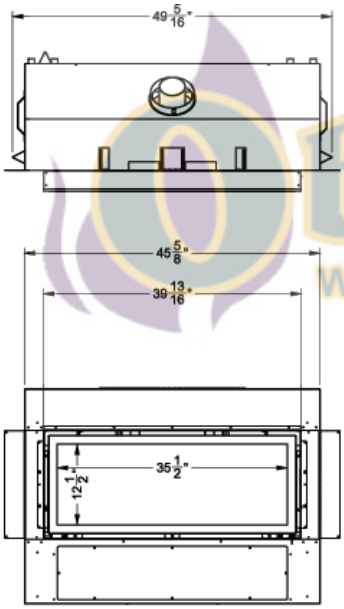
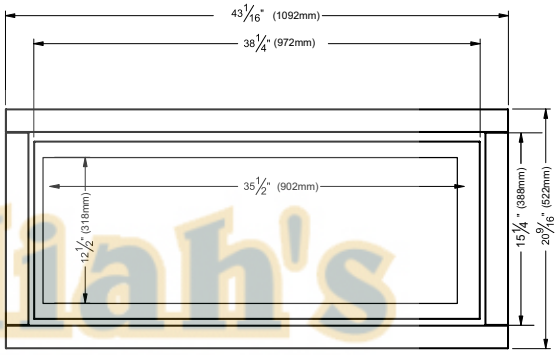
HZ40E - 10 Gas Fireplace

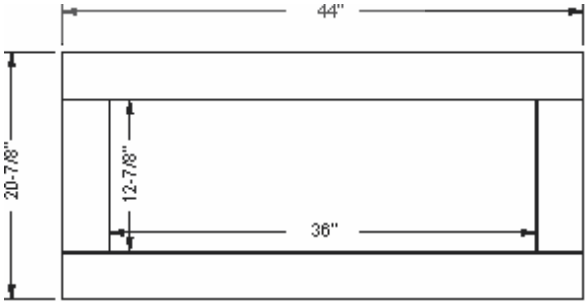
Model	HZ40E-NG10	HZ40E-LP10
Fuel Type	Natural Gas	Propane
Minimum Supply Pressure	5" W.C. (1.25 kPa)	11" W.C. (2.73 kPa)
Manifold Pressure - High	3.5" W.C. (0.87 kPa)	10" W.C. (2.48 kPa)
Manifold Pressure - Low	1.6" W.C. (0.41 kPa)	6.4" W.C. (1.59 kPa)
Orifice Size -**Altitude 0-4500 ft.**	#40 DMS	#53 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**

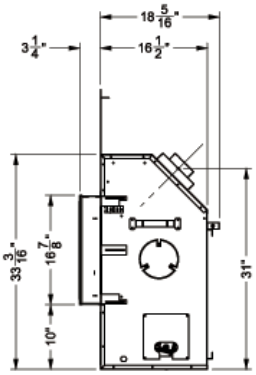


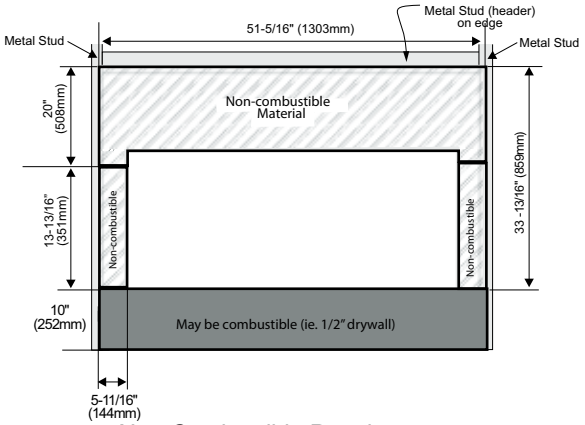


Inner and outer faceplate dimensions



4 piece faceplate/Verona Surround dimensions





Non-Combustible Requirements

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.

