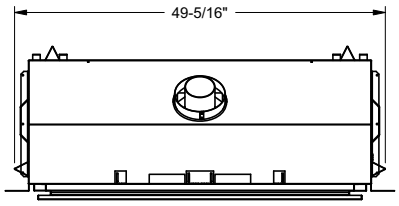
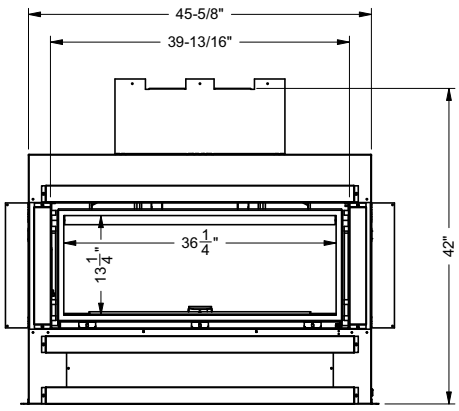
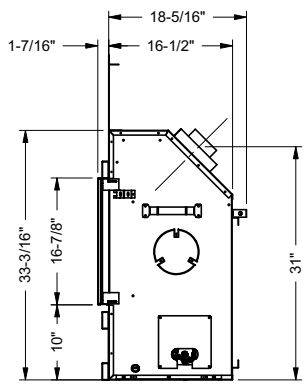
HZ40E Gas Fireplace

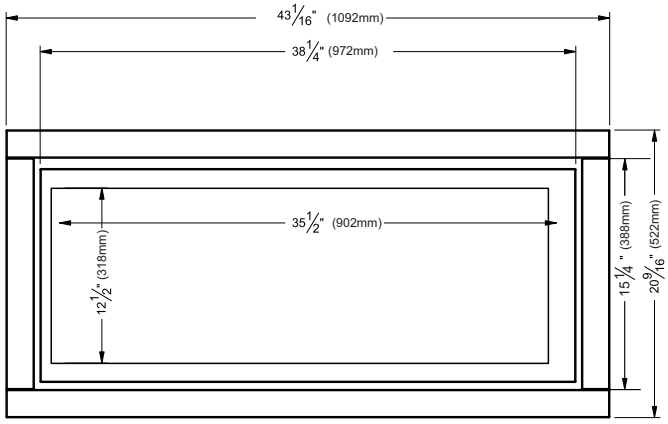
Model	HZ40E-NG	HZ40E-LP
Fuel Type	Natural Gas	Propane
Minimum Supply Pressure	5” W.C. (1.25 kPa)	11” W.C. (2.73 kPa)
Manifold Pressure - High	3.5” W.C. (0.87 kPa)	10” W.C. (2.48 kPa)
Manifold Pressure - Low	1.6” W.C. (0.41 kPa)	6.4” W.C. (1.59 kPa)
Orifice Size -**Altitude 0-4500 ft.**	#40 DMS	#53 DMS
Minimum Input **Altitude 0-4500 ft. (0-1372m)**	18,000 BTU/h (5.28 kW)	21,000 BTU/h (6.15 kW)
Maximum Input **Altitude 0-4500 ft. (0-1372m)**	26,000 BTU/h (7.61 kW)	25,500 BTU/h (7.47 kW)
Vent Sizing	4” Inner / 6-5/8” Outer	4” Inner / 6-5/8” Outer

Approved Venting Systems	
Flex Vent Systems:	**FPI AstroCap™ Flex Vent**
Rigid Pipe Vent Systems:	**Simpson Direct Vent Pro®** **Selkirk Direct-Temp™** **Metal-Fab® Sure Seal** **ICC Excel**

