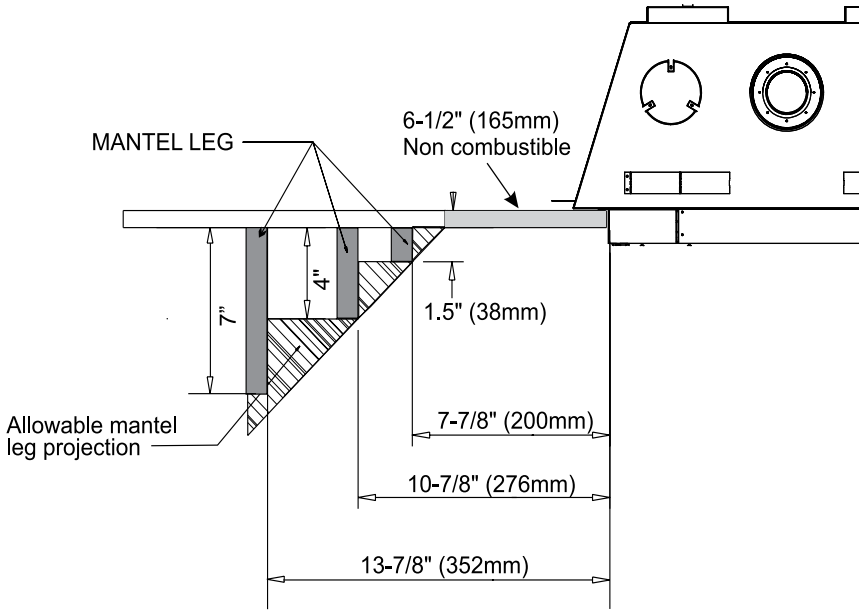
Note: A non-combustible mantel may be installed at a lower height if the framing is made of metal studs covered with a non-combustible board. The non-combustible mantle when installed at a lower overall height may not be lower than 6 inches from the top of the fireplace opening.

Mantel can be installed anywhere in shaded area or higher using the above scale.

Note: Ensure the paint that is used on the mantel and the facing is "heat resistant" or the paint may discolour.



Mantel Leg Clearance



VENTING

FPI Direct Vent System (Flex) Horizontal Terminations Only

These venting systems, in combination with the P90E-11 Direct Vent Gas Fireplace, have been tested and listed as a direct vent heater system by Warnock Hersey/Intertek. The location of the termination cap must conform to the requirements in the Vent Terminal Locations diagram in the "Exterior Vent Termination Locations" section.

FPI Direct Vent (Flex) System Termination Kit (Part # 946-515) includes all the parts needed to install the P90E-11 with a maximum run of 4 feet.