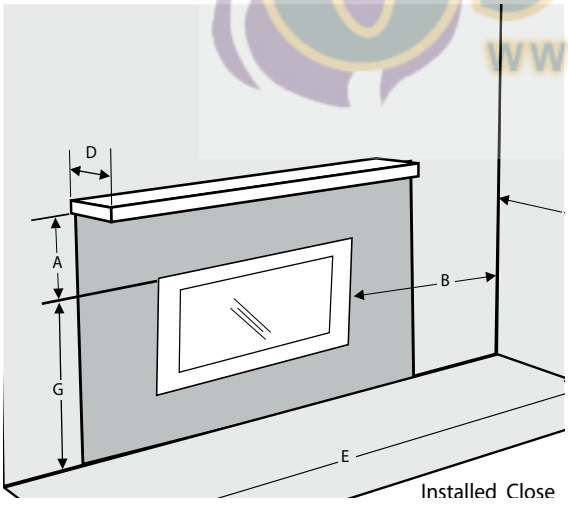
Clearance:	Dimension	Measured From:
A: Mantel Height (min.)	17" (330mm)	Top of Fireplace Opening
B: Sidewall (on one side)	8" (203mm)	Side of Fireplace Opening
C: Ceiling (room and/or alcove)	22" (559mm)	Top of Fireplace Opening
D: Mantel Depth (max.)	13" (330mm)	22" Above Fireplace Opening
E: Alcove 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

Heat Wave

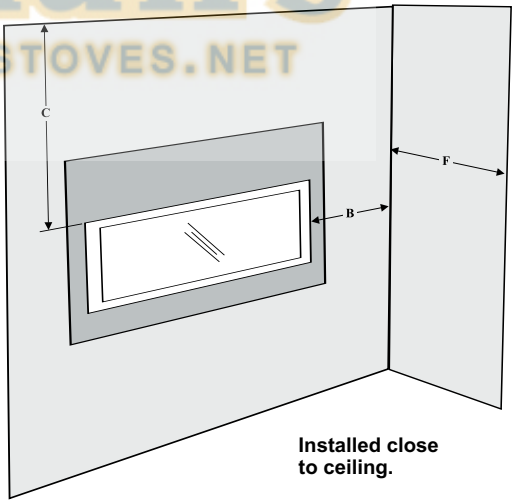
Heat Release Kit

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

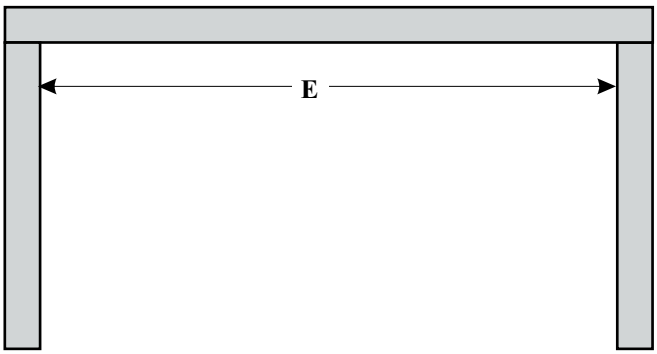
Flue Clearances to Combustibles	
Horizontal - Top	3"
Horiztonal - Side	2"
Horiztonal - Bottom	2"
Vertical	2"
Passing through wall/ floor/ceiling - when firestop is used.	1-1/2"



Installed Close



Installed close to ceiling.

