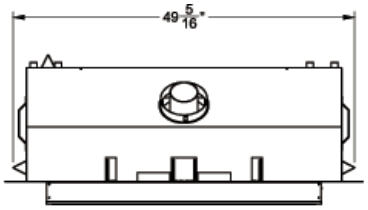
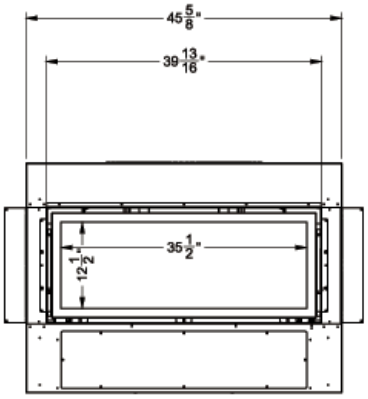
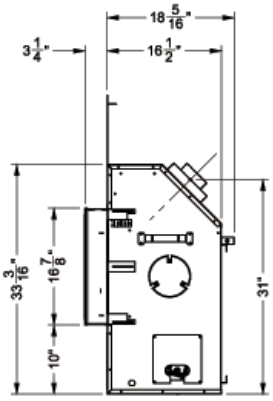
HZ40E Gas Fireplace

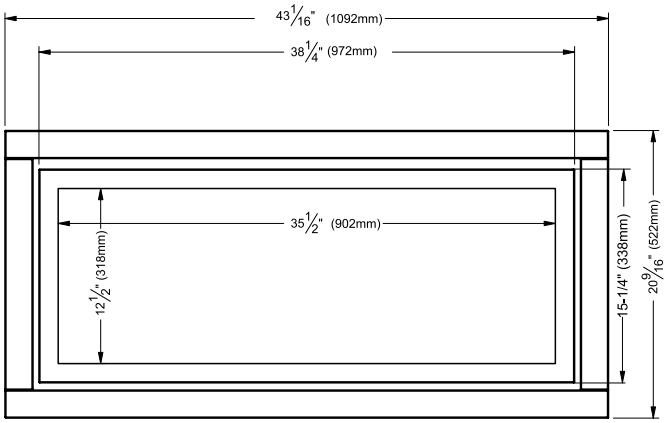
Model	HZ40E-NG11	HZ40E-LP11
Fuel Type	Natural Gas	Propane
Minimum Supply Pressure	5" W.C. (1.25 kPa)	11" W.C. (2.73 kPa)
Manifold Pressure - High	3.5" W.C. (0.87 kPa)	10" W.C. (2.48 kPa)
Manifold Pressure - Low	1.6" W.C. (0.41 kPa)	6.4" W.C. (1.59 kPa)
Orifice Size -**Altitude 0-4500 ft.**	#40 DMS	#53 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 - Flex / Rigid	4" Inner / 6-7/8" Outer	4" Inner / 6-7/8" Outer
CSA P.4.1	64.44%	66.75%

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**

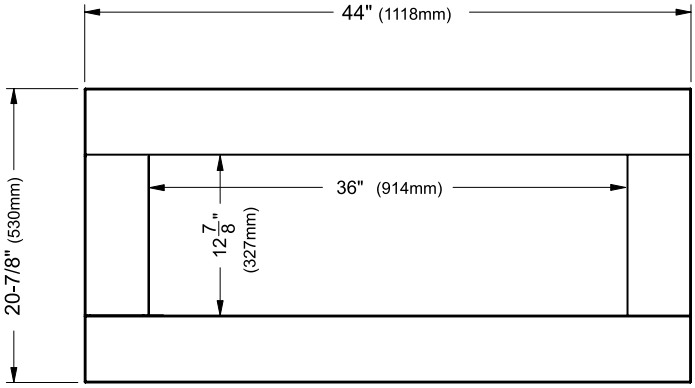








Inner and outer faceplate dimensions



4 piece faceplate/Verona Surround dimensions

REGENCY
FIREPLACE PRODUCTS

FRAMING DIMENSIONS

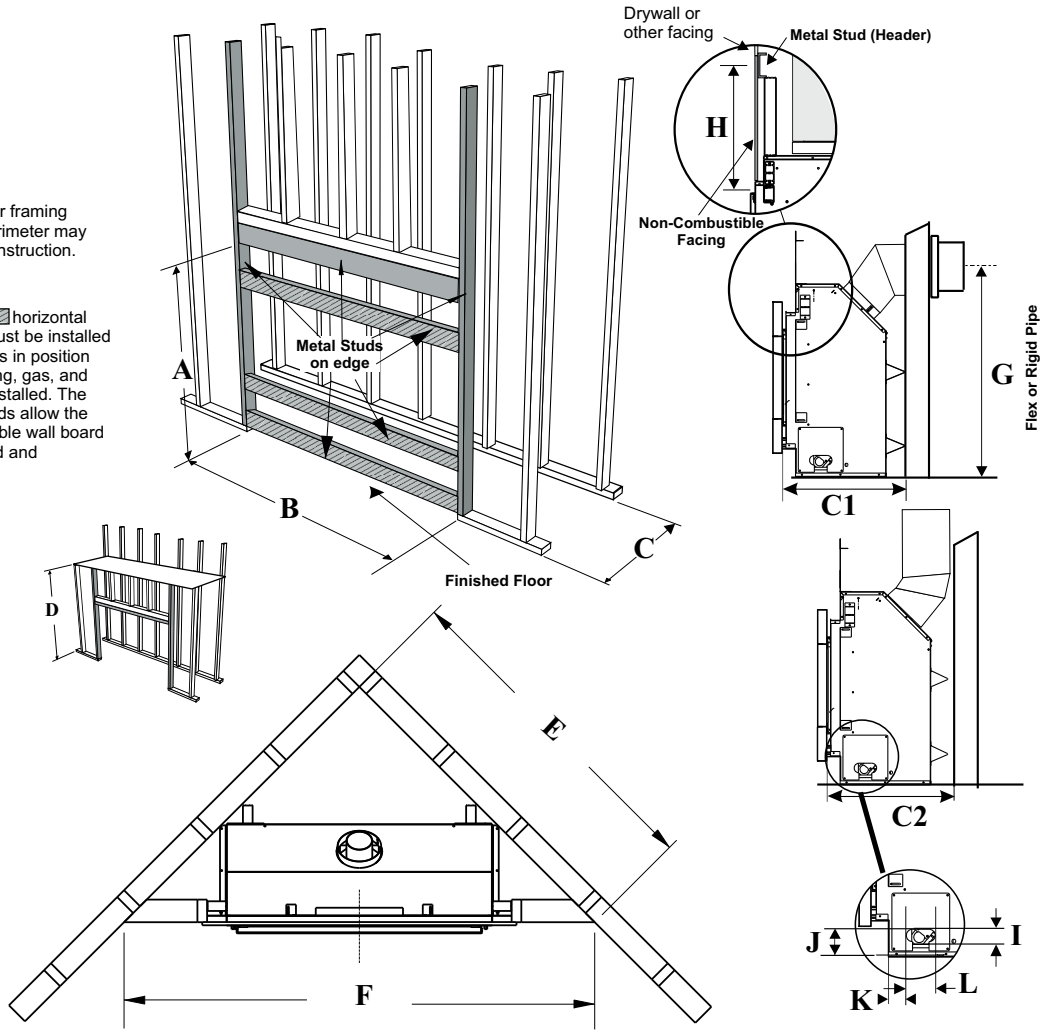
NOTE: If not purchasing the optional steel stud kit - adhere to the same framing if purchasing steel studs elsewhere. The use of the optional kit is highly recommended as it was designed specifically for the product to facilitate ease of installation.

Framing Dimensions	Description	HZ40E
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" (1114mm)
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.

Note: All other framing around the perimeter may be of wood construction.

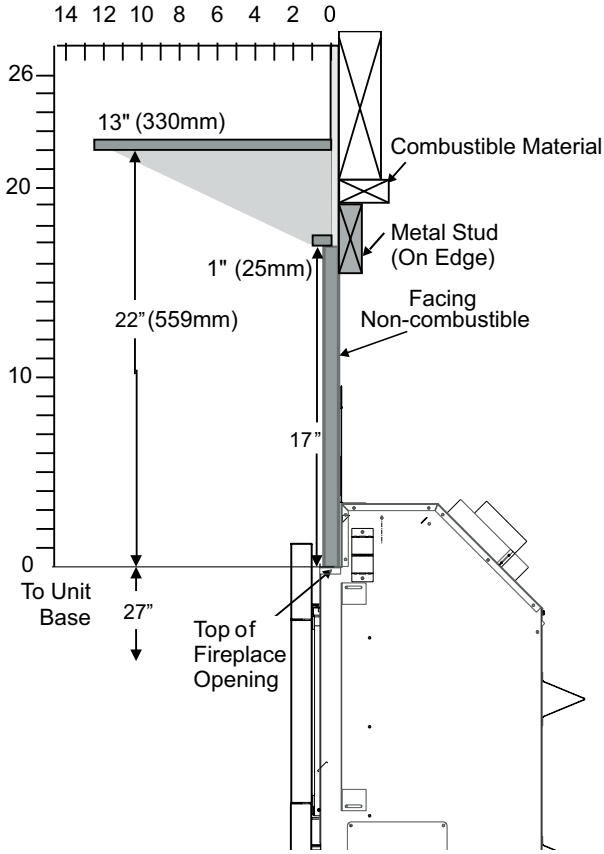
Note: Three ▨ horizontal steel studs must be installed after the unit is in position and the venting, gas, and electrical is installed. The horizontal studs allow the non-combustible wall board to be attached and supported.