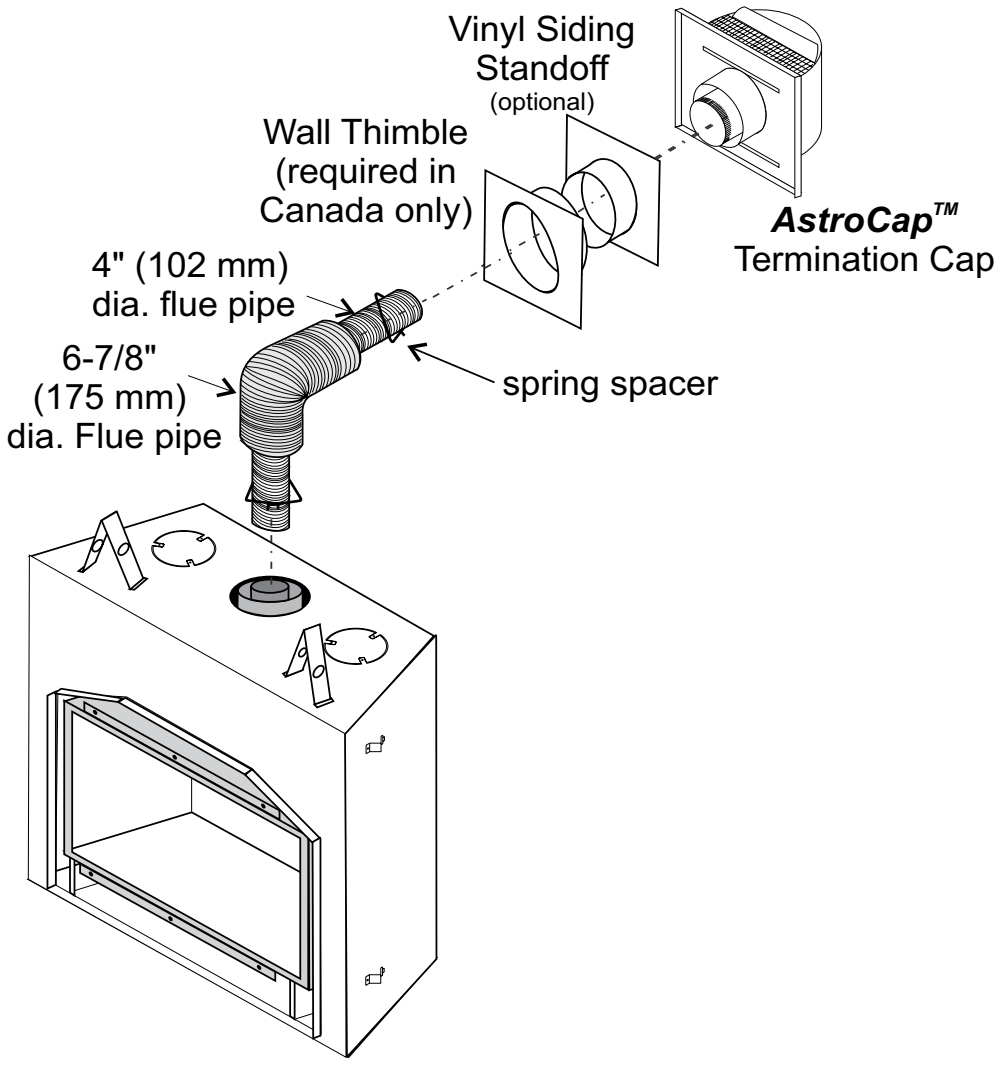
1. 6-7/8" dia. flexible liner (4 ft. length)
2. 4" dia. flexible liner (4 ft. length)
3. spring spacers (4)
4. thimble (2)
5. ***AstroCap*** termination cap (1)
6. screws (12)
7. tube of Mill Pac (1)
8. plated screws (8)
9. screws #8 x 1-1/2" Drill Point, Stainless Steel (4)

If a longer run is needed, the FPI Direct Vent system (Flex) kit is 946-516 which includes all the parts needed to install the P90E-11 with a maximum 10' run.

1. 6-7/8" dia. flexible liner (10 ft. length)
2. 4" dia. flexible liner (10 ft. length)
3. spring spacers (7)
4. thimble (2)
5. ***AstroCap*** termination cap (1)
6. screws (12)
7. tube of Mill Pac (1)
8. plated screws (8)
9. screws #8 x 1-1/2" Drill Point, Stainless Steel (4)

Notes:

1. **Liner sections should be continuous without any joints or seams.**
2. **Only Flex pipe purchased from FPI may be used for Flex installations.**
3. **Horizontal vent must be supported every 3 feet.**



TERMINATIONS FOR 4" X 6-5/8" RIGID PIPE VENTING

Rigid Pipe Venting Systems

The minimum components required for a basic horizontal termination are:

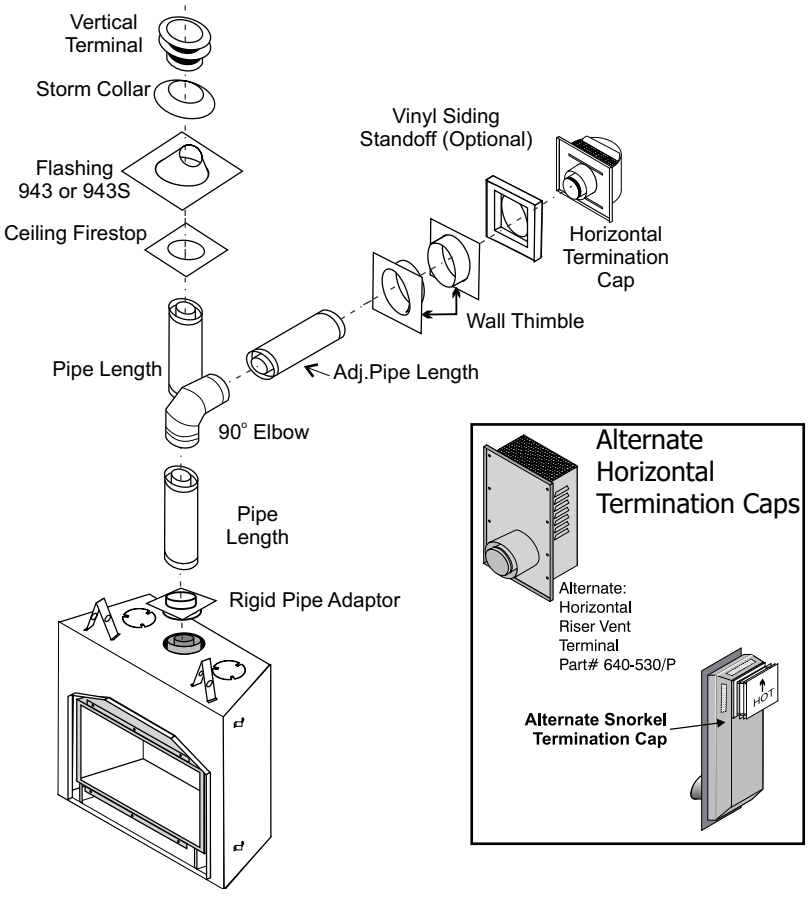
1 Horizontal Termination Cap
1 90° Elbow
1 Rigid Pipe Adaptor
1 Wall Thimble
1 Length of pipe to suit wall thickness (see chart)
1 4" x 6-5/8" to 5" x 8" increaser for 5" x 8" venting