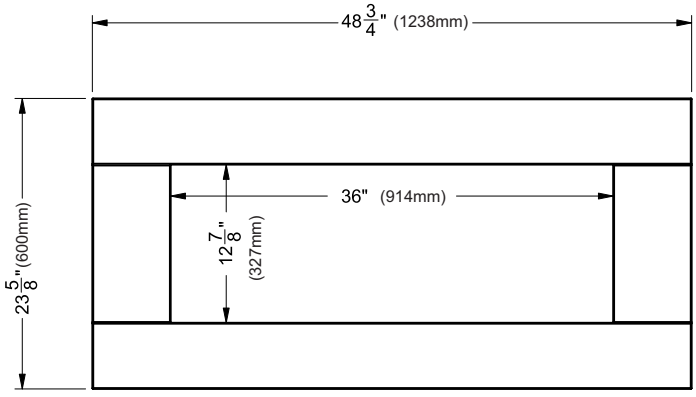








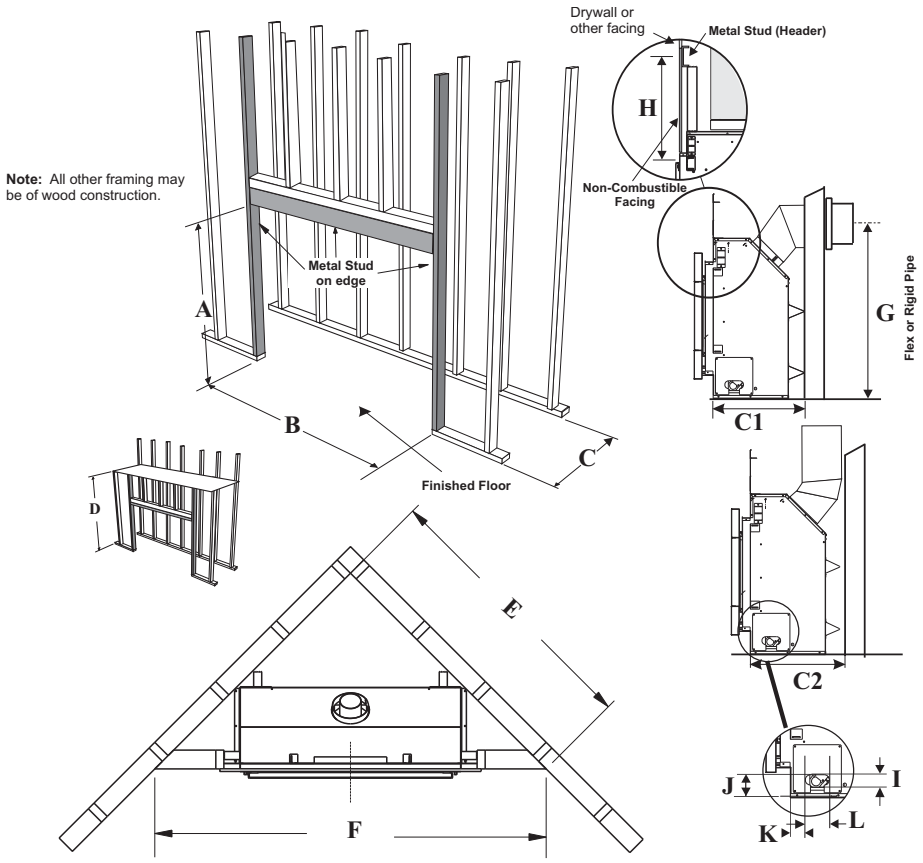
Inner and outer faceplate dimensions



4 piece faceplate dimensions

Framing Dim	Description	HZ40E
A	Framing Height	42” (1067mm)
B	Framing Width	49-7/8" (1266mm)
C*	Framing Depth*	**C1** Horizontal Vent 19-7/16" (495mm) **C2** Vertical Vent 23-7/16" (596mm) Vertical rise -terminating horizontal
D	Minimum Height to Combustibles	43-7/8" (1004mm)
E	Corner Wall Depth	56" (1422mm)
F	Corner Facing Wall Width	79" (2007mm)
G	Vent Centerline Height	36 - 1/4" (921mm)
H	Non-combustible facing height	17” (432mm)
I	Gas Connection Opening Height	2" (51mm)
J	Gas Connection Height	4 - 3/16" (106mm)
K	Gas Connection Inset	8 - 5/16" (211mm)
L	Gas Connection Opening Width	3 - 1/2" (89mm)

