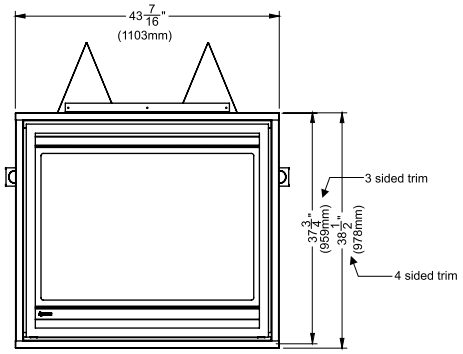
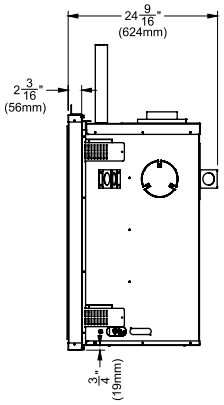
B41XTE Gas Fireplace

Model	B41XTE-NG11	B41XTE-LP11
Fuel Type	Natural Gas	Propane Gas
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	#30 DMS	#49 DMS
Minimum Input **Altitude 0-4500 ft. (0-1372m)**	30,000 BTU/h (8.79 kW)	29,500 BTU/h (8.65kW)
Maximum Input **Altitude 0-4500 ft. (0-1372m)**	42,500 BTU/h (12.45 kW)	37,500 BTU/h (10.99 kW)
Vent Sizing	5" Inner / 8" Outer	5" Inner / 8" Outer
CSA P.4.1 Fireplace Efficiency (FE)	68.15%	68.35%

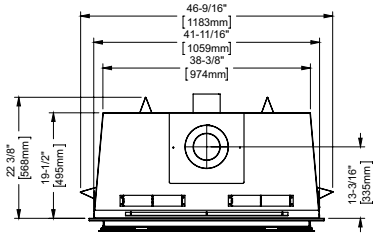
Approved Venting Systems	
Flex Vent Systems:	FPI AstroCap™ Flex Vent
Rigid Pipe Vent Systems:	Simpson Direct Vent Pro® Selkirk Direct-Temp™ Metal-Fab® Sure Seal ICC Excel Direct

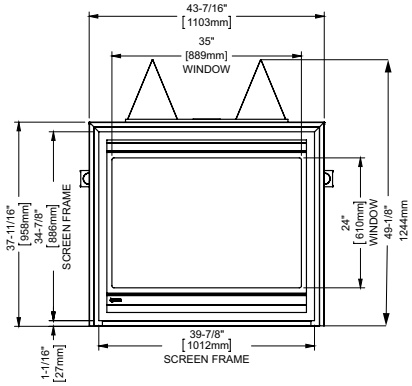
DIMENSIONS WITH VIGNETTE AND VIGNETTE FINISHING TRIM

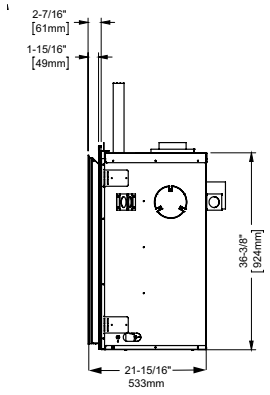




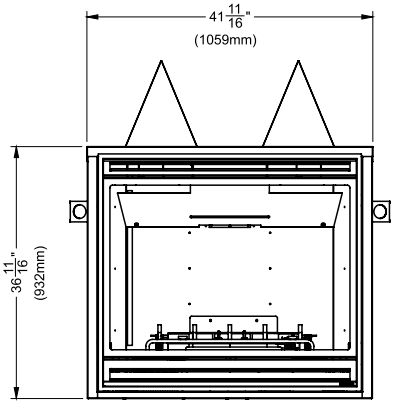
UNIT DIMENSIONS WITH VIGNETTE

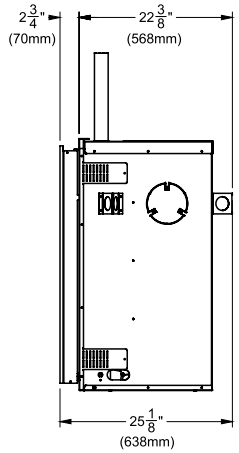






DIMENSIONS WITH FLUSH PANELS AND SAFETY SCREEN





Note: Gas connection is from the right hand side of the appliance & electrical connection on left hand side of the appliance. A metal receptacle box is supplied/ installed with the appliance to make all 120 volt electrical connections.

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.

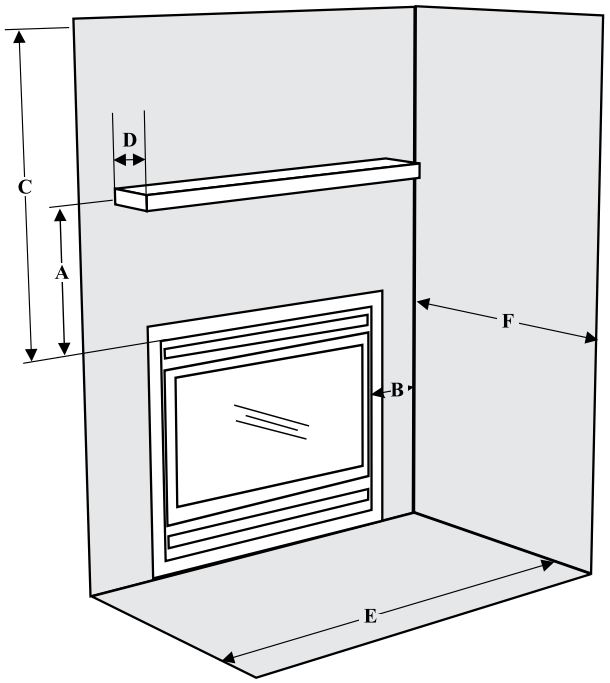
Caution Requirements
The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

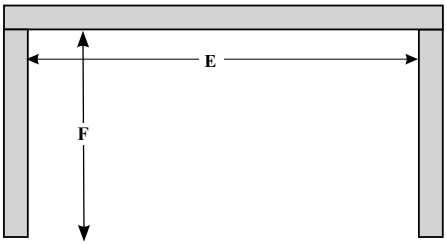
WARNING
Fire hazard is an extreme risk if these clearances (air space) to combustible materials are not adhered to. It is of greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

B41XTE Clearance Requirements

Clearance:	Dimension	Measured From:
A: Mantel Height (min.) with Flush Panels and Safety Screen	15" (381 mm)	Top of Fireplace Opening
A: Mantel Height (min.) with Vignette and Finishing Trim	24- 9/16" (624mm)	Top of Fireplace Opening
B: Sidewall	9" (229mm)	Side of Fireplace Opening
C: Ceiling	33-3/4" (933mm)	Top of Fireplace Opening
D: Mantel Depth (max.)	12" (304mm)	(See Dimension A) from Top of Fireplace Opening
E: Alcove Width	60" (1524mm)	Wall to Wall (Minimum)
F: Alcove Depth	36" (914mm)	Front to Back Wall (Maximum)
Notes:	0"	No Hearth Required

NOTE: A 16" deep (by the width of the appliance) non-combustible hearth pad is recommended when using hardwood flooring and carpet.





Alcove

Minimum Vent Clearances to Combustibles

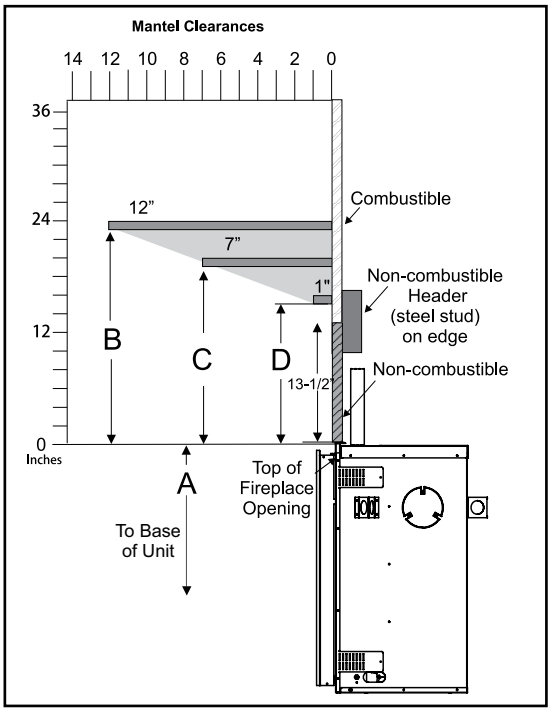
Horizontal Top	3" (76mm)
Horizontal Side	2 " (51mm)
Horizontal Bottom	2" (51mm)
Vertical Vent	2" (51mm)

MANTEL CLEARANCES

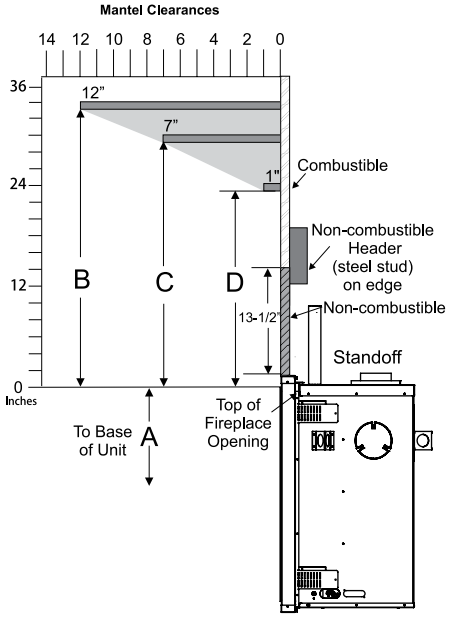
Due to the extreme heat this fireplace emits, the mantel clearances are critical. Combustible mantel clearances from top of front facing are shown in the diagram below.