MANTEL CLEARANCES

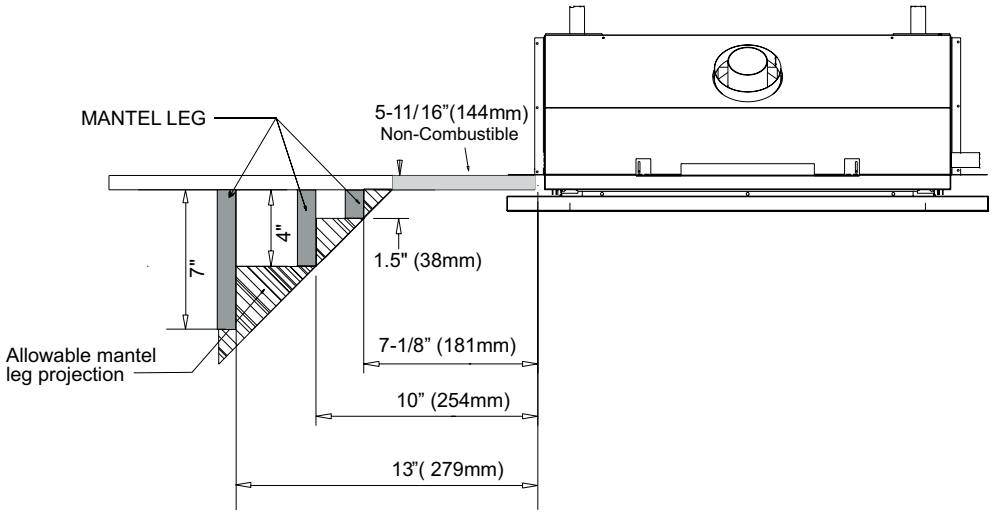
Due to the extreme heat this fireplace emits, the mantel clearances are critical.
Combustible mantel clearances from top of front facing are shown in the diagram on the right.

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:



REGENCY
FIREPLACE PRODUCTS

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.

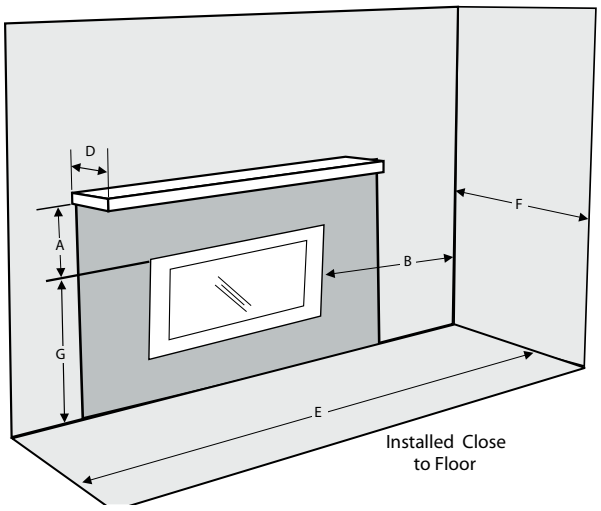
Heat Wave

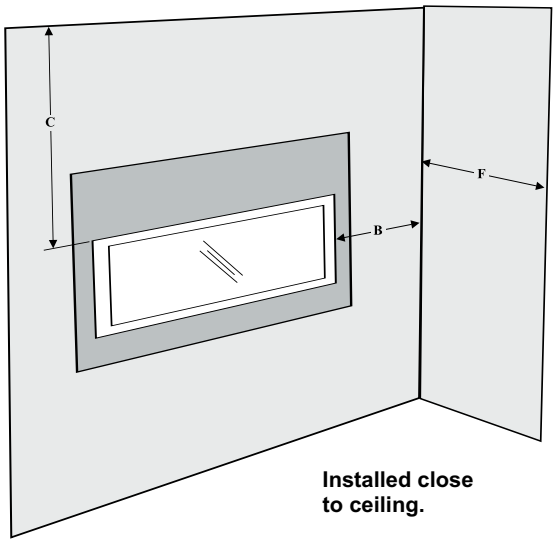
Heat Release Kit

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

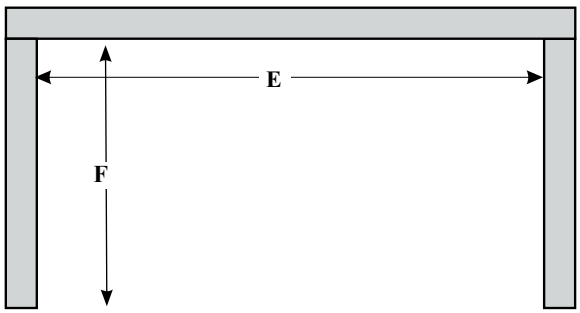
Clearance:	Dimension	Measured From:
A: Mantel Height (min.)	17" (330mm)	Top of Fireplace Opening
B: Sidewall (on one side)	8" (203mm)	Side of Fireplace Opening
C: Ceiling (room and/or alcove)	22" (559mm)	Top of Fireplace Opening
D: Mantel Depth (max.)	13" (330mm)	22" Above Fireplace Opening
E: Alcove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





Installed close to ceiling.



Alcove

NON-COMBUSTIBLE REQUIREMENTS

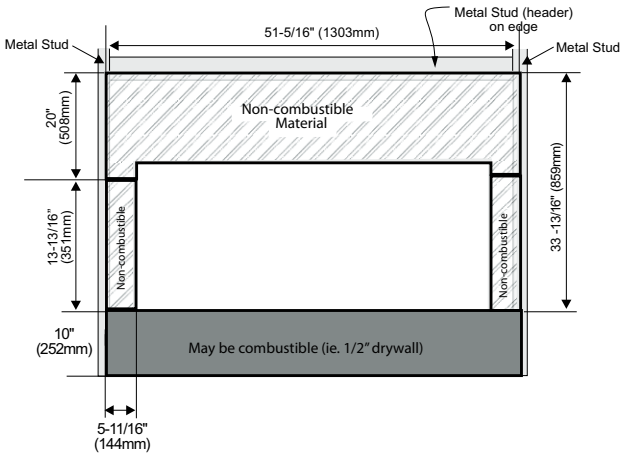
*** Installation of the Receiver must be completed before installing non-combustible facing.**

All three pieces (top, 2 sides) are supplied to meet the non combustible requirements.

Calcium silicate board is a high - grade material with cement, quartz, natural and selected minerals as the main raw materials. It is widely used for partitions and ceilings in buildings. It is fire proof and earthquake proof.

If finishing the wall above the unit with materials such as tile, brick, marble, etc. non-combustible board available from the building supply store can be used.

Note: Calcium Silicate is 1/2' thick



NON-COMBUSTIBLE FACING INSTALLATION

Caution: The non-combustible board supplied with this unit can be damaged if dropped or struck. **Handle with care**.

1. Using drywall screws **-** secure non combustible material around unit, framing and top nailing strip every 6 inches.

Important Note: To avoid cracking the board - pre-drill holes prior to securing to unit/ framing.

2. Wipe any debris/dust from the non combustible material and drywall.

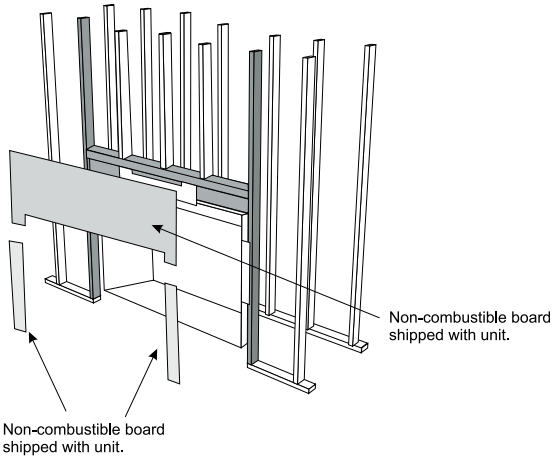
3. Prior to securing it is mandatory to prime the facing and edges using a quality primer. This will ensure proper adhesion of both the tape and mud. The supplied board is very porous. Failure to follow this procedure will result in cracked seams.

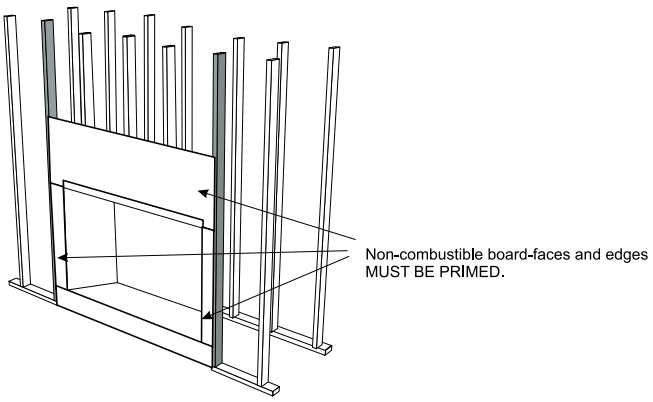
4. Tape the seams using a mesh type tape.

