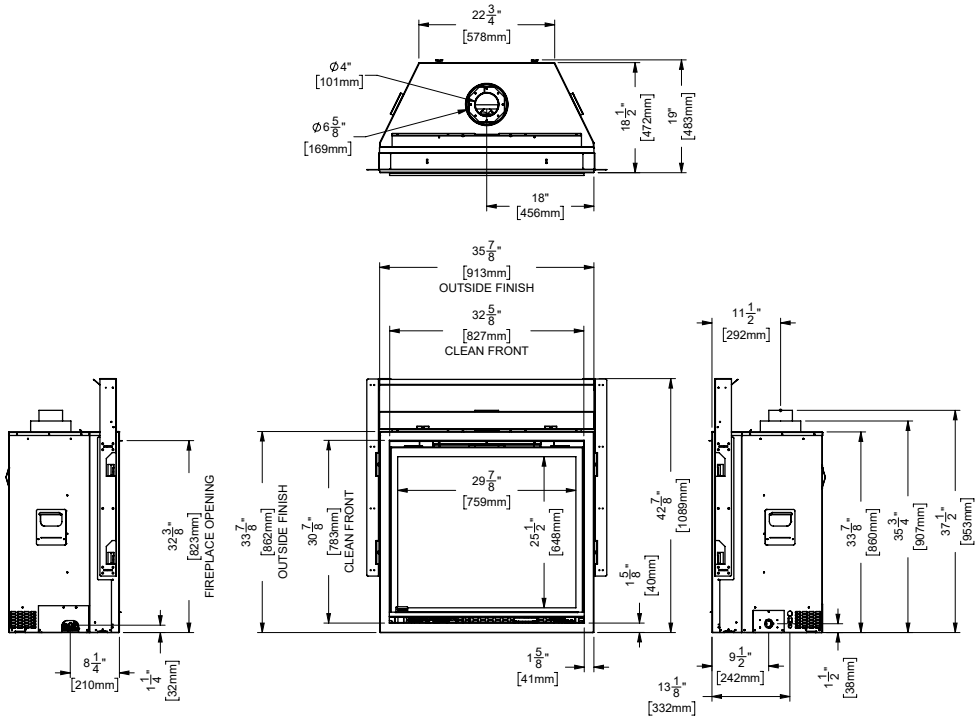
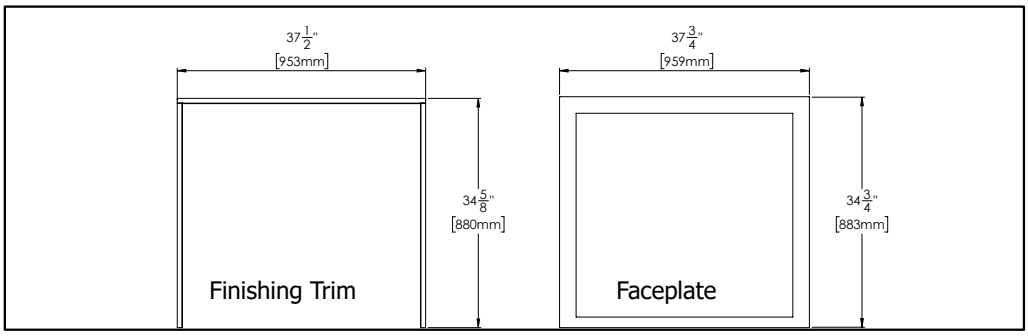
GRANDVIEW G800P Gas Fireplace

MODEL	G800P-NG	G800P-LP
Fuel Type	Natural Gas	Propane
Min. Supply Pressure	5" W.C. (1.25 kPa)	11" W.C. (2.74 kPa)
Manifold Pressure - High	3.8" W.C. (0.94 kPa)	10" W.C. (2.49 kPa)
Manifold Pressure - Low	1.1" W.C. (0.27 kPa)	6.4" W.C. (1.60 kPa)
Orifice Size - Altitude 0-4500 ft	#35 DMS	#51 DMS
Minimum Input Altitude 0-4500 ft. (0-1372m)	19,500 Btu/h (5.71 kW)	27,000 Btu/h (7.91 kW)
Maximum Input Altitude 0-4500 ft. (0-1372m)	36,000 Btu/h (10.55 kW)	34,000 Btu/h (9.96 kW)
CSA P.4.1 Fireplace Efficiency (FE)	57.11%	58.89%

UNIT DIMENSIONS



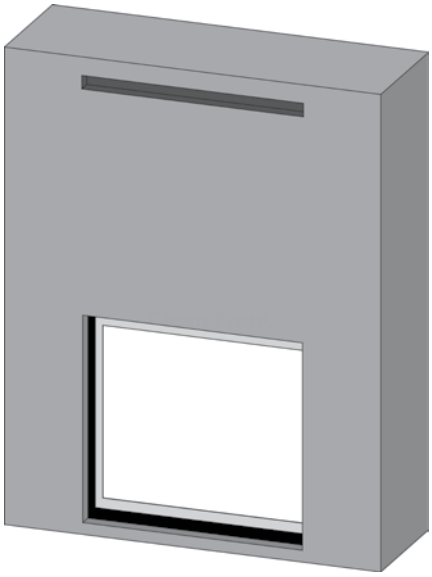
MINIMUM FIREPLACE DIMENSIONS



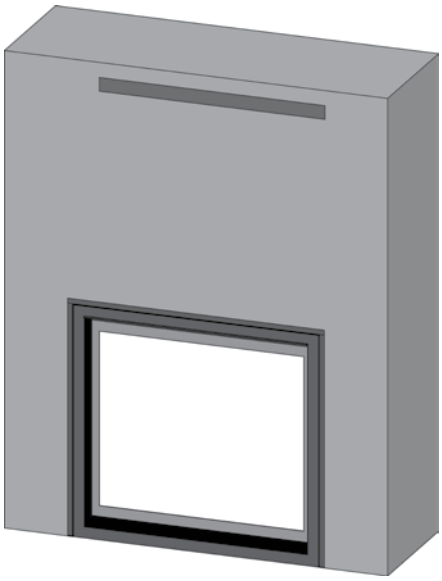
Note: Gas connection is from the left hand side of the appliance & electrical connection on right hand side of the appliance. A metal receptacle box is supplied/installed with the appliance to make all 120 volt electrical connections.

COOL WALL INSTALLATION (COMBUSTIBLE FINISHING)

Cool Wall Install:
- Vented Chase
- Combustible material can be used all around the fireplace
- Combustible Framing



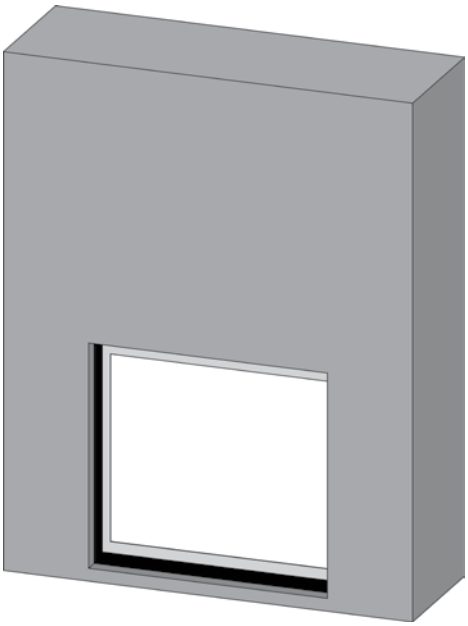
Clean Front



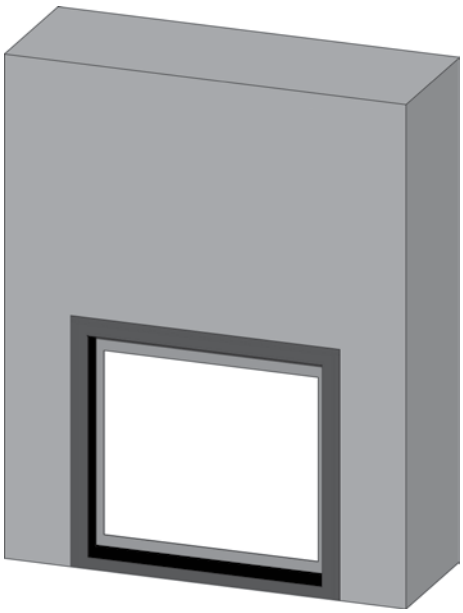
Outside Finish w/ Finishing Trim

NON COOL WALL INSTALLATION (NON COMBUSTIBLE FINISHING)

Non Cool Install:
- Non Vented Chase
- Non Combustible Board required
- Combustible Framing



Clean Front



Outside Finish w/ Faceplate

COOL WALL 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.

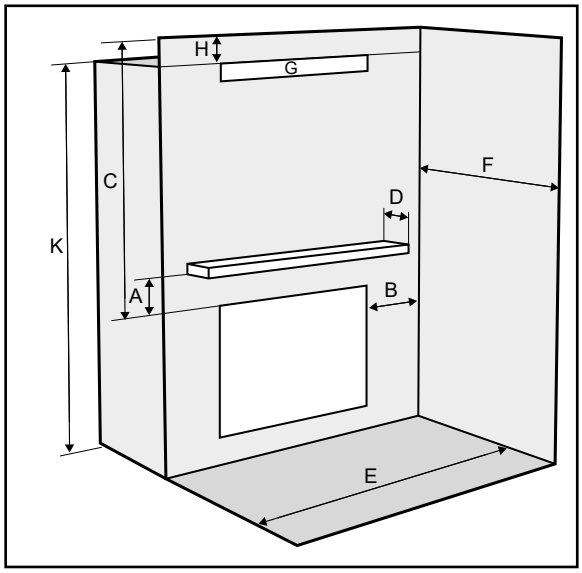
Caution Requirements
The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

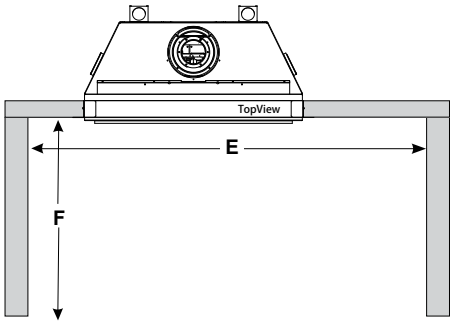
WARNING
Fire hazard is an extreme risk
If these clearances (air space) to combustible materials are not adhered to. It is of greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

G800P Clearance Requirements—Cool Wall Installations

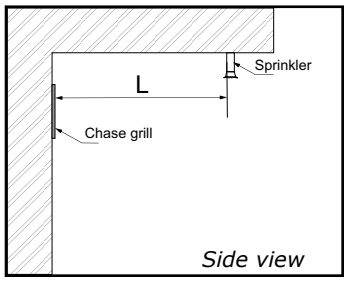
Clearance:	Cool Wall - Clean Front/ Outside Finish	Measured From:
A: Mantel Height (Min.)	3" (76 mm) (Clean Front)	Top of Fireplace Opening
A: Mantel Height (Min.)	1-1/2" (38 mm) (Outside Finish)	Top of Fireplace
B: Sidewall	6" (152 mm)	Side of Fireplace Opening
C: Ceiling	41-1/2" (1054 mm)	Top of Fireplace Opening
D: Mantel Depth (Max.)	15" (381 mm)	Front of Fireplace Opening
E: Alcove Width	72" (1829 mm)	Wall to Wall (Minimum)
F: Alcove Depth	36" (914 mm)	Front to Back Wall (Maximum)
G: Convection Air Outlet	107" sq (690 cm^2)	Top/Front of Enclosure
H: Convection Air Outlet Opening Ceiling Offset	Min. 2"	Top of Chase Vent Opening
K: Chase Enclosure Ceiling (Min.)	*72" (1823 mm)	From Base of Appliance Floor
L: Clearance to Sprinkler Head (Min.)	36" (914 mm)	Perpendicular From Chase Grill
Notes:	0"	No Hearth Required

IMPORTANT - *A minimum of 107 square inches of open area. Chase enclosure ceiling must be flush with ventilation opening required for all cool wall installations — this can be achieved by having an open area in front. See manual for details.