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.

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



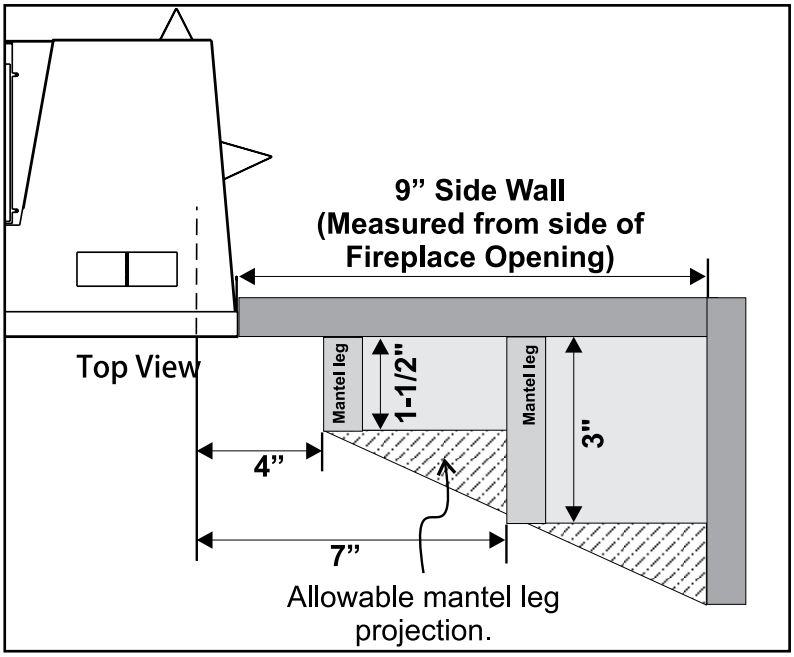
Flush Panels + Safety Screen or Vignette Faceplate/Vignette Trim Stepped Finish



Vignette + Vignette finishing trim - finished flush

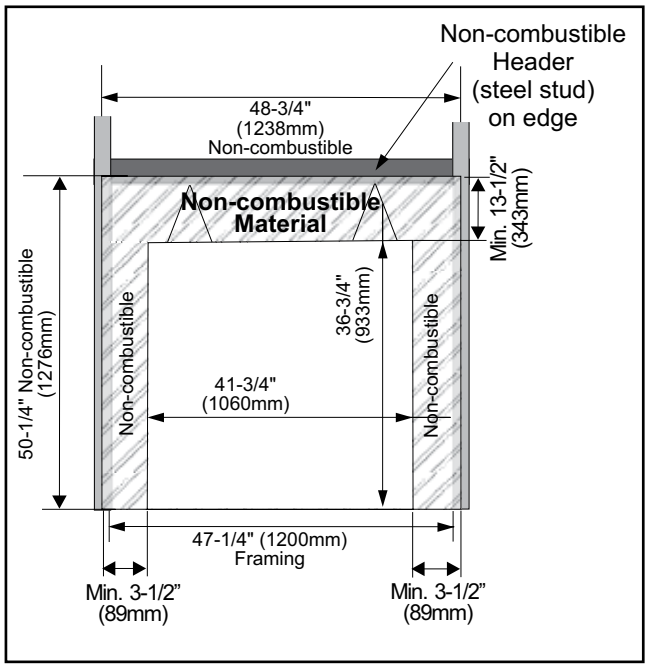
Mantel Clearances B41XTE		**A**	**B**	**C**	**D**
Flush Panels + Safety Screen or Vignette/Vignette Trim Stepped Finish	From Top of Fireplace Opening	35-1/4" (895mm)	23-1/4" (591mm)	19-1/2" (495mm)	15" (381mm)
Vignette with Vignette Finishing Trim - Finished Flush	From Top of Fireplace Opening	35-1/4" (895mm)	33-1/16" (825mm)	29-5/16" (744mm)	24-9/16" (624mm)
Note: The Vignette Finishing trim can not be used in conjunction with the flush panels and Safety Screen A separate 3 sided finishing trim is offered for this application.					