5. Mud seams as normal. We recommend using a product called Durabond high strength compound - for the first coat.
This product can be found at most hardware stores.
Mud must be cured as per manufacturer's recommendations.

6. Prime wall for a second time for proper adhesion of paint

7. Paint walls using a high quality paint which will withstand the high temperatures being emitted from this appliance.





FRAMING & FINISHING

1. Frame in the enclosure for the unit with framing material.

IMPORTANT: The framed opening must be of non-combustible material.

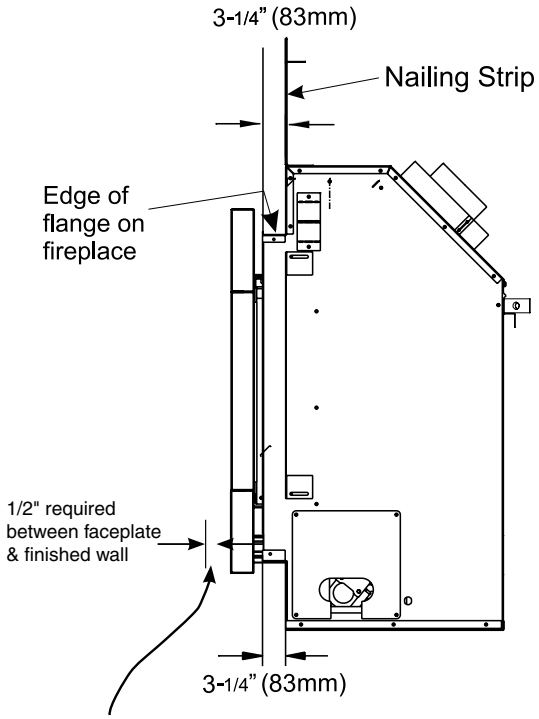
Note: When constructing the framed opening, please ensure there is access to install the gas lines when the unit is installed.

2. 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.)**

WARNING: Failure to insulate and add vapor barriers to the inside of the exterior wall will result in operational and performance problems including, but not limited to: excessive condensation on glass doors, poor flame package, carbon, blue flames etc. These are not product related issues.

3. The unit does not have to be completely enclosed in a chase. You must maintain clearances from the vent to combustible materials: See "Clearances" section. Combustible materials can be laid against the side and back standoffs and the stove base.

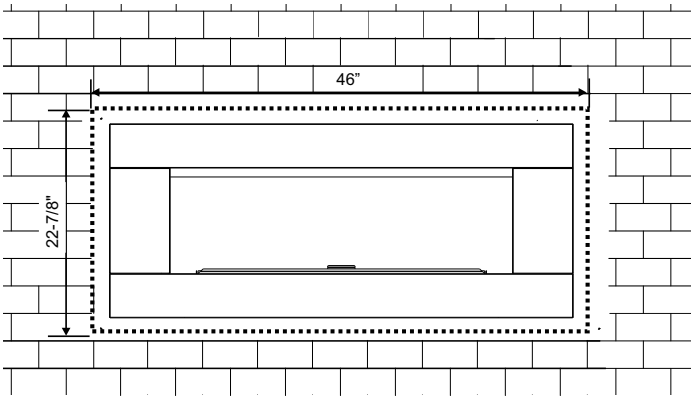
4. Non-combustible material (ie. tile, slate, etc) may be brought up to and overlap the unit (top and bottom) ensuring that the maximum thickness does not go beyond the 3-1/4" as shown in the diagram below. The faceplate will not be able to be mounted if finished material is beyond 3-1/4" .



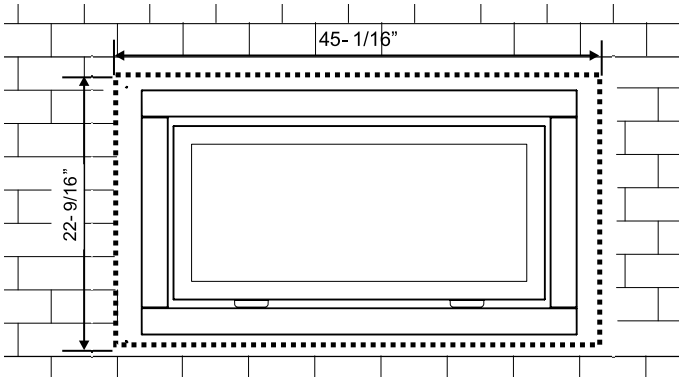
IMPORTANT: 1/2" gap is required between the faceplate and the finished wall when using 4 piece Faceplate (Part # 258-954, 258-957) or Verona Glass Surround (Part # 256-951, 256-957)

5. If material such as brick, stone, etc extends past the faceplate depth (3-1/4"), when finishing around the faceplate, the minimum opening dimensions noted below must be adhered to ensuring for the removal of the faceplate and for the safe operation of this appliance.

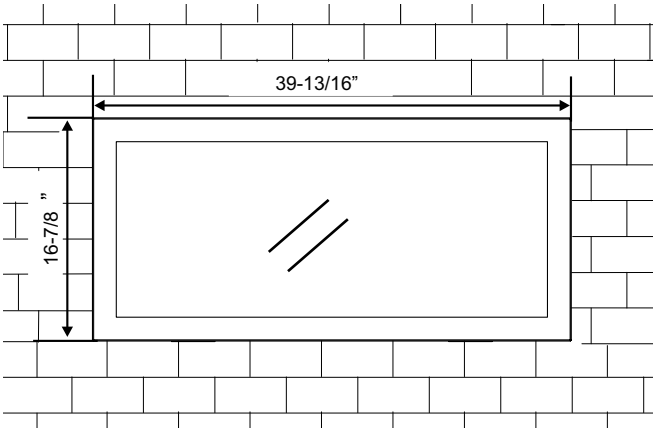
NOTE: Spacing of 1" around the completed surround must be adhered to.



Unit shown with 4 piece faceplate/Verona Glass Surround



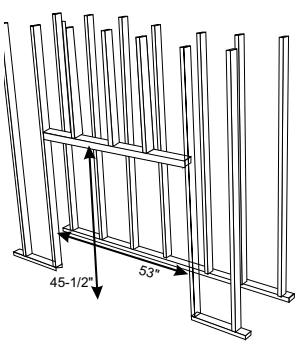
Unit shown with inner and outer door frame

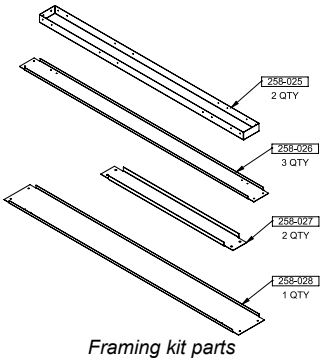


Unit shown with inner door frame only

OPTIONAL FRAMING KIT

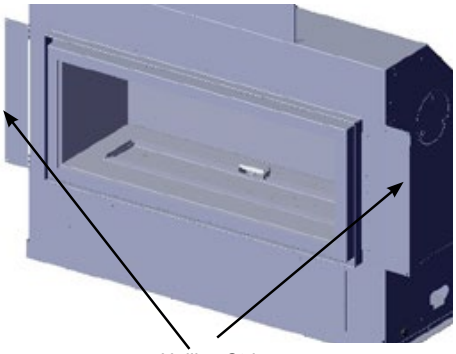
1. Construct the wood framing, ensure inside dimensions are 53"W x 45-1/2"H as shown below.





Framing kit parts

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".

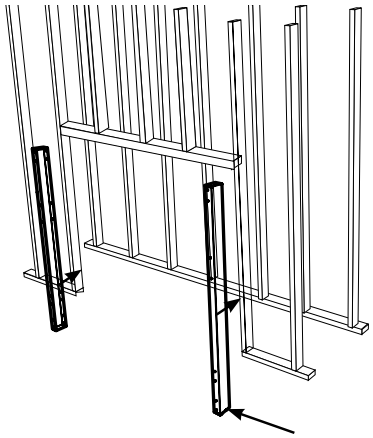


Nailing Strips

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

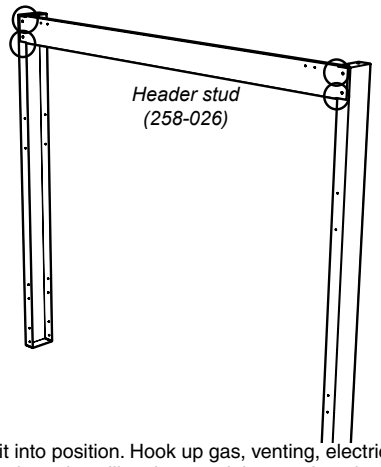
4. Attach both vertical studs and secure using 6 screws (2 at bottom, 2 at top and 2 on sides) as shown.

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



(258-025)Flat side out

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

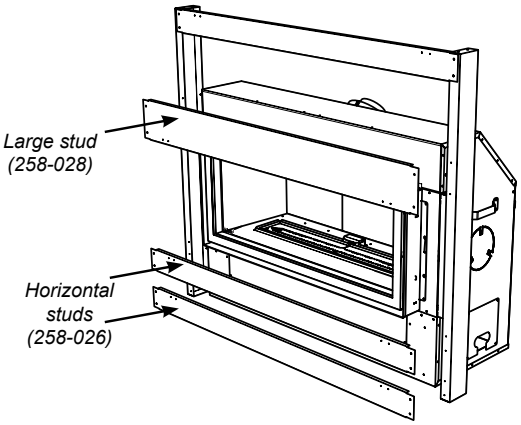


Header stud (258-026)

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 stud as shown with 2 screws per side.