Alcove

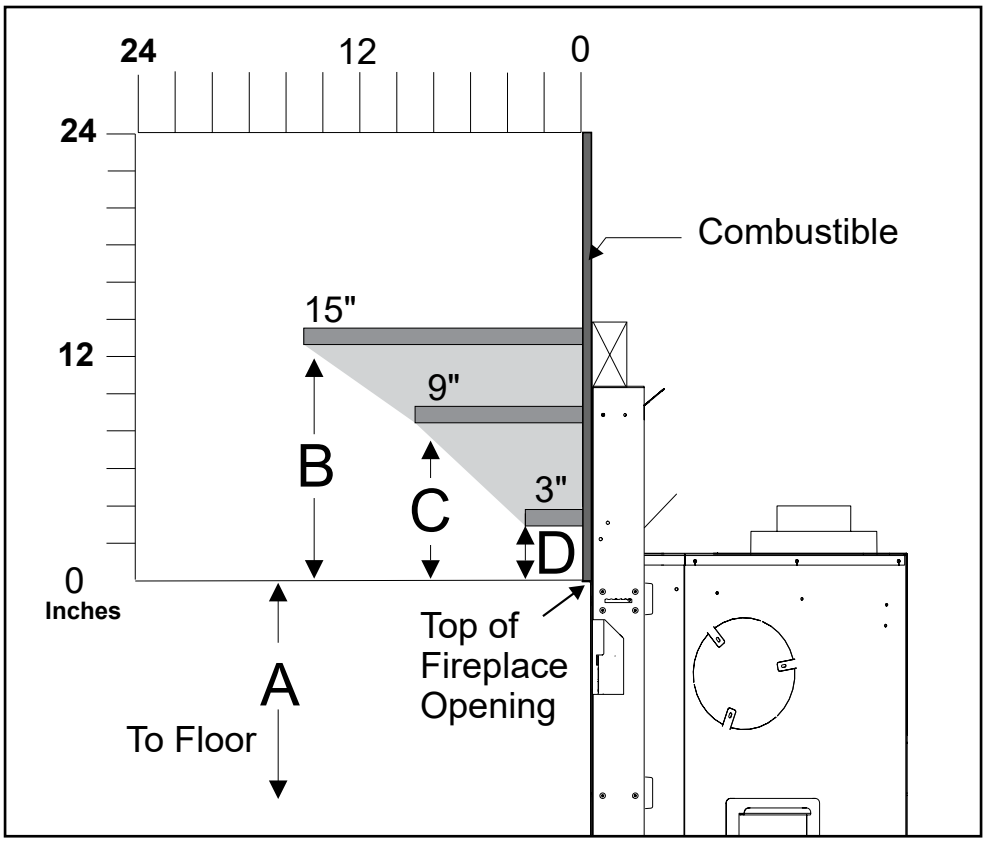


Minimum Vent Clearances to Combustibles

Horizontal Top	2" (51mm)
Horizontal Side	1-1/2 " (38mm)
Horizontal Bottom	1-1/2" (38mm)
Vertical Vent	1-1/2" (38mm)

COOL WALL MANTEL CLEARANCES (CLEAN FRONT FINISH) - COMBUSTIBLE MANTEL

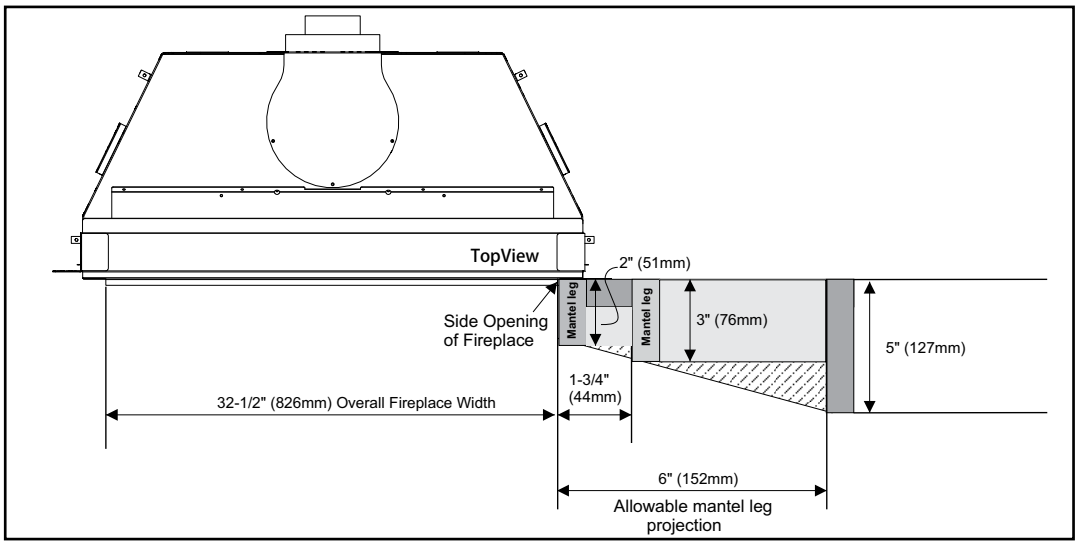
Due to the extreme heat this fireplace emits, the mantel clearances are critical. Combustible mantel clearances from top of front facing are shown in the diagram below.



Mantel Clearances G800P	A	B	C	D
From Top of Fireplace Opening	32-1/2" (826 mm)	12" (305 mm)	7-1/2" (191 mm)	3" (76 mm)

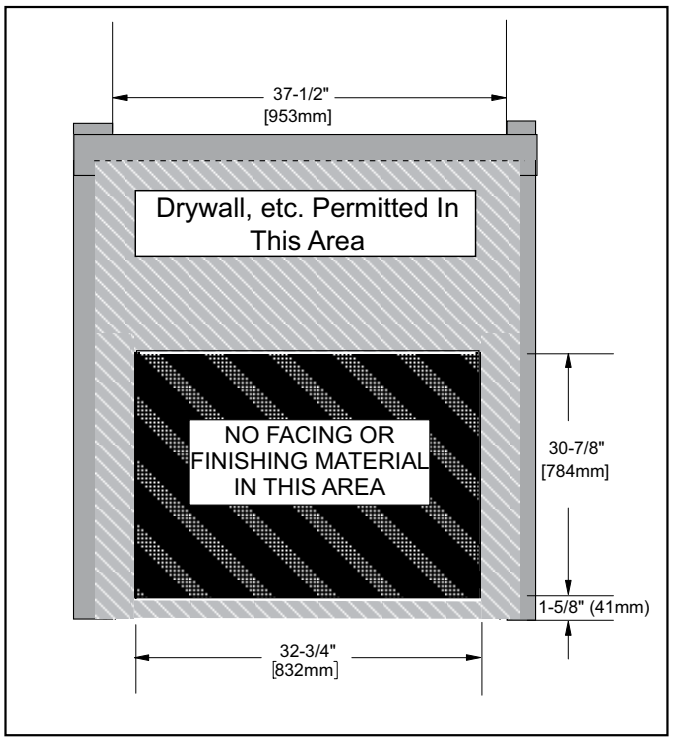
Note: Ensure the paint that is used on the mantel and the facing is "High Quality" or the paint may discolour.

COOL WALL MANTEL LEG CLEARANCES (CLEAN FRONT FINISH)



See framing dimensions.

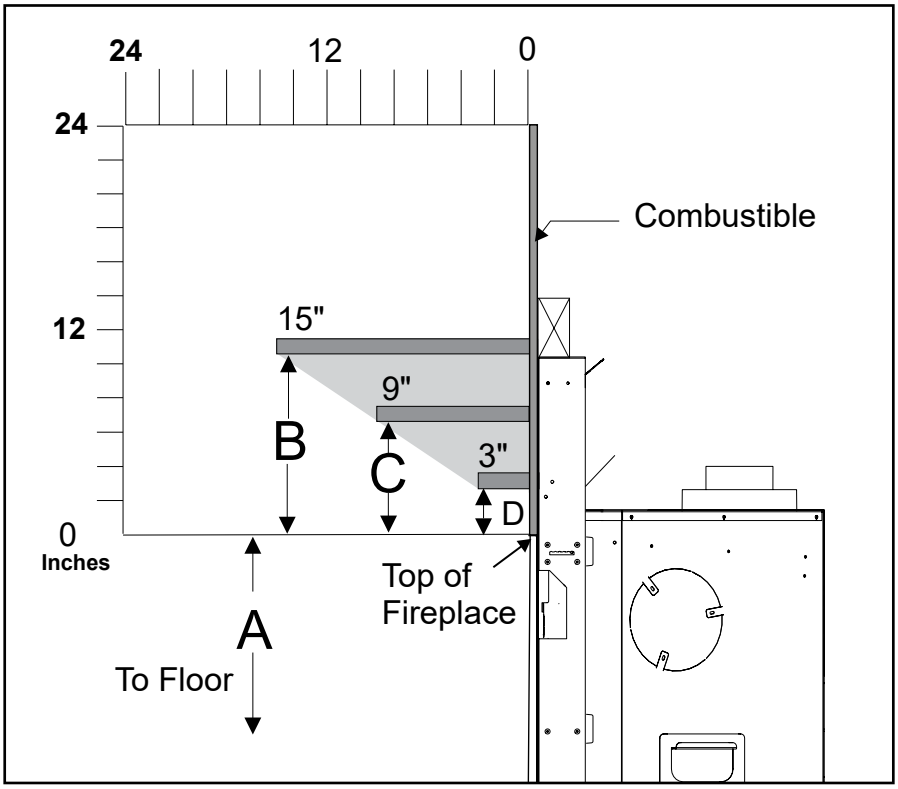
CLEAN FRONT INSTALLATION (COOL WALL)



Note: Drywall permitted around perimeter of fireplace.

COOL WALL MANTEL CLEARANCES (OUTSIDE FINISH) - COMBUSTIBLE MANTEL

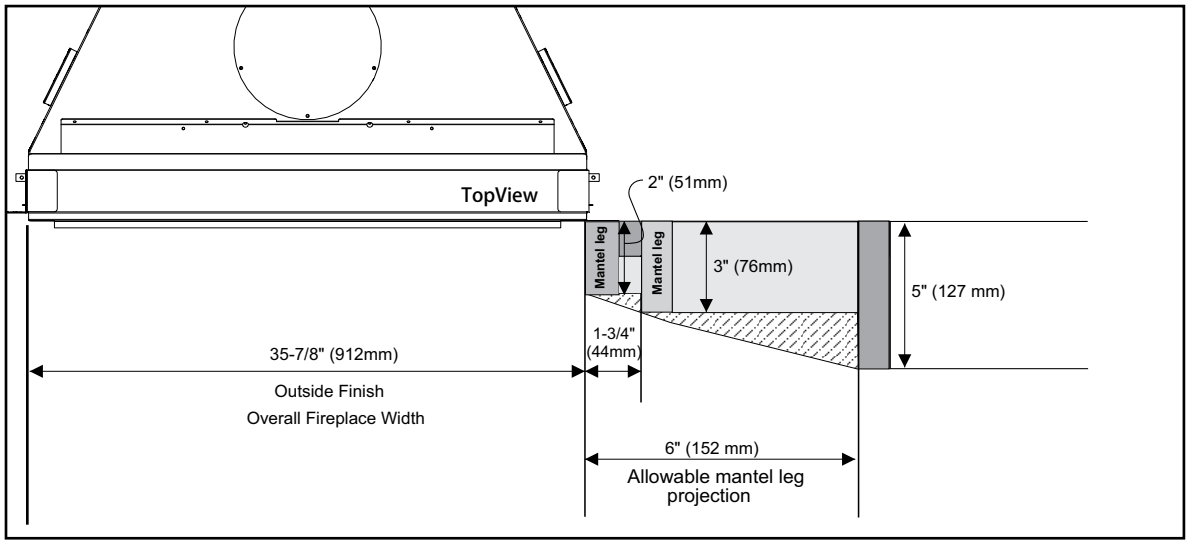
Due to the extreme heat this fireplace emits, the mantel clearances are critical. Combustible mantel clearances from top of front facing are shown in the diagram below.



Mantel Clearances G800P	A	B	C	D
From Top of Fireplace	34" (864 mm)	10-1/2" (267 mm)	6" (153 mm)	1-1/2" (38 mm)

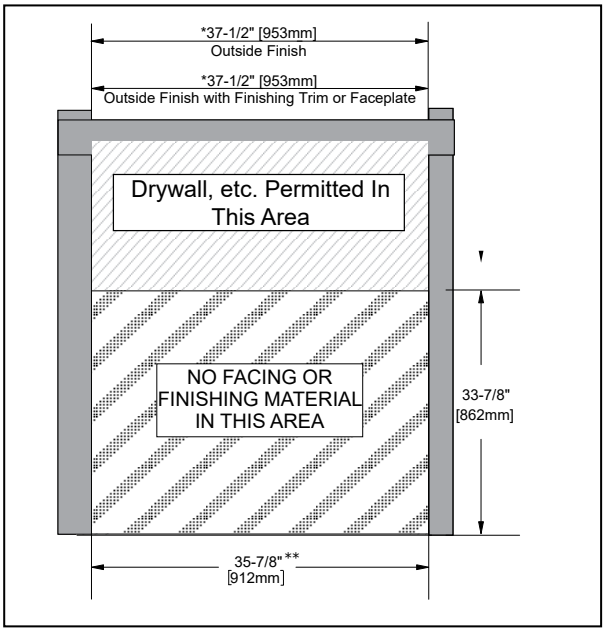
Note: Ensure the paint that is used on the mantel and the facing is "High Quality" or the paint may discolour.

COOL WALL MANTEL LEG CLEARANCES (OUTSIDE FINISH)



See framing dimensions.