MANTEL LEG CLEARANCES

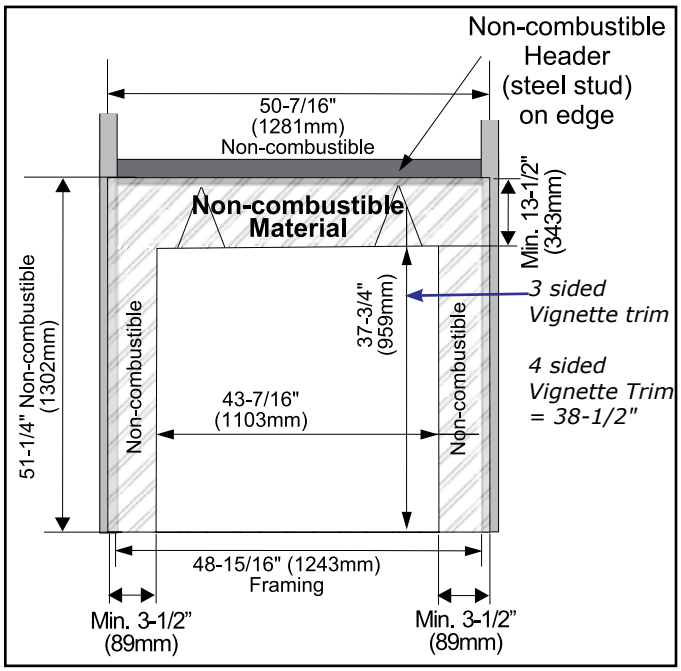


NON-COMBUSTIBLE REQUIREMENTS

FLUSH PANELS WITH SAFETY SCREEN OR VIGNETTE FACEPLATE/VIGNETTE FINISHING TRIM STEPPED FINISH



VIGNETTE + VIGNETTE FINISHING TRIM - <u>FINISHED FLUSH</u>

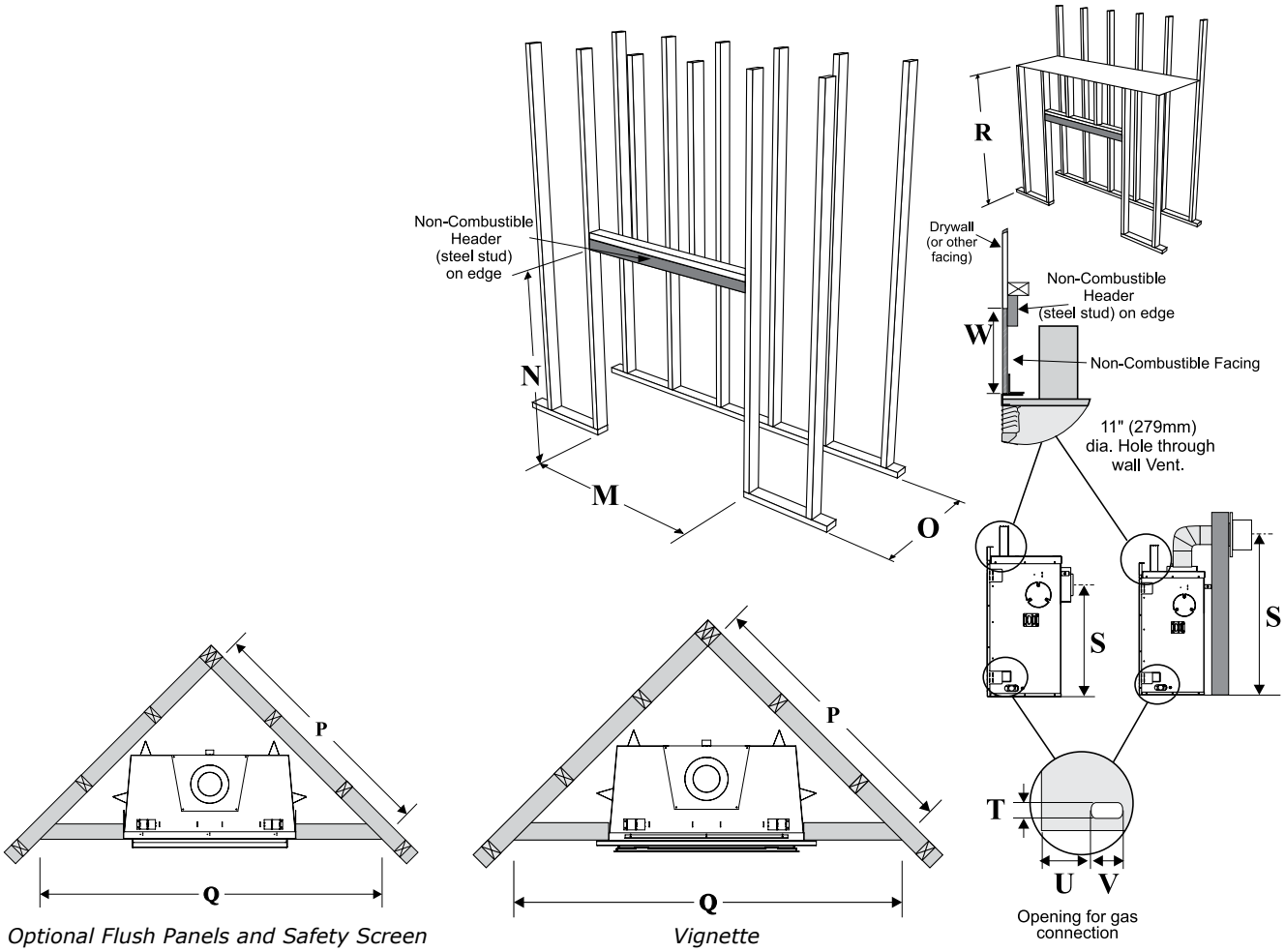


FRAMING WITH FLUSH PANELS AND SAFETY SCREEN OR VIGNETTE FACEPLATE/VIGNETTE TRIM, STEPPED FINISH

SEE NEXT PAGE FOR FRAMING FOR VIGNETTE AND VIGNETTE TRIM FINISHED FLUSH

Framing Dimensions	Description	B41XTE
M	Framing Width	47-1/4"(1200mm)
N	Framing Height	49-1/2" (1257mm)
O (Rear Vent)	Framing Depth - Rear Vent	23-1/4" (591mm)
O (Top Vent)	Framing Depth - Top Vent	22-5/8" (575mm)
P	Corner Facing Wall Width	60-1/4" (1530mm)
Q	Corner Facing Wall Width	85-3/16" (2163mm)
R (Rear Vent)	Framed Chase Ceiling - Rear	49-1/2" (1257mm)
R (Top Vent)	Framed Chase Ceiling - Top	54-1/2" (1384mm)
S (Rear Vent)	Vent Centerline Height - Rear	28-1/2" (724mm)
S (Top Vent)	Vent Centerline Height - Top	47-1/2" (1207mm) Rigid / Flex
T	Gas Connection Height	1-1/2" (38mm)
U	Gas Connection Inset	5" (127mm)
V	Gas Connection Width	3-1/4" (82mm)
W	Non-Combustible Top Height	13-1/2" (343mm)

**** Important: Framing height requires consideration of the hearth depth. Dimension N = N + the thickness of the installed hearth.**



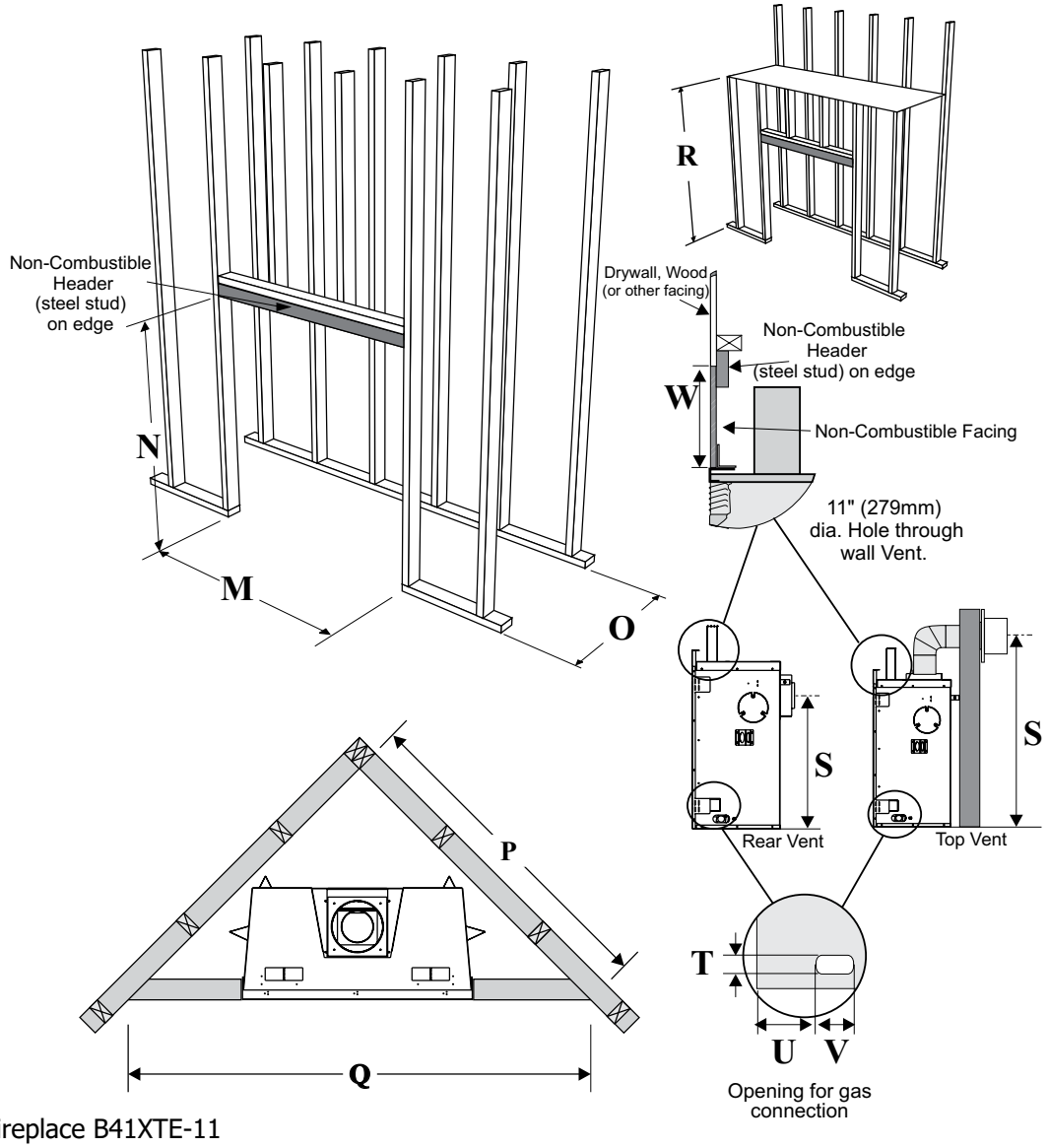
Optional Flush Panels and Safety Screen

Vignette

FRAMING WITH VIGNETTE FINISHING TRIM - FINISHED FLUSH

Framing Dimensions	Description	B41XTE
M	Framing Width	48-15/16"(1243mm)
N	Framing Height	50-1/4" (1276mm)
O (Rear Vent)	Framing Depth - Rear Vent	24-7/8" (632mm)
O (Top Vent)	Framing Depth - Top Vent	24-7/8" (632mm)
P	Corner Facing Wall Width	63-3/8" (1610mm)
Q	Corner Facing Wall Width	89-5/8" (2276mm)
R (Rear Vent)	Framed Chase Ceiling - Rear	50-1/4" (1276mm)
R (Top Vent)	Framed Chase Ceiling - Top	54-1/2" (1384mm)
S (Rear Vent)	Vent Centerline Height - Rear	28-1/2" (724mm)
S (Top Vent)	Vent Centerline Height - Top	47-1/2" (1207mm) Rigid / Flex
T	Gas Connection Height	1-1/2" (38mm)
U	Gas Connection Inset	5" (127mm)
V	Gas Connection Width	3-1/4" (82mm)
W	Non-Combustible Top Height	13-1/2" (343mm)

**** Important: Framing height requires consideration of the hearth depth. Dimension N = N + the thickness of the installed hearth.**



FINISHING

IMPORTANT FINISHING DETAIL NOTE:

Before placing unit into final position - it is important to know the total thickness / height of finished hearth (tile, carpet, etc.) The base of the fireplace should be level or higher than the finished hearth height.

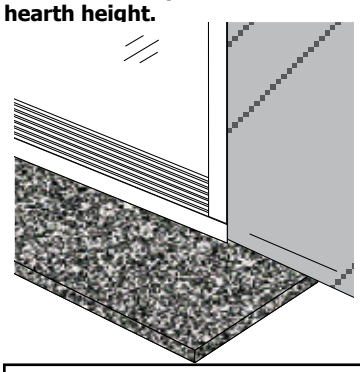


Diagram 1

Note:
All non-combustible facing material should butt up cleanly to the flanges around the firebox opening.

Rough edges will be visible from the front view with the flush louvers or flush panels - if not using the optional finishing trim.

To maintain a clean finished edge - it is recommended to install the non-combustible facing material with the finished edge against the fireplace / nailing strips.

Alternatively, you can use J Style Trim or Metal Corner Bead to cover cut edges of the non-combustible facing material.

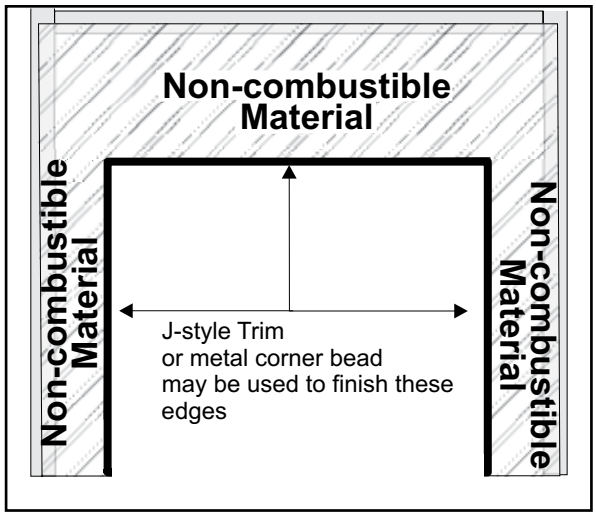


Diagram 2

VENTING INTRODUCTION

The B41XTE uses the "balanced flue" technology Co-Axial system. The inner liner vents products of combustion to the outside while the outer liner draws outside combustion air into the combustion chamber thereby eliminating the need to use heated room air for combustion and losing warm room air up the chimney.

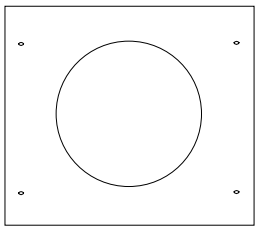
Note: These flue pipes must not be connected to any other appliance.