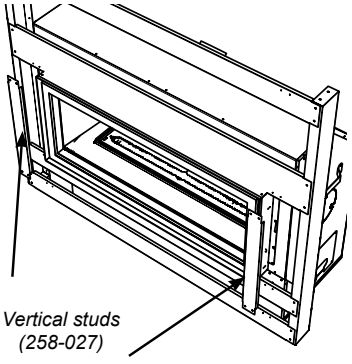
8. Secure 2 horizontal studs on the lower side of the appliance with 2 screws per side for each stud as shown.



Large stud (258-028)

Horizontal studs (258-026)

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

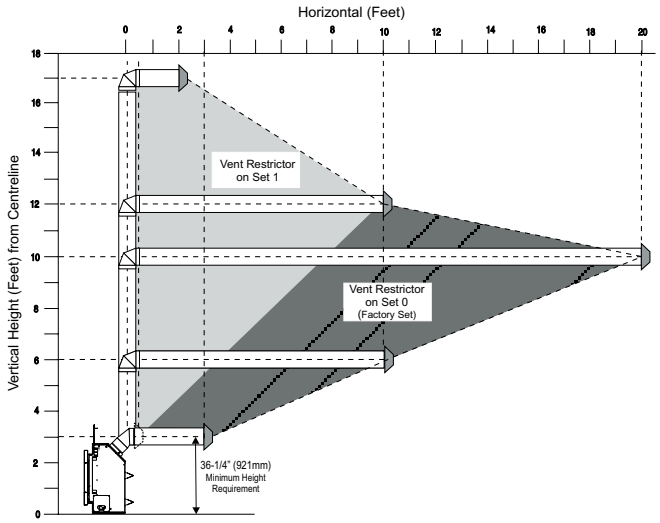


Vertical studs (258-027)

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 adaptor (Part# 510-994) when using Rigid Pipe Venting Systems.



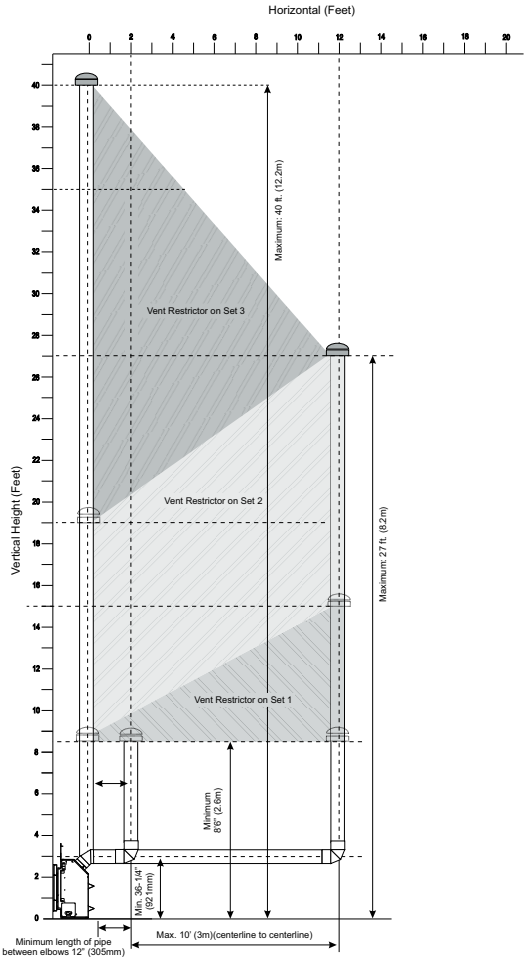
VENTING ARRANGEMENT FOR VERTICAL TERMINATIONS

Vertical Venting with One (1) 90° Elbow (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.

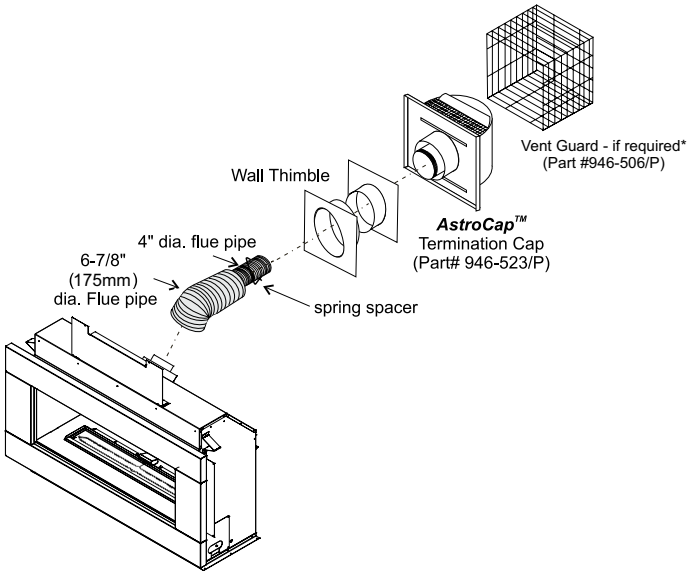


HORIZONTAL TERMINATIONS
FLEX VENT 4" X 6-7/8"

These venting systems, in combination with the HZ40E Direct Vent Gas Fireplace, has been tested and listed as a direct vent heater system by Intertek. The location of the termination cap must conform to the requirements in the Vent Terminal Locations diagram in "Exterior Vent Termination Locations" section.

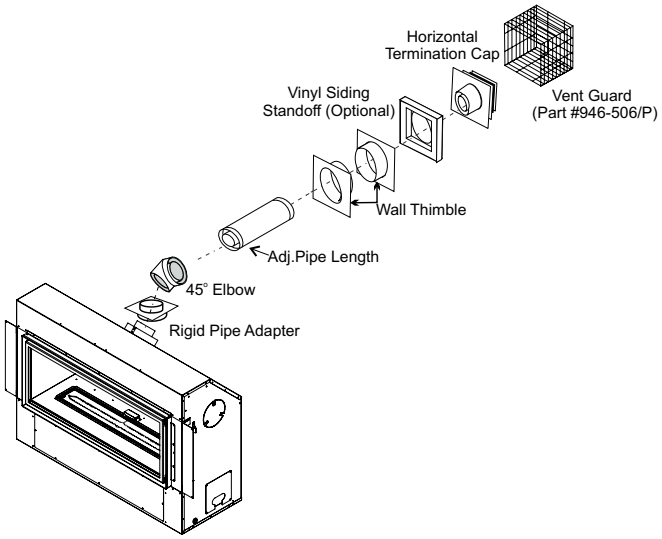
Regency® Direct Vent (Flex) System Termination Kits includes all the parts needed to install the HZ40E using a flexible vent.

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



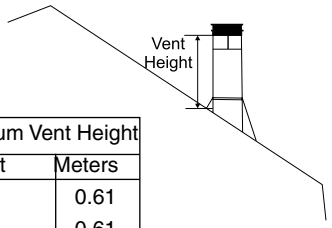
REGENCY
FIREPLACE PRODUCTS

VERTICAL TERMINATIONS
RIGID PIPE 4" X 6-5/8"

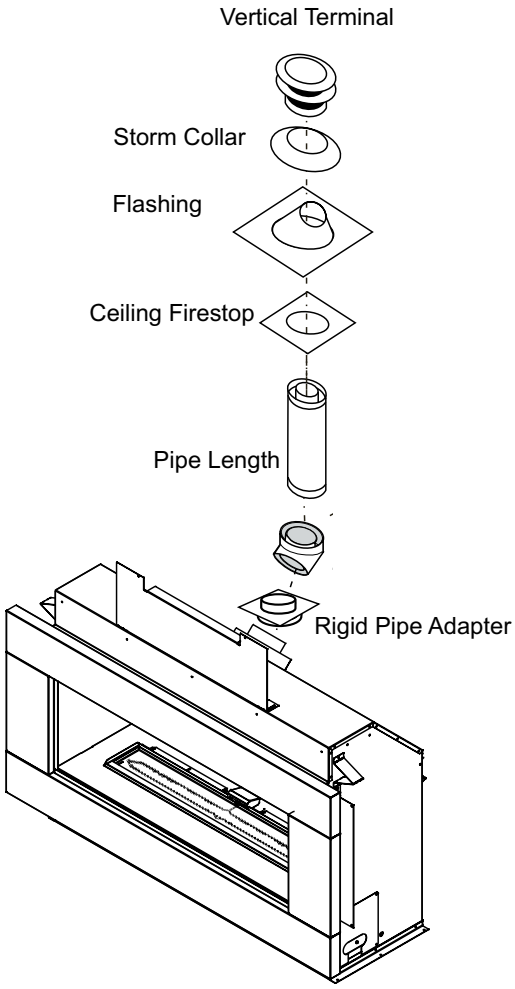
The minimum components required for a basic vertical termination are:

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 roof line 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 chart below 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.