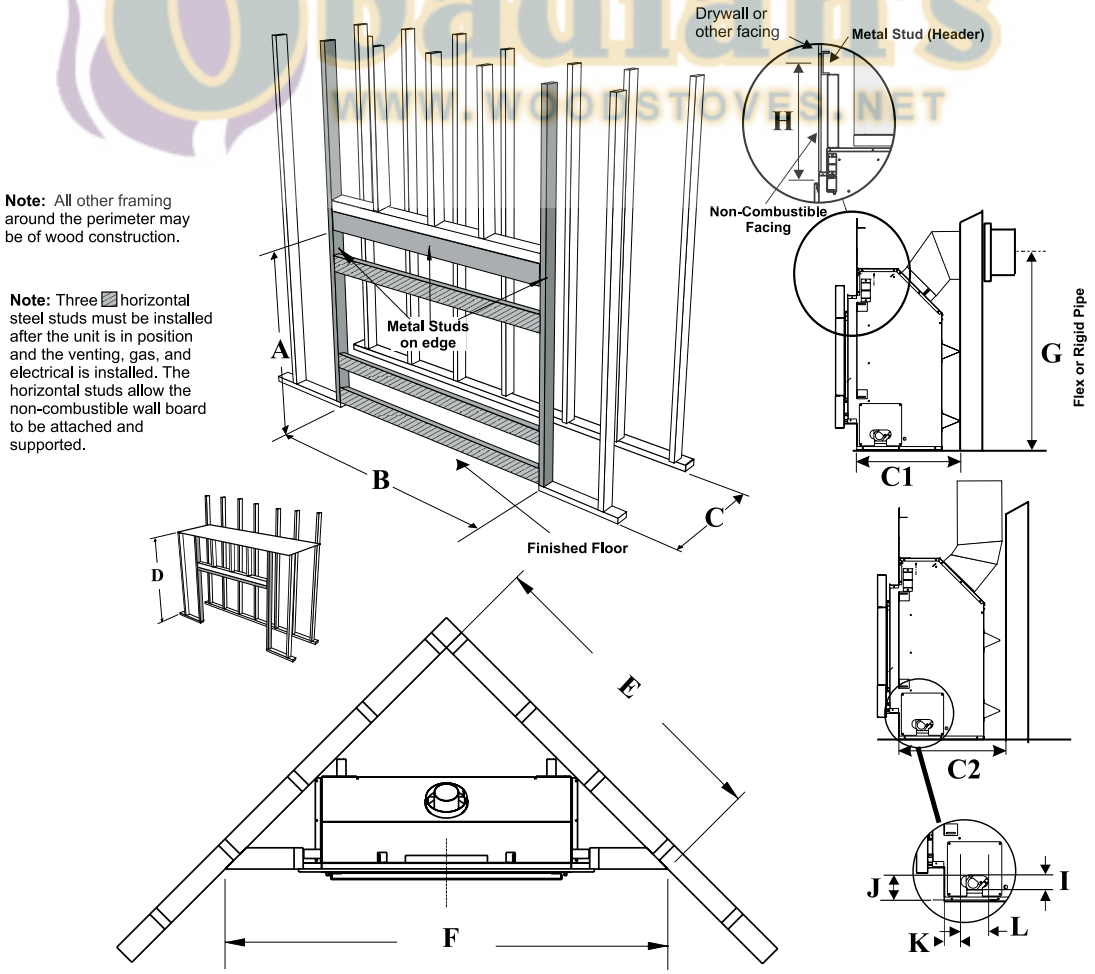


FRAMING DIMENSIONS

NOTE: If not purchasing the optional steel stud kit - adhere to the same framing if purchasing steel studs elsewhere. The use of the optional kit is highly recommended as it was designed specifically for the product to facilitate ease of installation.

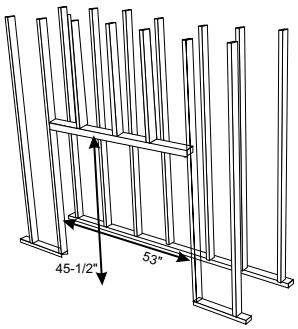
Framing Dimensions	Description	HZ40E-10
A	Framing Height	42” (1067mm)
B	Framing Width	49-7/8" (1266mm)
C*	Framing Depth*	**C1** Horizontal Vent 21-3/16" (538mm) **C2** Vertical Vent 25-3/16" (640mm) Vertical rise -terminating horizontal
D	Minimum Height to Combustibles	43-7/8" (1004mm)
E	Corner Wall Depth	61" (1549mm)
F	Corner Facing Wall Width	86-1/4" (2191mm)
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 3-1/4” to allow for varying thicknesses in non-combustible material & wall finishes.