The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas burning appliance. Each direct vent gas appliance must use it's own separate vent system. Common vent systems are prohibited.

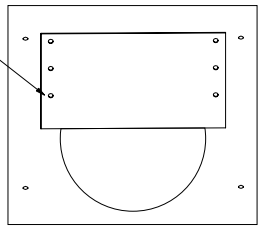
VENT RESTRICTOR & BAFFLE INSTALLATION

Note: The vent restrictor & baffle must be installed prior to Optional Panel Installation.

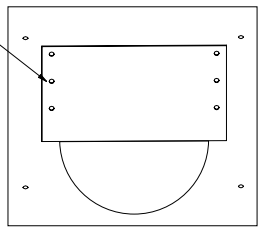
NO VENT RESTRICTOR
Factory setting



SET 1
THIS HOLE SETS THE VENT RESTRICTOR AT 3-1/2”



SET 2
THIS HOLE SETS THE VENT RESTRICTOR AT 2-1/2”



SET 3
THIS HOLE SETS THE VENT RESTRICTOR AT 1-1/2”

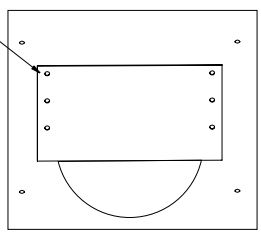


Diagram 1

1) Determine the venting configuration.

2) Go to venting arrangements section to determine if a vent restrictor setting is required.
Note: The vent restrictor does not apply to rear vent applications.

3) Remove baffle plate. See Diagram 3.

4) Align the vent restrictor plate to the required vent restrictor position as per diagram 1.

5) Once the vent restrictor plate is in the required position, secure with 2 - 1/4" x 1/2" screws. Ensure all screws are tight, but do not over tighten. (See diagram 2).

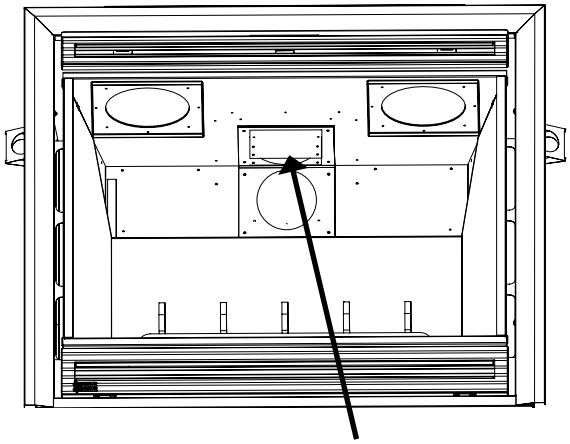
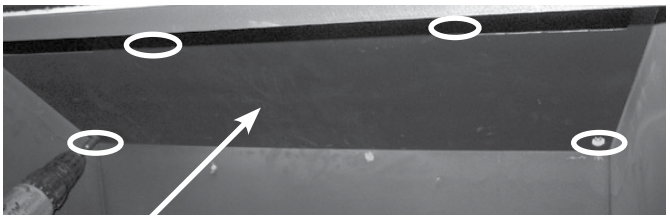


Diagram 2: Vent Restrictor installed on Top Exhaust Assembly

6) From **inside** the firebox, install the baffle plate with 4 - 1/4" x 1/2 " screws. Ensure all screws are tightly secure, but do not over tighten.



Baffle Plate *Diagram 3*

RIGID PIPE VENTING SYSTEMS-BASIC HORIZONTAL & VERTICAL TERMINATIONS

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:

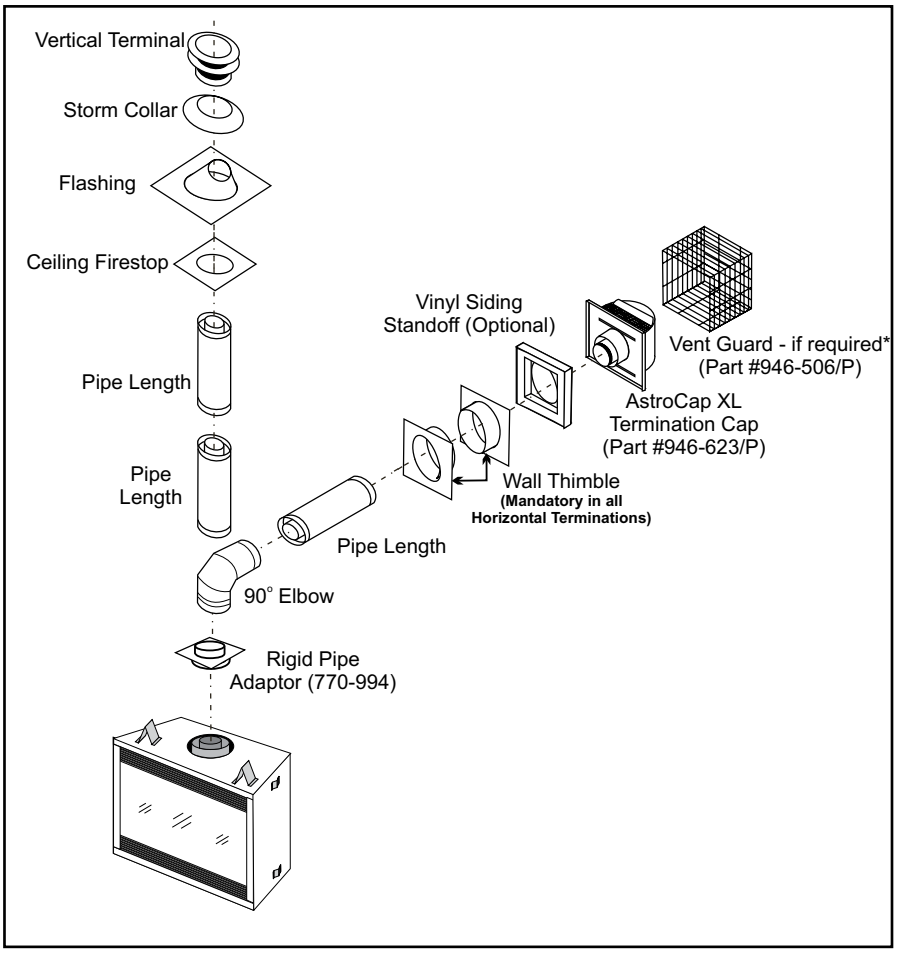
1 AstroCap XL Termination Cap
1 90° Elbow
1 Rigid Pipe Adaptor
1 Wall Thimble
1 Length of rigid pipe to suit wall thickness

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.



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

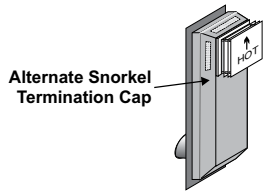
<u>WARNING:</u>

Do not combine venting components from different venting systems.

Exception: However, use of the the AstroCap XL™ is acceptable with all systems.

This product has been evaluated by Intertek when using a rigid pipe adaptor and use of any of the specific chimney systems listed in this manual. Use of these systems with the rigid pipe adaptor is deemed acceptable and does not affect the Intertek WHI listing of these components.

ALTERNATE HORIZONTAL TERMINATION CAPS



The Regency AstroCap™ and Regency Riser Vent terminal are certified for installations using Regency venting systems as well as any specific chimney systems listed in this manual. AstroCap™ is a proprietary trademark of Regency Fireplace Products.

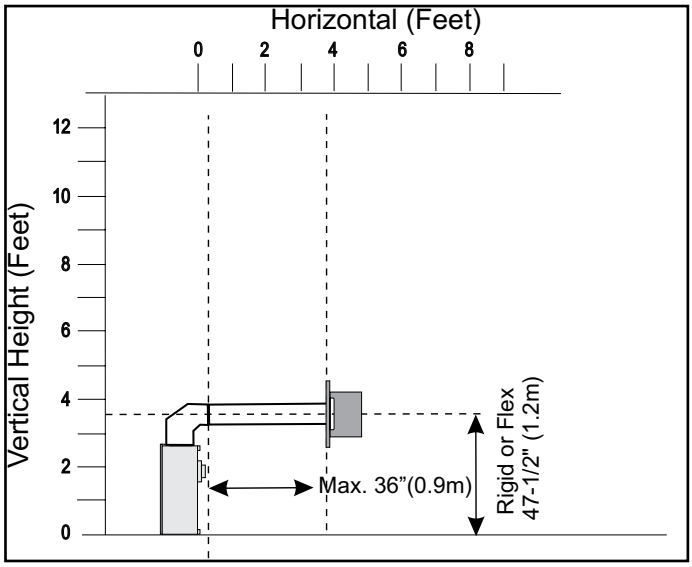
VENTING ARRANGEMENTS FOR HORIZONTAL TERMINATIONS-FLEX VENT OR RIGID PIPE 5" X 8"

The diagrams show all allowable combinations of vent runs with 5" x 8" venting using the Regency direct vent system or rigid vent system. A vent guard should be used whenever the termination is lower than the specified minimum or as per local codes.