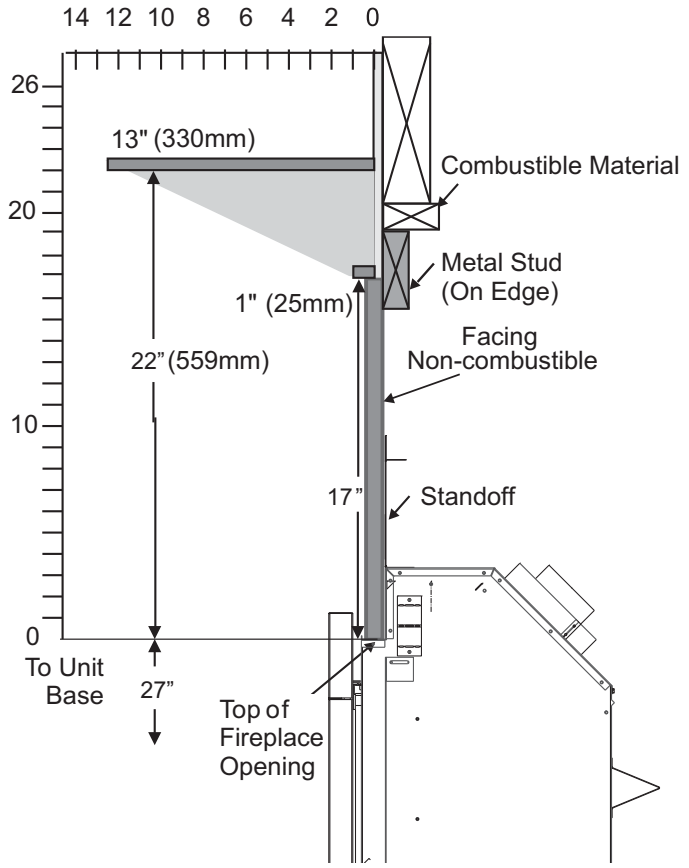
* Framing depth measurement is noted with the nailing strips set as far forward on the firebox as possible.
The nailing strips can be adjusted back up to 1” to allow for varying thicknesses in non-combustible material & wall finishes.



MANTEL CLEARANCES

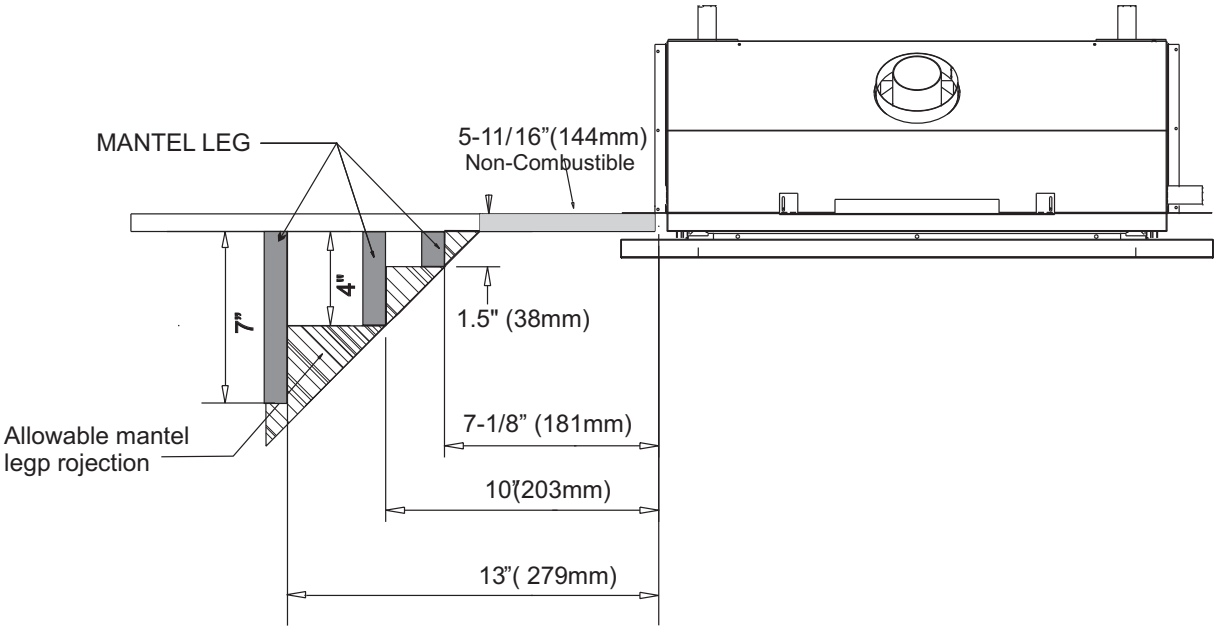
Due to the extreme heat this fireplace emits, the mantel clearances are critical. Combustible mantel clearances from top of front facing are shown in the diagram on the right.