OUTSIDE FINISH INSTALLATION (COOL WALL)



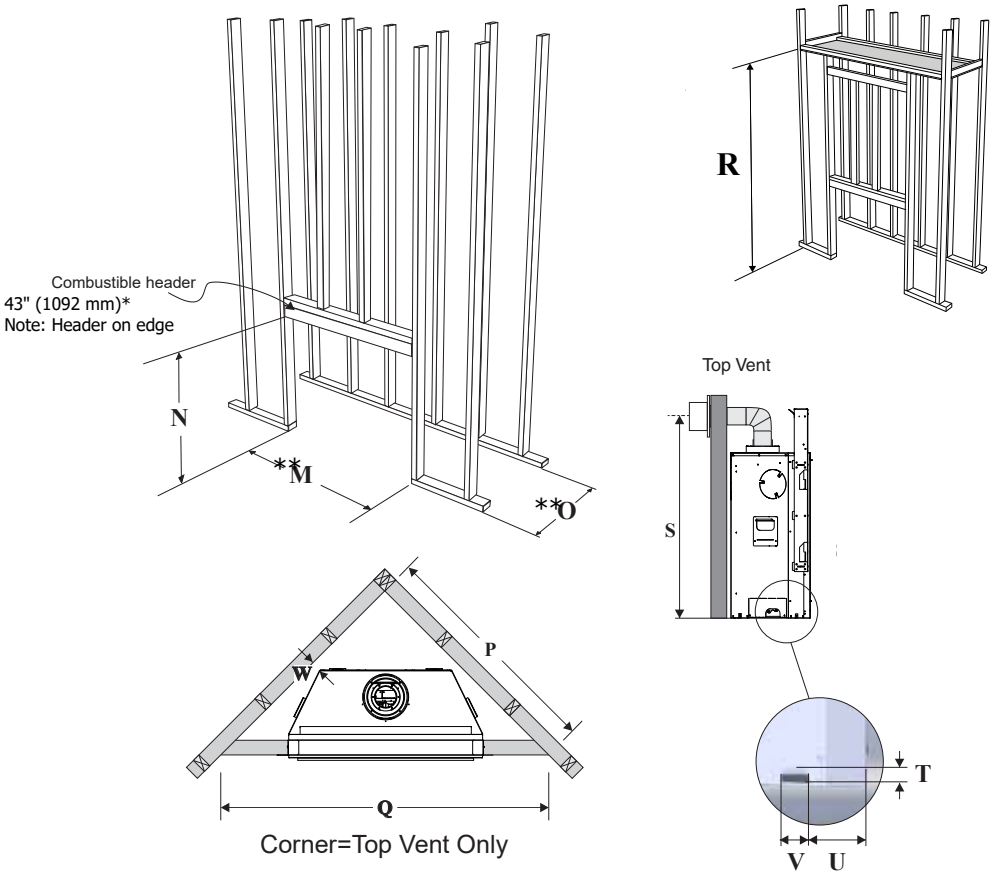
** IMPORTANT: If using either a faceplate or finishing trim option, A 1/2”(13 mm) gap must be maintained on the sides of the fireplace to allow the Finishing trim or Faceplate to be installed and removed.
See **Faceplate Finishing in this manual** for guidelines if you're installing the optional faceplate.

COOL WALL INSTALLATION - FRAMING

Framing Dimensions	Description	Cool Wall	Cool Wall with Finishing Trim or Faceplate
M	Framing Width	37-1/2" (953 mm)	37-1/2" (953 mm)
N*	Framing Height	43" (1092 mm)	
O	Framing Depth	19" (483 mm)	
P	Corner Facing Wall Width	43" (1092 mm)	
Q	Corner Facing Wall Width	60-7/8" (1546 mm)	
R	Framed Chase Ceiling Enclosure	72" (1823 mm)	
S	Vent Centerline Height	44-1/2" (1130 mm)	
T	Gas Connection Height	1-1/2" (38 mm)	
U	Gas Connection Inset	6-3/8" (162 mm)	
V	Gas Connection Width	3" (76 mm)	
W	Clearance to Corner of Unit	1/2" (13 mm)	

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

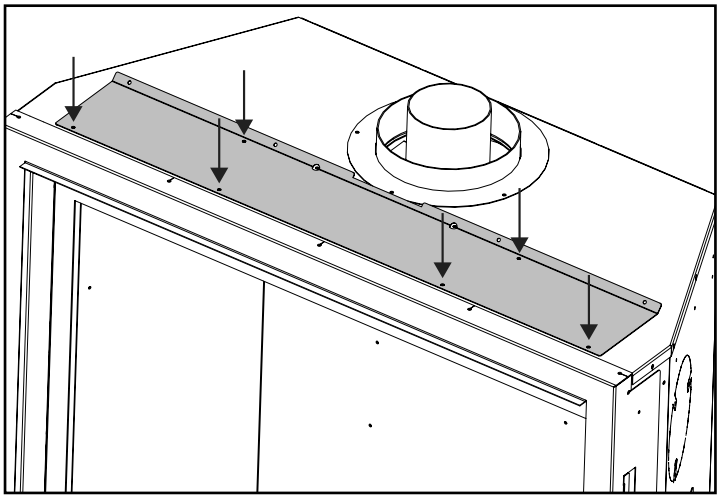
Note: The 2 standoffs at the rear of the appliance may be removed as these are not required in this application. Ensure that any screws that are removed are reinstalled. The 2 standoffs can be recycled/discarded.



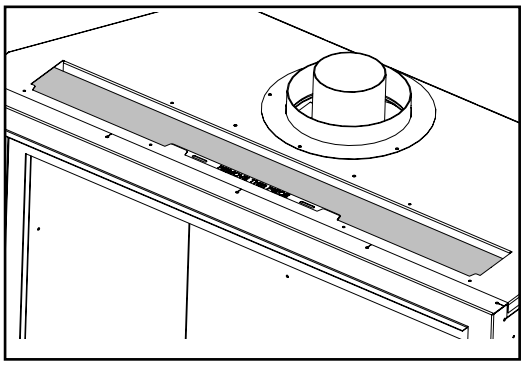
**The framing depth/width does not take into account dry wall/wood or similar materials against the back /side wall. The framing depth will need to change based on the thickness of the material
(example: M - 37-1/2" framing width + 1/2" drywall = 38")
(example: M Outside finish with finishing trim/faceplate - 37-1/2" framing width + 1/2" drywall = 38")
(example: O - 19" framing depth + 1/2" drywall = 19-1/2")

COOL WALL INSTALLATION - COOL WALL CONVERSION

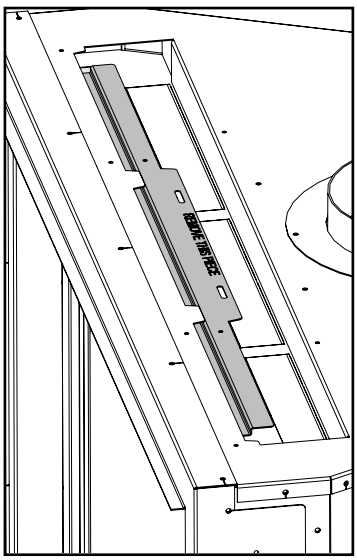
1. Remove six (6) screws to remove top panel.

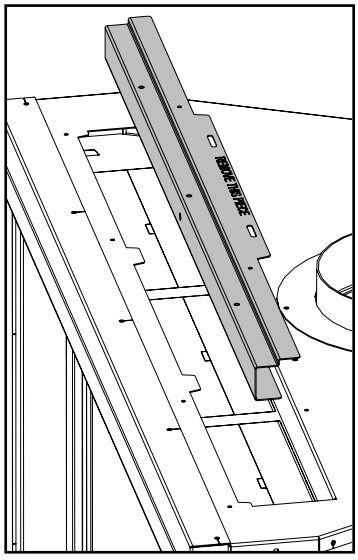


2. Remove insulation from top of unit and discard.

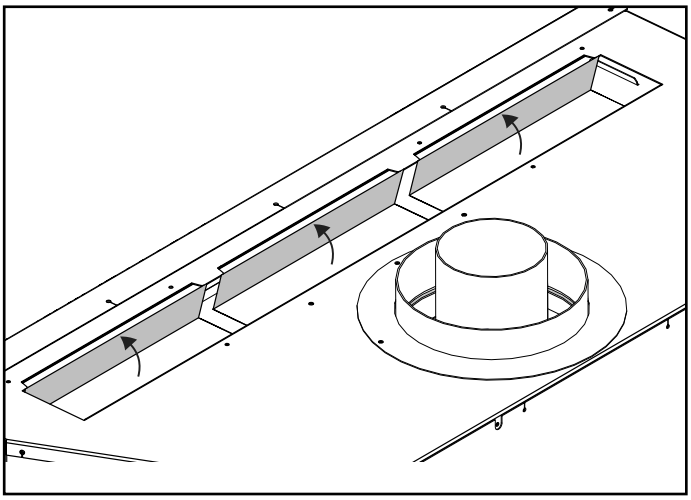


3. Slide out tab as shown to remove—recycle part.

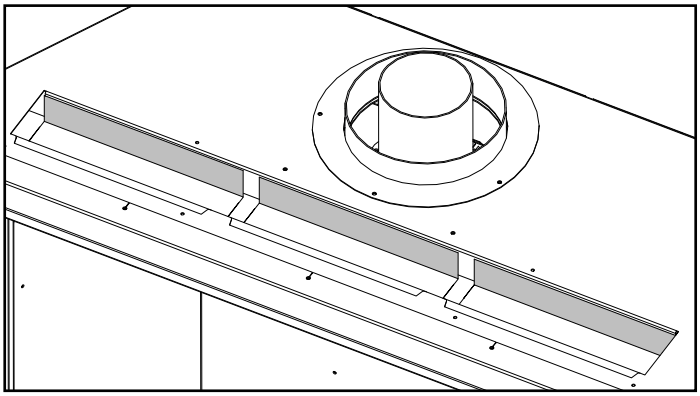




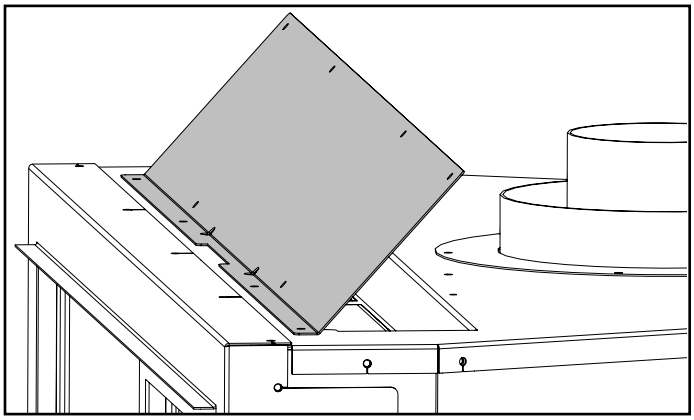
4. Insert a large slotted screwdriver into the slot in between front and back tabs—bend the three (3) tabs up 90° towards the front.
DO NOT REMOVE TABS



5 . Bend the rear three (3) tabs up 90° towards the back of the unit.



6. Flip top panel 180° and reinstall to top of unit with four(4) screws in locations shown below.



CHASE VENTING (COOL WALL)

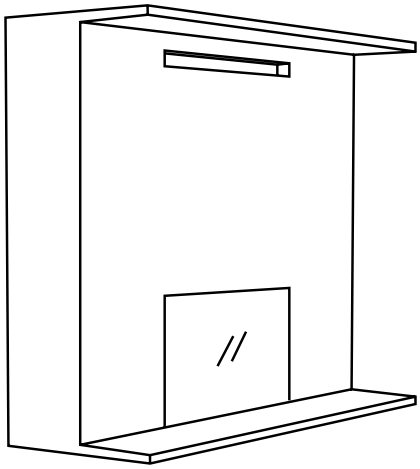
When choosing to install the ventilation openings from the front, the top of the ventilation opening must be flush with the top of the chase enclosure for all installations.
Minimum height of enclosure from base of appliance is 72" (1823mm).
A minimum 107in^2 opening in the enclosure is required to maintain safe operating temperatures. This can be achieved in a number of ways including the examples shown in this manual.

IMPORTANT:
Exterior wall/Alcove enclosure: When installing into an exterior cavity or alcove enclosure (ceiling, back and sides), regardless of where appliance is placed within the home, requires the use of either drywall or other means such as plywood, wood studs, etc. to prevent heat from escaping anywhere above /through the enclosure other than the required grill / ventilation opening.
Internal chase: When installing as an internal chase framing installation ,regardless of where appliance is placed within the home, requires the use of either drywall or other means such as plywood, on the rear wall of the chase to eliminate heat escaping into the rear wall cavity. If the chase is extended to the ceiling ,the ceiling will also need to be finished in a manner to prevent heat escaping into floor joist/attic space.

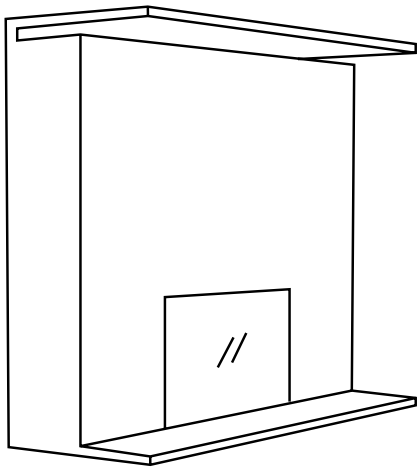
One of the following methods must be used to prevent the heat from escaping.
a. If choosing drywall, ensure that the drywall is butt up tight with no gaps.
b. Plywood, wood studs, etc. installed tightly with no gaps.

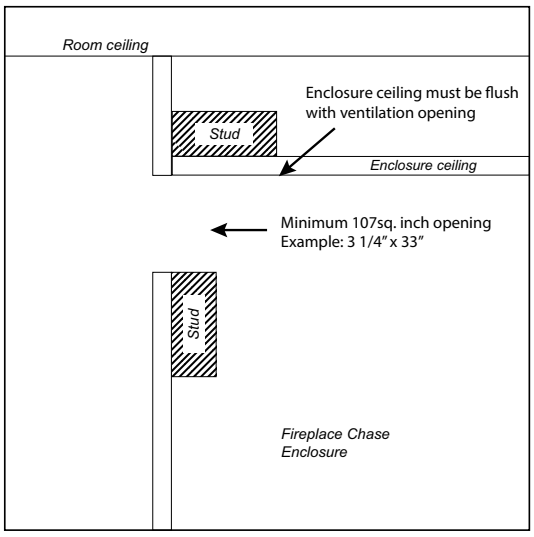
As this appliance has been designed with all hot air escaping through the chase enclosure ventilation/grill openings only, if hot air is trapped as a result of the hot air escaping through joints, crevasses, open studs, or other openings within the enclosure above, this will change the clearances within the enclosure causing the enclosure to overheat. It is vital that all the hot air from within the enclosure exits through the ventilation openings only.
Ensure that the ventilation openings are made as such to prevent debris, objects from falling into the enclosure.
Warning: DO NOT cover or place objects in front of the ventilation opening air outlet(s).