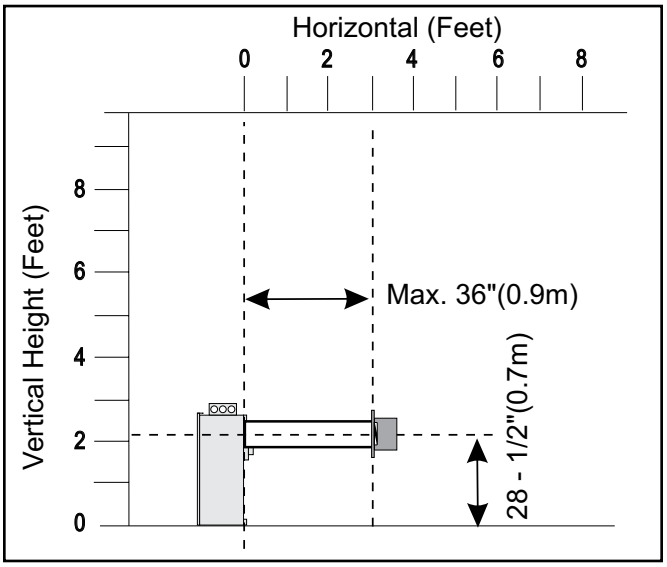
For horizontal terminations the Regency Direct Vent Flex System may be used for installations upto a maximum **continuous** vent length of 10ft (3.0m).

Note: Must use optional rigid pipe adaptor (Part # 770-994) when using Rigid Pipe vent systems.

- **Maintain clearance to combustibles.**
- **Horizontal vent must be supported every 3 feet.**
- **Firestops are required at each floor level and whenever passing through a wall.**



Vent Restrictor - Set 1



Factory Setting - No Restrictor Required

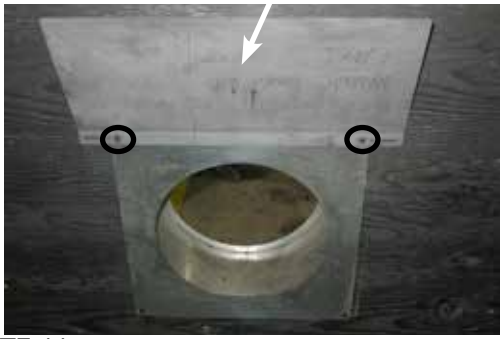
IMPORTANT
Must use Rear Venting Deflector packaged with unit in rear vent horizontal termination applications.

REAR VENTING DEFLECTOR INSTALLATION
FOR REAR VENTED HORIZONTAL TERMINATIONS

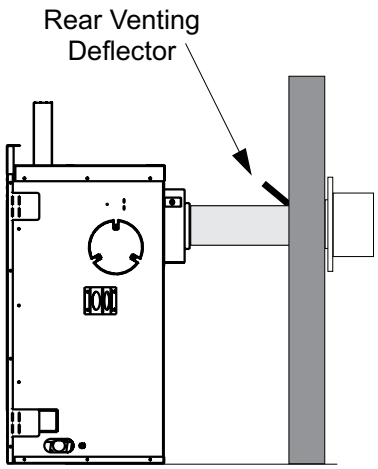
The Rear Vent Deflector comes with the unit. When the unit is shipped the deflector is slightly tucked underneath the top nailing strips located at the top of the firebox.

NOTE: The Rear Venting Deflector must be installed before the unit is put in place.

Rear Venting Deflector



1. Secure the rear venting deflector to the wall thimble using 2 screws as shown. Ensure to use the same screw holes as the wall thimble.

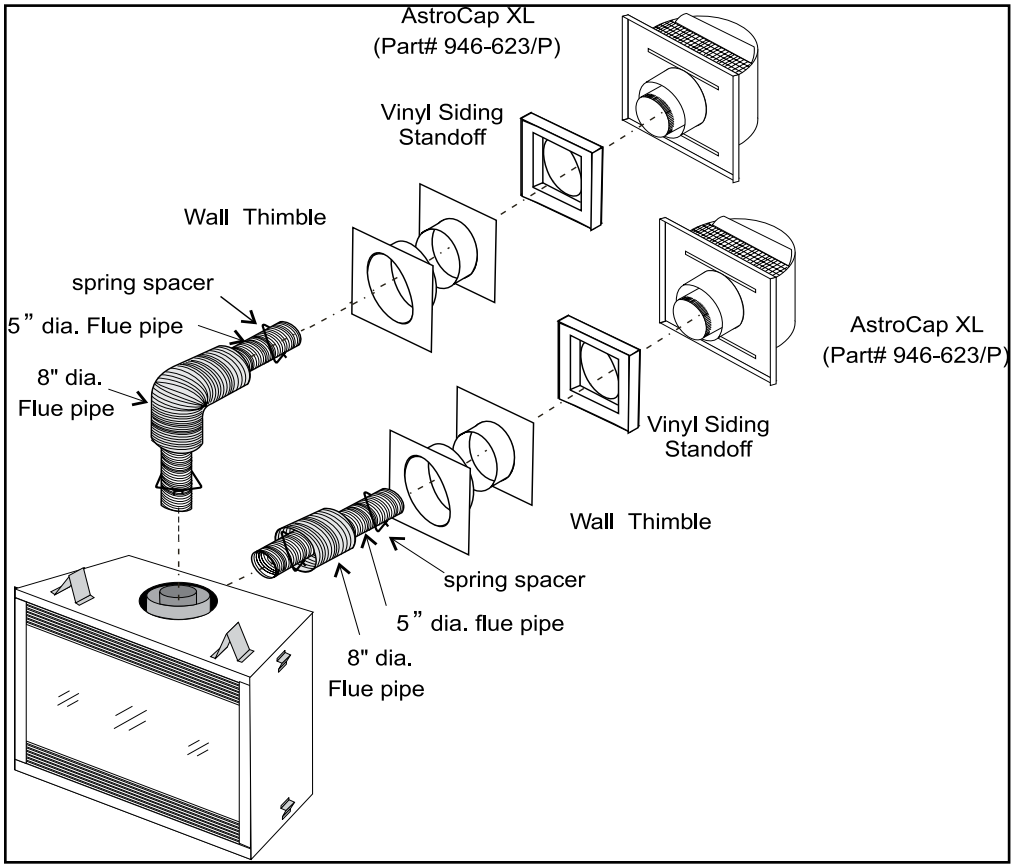


HORIZONTAL TERMINATIONS-FLEX VENT 5" X 8"

These venting systems, in combination with the B41XTE Direct Vent Gas Fireplace, has been tested and listed as a direct vent heater system by Warnock Hersey. 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 4 foot Termination Kit (Part# 946-615), 6 foot Termination Kit (Part# 946-618) or 10 foot Termination Kit (Part# 946-616) includes all the parts needed to install the B41XTE with a either a top or rear vent.

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 XL*** 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	



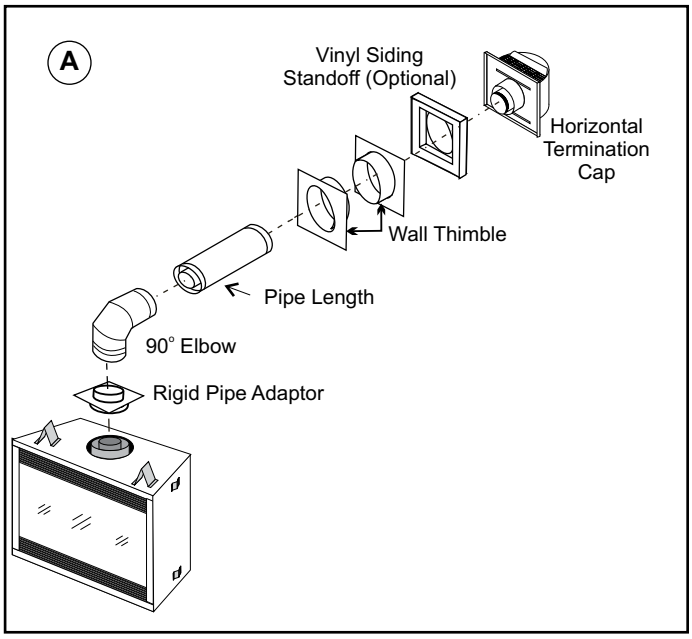
IMPORTANT
Must use Rear Venting Deflector packaged with unit in rear vent horizontal termination applications.

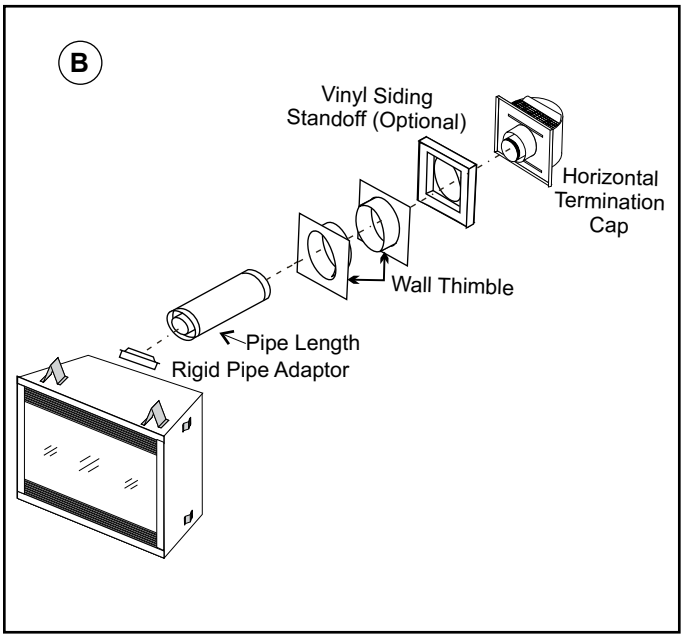
Notes:
1) **Liner sections should be continuous without any joints or seams.**
2) **Only Flex pipe purchased from Regency may be used for Flex installations.**
3) **Regency® Direct Vent System (Flex) is only approved for horizontal terminations.**

NOTE: If longer runs are required the FPI Direct Vent system (Flex) #946-616 includes all parts needed to install the B41XTE with a maximum 10' run.