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



MANTEL LEG CLEARANCES

Combustible mantel leg clearances as per diagram:



CLEARANCES

The clearances listed below are Minimum distances unless otherwise stated:

A major cause of chimney related fires is failure to maintain required clearances (air space) to combustible materials. It is of the greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

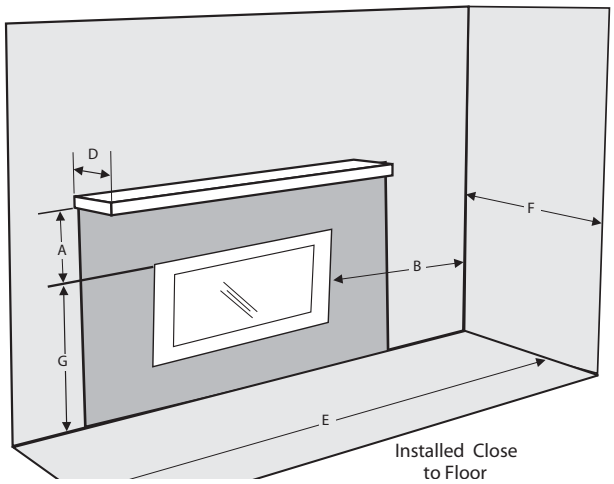
Caution Requirements
The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

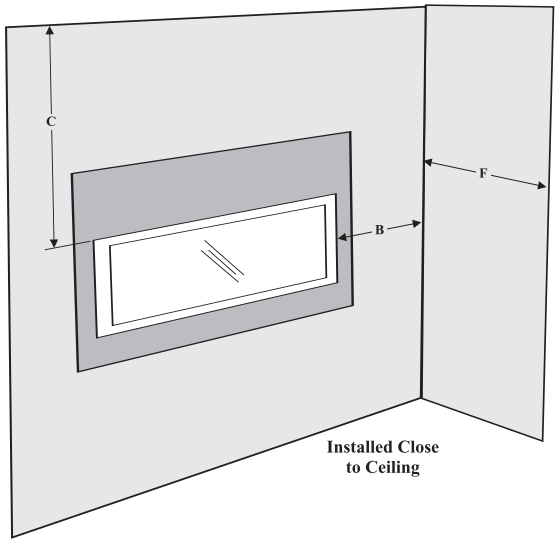
WARNING
Fire hazard is an extreme risk
if these clearances (air space) to combustible materials are not adhered to. It is of greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

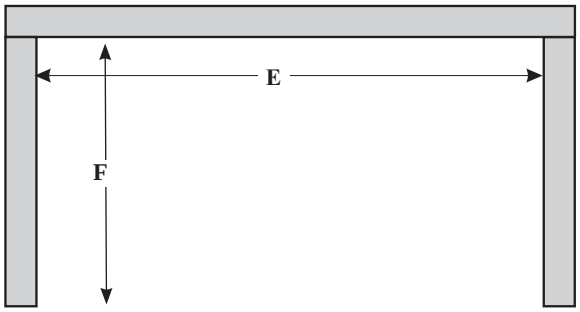
Heat Wave
Heat Release Kit
The ***HeatWave*** Duct Kit and the Heat Release Kit have different clearance and framing requirements, check the ***HeatWave*** and Heat Release manual for details.