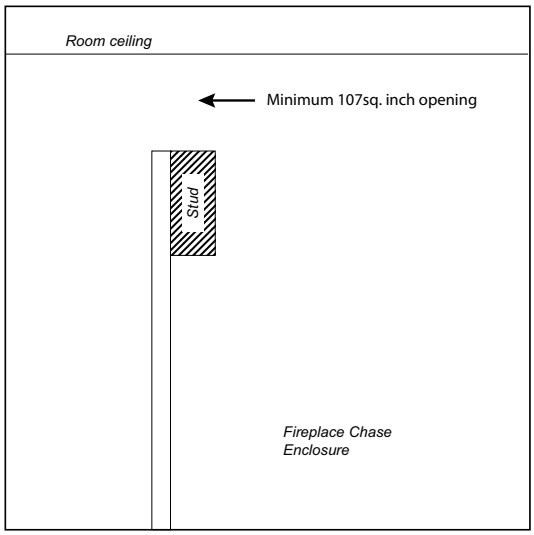
Example 1: Ventilation opening in chase wall, lower than room ceiling



Example 2: Ventilation opening reveal at room ceiling



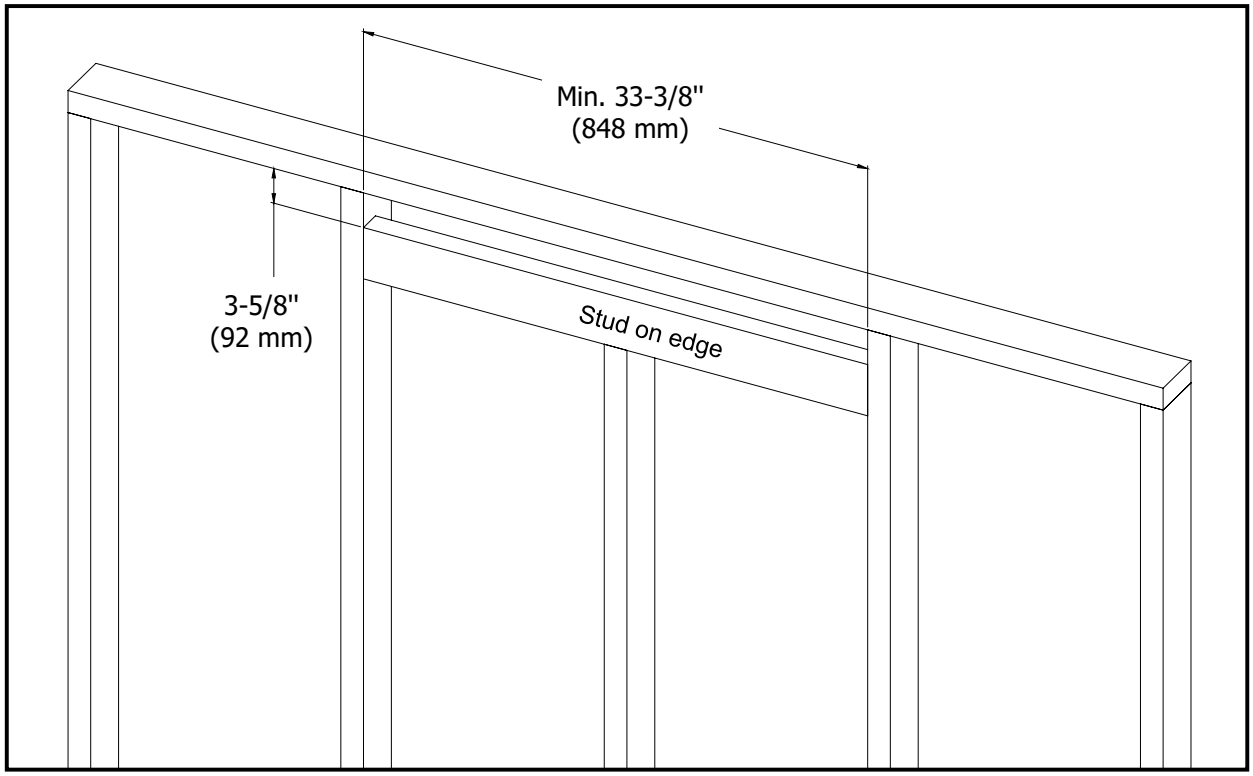


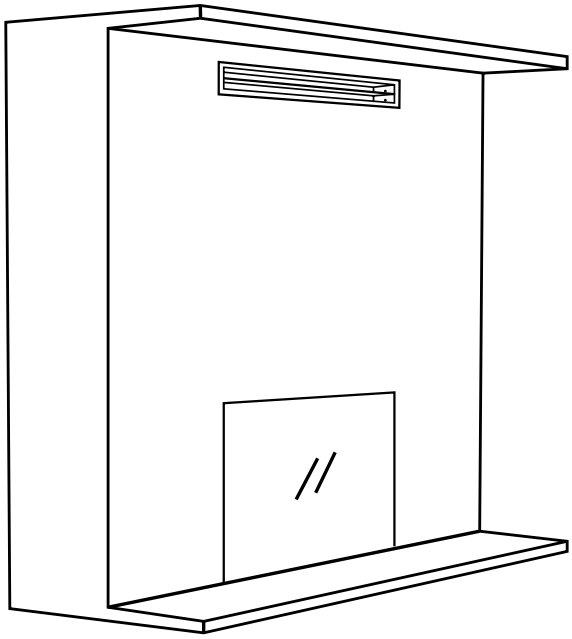


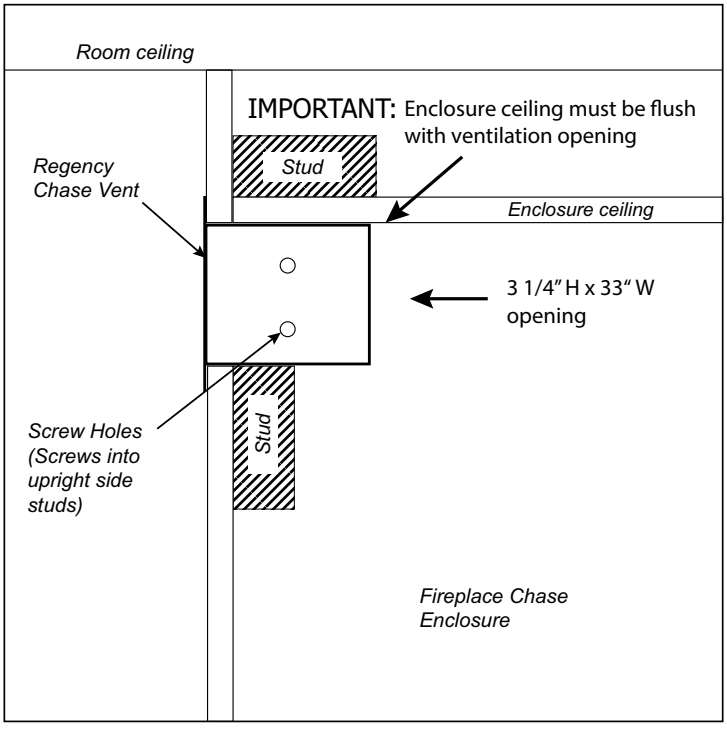
CHASE VENT ENCLOSURE (COOL WALL)

Framed opening must be at least 3-5/8" (92mm) tall, and at least 33-3/8" (848mm) wide to accomodate the Chase vent. The top of the Chase vent opening must be flush with the top of the chase enclosure. Fasten the Chase vent with screws and construction adhesive.

If the chase vent is not being used, a minimum 107in^2 (690cm^2) opening in the enclosure is required to maintain safe operating temperatures. This can be achieved in a number of ways including a reveal at the top of the chase.







CLEAN FRONT INSTALLATION (NON COOL WALL) - CLEARANCES

The clearances listed below are minimum distances unless otherwise stated:

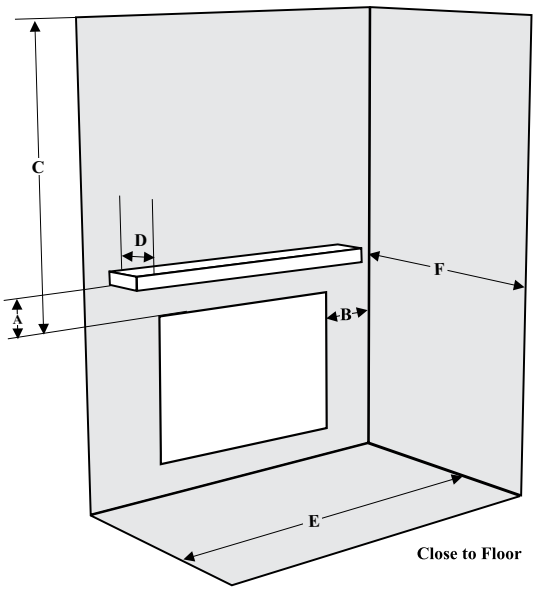
A major cause of chimney related fires is failure to maintain required clearances (air space) to combustible materials. It is of the greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

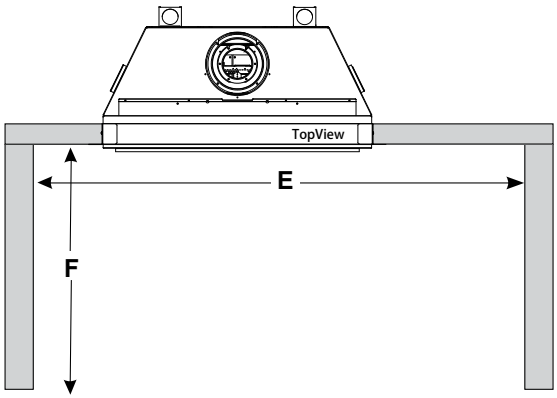
Caution Requirements
The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

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.

G800P Clearance Requirements		
Clearance:	**Dimension**	**Measured From:**
A: Mantel Height (min.)	21" (533 mm)	Top of Fireplace Opening
B: Sidewall	22" (559 mm)	Side of Fireplace Opening
C: Ceiling	36-1/2" (927 mm)	Top of Fireplace Opening
D: Mantel Depth (max.)	15" (381 mm)	Front of Fireplace Opening
E: Alcove Width	84" (2134 mm)	Wall to Wall (Minimum)
F: Alcove Depth	36" (914 mm)	Front to Back Wall (Maximum)
Notes:	0"	No Hearth Required

See mantle chart on next page.





Alcove

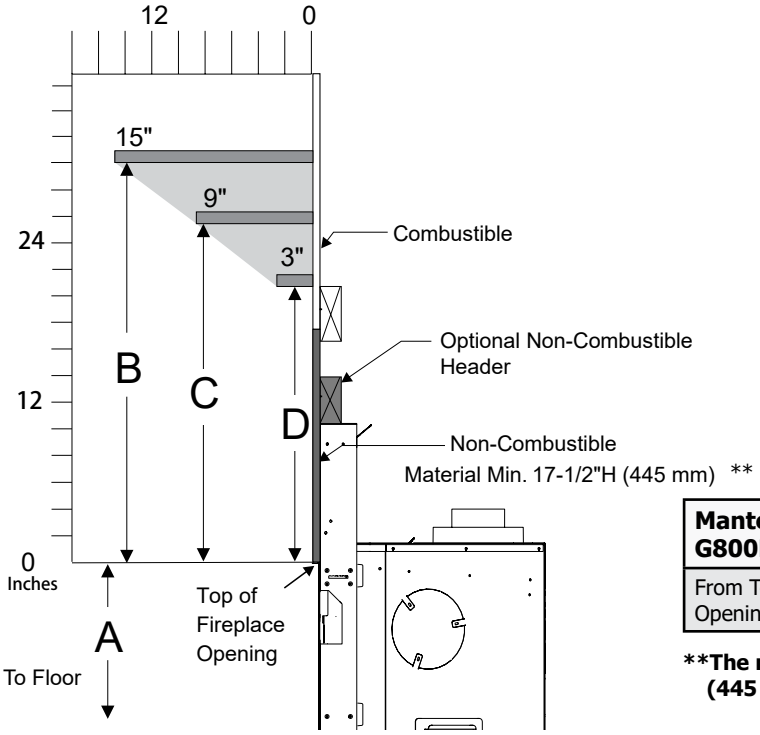
Minimum Vent Clearances to Combustibles

Horizontal Top	2" (51mm)
Horizontal Side	1-1/2 " (38mm)
Horizontal Bottom	1-1/2" (38mm)
Vertical Vent	1-1/2" (38mm)

CLEAN FRONT INSTALLATION (NON COOL WALL) - COMBUSTIBLE 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.