HORIZONTAL TERMINATIONS-RIGID PIPE 5" X 8"

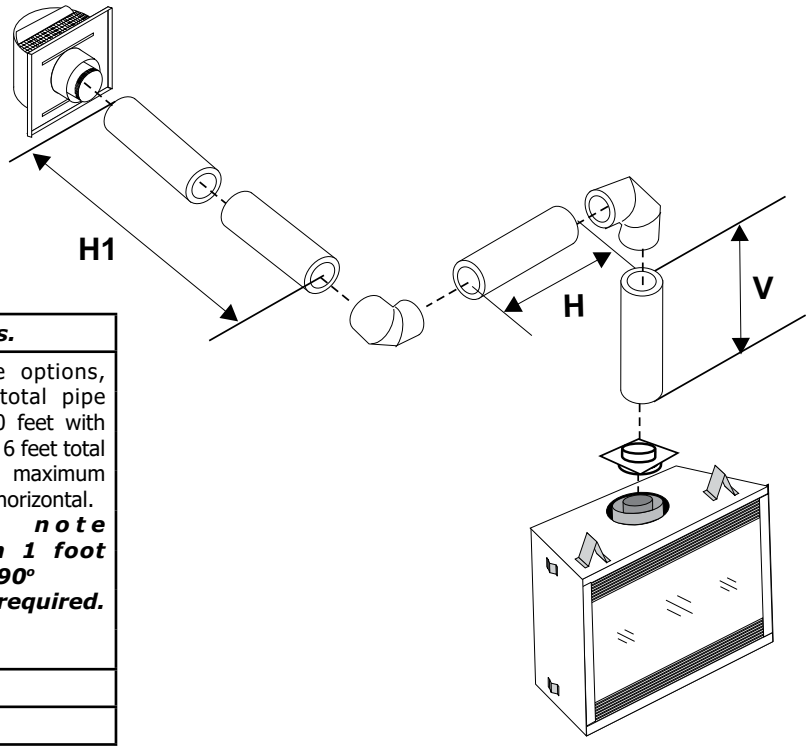
Horizontal Termination	
A	**Top Vent - No Vertical Rise** • When venting with a 90° elbow directly off the unit Flex vent or approved Rigid Vent System • Max. 3 ft. horizontal run
B	**Rear Vent w/ Horizontal Termination** • Max. 3ft. horizontal run





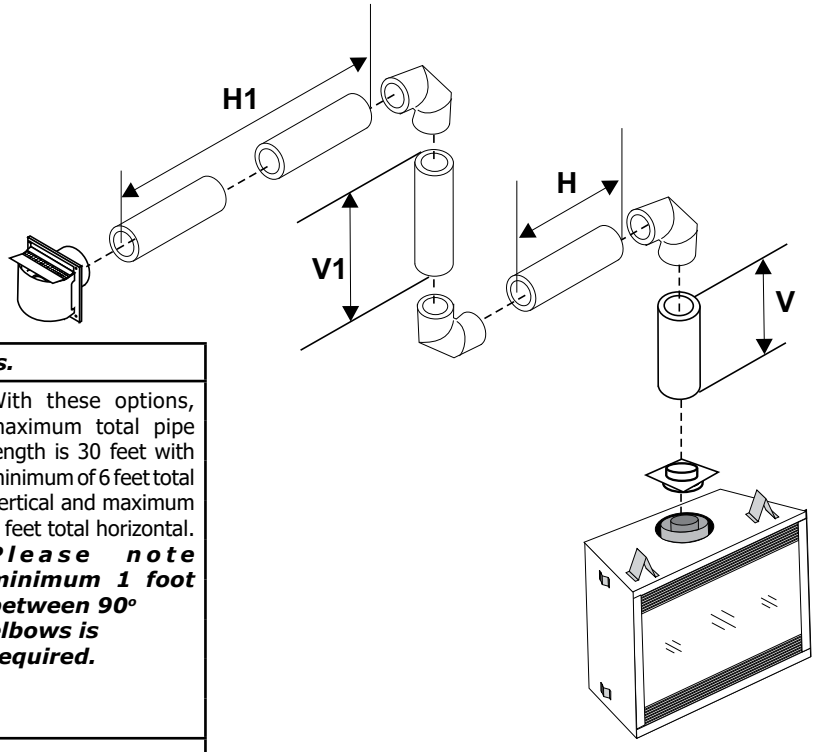
IMPORTANT
Must use Rear Venting Deflector packaged with unit in rear vent horizontal termination applications.

HORIZONTAL TERMINATIONS-TWO 90° ELBOWS (RIGID PIPE 5" X 8")



One 90° elbow = Two 45° elbows.			
Option	**V**	**H + H1**	With these options, maximum total pipe length is 30 feet with minimum of 6 feet total vertical and maximum 8 feet total horizontal. ***Please note minimum 1 foot between 90° elbows is required.***
A)	0' Min.	2' Max.	
B)	1' Min.	3' Max.	
C)	2' Min.	4' Max.	
D)	3' Min.	5' Max.	
E)	4' Min.	6' Max.	
F)	5' Min.	7' Max.	
G)	6' Min.	8' Max.	
No Vent Restrictor Installed			
Lengths do not include elbow indicated.			
Must use rigid pipe adaptor #770-994.			

HORIZONTAL TERMINATIONS-THREE 90° ELBOWS (RIGID PIPE 5" X 8")

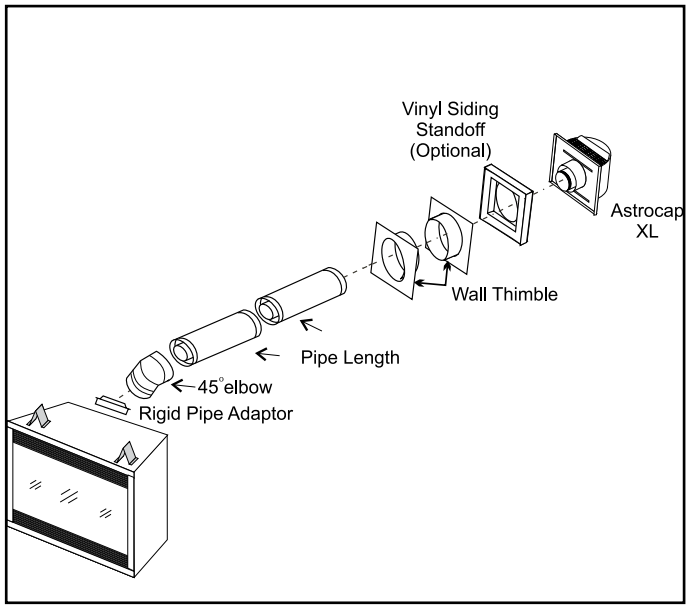


One 90° elbow = Two 45° elbows.					
Option	**V**	**H**	**V + V1**	**H + H1**	With these options, maximum total pipe length is 30 feet with minimum of 6 feet total vertical and maximum 8 feet total horizontal. ***Please note minimum 1 foot between 90° elbows is required.***
A)	0' Min.	1' Max.	1' Min.	2' Max.	
B)	1' Min.	2' Max.	3' Min.	3' Max.	
C)	2' Min.	2' Max.	5' Min.	4' Max.	
D)	3' Min.	2' Max.	7' Min.	5' Max.	
E)	4' Min.	3' Max.	9' Min.	6' Max.	
F)	5' Min.	4' Max.	10' Min.	7' Max.	
G)	6' Min.	5' Max.	11' Min.	8' Max.	
H)	7' Min.	6" Max.	12' Min.	9' Max.	
No Vent Restrictor Installed					
Lengths do not include elbow indicated.					
Must use rigid pipe adaptor #770-994.					

HORIZONTAL TERMINATIONS-ASTROCAP XL & RIGID REAR VENT KIT FOR CORNER INSTALLATIONS (RIGID PIPE 5" X 8")

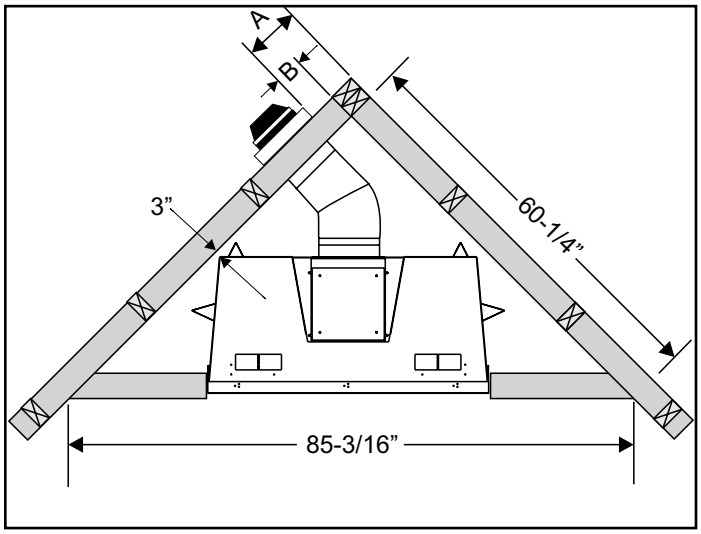
Designed for a minimum vent configuration when using a rear vent application with a horizontal termination in a corner installation.