Wall thickness is measured from the back standoffs to the inside mounting surface of termination cap. For siding other than vinyl furring strips may be used, instead of the vinyl siding standoff, to create a level surface to mount the vent terminal. The Terminal must not be recessed into siding. Measure the wall thickness including furring strips.

If a Vinyl Siding Standoff is required (it must be used with vinyl siding), measure to outside surface of wall without siding and add 2 inches.

Flat Wall Installation	
Wall Thickness (inches)	**Vent Length Required (inches)**
4" - 5-1/2"	6"
7" - 8-1/2"	9"
10" - 1-1/2"	12"
9" - 14-1/2"	11" - 14-5/8" Adj. Pipe
15" - 23-1/2"	17" - 24" Adj.
Corner Installation	
Wall Thickness (inches)	**Vent Length Required (inches)**
3-1/4" - 6-3/4"	11" - 14-5/8" Adj. Pipe
7-3/4" - 16-1/4"	17" - 24" Adj. Pipe
7-1/4" - 8-3/4"	6" + 12" 9" + 9"
4-1/4" - 5-3/4"	6" + 9"

Horizontal and Vertical Terminations for 4" x 6-5/8" Venting



WARNING:

Do not combine venting components from different venting systems.

However use of the the AstroCap™ and FPI Riser is acceptable with all systems.

This product has been evaluated by Intertek for using a Rigid Pipe Adaptor in conjunction with Duravent Direct-Vent, Olympia Ventis DV, Selkirk Direct-Temp, Ameri Vent Direct venting and Security Secure Vent systems. Use of these systems with the Rigid Pipe adaptor is deemed acceptable and does not affect the Intertek WHI listing of components.

When using Rigid Vent other than Simpson Dura-Vent, 3 screws must be used to secure rigid pipe to adaptor.

The FPI AstroCap™ and FPI Riser Vent terminal are certified for installations using FPI venting systems as well as Simpson Dura-Vent® Direct Vent, American Metal Products Ameri Vent Direct Vent, Olympia Ventis DV, Security Secure Vent®, Selkirk Direct-Temp. AstroCap™ is a proprietary trademark of FPI Fireplace Products International Ltd. Dura-Vent® and Direct Vent are registered and/or proprietary trademarks of Simpson Dura-Vent Co. Inc.