Clearance:	Dimension	Measured From:
A: Mantel Height (min.)	17" (330mm)	Top of Fireplace Opening
B: Sidewall (on one side)	8" (203mm)	Side of Fireplace Opening
C: Ceiling (room and/or alcove)	22" (559mm)	Top of Fireplace Opening
D: Mantel Depth (max.)	13" (330mm)	22" Above Fireplace Opening
E: Alcove Width	84" (2134mm)	Sidewall to Sidewall (Minimum)
F: Alcove Depth	36" (914mm)	Front to Back Wall (Maximum)
G: From Floor	27" (686mm)	Top of Fireplace Opening
Note:	0"	No hearth required

Flue Clearances to Combustibles	
Horizontal - Top	3"
Horiztonal - Side	2"
Horiztonal - Bottom	2"
Vertical	2"
Passing through wall/ floor/ceiling - when firestop is used.	1-1/2"





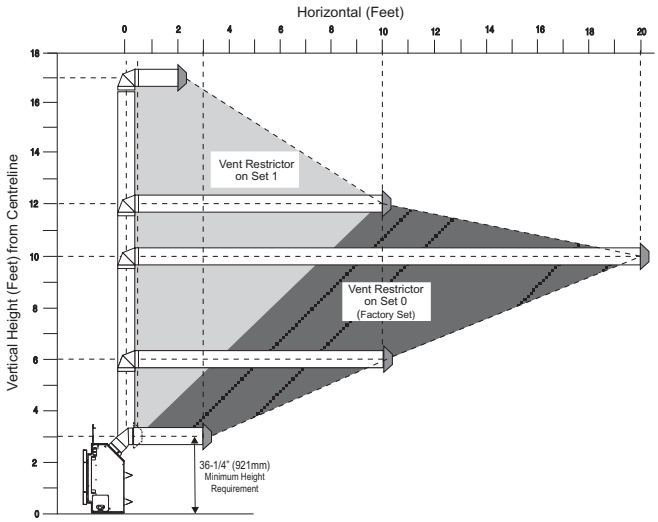


Alcove

VENTING ARRANGEMENT FOR HORIZONTAL TERMINATIONS

The diagram shows all allowable combinations of vertical runs with horizontal terminations, using one 90º (two 45º elbows equal one 90º elbow). (Not including the starting 45º elbow at the flue collar when using rigid venting.)

Note: Must use optional rigid pipe adapter (Part# 510-994) when using Rigid Pipe Venting Systems.



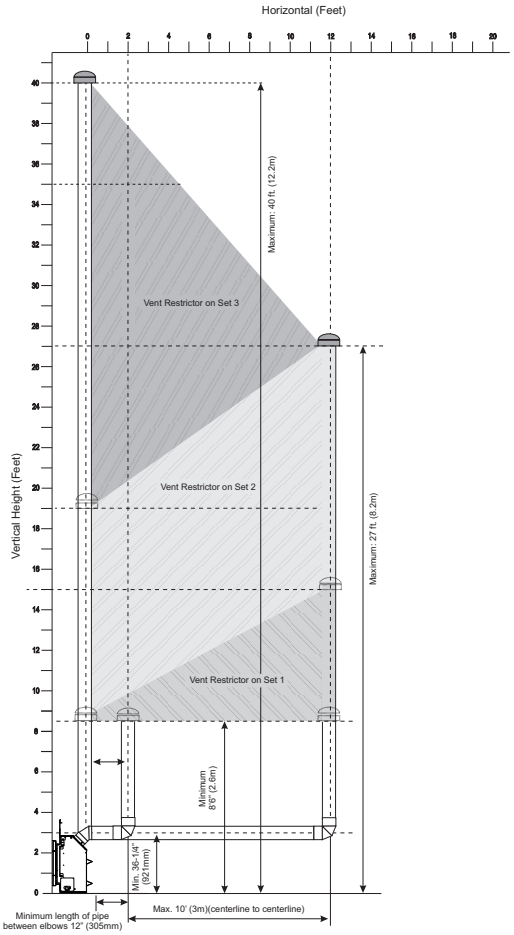
VENTING ARRANGEMENT FOR VERTICAL TERMINATIONS

Vertical Venting with One(1) 90º Elbows (1 - 90º = 2 - 45º)

The shaded area in the diagram shows all allowable combinations of straight vertical and offset to vertical terminations, using one 90º elbow, with **Rigid Pipe Venting Systems**.