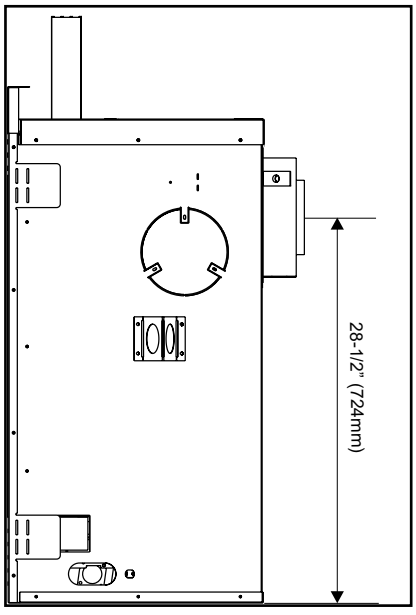
Kit# 946-612 Includes:		
1	AstroCap XL	946-623/P
1	Rigid Pipe Adaptor	770-994
1	Vinyl Siding Standoff (Optional)	946-625
1	Wall Thimble	58DVA-WT
1	6" Galvanized Rigid Pipe	58DVA-06
1	8-1/2" Galvanized Pipe Extension	58DVA-08A
1	45º Galvanized Elbow	58DVA-E45
1	90ml MillPac	948-128



IMPORTANT
Must use Rear Venting Deflector packaged with unit in rear vent horizontal termination applications.

Placement of the Unit into the Corner	
Back Top Corner of Unit to Wall	3"
Inside Corner out along the Wall	60-1/4"
Across the Face of the Unit, Wall to Wall	85-3/16"
A - Clearance to Outside Corner	13"
B - Clearance to Inside Corner	5-1/2"

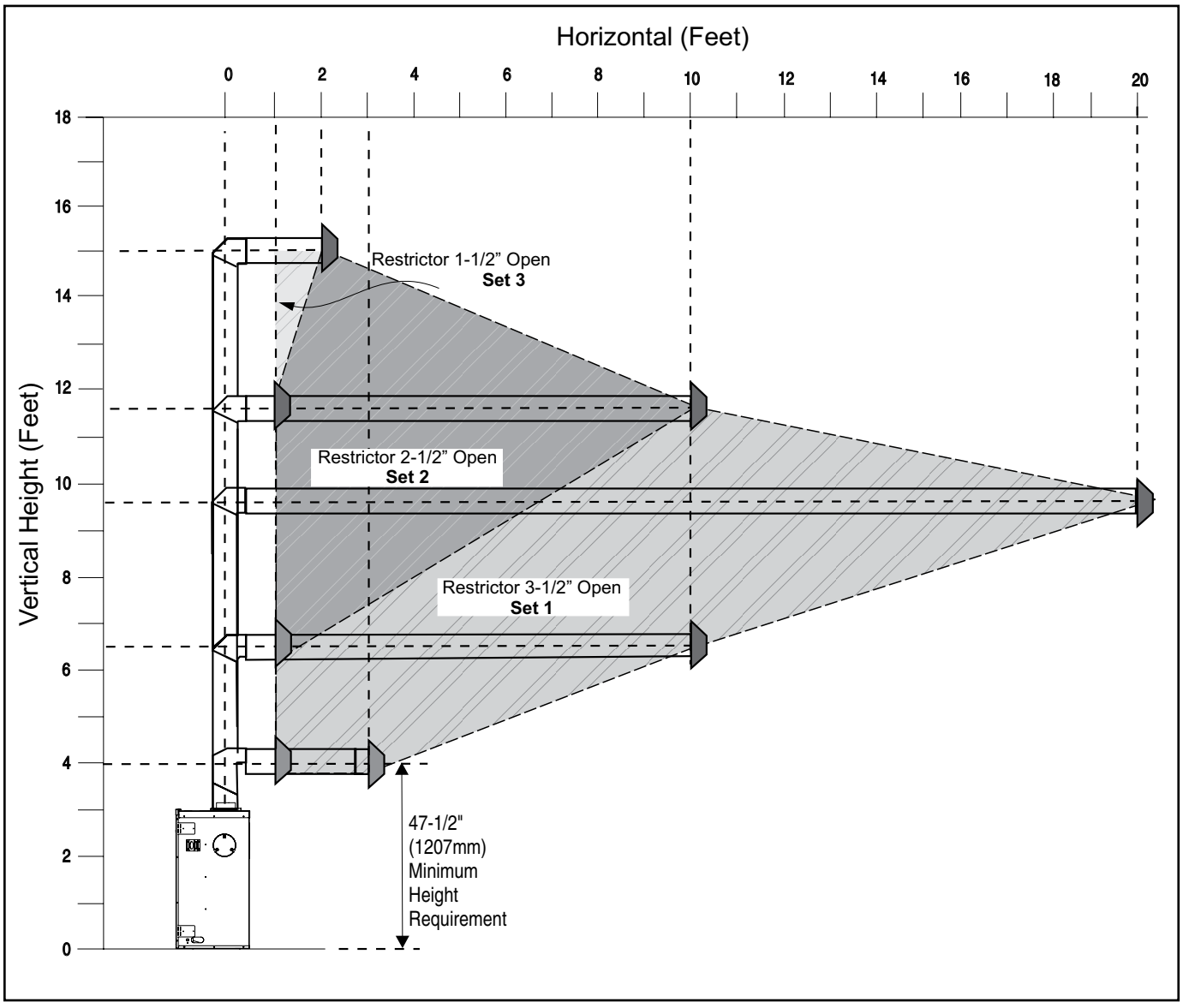




VENTING ARRANGEMENTS FOR HORIZONTAL TERMINATIONS

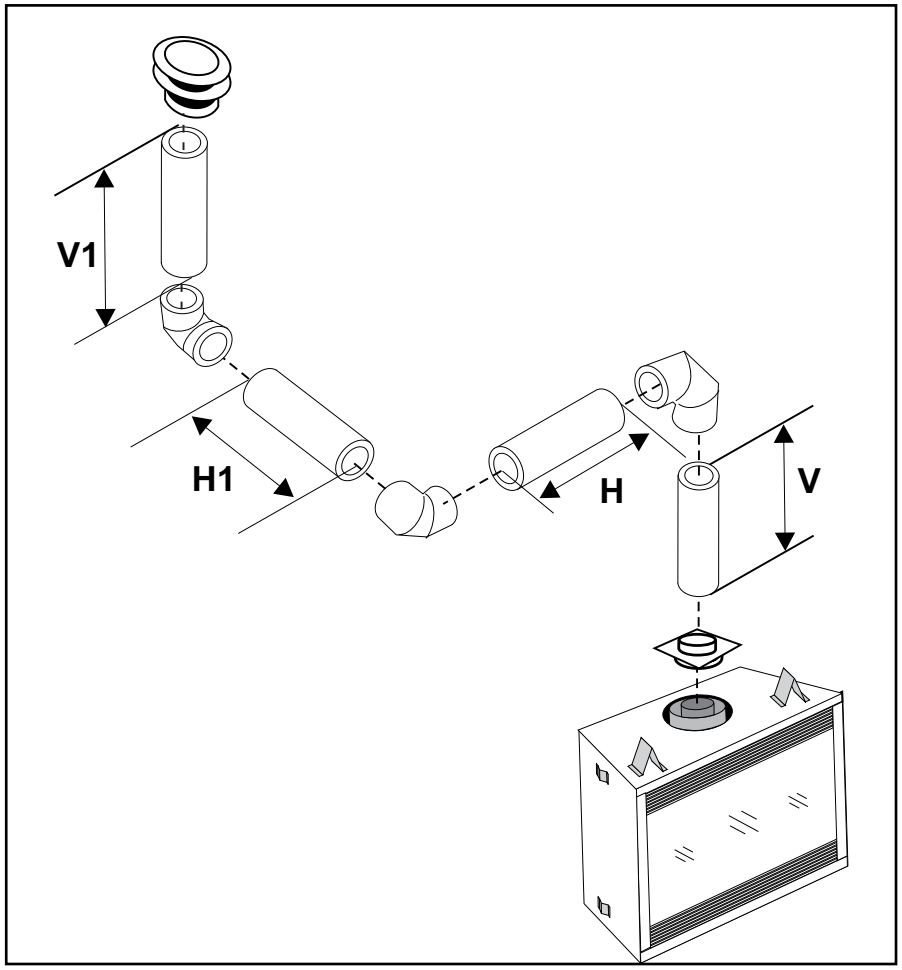
The diagram shows all allowable combinations of vertical runs with horizontal terminations, using one 90° (two 45° elbows equal one 90° elbow).

- **Maintain clearances to combustibles as listed in "Clearances" section**
- **Horizontal vent must be supported every 3 feet.**
- **Firestops are required at each floor level and whenever passing through a wall.**
- **A wall thimble is mandatory for all horizontal terminations due to high temperatures.**