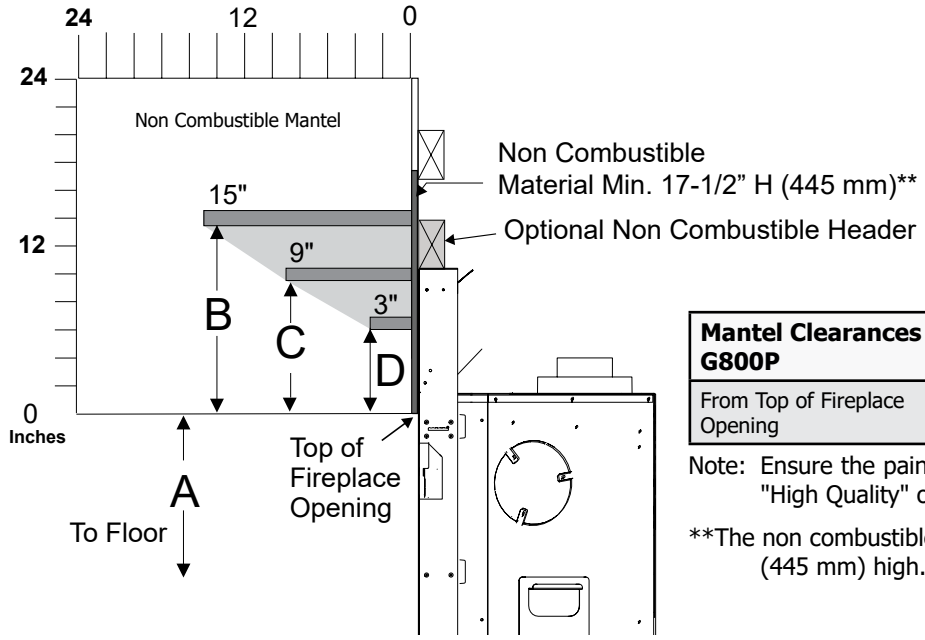


Mantel Clearances G800P	A	B	C	D
From Top of Fireplace Opening	32-1/2" (826 mm)	30" (762 mm)	25-1/2" (648 mm)	21" (533 mm)

****The non combustible board supplied with the appliance is 17-1/2" (445 mm) high.**

CLEAN FRONT INSTALLATION (NON COOL WALL) - NON COMBUSTIBLE MANTEL CLEARANCES

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

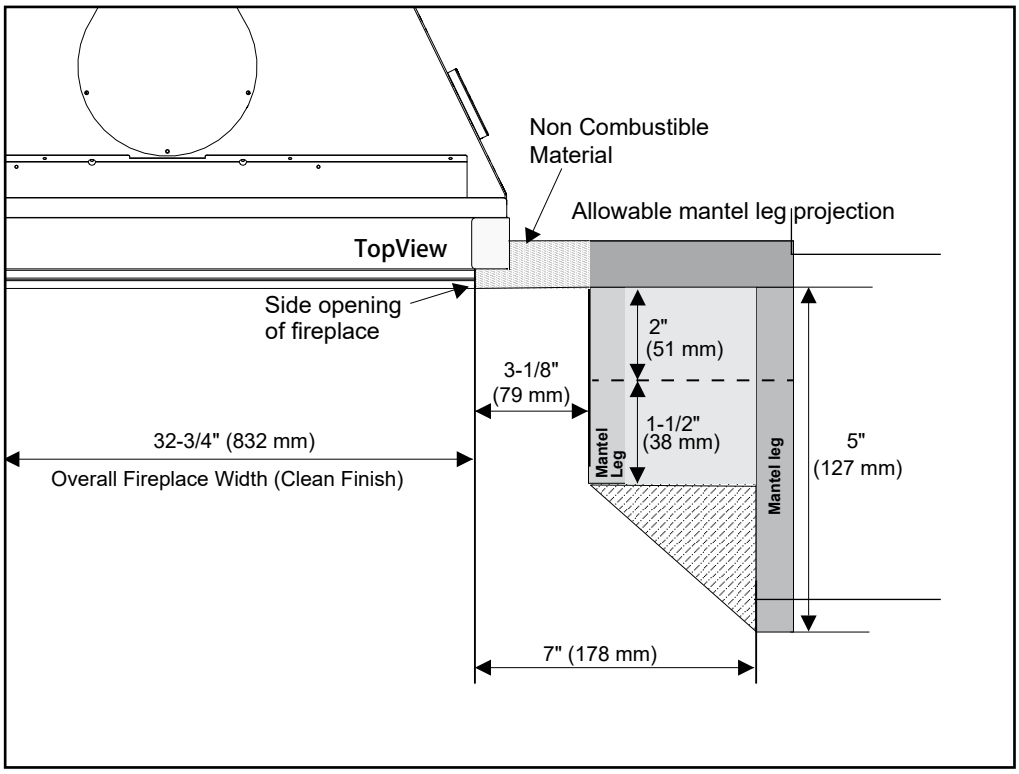


Mantel Clearances G800P	A	B	C	D
From Top of Fireplace Opening	32-1/2" (826 mm)	13-1/2" (343 mm)	9" (229 mm)	6" (152 mm)

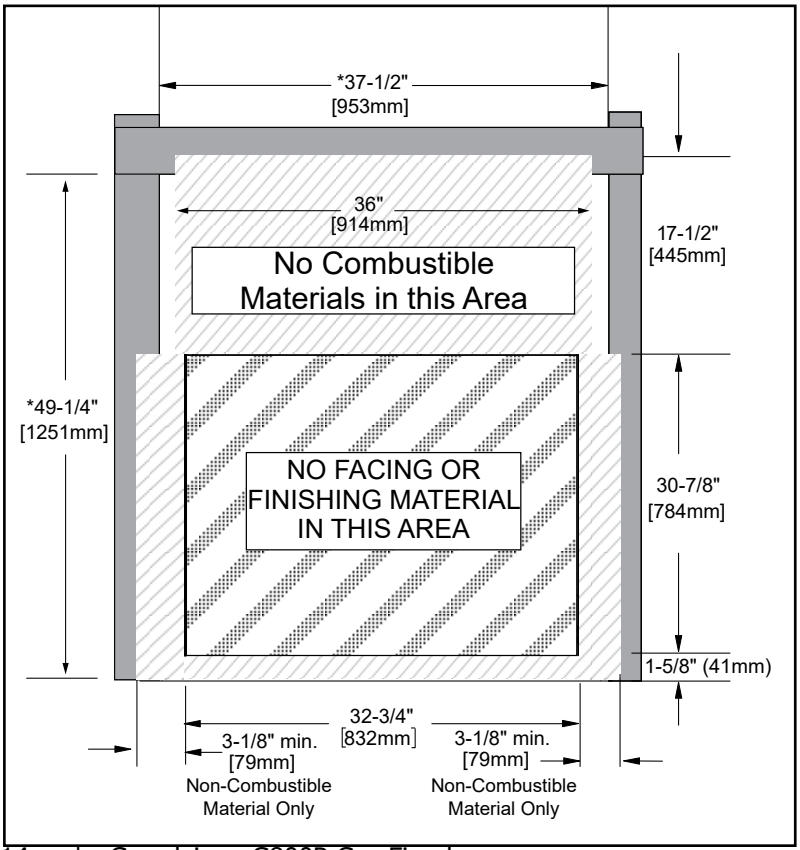
Note: Ensure the paint that is used on the mantel and the facing is "High Quality" or the paint may discolour.

**The non combustible board supplied with the appliance is 17-1/2" (445 mm) high.

CLEAN FRONT INSTALLATION (NON COOL WALL) - MANTEL LEG CLEARANCES



CLEAN FRONT INSTALLATION (NON COOL WALL) - NON-COMBUSTIBLE REQUIREMENTS

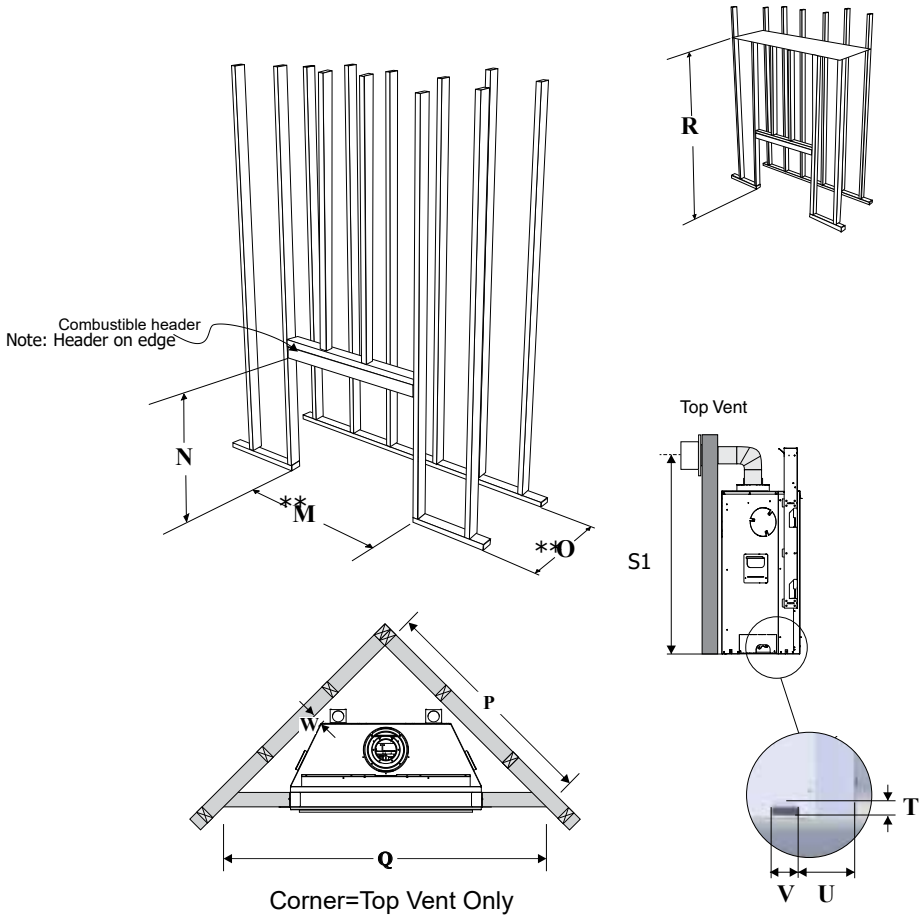


See framing dimensions in this manual.

NON COOL WALL INSTALLATION - FRAMING

Framing Dimensions	Description	Clean Front	Outside Finish
M	Framing Width	37-1/2" (953 mm)	37-1/2" (953 mm)
N*	Framing Height	49-1/4" (1251 mm)	
O	Framing Depth	20" (508 mm)	
P	Corner Facing Wall Width	44-3/8" (1127 mm)	
Q	Corner Facing Wall Width	62-7/8" (1597 mm)	
R	Framed Chase Ceiling	62" (1575 mm)	
S1	Vent Centerline Height	44-1/2" (1130 mm)	
T	Gas Connection Height	1-1/2" (38 mm)	
U	Gas Connection Inset	6-3/8" (162 mm)	
V	Gas Connection Width	3" (76 mm)	
W	Clearance to Corner of Unit	1"(25 mm)	
	Non-combustible Height	17-1/2" (445 mm)	16" (406 mm)

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



Corner=Top Vent Only

**The framing depth/width does not take into account dry wall/wood or similar materials against the back /side wall. The framing depth will need to change based on the thickness of the material
(example: M - 36-1/2" framing width + 1/2" drywall = 37")
(example: M Outside finish with finishing trim/faceplate - 37-1/2" framing width + 1/2" drywall = 38")
(example: O - 20" framing depth + 1/2" drywall = 20-1/2")

OUTSIDE FINISH INSTALLATION (NON COOL WALL) - CLEARANCES

The clearances listed below are minimum distances unless otherwise stated:

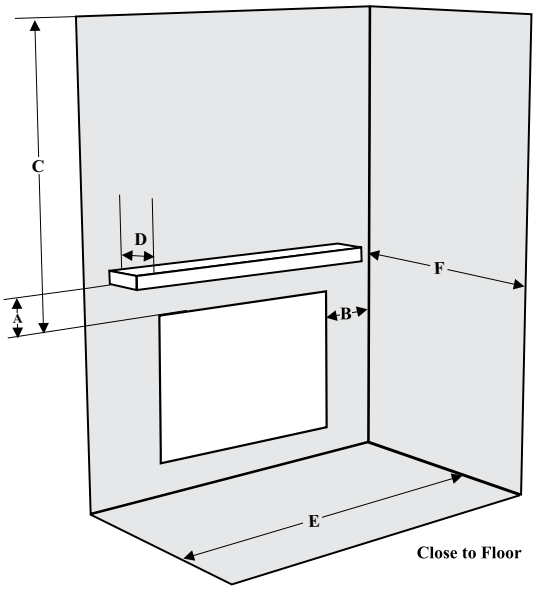
A major cause of chimney related fires is failure to maintain required clearances (air space) to combustible materials. It is of the greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

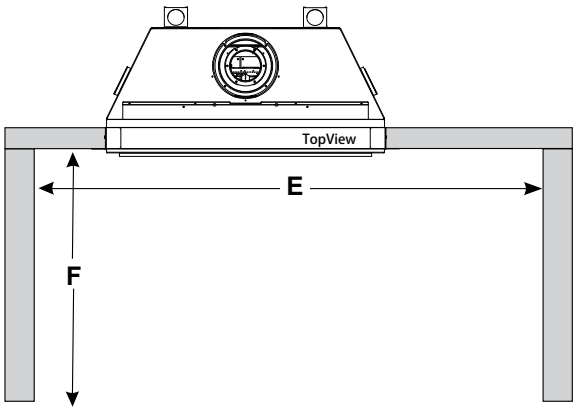
Caution Requirements
The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

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.