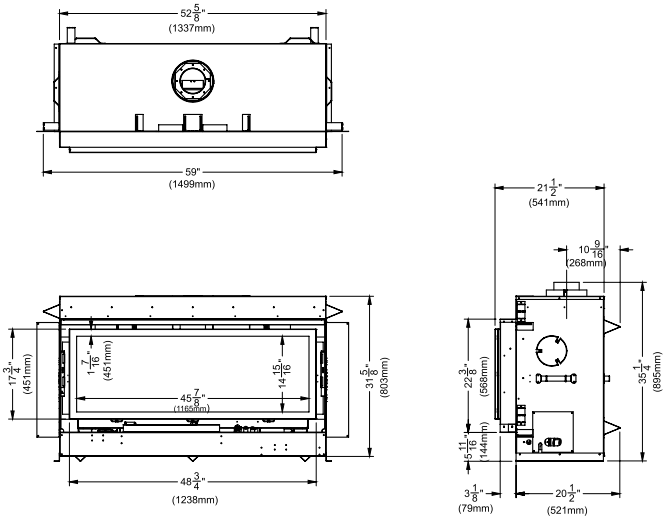
The FPI AstroCap™ and FPI Riser Vent terminal are certified for installations using FPI venting systems as well as Simpson Dura-Vent® Direct Vent, American Metal Products Ameri Vent Direct Vent, Security Secure Vent®, ICC Excel, Selkirk Direct-Temp. AstroCap™ is a proprietary trademark of FPI Fireplace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

HZ54E Gas Fireplace

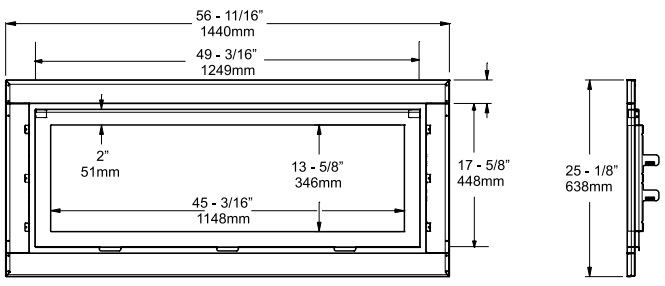
Model	HZ54E-NG11	HZ54E-LP11
Fuel Type	Natural Gas	Propane Gas
Minimum Supply Pressure	5" W.C.(1.25 kPa)	12" W.C. (2.98 kPa)
Manifold Pressure - High	3.5" W.C. (0.87 kPa)	10" W.C. (2.49 kPa)
Manifold Pressure - Low	1.6" W.C. (0.40 kPa)	6.4" W.C. (1.59 kPa)
Orifice Size	#30 DMS	#49 DMS
Minimum Input **Altitude 0-4500 ft. (0-1372m)**	29,000 BTU/h (8.50 kW)	30,000 BTU/h (8.79kW)
Maximum Input **Altitude 0-4500 ft. (0-1372m)**	41,500 BTU/h (12.16 kW)	37,000 BTU/h (10.84 kW)
Vent Sizing	5" Inner / 8" Outer	5" Inner / 8" Outer
CSA P.4.1	64.45%	67.72%

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 Direct**

Unit Dimensions:



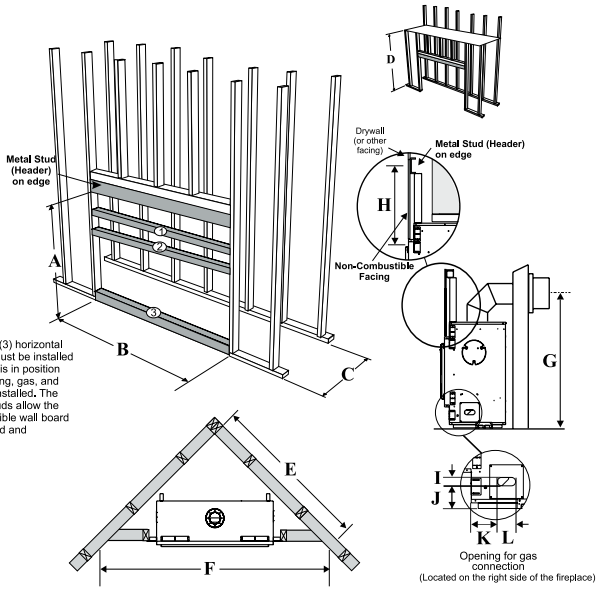
Faceplate & Door Frame Dimensions:



Framing Dimensions:

Framing Dimensions	Description	HZ54E-11
A	Framing Height	46-5/8"
B	Framing Width	60"
C*	Framing Depth*	23-3/4"
D	Minimum Height to Combustibles	51"
E	Corner Wall Depth	69"
F	Corner Facing Wall Width	97-9/16"
G	Vent Centerline Height	44"
R	Non-combustible Facing Height	20"
S	Gas Connection Opening Height	1-1/2"
T	Gas Connection Height	4"
U	Gas Connection Inset	7-1/4"
V	Gas Connection Opening Width	3-1/4"

* Framing depth measurement is noted with the side nailing strips set as far forward on firebox as possible. The side nailing strips can be adjusted back up to 3-1/8" to allow for varying thicknesses in non-combustible material & wall finishes.
Important: The minimum framing dimensions given for height, width and depth must be maintained even if using non combustible material. Dangerous operating conditions will occur if minimum framing dimensions are not adhered to.



Note: Three (3) horizontal steel studs must be installed after the unit is in position and the venting, gas, and electrical is installed. The horizontal studs allow the non-combustible wall board to be attached and supported.

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.

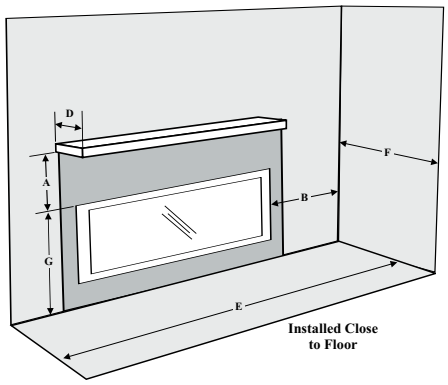
Clearance:	Dimension	Measured From:
A: Mantel Height (min.)	20" (508mm)	Top of Fireplace Opening
B: Sidewall (on one side)	4" (102mm)	Side of Fireplace Opening
C: Ceiling (room and/or alcove)	40-7/8" (1038mm)	Top of Fireplace Opening
D: Mantel Depth (max.)	13" (330mm)	30" Above Fireplace Opening
E: Alcove Width	83" (2108mm)	Sidewall to Sidewall (Minimum)
F: Alcove Depth	36" (914mm)	Front to Back Wall (Maximum)
G: To Floor	28 - 7/8" (733mm)	Top of Fireplace Opening
Note	0"	No hearth required

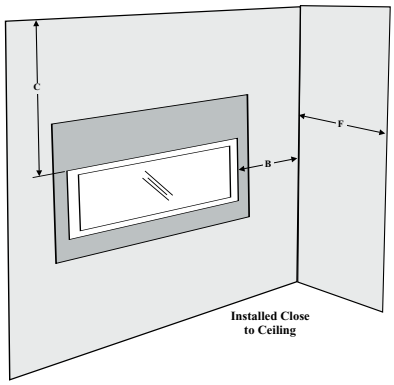
Heat Wave

Heat Release Kit

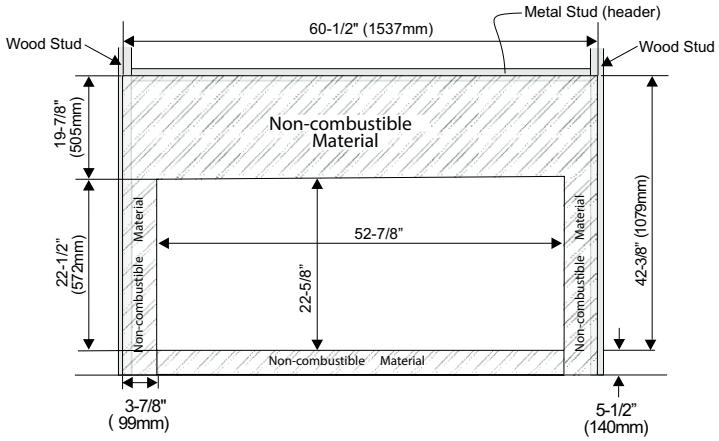
The ***HeatWave*** Duct Kit and the Heat Release Kit have different clearance and framing requirements, check the ***HeatWave*** and Heat Release manual for details.

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"



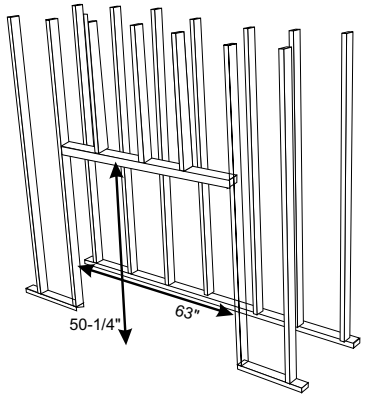


NON-COMBUSTIBLE REQUIREMENTS



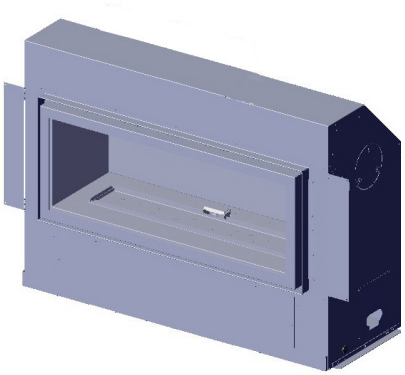
OPTIONAL FRAMING KIT

1. Construct the wood framing, ensure the inside dimensions are 63" W x 50-1/*4" H



2. Bend both nailing strips from the sides of the appliance until positioned as shown below.

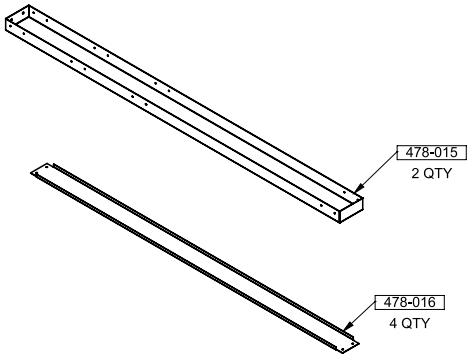
Determine the overall combined thickness of the non-combustible board +finished material being used. The nailing strips can be adjusted 3-1/8".