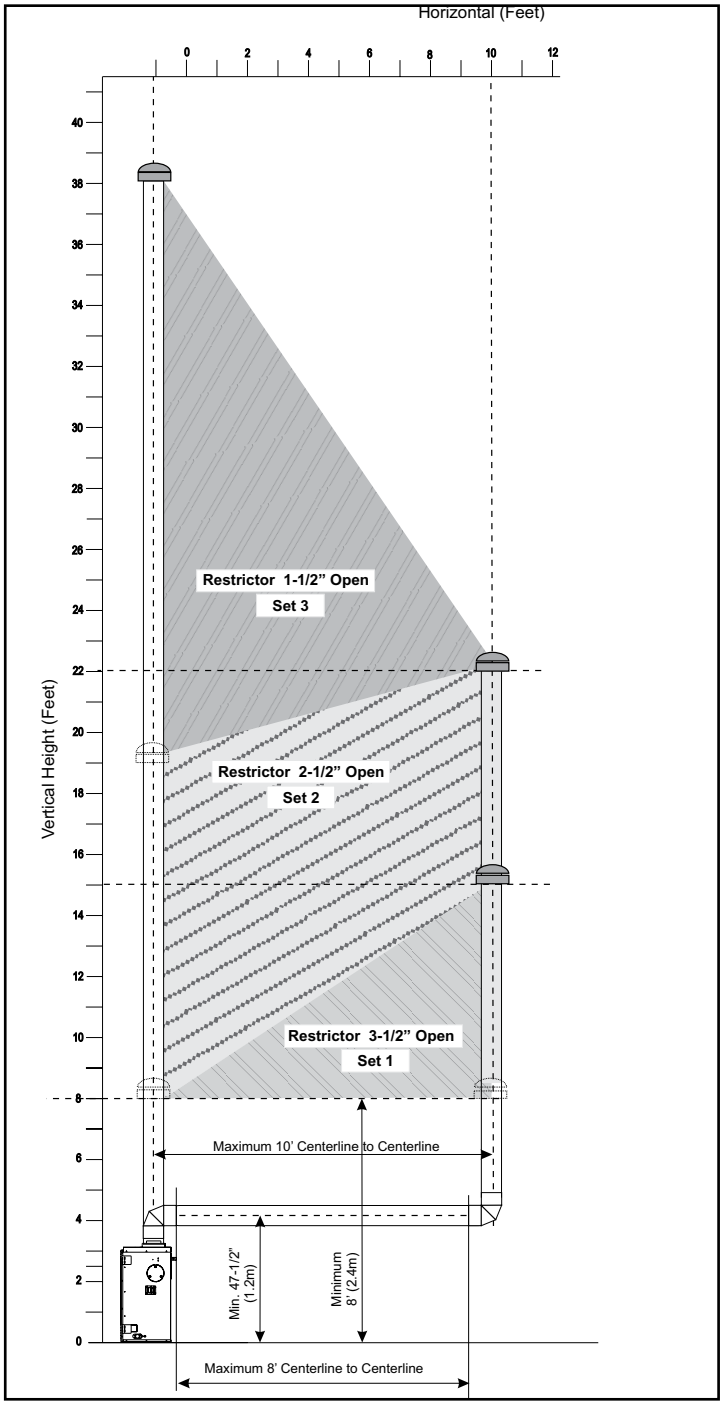
VERTICAL TERMINATIONS-THREE 90° ELBOWS (RIGID/FLEX PIPE 5" X 8")

One 90° elbow = Two 45° elbows.				
Option	**V**	**V + V1**	**H + H1**	With these options, maximum total pipe length is 30 feet with minimum of 6 feet total vertical and maximum 8 feet total horizontal. ***Please note minimum 1 foot between 90° elbows is required.***
A)	0' Min.	2' Min.	2' Max.	
B)	1' Min.	3' Min.	2' Max.	
C)	2' Min.	4' Min.	3' Max.	
D)	3' Min.	6' Min.	4' Max.	
E)	4' Min.	7' Min.	5' Max.	
F)	5' Min.	8' Min.	6' Max.	
G)	6' Min.	9' Min.	7' Max.	
H)	7' Min	10' Min.	8' Max.	
Restrictor: 2-1/2" open, Set 2 Lengths do not include elbow indicated. Must use rigid pipe adaptor #770-994				



VENTING ARRANGEMENTS FOR VERTICAL TERMINATIONS

The shaded area in the diagram shows all allowable combinations of straight vertical and offset to vertical terminations, using two 90° elbows, with rigid/flex pipe venting systems for propane and 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 to 3-1/2" opening, 2-1/2"opening and to 1-1/2" opening.**

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

UNIT INSTALLATION WITH HORIZONTAL TERMINATION- 5" X 8" VENTING (RIGID VENT SYSTEMS)

Minimum Vent Clearances to Combustibles

* Clearances noted below must be maintained; except when passing through a wall, ceiling or at the termination where the use of a firestop or wall thimble reduces clearance to 1-1/2" (38mm).

Horizontal Top*	3" (76mm)*
Horizontal Side	2 " (51mm)
Horizontal Bottom	2" (51mm)
Vertical Vent	2" (51mm)

Below are the recommended framing dimensions (inside measurements) for the 5" x 8" rigid vent terminations - for use with a firestop or wall thimble. 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 and the electrical (junction block is on the left side) on the left.
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 Approved Vent system, install the adaptor after the unit is set in its desired location. 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.

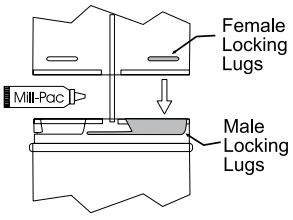


Diagram 1

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

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 (0.9meter). Wall straps are available for this purpose.

6. Mark the wall for a square hole.-see chart to left for size. The center of the square hole should line up with the center-line of the horizontal pipe. Cut and frame the square hole in the exterior wall where the vent will be terminated. See diagram 54 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.

Notes:

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.

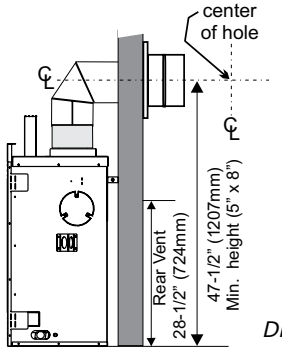


Diagram 2

IMPORTANT
Must use Rear Venting Deflector packaged with unit in rear vent horizontal termination applications.

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.

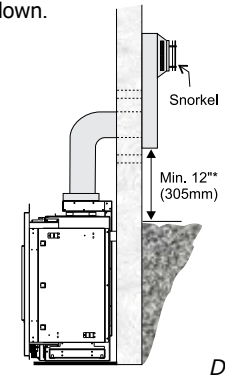


Diagram 3

*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 56. Do not attempt to enclose the snorkel within the wall or any other type of enclosure.

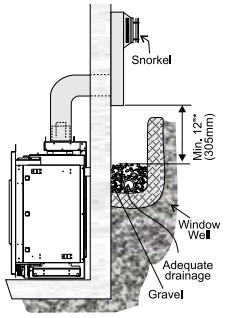
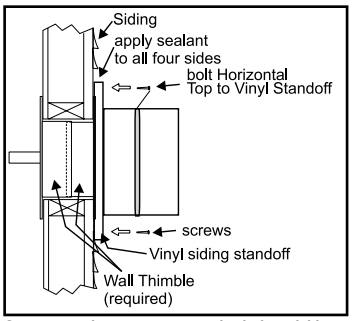


Diagram 4

7. Ensure that the pipe clearances to combustible materials are maintained (Diagram 55). Install the termination cap.

Note: If installing termination on a vinyl siding covered wall, a vinyl siding standoff or furring strips must be used to ensure that the termination is not recessed into the siding.

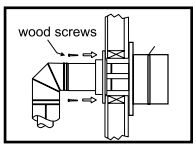


The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.

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 framed hole and attach with wood screws.



UNIT INSTALLATION WITH HORIZONTAL TERMINATION-5"X8"VENTING (FLEX VENT SYSTEMS)

Minimum Vent Clearances to Combustibles

* Clearances noted below must be maintained; except when passing through a wall, ceiling or at the termination where the use of a firestop or wall thimble reduces clearance to 1-1/2" (38mm).

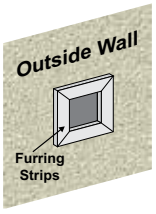
Horizontal Top	3" (76mm)
Horizontal Side	2 " (51mm)
Horizontal Bottom	2" (51mm)
Vertical Vent	2" (51mm)

Below are the recommended framing dimensions (inside measurements) for the 5" x 8" rigid vent terminations - for use with a firestop or wall thimble.

Recommended Framed Opening Size	
Vent Size	**Framing Size**
5" x 8"	**11" x 11"**

1. Locate the unit in the framing, rough in the gas (preferably on the right side of the unit). Locate the centerline of the termination and mark wall accordingly. Cut an square hole in the wall - see chart (inside dimension).

Note: If installing termination on a <u>siding covered wall, a vinyl siding standoff or vinyl furring strips must be used</u> to ensure that the termination is not recessed into the siding.



2. Level the fireplace and fasten it to the framing using nails or screws through the nailing strips.

3. Assemble the vent assembly by applying Mill-Pac to the inner flue collar of the termination and slipping the inner flex liner over it at least 1-3/8" (35mm). Fasten with the 3 screws (drilling pilot holes will make this easier). Apply Mill-Pac to the outer flex pipe and slip it over the outer flue collar of the vent terminal at least 1-3/8"(35mm) and fasten with the 3 screws.

NOTE: Horizontal sections must be supported at intervals not exceeding 3 feet (0.9 meter). (Flame picture and performance will be affected by sags in the liner).

4. Separate the 2 halves of the wall thimble and securely fasten the one with the tabs to the outside wall making sure that the tabs are on top and bottom. Fasten the other thimble half to the inside wall. The thimble halves slip inside each other and can be adjusted for 2 x 4 (or 2 x 6) walls.

5. Slip the assembled liner and termination assembly through the thimble making sure the termination cap faces up (there are markings on the cap that show which way is up). This will position the termination cap with proper down slope for draining water. Fasten the cap to the outer wall with the 4 supplied screws.

6. Pull the centre inner and outer flex liner out enough to slip over the flue collars of the fireplace. (You may wish to cut the liner shorter to make it more workable.) Do not bend liner more than 90°. **The liners must slip over the collars a minimum of 1-3/8".**

7. Apply Mill-Pac over the fireplace inner flue collar and slip the inner flex liner down over it and attach with 3 supplied screws.

8. Do the same with the outer flue collar and outer flex liner.

9. Apply a bead of silicone between the thimble and termination and around the outer edge of the terminal at the wall in order to keep the water out.

IMPORTANT: Do not locate termination hood where excessive snow or ice buildup may occur. Be sure to check vent termination area after snow falls, and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.