G800P Outside Finish Clearance Requirements		
Clearance:	**Dimension**	**Measured From:**
A: Mantel Height (min.)	19-1/2" (495 mm)	Top of Fireplace
B: Sidewall	22" (559 mm) one side only	Side of Fireplace Opening
C: Ceiling	36-1/2" (927 mm)	Top of Fireplace Opening
D: Mantel Depth (max.)	15" (381 mm)	Front of Fireplace Opening
E: Alcove Width	84" (2134 mm)	Wall to Wall (Minimum)
F: Alcove Depth	36" (914 mm)	Front to Back Wall (Maximum)
Notes:	0"	No Hearth Required

See mantle chart on next page.





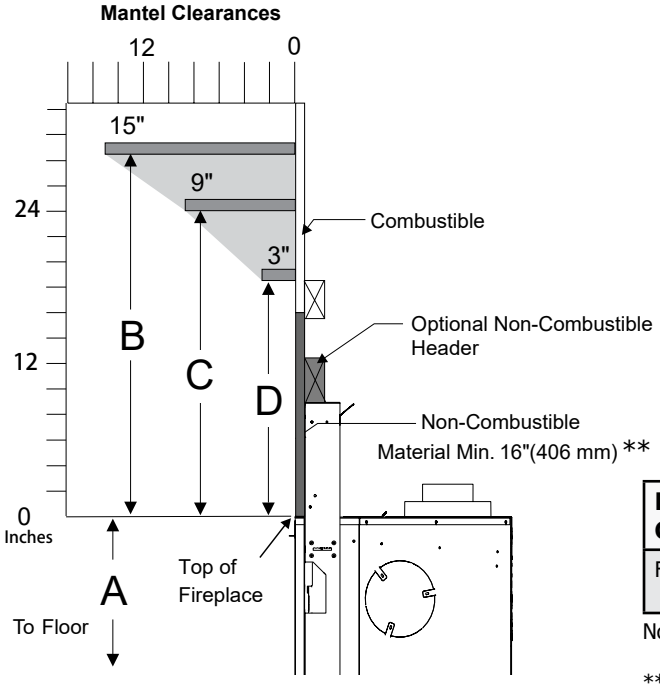
Alcove

Minimum Vent Clearances to Combustibles

Horizontal Top	2" (51mm)
Horizontal Side	1-1/2 " (38mm)
Horizontal Bottom	1-1/2" (38mm)
Vertical Vent	1-1/2" (38mm)

OUTSIDE FINISH INSTALLATION (NON COOL WALL) - COMBUSTIBLE 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.



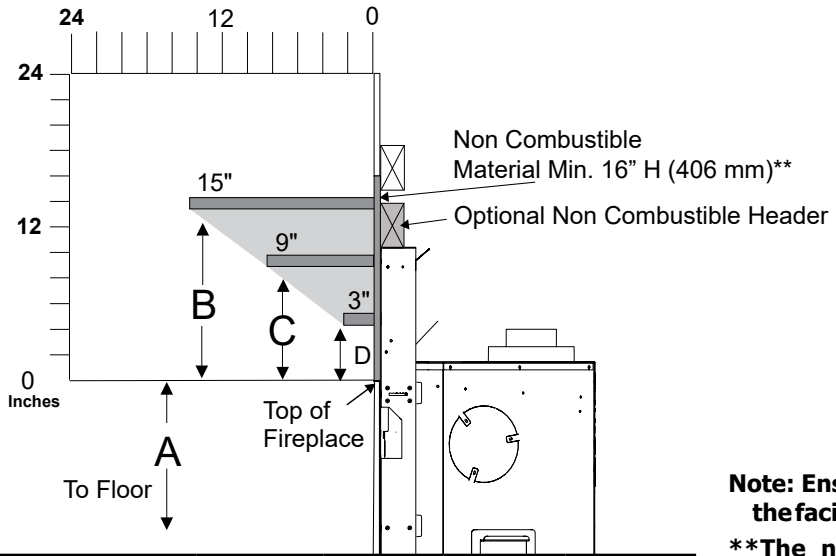
Mantel Clearances G800P	A	B	C	D
From Top of Fireplace	34" (864 mm)	28-1/2" (724 mm)	24" (610 mm)	19-1/2" (495 mm)

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

**The non combustible board supplied with the appliance is 17-1/2" (445 mm) high. This may be cut to size if desired.

OUTSIDE FINISH INSTALLATION (NON COOL WALL) - NON COMBUSTIBLE MANTEL CLEARANCES

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

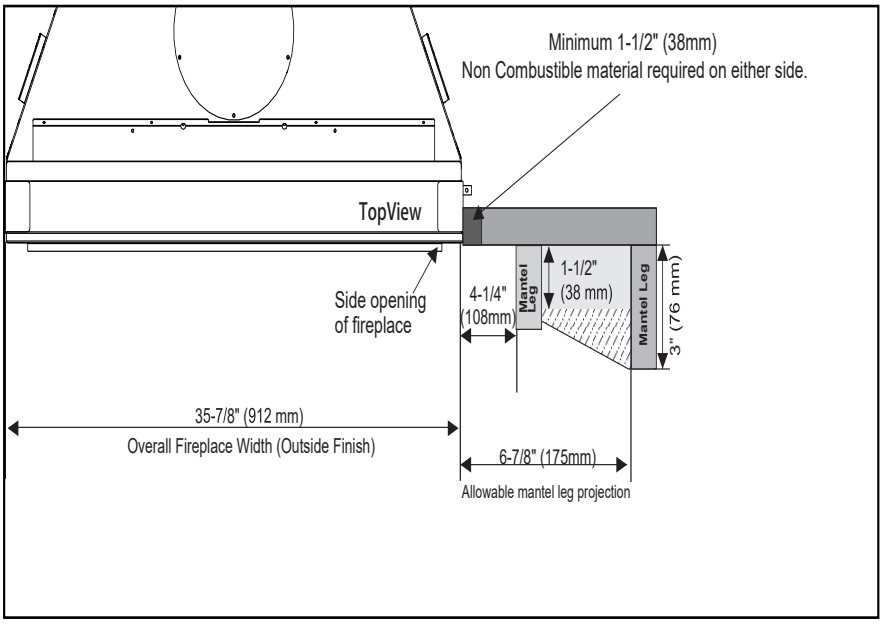


Mantel Clearances G800P	A	B	C	D
From Top of Fireplace	34" (864 mm)	13-1/2" (343 mm)	9" (229 mm)	4-1/2" (114 mm)

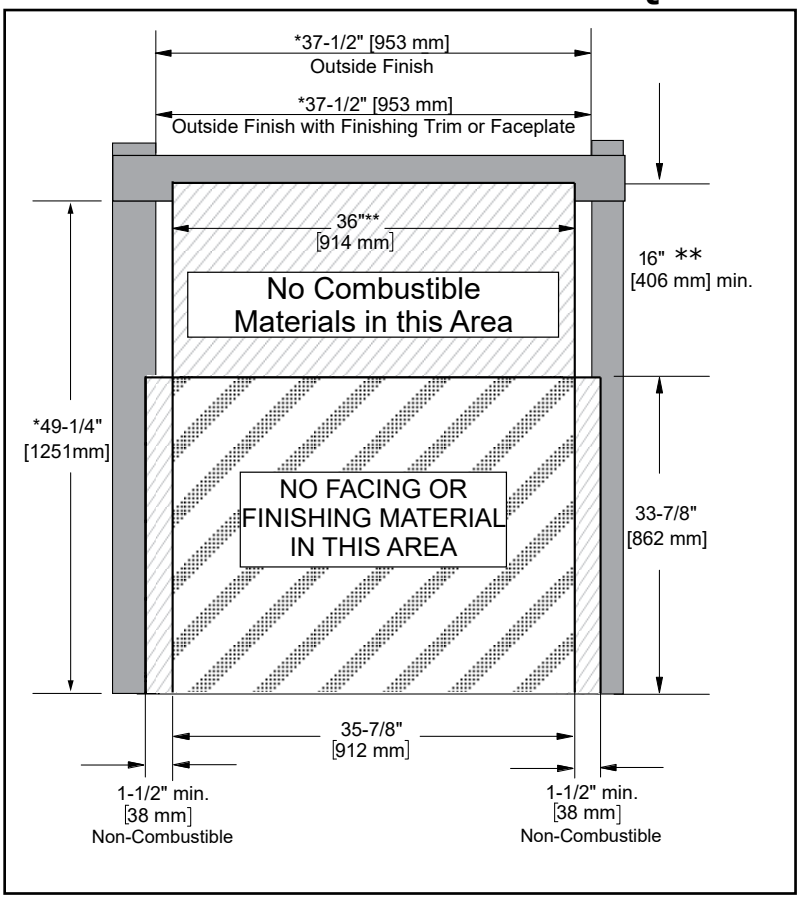
Note: Ensure the paint that is used on the mantel and the facing is "High Quality" or the paint may discolour.

****The non combustible board supplied with the appliance is 17-1/2" (445 mm) high. This may be cut to size if desired.**

OUTSIDE FINISH INSTALLATION (NON COOL WALL) - MANTEL LEG CLEARANCES



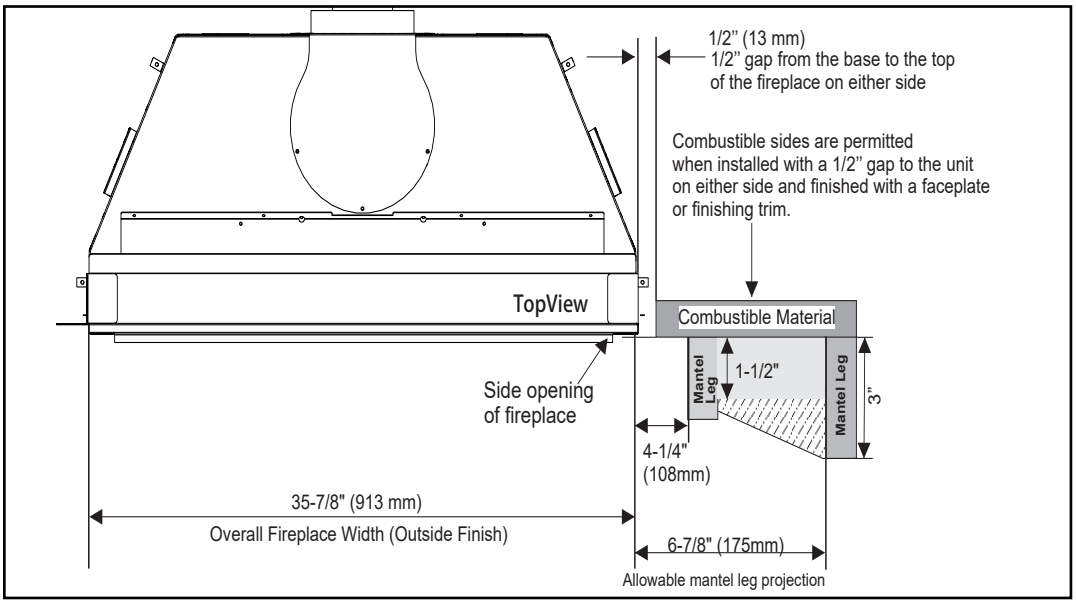
OUTSIDE FINISH INSTALLATION (NON COOL WALL) - NON-COMBUSTIBLE REQUIREMENTS



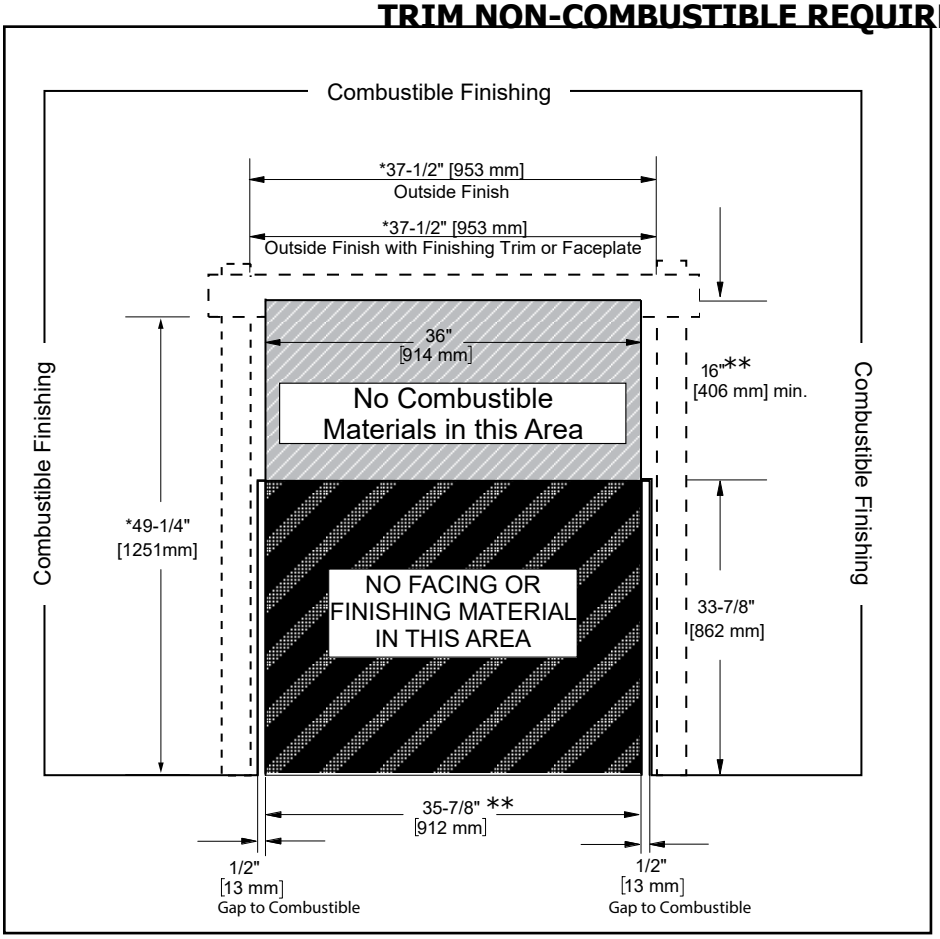
*See framing dimensions in this manual.