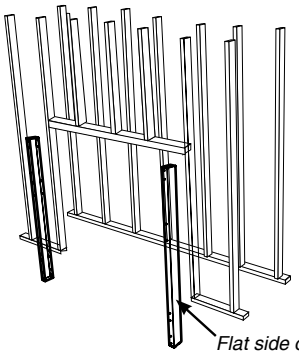


3. Adjust nailing strips by loosening 2 screws on each nailing strip - adjust and retighten the screws

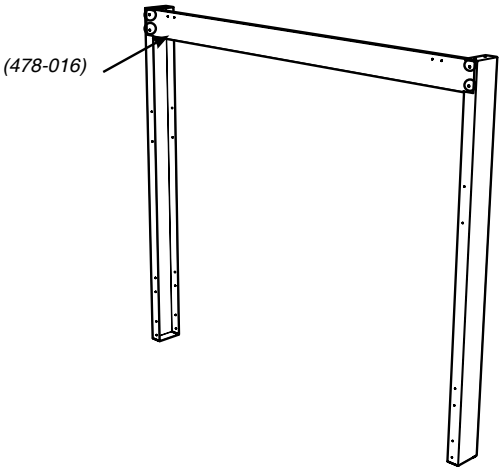
4. Attach both vertical studs *(478-015)* and secure using 6 screws (2 at bottom, 2 at top and 2 on the sides) as shown

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



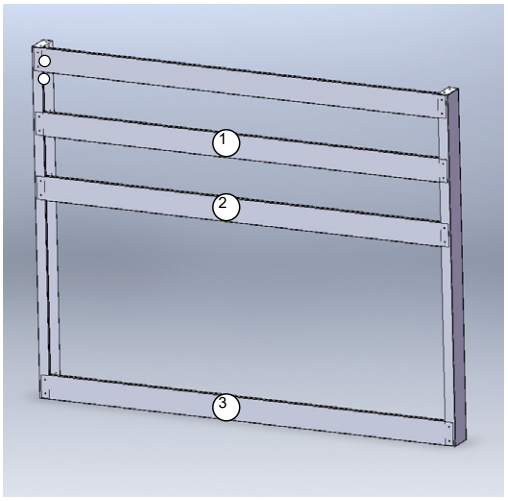


5. Secure horizontal steel header with 2 screws per diagram



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

7. Secure 3 horizontal steel studs *(478-016)* with 2 screws on each end. 2 at the top and one at the bottom as shown.



FRAMING & FINISHING

1) Frame in the enclosure for the unit with framing material.

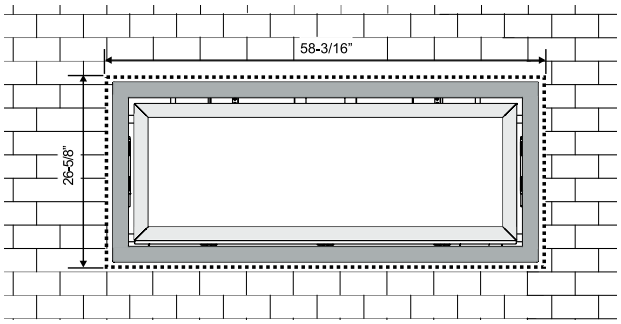
IMPORTANT: Header must be metal stud. All other framing may be of combustible type such as 2x4 / 2x6 framing materials.
Note: When constructing the framed opening, please ensure there is access to install the gas lines when the unit is installed.

2) 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.)**

WARNING: Failure to insulate and add vapor barriers to the inside of the exterior wall will result in operational and performance problems including, but not limited to: excessive condensation on glass doors, poor flame package, carbon, blue flames etc. These are not product related issues.

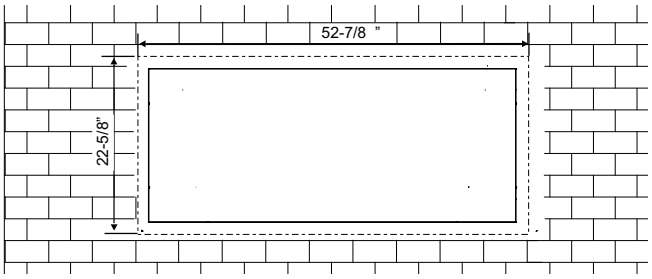
3) The unit does not have to be completely enclosed in a chase. You must maintain clearances from the vent to combustible materials: See "Clearances" section. Combustible materials can be laid against the side and back standoffs and the stove base.

4) When finishing around the faceplate, if material such as brick, stone, etc. extend past the faceplate depth due to the finished material exceeding 3-1/8" - the minimum opening dimensions noted below **must** be adhered to, this is to ensure removal of the faceplate.



Faceplate and Door Frame-Perfect Edge Design

For material such as brick, stone, etc that extends 3-1/8" or less , the minimum opening dimensions noted below must be adhered to when finishing around the unit. This is to ensure the removal of the faceplate and for the safe operation of this appliance.



Unit shown without faceplate for Illustrative purposes only

Important:

Determine the nailing strip position by determining the facing material being used.

Examples:

1/2" non-combustible wall board for clean finish = 2-5/8" adjustment.

1/2" non-combustible wall board + 1/2" tile = 1" of finished material
= 2-1/8" adjustment.

Note:

Depending on the material used for finishing, the nailing strips must be set accordingly so that the finished material is always at the 3-1/8" edge of the flange.

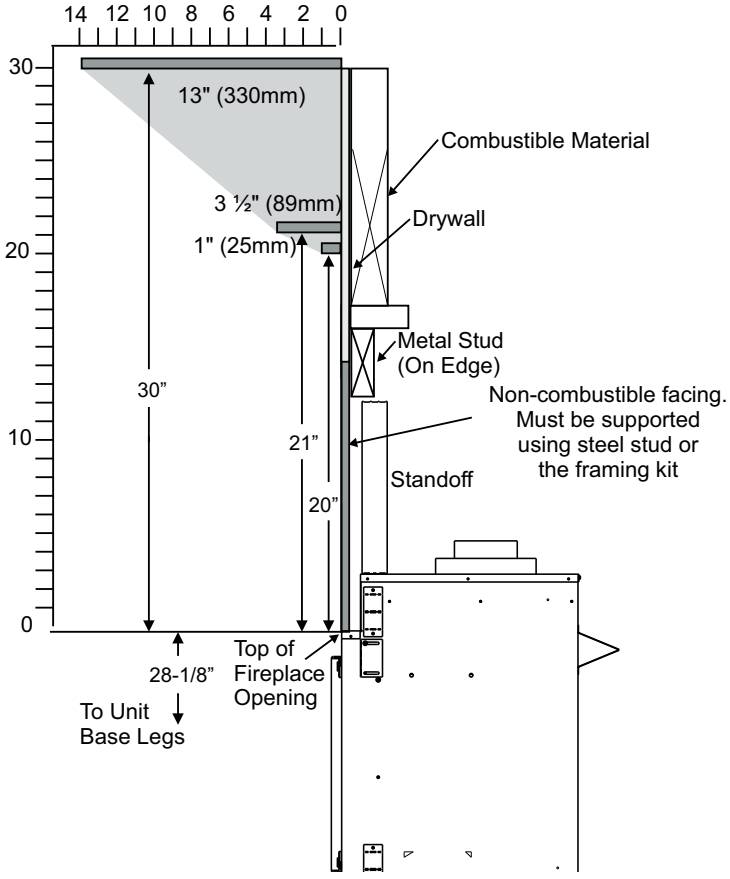
NOTE: The Verona Glass Surround (not shown) requires a: 60-1/16" W x 28- 5/8" H opening

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.

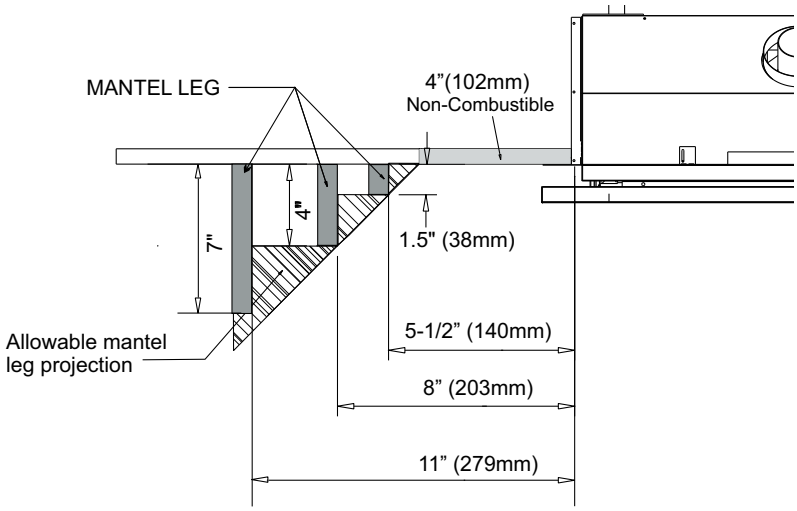
Note: A non-combustible mantel may be installed at a lower height if the framing is made of metal studs covered with a non-combustible board.