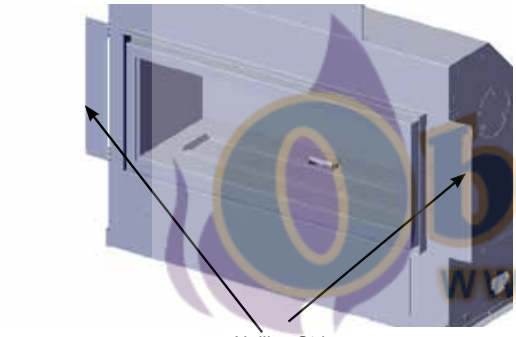


OPTIONAL FRAMING KIT

1. Construct the wood framing, ensure inside dimensions are 53"W x 45-1/2"H as shown below.



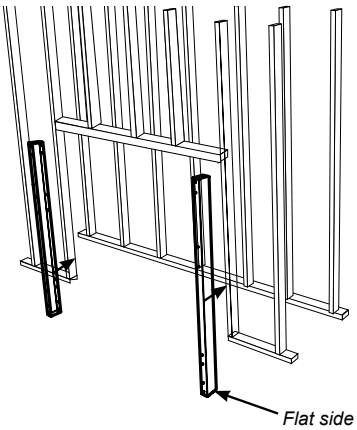
2. Bend both side nailing strips from the side of the appliance until positioned as shown below.
Determine the overall combined thickness of the non-combustible board + finished material being used. The nailing strips can be adjusted up to 3-1/4".



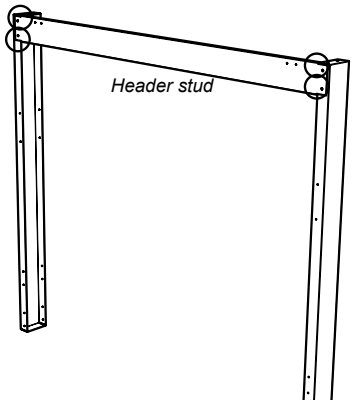
3. Adjust the nailing strips by loosening 2 screws on each nailing strip - adjust and retighten screws.

4. Attach both vertical studs and secure using 6 screws (2 at bottom, 2 at top and 2 on sides) as shown.

NOTE: Ensure the flat side of the steel stud is facing the wood framing.



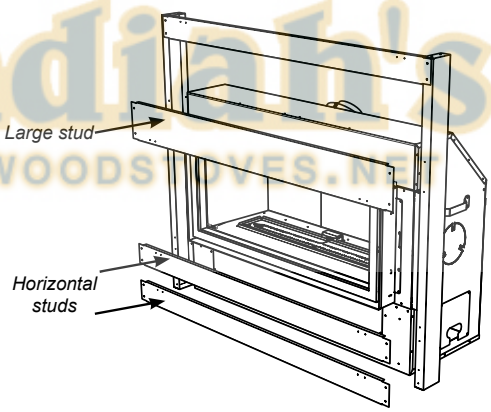
5. Secure horizontal steel header stud with 2 screws per side as per diagram.



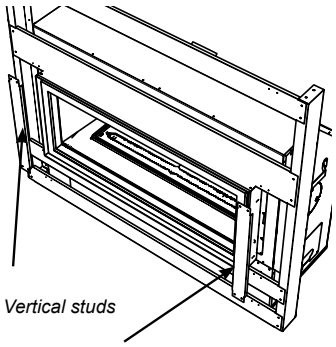
6. Slide the unit into position. Hook up gas, venting, electrical and fan (if purchased) prior to installing the remaining steel studs.