****The non combustible board supplied with the appliance is 36" (508 mm) wide to satisfy the requirement for above.**
****The non combustible board supplied with the appliance is 17-1/2" (445 mm) high. This may be cut to size if desired.**

OUTSIDE FINISH INSTALLATION (NON COOL WALL) WITH FACEPLATE OR FINISHING TRIM MANTEL LEG CLEARANCES



OUTSIDE FINISH INSTALLATION (NON COOL WALL) WITH FACEPLATE OR FINISHING TRIM NON-COMBUSTIBLE REQUIREMENTS



*See framing dimensions in this manual.

**The non combustible board supplied with the appliance is 36" (508 mm) wide to satisfy the requirement for above.
**The non combustible board supplied with the appliance is 17-1/2" (445 mm) high. This may be cut to size if desired.

WALL BOARD/DRYWALL INSTALLATION G800P

WARNING! Risk of Fire! Comply with all minimum clearances to combustibles as specified.

Finishing Instructions:
It is important to follow the framing and finishing instructions to ensure proper placement of fireplace into the surrounding framing/finishing materials. Wall board materials 1/2 in. thick are specified in this installation manual to properly align with the optional finishing methods offered with this appliance. The G800P may be finished to the appliance opening with 1/2 inch thick drywall or non combustible material depending on the application and requirements. The nailing flanges allow for adjustments up to 1-1/4" thickness of material.

• Ensure that the back and side clearances are maintained.

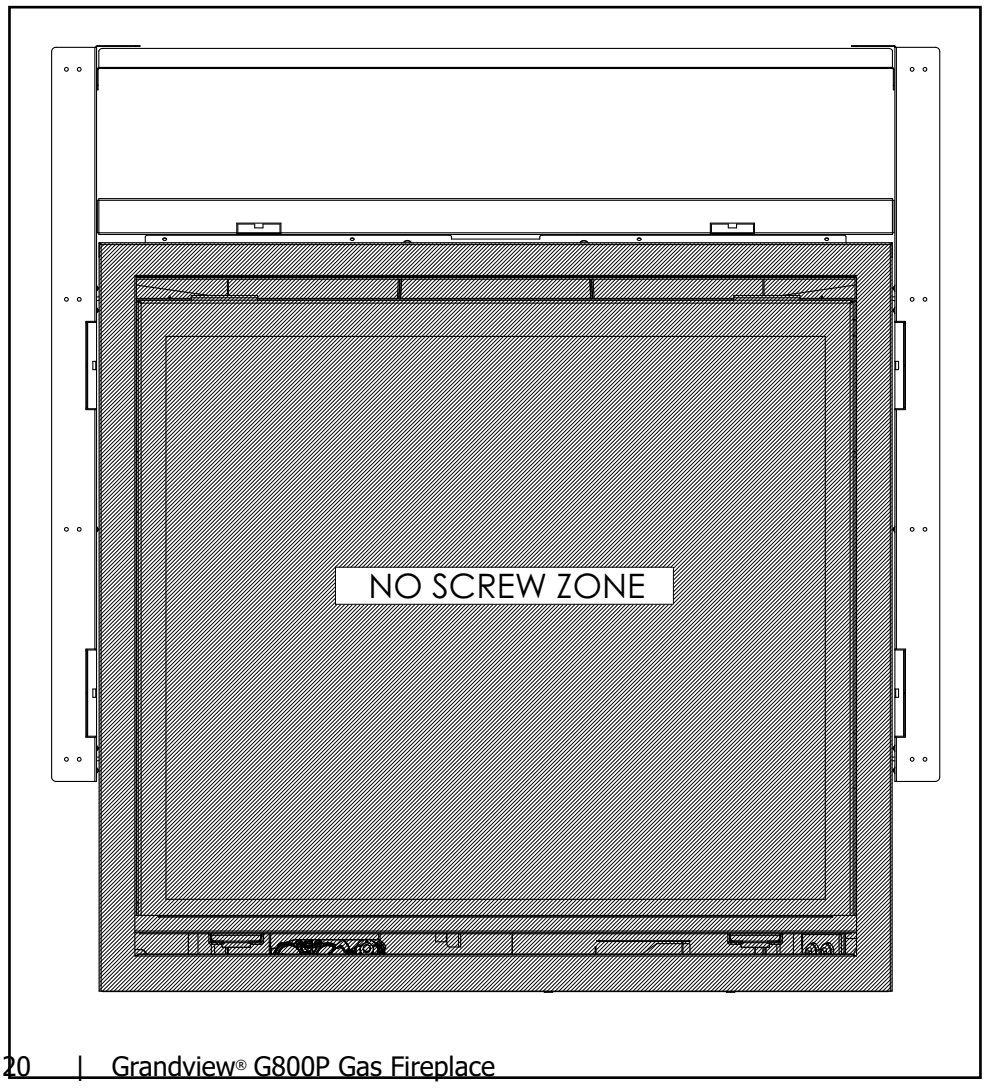
WARNING! Risk of Fire! Maintain specified air space clearances to combustibles. Inadequate air space could cause overheating and fire.

The appliance is designed to be used with 1/2 in. wall sheathing materials such as drywall, plywood, wood composites, or non-combustible materials. Thicker materials may be used. Refer to facing and finishing details in this manual.

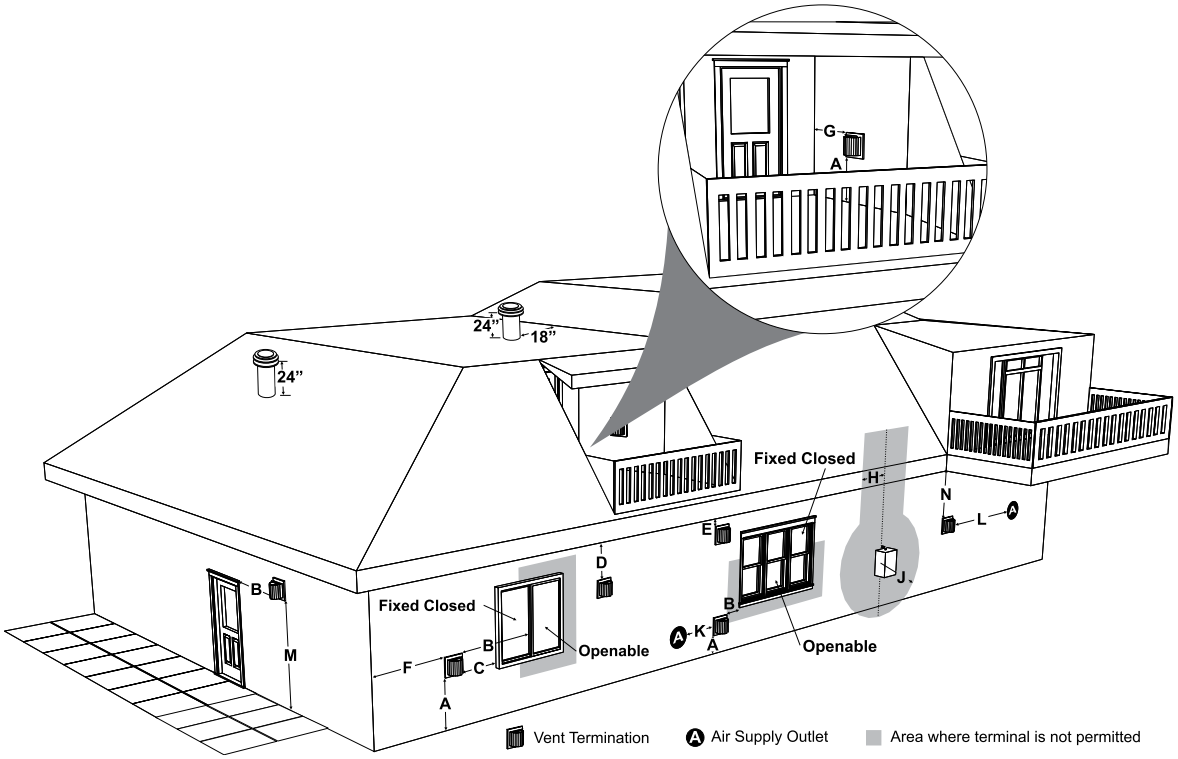
Facing Material
• Facing and/or finishing materials must never overhang into the glass opening.
• Facing materials may be combustible or non-combustible

WARNING! Risk of Fire! DO NOT apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this manual. Overlapping materials could ignite and will interfere with proper operation.

PAINTING
If desired finishing includes a painted wall, 100% acrylic latex, oil-based or standard acrylic paints may be used.
Follow paint manufacturer's instructions for paint and primer application.



EXTERIOR VENT TERMINATION REQUIREMENTS (NON POWER VENT)



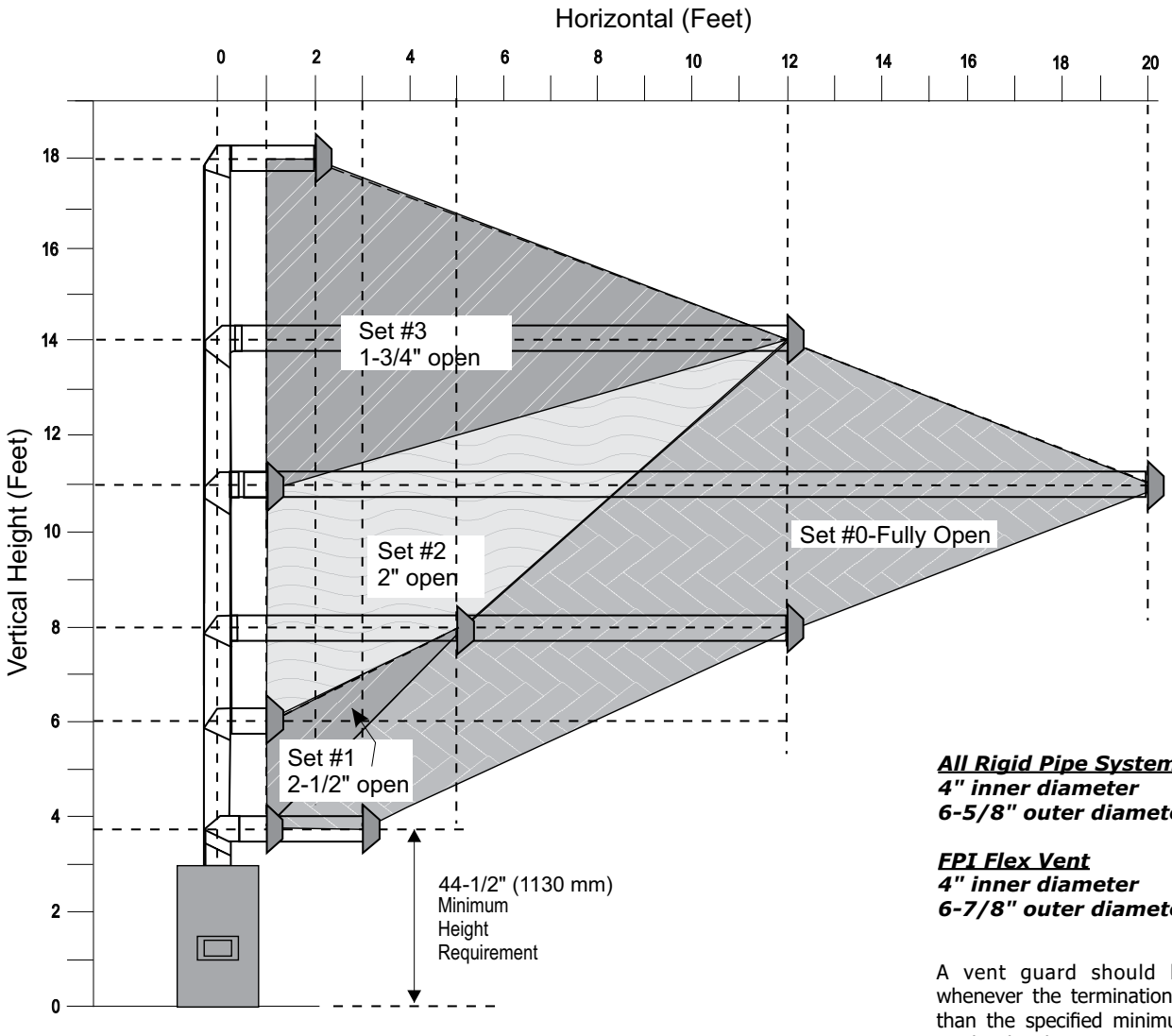
	Minimum Clearance Requirements	Canada[1]	USA[2]
A	Clearance above grade, veranda, porch, deck, or balcony	12" (30cm)	12" (30cm)
B	Clearance to window or door that may be opened	12" (30cm)	9" (23cm)
C	Clearance to permanently closed window	*	*
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (61cm) from the center line of the terminal (check with the local code)	24" (60cm)	24" (60cm)
E	Clearance to unventilated soffit - AstroCap - 18" Clearance to unventilated soffit - Duravent - 15"	18" (46cm) 15" (38cm)	18" (46cm) 15" (38cm)
F	Clearance to outside corner: with ***AstroCap*** Termination Cap.	8" (20cm)	8" (20cm)
	Clearance to outside corner: with all other approved Termination Caps.	13" (33cm)	13" (33cm)
G	Clearance to inside corner: with ***AstroCap*** Termination Cap	8" (20cm)	8" (20cm)
	Clearance to inside corner: with all other approved Termination Caps.	11" (28cm)	11" (28cm)
H	Clearance to each side of center line extended above meter/regulator assembly	36" (90cm)[a]	*
J	Clearance to service regulator vent outlet	36" (90cm)	*
K	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance	12" (30cm)	9" (23cm)
L	Clearance to a mechanical air supply inlet #3' (91cm) above if within 10' (3m) horizontally.	72" (1.8m)	36" (90cm)[b]
M	Clearance above paved sidewalk or a paved driveway located on public property†	84" (2.1m)†	*
N	Clearance under veranda, porch, deck, or balcony‡	12" (30cm)‡	*