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



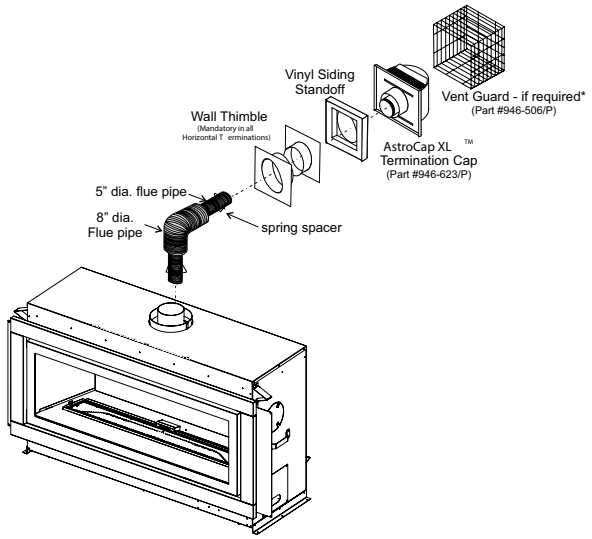
MANTEL LEG CLEARANCES

Combustible mantel leg clearances as per diagram:



These venting systems, in combination with the HZ54E, have been tested and listed as a direct vent system by Intertek. The location of the termination cap must conform to the requirements in the Vent Terminal Locations diagram from the “Exterior Vent Termination Locations” section.

FPI Kit #	Length	Contains:
#946-615	4 Feet	**1.** 8” flexible liner (Kit length) **2.** 5” flexible 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 **10.** vinyl siding standoff
#946-618	6 Feet	
#946-616	10 Feet	



Rigid Pipe Vent Systems offer a complete line of component parts for installation of both horizontal and vertical installations. Many items are offered in decorative black, as well as galvanized finish.

The minimum components required for a basic <u>Horizontal Termination</u> are:

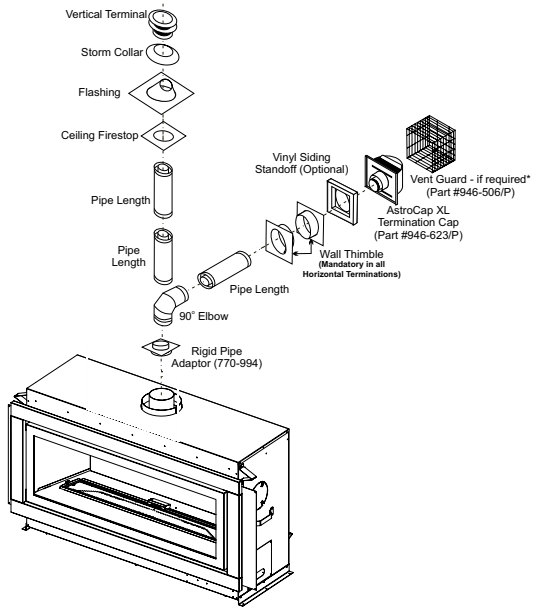
1 AstroCap XL Termination Cap
1 90º Elbow
1 Rigid Pipe Adaptor
1 Wall Thimble
1 Length of rigid pipe to suit wall thickness

The minimum components required for a basic <u>Vertical Termination</u> are:

1 Vertical Termination Cap
1 Rigid Pipe Adaptor
1 Lengths of pipe to adequately penetrate roof
1 Ceiling Firestop
1 Flashing
1 Storm Collar

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 a 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.



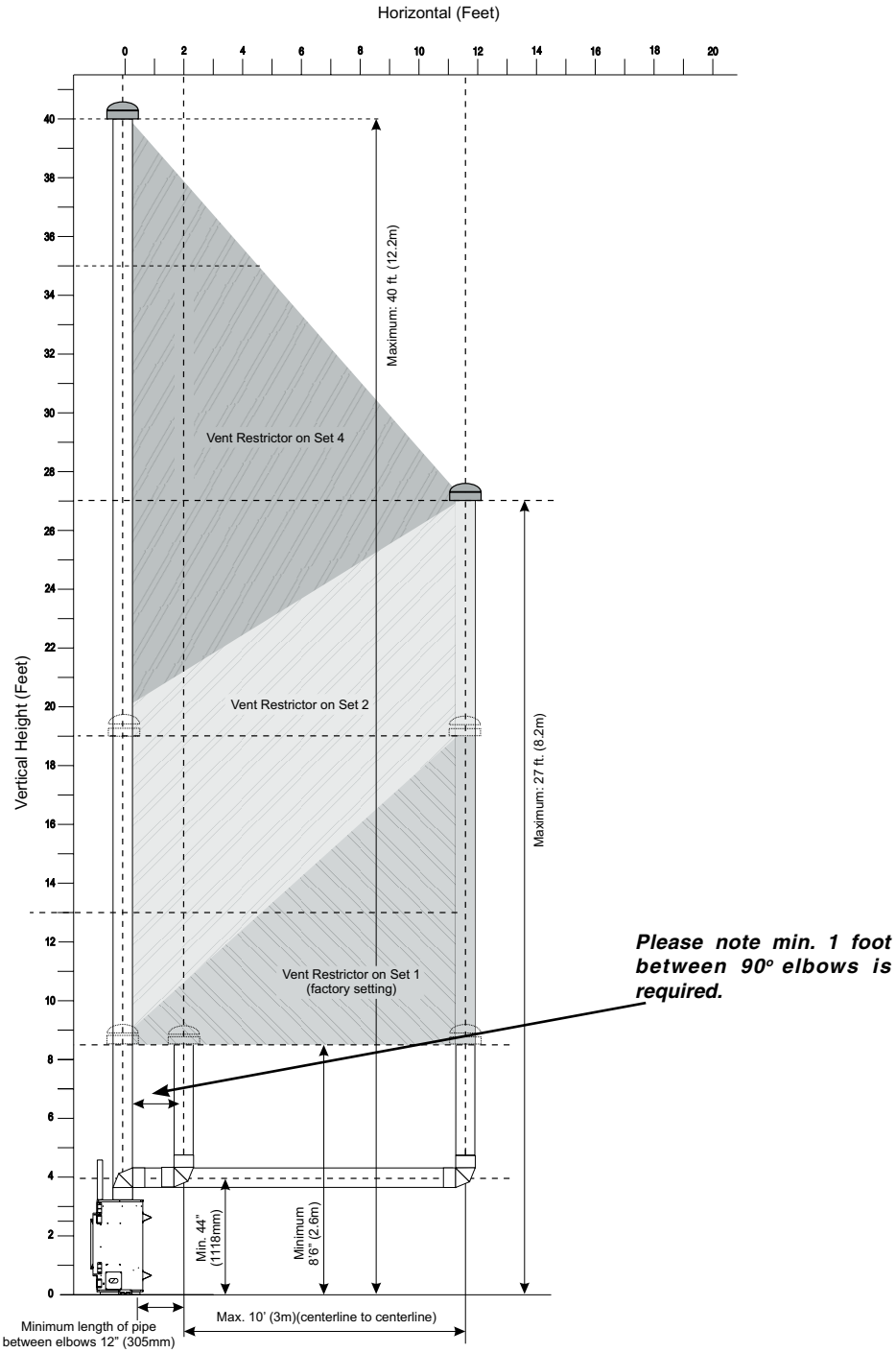
VENTING ARRANGEMENTS
ALLOWABLE VERTICAL TERMINATIONS FOR HZ54E-NG10

The shaded area in the diagram shows all allowable combinations of straight vertical and offset to vertical terminations, using two 90° elbows, with **Rigid Pipe Venting Systems** for Natural Gas. Two 45° elbows equal to one 90° elbow. Maximum of four 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.
- Refer to the "Vent Restrictor Position" section for details on how to change the vent restrictor from the factory setting of Set 1 to Set 2 or Set 4 if required.