Two 45º elbows equal to one 90º elbow, not including the starting 45º elbow at the flue collar**.**

- **Vent must be supported at offsets.**
- **Minimum distance between elbows is 1 ft. (305mm).**
- **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.**
- **Must use optional rigid pipe adaptor (Part# 510-994) when using rigid pipe vent systems.**
- **Refer to the "Vent Restrictor Position" section for details on how to change the vent restrictor from the factory setting of Set 0 to Set 1 or Set 2 if required.**



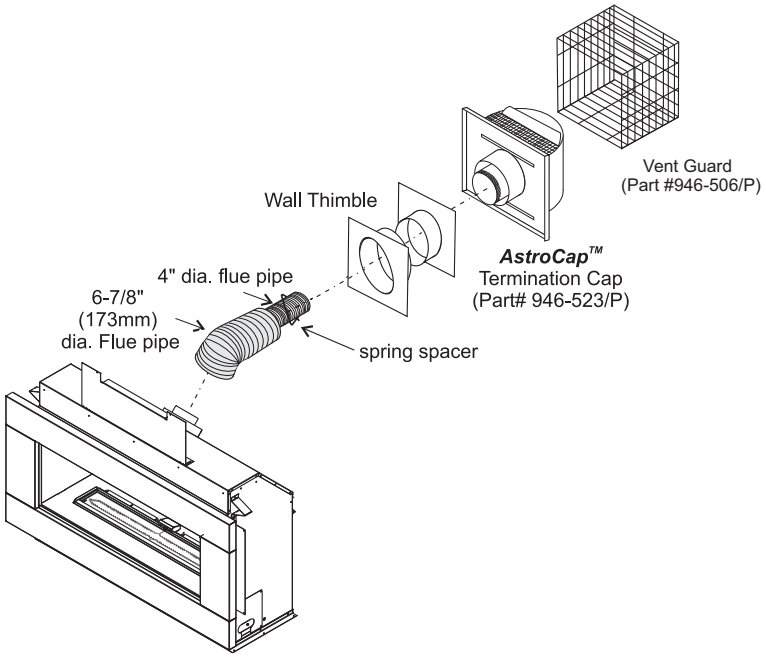
HORIZONTAL TERMINATIONS

FLEX VENT 4" X 6-7/8"

These venting systems, in combination with the HZ40E Direct Vent Gas Fireplace, has 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 "Exterior Vent Termination Locations" section.

Regency® Direct Vent (Flex) System Termination Kits includes all the parts needed to install the HZ40E using a flexible vent.

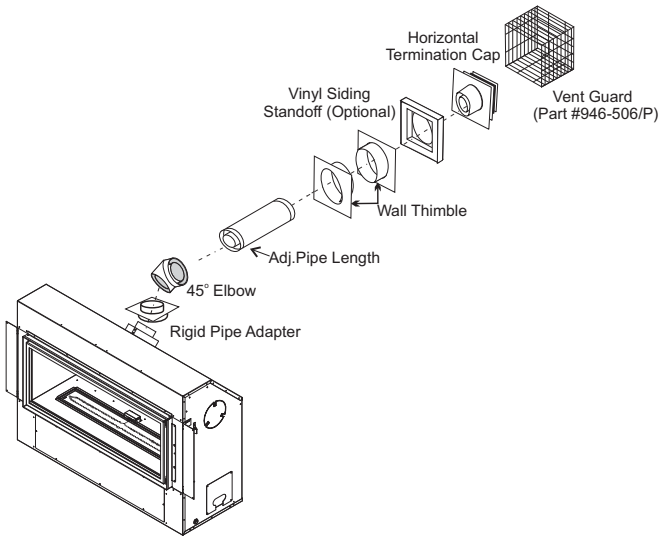
FPI Kit #	Length	Contains:
#946-513	2 Feet	**1)** 6-7/8" flexible outer liner (Kit length) **2)** 4" flexible inner liner (Kit length) **3)** spring spacers **4)** thimble **5)** ***AstroCap*** termination cap **6)** screws **7)** tube of Mill Pac **8)** plated screws **9)** S.S. screws #8 x 1-1/2" drill point
#946-515	4 Feet	
#946-516	10 Feet	