HORIZONTAL TERMINATIONS

Rigid and Flex Pipe Venting Arrangements - Propane & Natural Gas

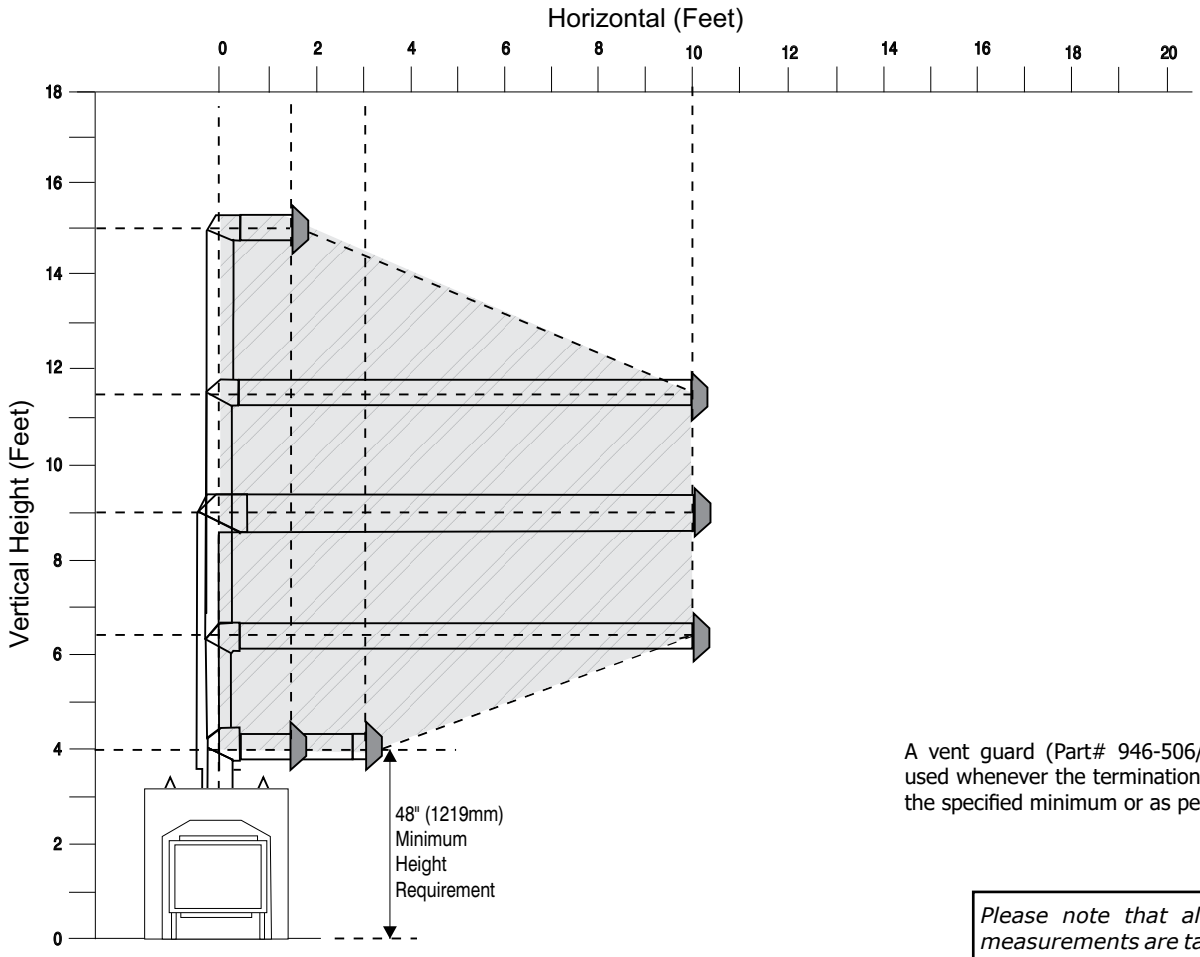
The diagram shows all allowable combinations of vertical runs with horizontal terminations, using one 90° elbow (two 45° elbows equal one 90° elbow).

All Rigid Pipe Systems
4" inner diameter
6-5/8" outer diameter

FPI Flex Vent
4" inner diameter
6-7/8" outer diameter

Note: Must use optional rigid pipe adaptor (Part # 510-994. when using Rigid Pipe.

Note: FPI Direct Vent System (Flex) is only approved for horizontal terminations.



A vent guard (Part# 946-506/P) should be used whenever the termination is lower than the specified minimum or as per local codes.

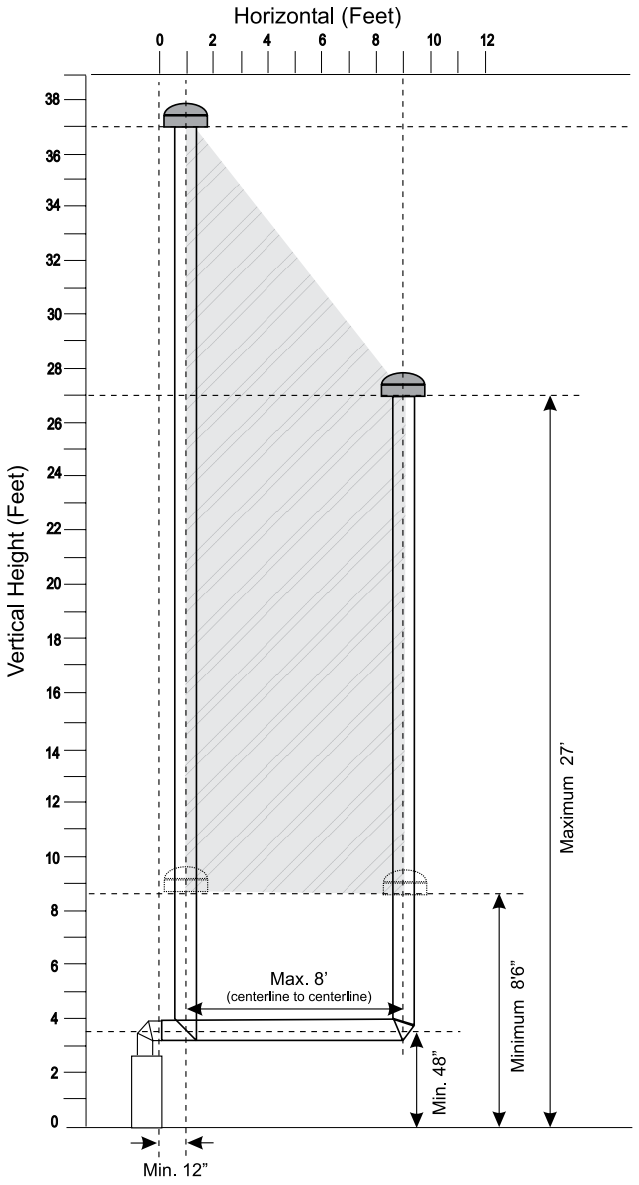
*Please note that all vertical measurements are taken from the base of the unit **excluding** risers or bottom stand-offs.*