Note: Must use optional flue adaptor when using Rigid Pipe (Part # 770-994)

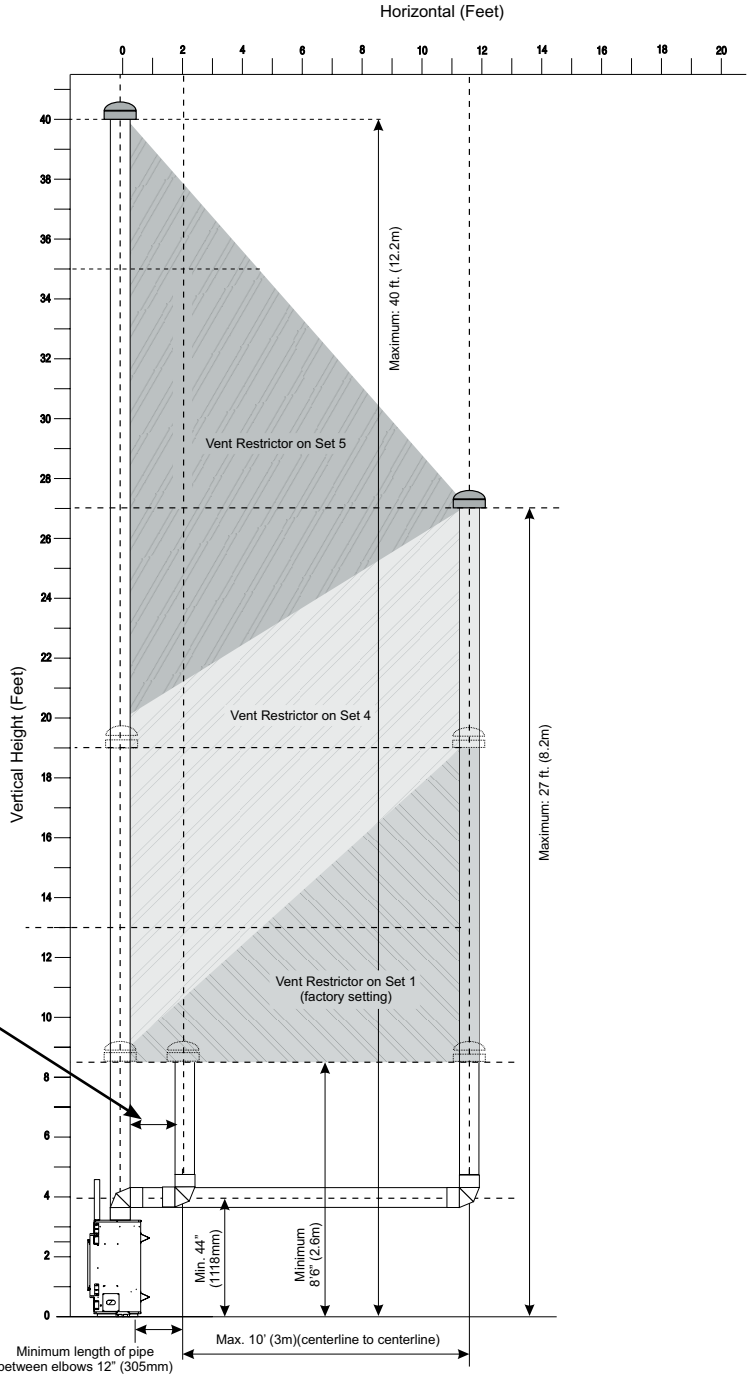


VENTING ARRANGEMENTS
ALLOWABLE VERTICAL TERMINATIONS FOR HZ54E-LP

The shaded area in the diagram shows all allowable combinations of straight vertical and offset to vertical terminations, using two 90º elbows, with **Rigid Pipe Venting Systems** for Propane. Two 45º elbows equal to one 90º elbow. Maximum of four 45º 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.
- Refer to the "Vent Restrictor Position" section for details on how to change the vent restrictor from the factory setting of Set 1 to Set 4 or Set 5 if required.

Note: Must use optional flue adaptor when using Rigid Pipe (Part # 770-994)



Please note min. 1 foot between 90º elbows is required.

Unit Installation with Horizontal Termination *(Rigid Vent Systems)*

A top clearance of 3"(76mm) and side & bottom clearance of 2"(51mm) must be maintained; except when passing through a wall, ceiling, or at the termination where the use of a firestop or wall thimble reduces the required clearance to 1-1/2" (38mm). We recommend framing a 11"(279mm) x 11"(279mm) (inside dimensions) hole to give structural rigidity for mounting the termination.

Install the vent system according to the manufacturer's instructions included with the components.

1) Set the unit in its desired location. Check to determine if wall studs or roof rafters are in the way when the venting system is attached. If this is the case, you may want to adjust the location of the unit. Rough in the gas preferably on the right side of the unit.

2) Direct Vent pipe and fittings are designed with special twist-lock connections to connect the venting system to the appliance flue outlet. A twist-lock appliance adaptor is required.

3) In conjunction with the Simpson Direct Vent Pro system, install the adaptor after the unit is set in its desired location. Put a bead of Mill-Pac inside the outer section of the adapter and on the inner collar. Slip the adapter over the existing inner and outer flue collar. Fasten to the outer collar only with the 3 supplied screws (drilling pilot holes will make this easier).

4) Level the fireplace and fasten it to the framing using nails or screws through the top and side nailing strips.

5) Assemble the desired combination of pipe and elbows to the appliance adaptor and twist-lock for a solid connection.

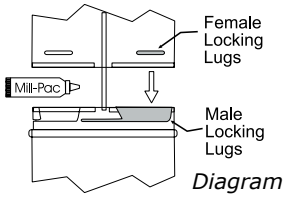


Diagram 1

Note: For best results and optimum performance with each approved venting system, it is highly recommended to apply "Mill-Pac" sealant (supplied) to every inner pipe connection. Failure to do so may result in drafting or performance issues not covered under warranty.

Horizontal runs of vent must be supported every 3 feet (0.9 meters). Wall straps are available for this purpose.

6) Mark the wall for a 11" x 11" (279mm x 279mm) square hole. The center of the square hole should line up with the center-line of the horizontal pipe. Cut and frame the 11 inch (279mm) square hole in the exterior wall where the vent will be terminated. See diagram 2 for center line requirements.

If the wall being penetrated is constructed of non-combustible material, i.e. masonry block or concrete, an 8" (203mm) diameter hole is acceptable.

Note:

a) The horizontal run of vent must be level, or have a 1/4 inch rise for every 1 foot of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a fire.

b) The location of the horizontal vent termination on an exterior wall must meet all local and national building codes, and must not be blocked or obstructed. See "Exterior Vent Termination Locations" section for more details.

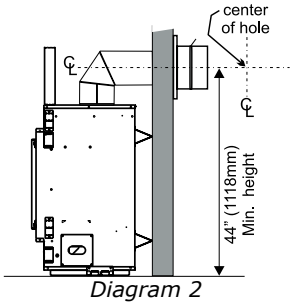


Diagram 2

c) **Snorkel Terminations:**
For installations requiring a vertical rise on the exterior of the building, 14-inch and 36-inch tall Snorkel Terminations are available, as well as the standard Riser Vent. Follow the same installation procedures as used for standard Horizontal Termination. NEVER install the snorkel upside down.

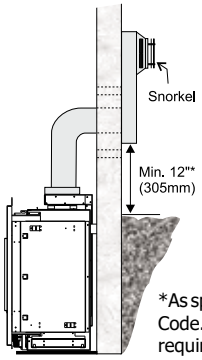
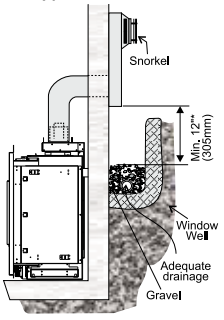


Diagram 3

*As specified in CSA B149.1 Installation Code. Local codes or regulations may require different clearances.

Below Grade Snorkel Installation
If the snorkel termination must be installed below grade, i.e. basement application, proper drainage must be provided to prevent water from entering the snorkel termination. See diagram 4. Do not attempt to enclose the snorkel within the wall or any other type of enclosure.

Diagram 4



7) Ensure that the pipe clearances to combustible materials are maintained (Diagram 5). Install the termination cap.

Note: When installing a appliance where the exterior of the house will be or is sided with vinyl siding, a vinyl siding standoff or furring strips must be used to ensure that the termination cap is not recessed into the siding. If there is no siding installed - install the vinyl siding standoff or furring strips to the exterior of the home where the termination cap is to be installed. Install the cap on the vinyl siding standoff or furring strips. J-channel can then be installed around the vinyl siding standoff, then the siding can be installed. If vinyl siding is already installed - line up the vinyl siding standoff or furring strips on the vinyl siding where the termination cap is to be installed, trace out the vinyl siding standoff or furring strips, then cut out and remove the vinyl. Install the standoff to the exterior of the home. Install the termination cap on the vinyl siding standoff or furring strips.

The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.

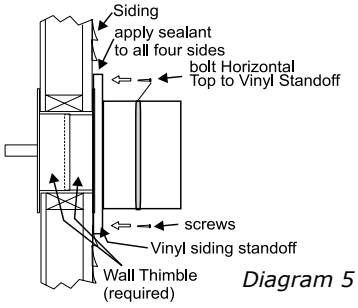


Diagram 5

8) Before connecting the horizontal run of vent pipe to the vent termination, slide the Wall Thimble over the vent pipe. The wall thimble is required for all horizontal terminations.

9) Slide the appliance and vent assembly towards the wall carefully inserting the vent pipe into the vent cap assembly. It is important that the vent pipe extends into the vent cap sufficient distance so as to result in a minimum pipe overlap of 1-1/4 inches (32mm). Secure the connection between the vent pipe and the vent cap.

10) Install wall thimble in the center of the 11" (279mm) square and attach with wood screws (Diagram 6).

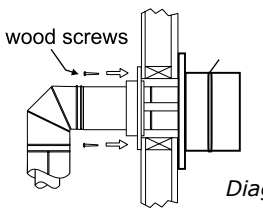


Diagram 6