HORIZONTAL TERMINATIONS

RIGID PIPE 4" X 6-5/8"

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



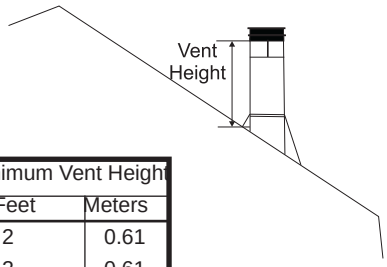
VERTICAL TERMINATIONS

RIGID PIPE 4" X 6-5/8"

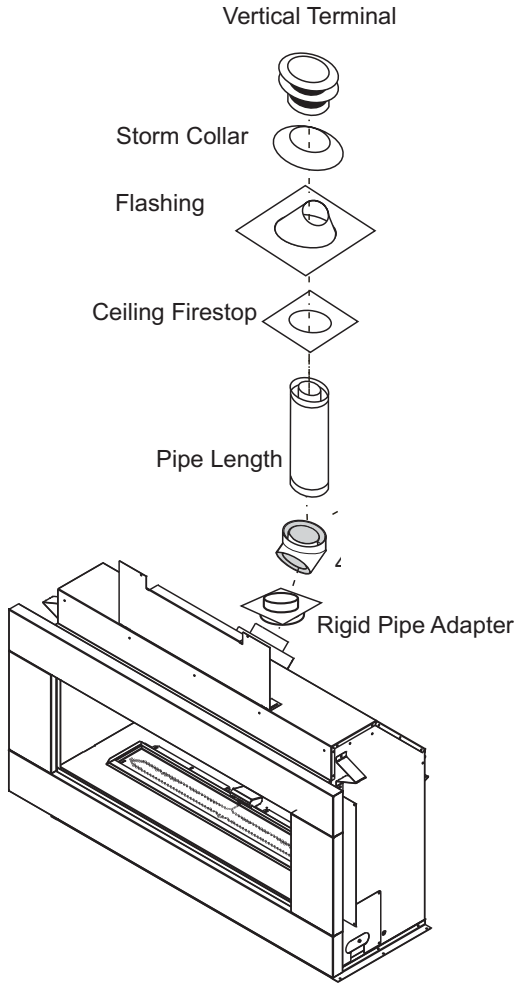
The minimum components required for a basic vertical termination are:

1 Vertical Termination Cap
1 45° Elbow
1 Rigid Pipe Adaptor (510-994)
1 Ceiling Firestop
1 Flashing
1 Storm Collar
1 Length of pipe to suit wall thickness (see chart)

Galvanized pipe is desirable above the roofline due to its higher corrosion resistance. Continue to add pipe sections through the flashing until the height of the vent cap meets the minimum height requirements specified in Dia. 4 or local codes. Note that for steep roof pitches, the vertical height must be increased. A poor draft, or down drafting can result from high wind conditions near big trees or adjoining roof lines, in these cases, increasing the vent height may solve the problem.



Roof Pitch	Minimum Vent Height	
	Feet	Meters
flat to 7/12	2	0.61
over 7/12 to 8/12	2	0.61
over 8/12 to 9/12	2	0.61
over 9/12 to 10/12	2.5	0.76
over 10/12 to 11/12	3.25	0.99
over 11/12 to 12/12	4	1.22
over 12/12 to 14/12	5	1.52
over 14/12 to 16/12	6	1.83
over 16/12 to 18/12	7	2.13
over 18/12 to 20/12	7.5	2.29
over 20/12 to 21/12	8	2.44



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, Selkirk Direct-Temp, Ameri Vent Direct Venting, ICC Excel Direct 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, Security Secure Vent®, ICC Excel, 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.