- **Maintain clearances to combustibles as listed in the "Clearances" section.**
- **Horizontal vent must be supported every 3 feet.**
- **Firestops are required at each floor level and whenever passing through a wall.**

VERTICAL TERMINATIONS

Rigid Pipe Venting Arrangements

The shaded area in the diagram shows all allowable combinations of straight vertical and offset to vertical terminations, using two 90° elbow, with **rigid pipe** vent systems for Propane and Natural Gas.



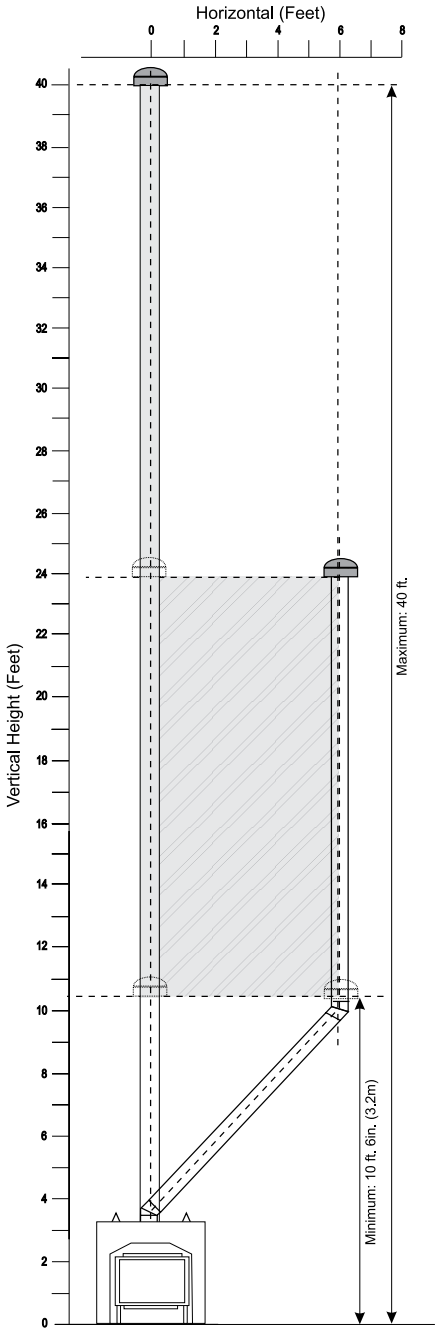
- **Vent must be supported at offsets.**
- **Firestops are required at each floor level and whenever passing through a wall.**
- **Maintain clearances to combustibles.**

Note: Must use optional rigid pipe adaptor when using rigid vent systems (Part # 510-994).

The P90E-11 is approved for a maximum 40 ft. straight vertical, with **rigid pipe** 4" x 6-5/8" vent systems for Propane and Natural Gas, as per diagram.

The shaded area in the diagram show all allowable combinations of straight vertical and offset to vertical terminations with **rigid pipe** vent systems for Propane and Natural Gas. Maximum two 45° elbows allowed.

- **Vent must be supported at offsets**
- **Firestops are required at each floor level and whenever passing through a wall.**
- **Maintain clearances to combustibles as listed in the "Clearances" section.**



*Please note that all vertical measurements are taken from the base of the unit **excluding** risers or bottom stand-offs.*