7. Secure the large horizontal steel studs as shown with 2 screws per side.

8. Secure 2 horizontal studs on the lower side of the appliance with 2 screws per side for each stud as shown.



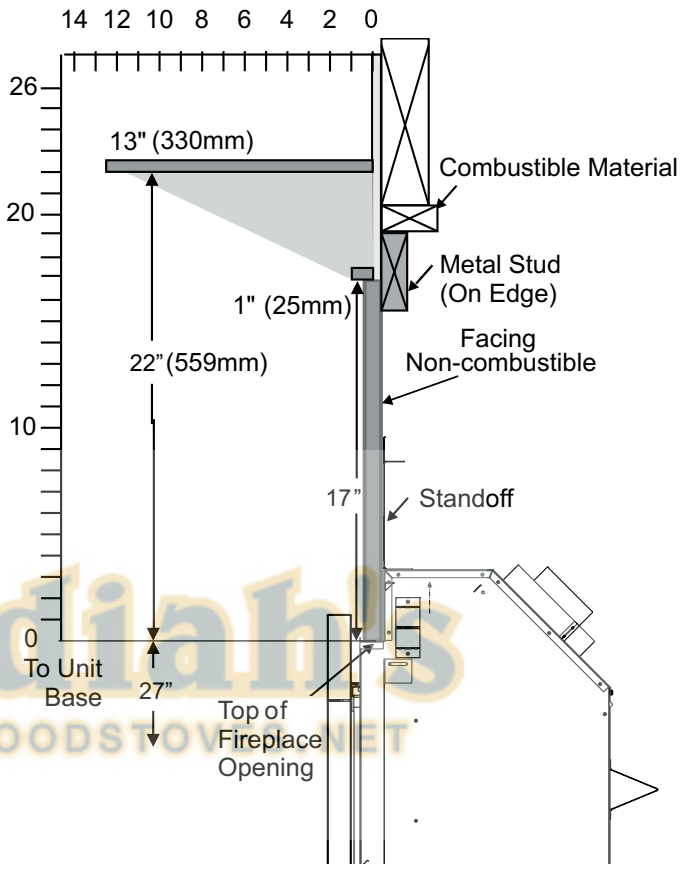
9. Secure 2 vertical studs on either side of the appliance with 4 screws per side stud as shown.



MANTEL CLEARANCES

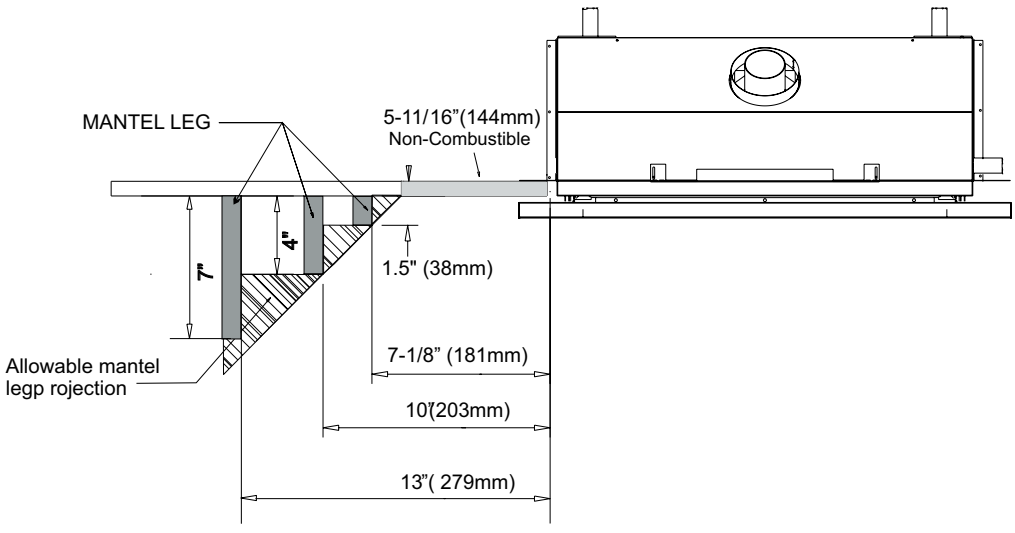
Due to the extreme heat this fireplace emits, the mantel clearances are critical. Combustible mantel clearances from top of front facing are shown in the diagram on the right.

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



MANTEL LEG CLEARANCES

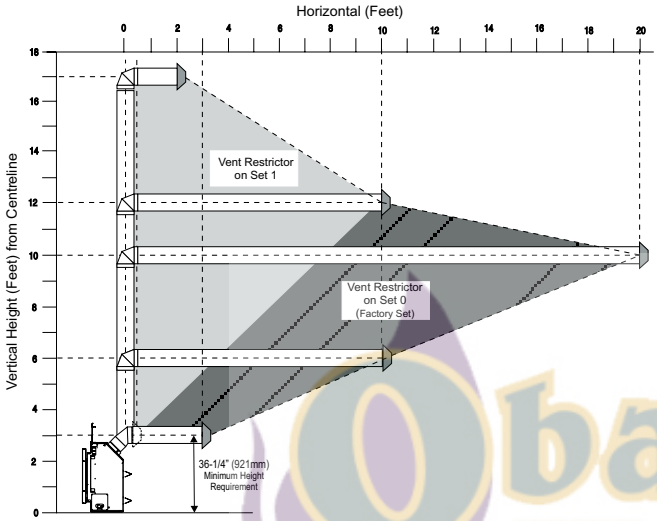
Combustible mantel leg clearances as per diagram:



VENTING ARRANGEMENT FOR HORIZONTAL TERMINATIONS

The diagram shows all allowable combinations of vertical runs with horizontal terminations, using one 90° (two 45° elbows equal one 90° elbow). (Not including the starting 45° 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.



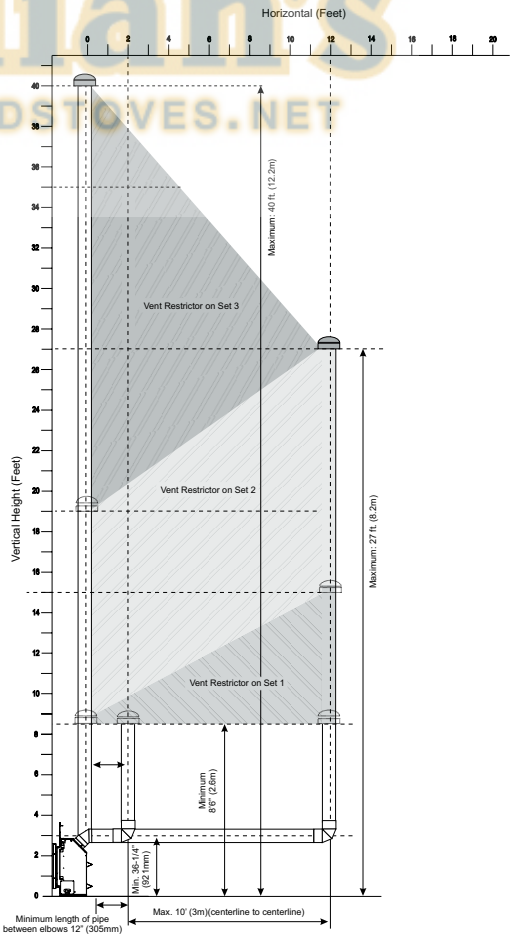
VENTING ARRANGEMENT FOR VERTICAL TERMINATIONS

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

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

Two 45° elbows equal to one 90° elbow, not including the starting 45° 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.**

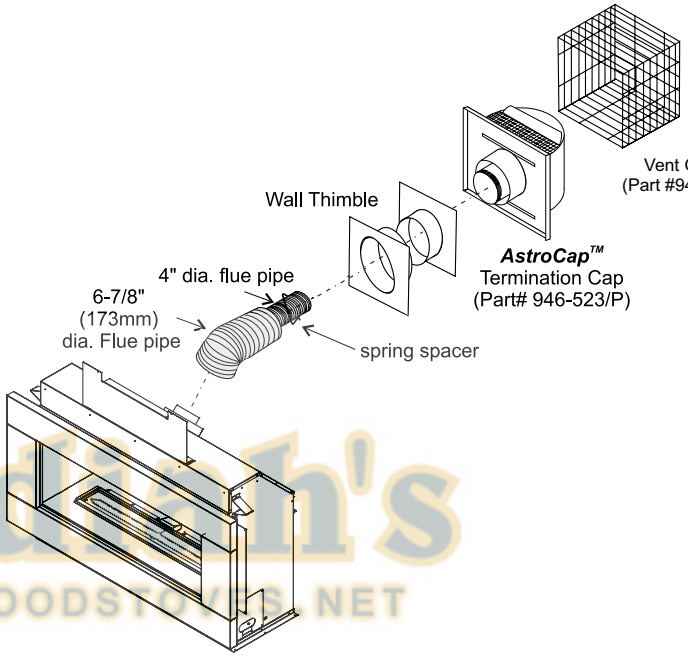


HORIZONTAL TERMINATIONS
FLEX VENT 4" X 6-7/8"

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