[1] In accordance with current CSA B149.1, *Natural Gas and Propane Installation Code*
[2] In accordance with the current *ANSI Z223.1/NFPA 54, National Fuel Gas Code*
† A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings
‡ Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor
* Clearance in accordance with local installation codes and the requirements of the gas supplier
[a] 3 feet (91cm) within a height of 15 feet (4.5m) above the meter / regulator assembly
[b] 3 feet (91cm) above - if within 10 feet (3m) horizontally

VENTING ARRANGEMENTS - HORIZONTAL TERMINATION - RIGID PIPE AND DIRECT VENT SYSTEM (FLEX) (NON POWER VENT)

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

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



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

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

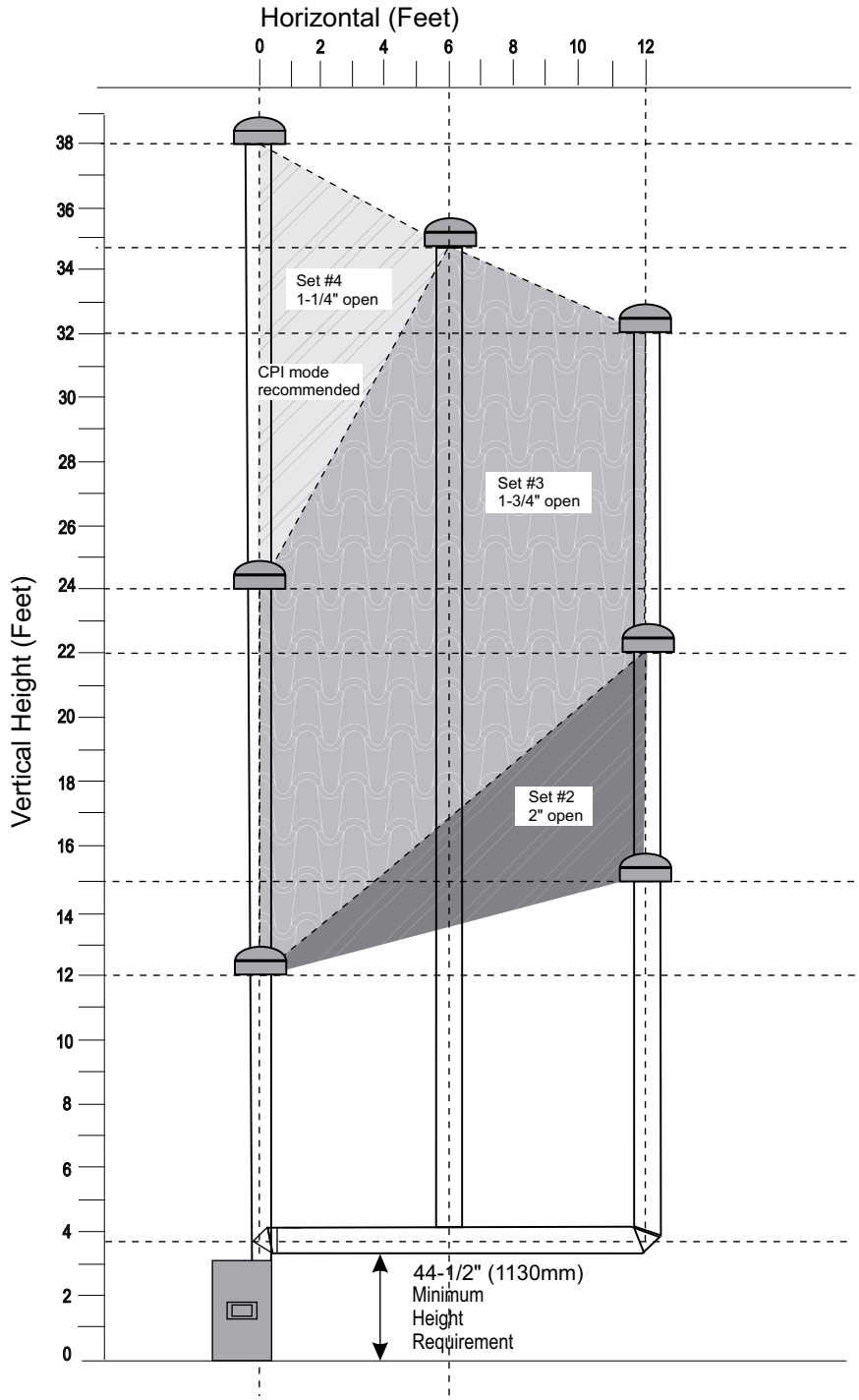
A vent guard should be used whenever the termination is lower than the specified minimum or as per local codes.

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

Note: FPI Direct Vent Flex System Part #: 946-515 (4 foot) and 946-516 (10 foot) are only approved for horizontal terminations.
For vent runs longer than 10 ft, only rigid pipe systems may be used.

VENTING ARRANGEMENTS VERTICAL TERMINATION - RIGID PIPE SYSTEM AND VERTICAL FLEX KIT TO SAME LIMITATIONS (NON POWER VENT)

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 vent systems for Propane and Natural Gas.

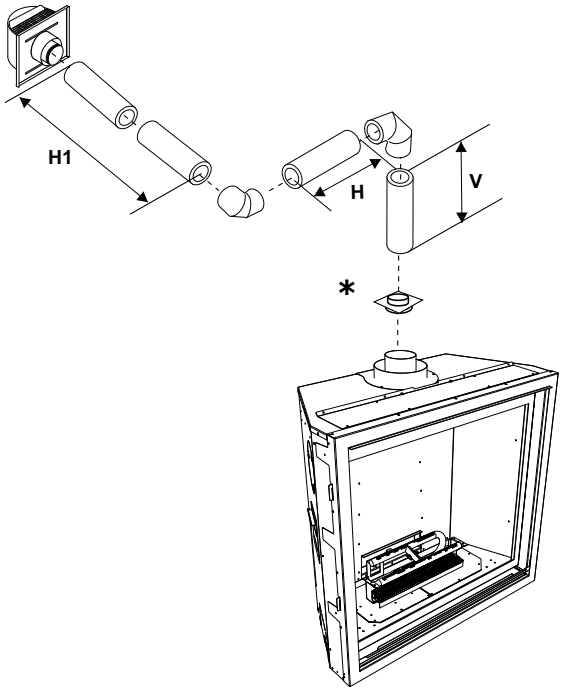


- Vent must be supported at offsets.
- Firestops are required at each floor level and whenever passing through a wall.
- Maintain clearances to combustibles.

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

HORIZONTAL TERMINATIONS - TWO 90° ELBOWS - RIGID PIPE AND DIRECT VENT SYSTEM (FLEX) (NON POWER VENT) (PROPANE & NATURAL GAS)

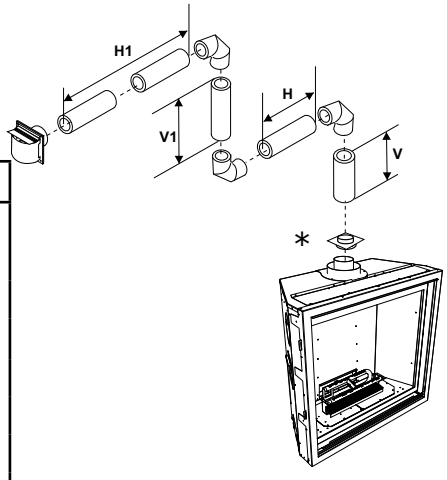
Flex venting limited to a maximum of 10 ft. For vent runs longer than 10 ft, only rigid pipe systems may be used.



One 90° elbow = Two 45° elbows.			
Option	**V**	**H + H1**	With these options, maximum total pipe length is 30 feet (9.14 m) with minimum of 6 feet (1.82 m) total vertical and maximum 8 feet (2.44 m) total horizontal. Please note minimum 1 foot (0.3 m) between 90° elbows is required.
A)	1' (0.3 m) Min.	2' (0.61 m) Max.	
B)	1' (0.3 m) Min.	3' (0.91 m) Max.	
C)	2' (0.61 m) Min.	4' (1.22 m) Max.	
D)	3' (0.91 mm) Min.	5' (1.52 m) Max.	
E)	4' (1.22 m) Min.	6' (1.82 m) Max.	
F)	5' (1.52 m) Min.	7' (2.13 m) Max.	
G)	6' (1.82 m) Min.	8' (2.44 m) Max	
Restrictor Set 0 fully open. Lengths do not include elbows indicated. *Required when using rigid venting.			

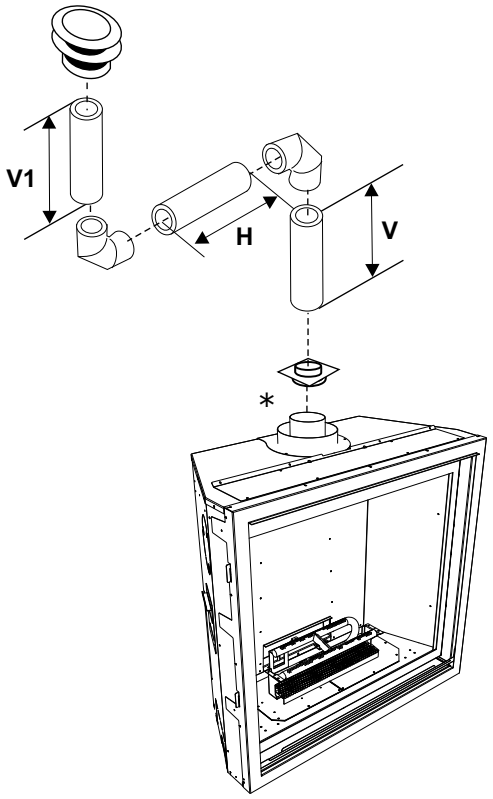
HORIZONTAL TERMINATIONS - THREE 90° ELBOWS - RIGID PIPE AND DIRECT VENT SYSTEM (FLEX) (NON POWER VENT) (PROPANE & NATURAL GAS)

Flex venting limited to a maximum of 10 ft. For vent runs longer than 10 ft, only rigid pipe systems may be used.



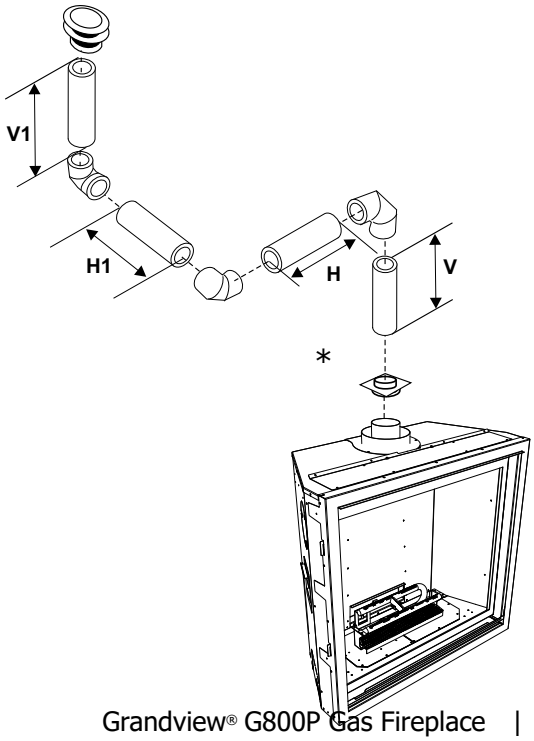
One 90° elbow = Two 45° elbows.					
Option	**V**	**H**	**V + V1**	**H + H1**	With these options, max. total pipe length is 30 feet (9.14 m) with min. of 12 feet (3.66 m) total vertical and max. 9 feet (2.79 m) total horizontal. Please note min. 1 foot (0,3 m) between 90° elbows is required.
A)	1' (0.3 m) Min.	1' (0.3 m) Max.	2' (0.61 m) Min.	2' (0.61 m) Max.	
B)	1' (0.3 m) Min.	2' (0.61 m) Max.	3' (0.91 m) Min.	3' (0.91 m) Max.	
C)	2' (0.61 m) Min.	2' (0.61 m) Max.	5' (1.52 m) Min.	4' (1.22 m) Max.	
D)	3' (0.91 m) Min.	2' (0.61 m) Max.	7' (2.13 m) Min.	5' (1.52 m) Max.	
E)	4' (1.22 m) Min.	3 (0.91 m) Max.	9' (2.74 m) Min.	6' (1.82 m) Max.	
F)	5' (1.52 m) Min.	4' (1.22 m) Max.	10' (3.04 m) Min.	7' (2.13 m) Max.	
G)	6' (1.82 m) Min.	5' (152 m) Max.	11' (3.35 m) Min.	8' (2.44 m) Max.	
H)	7' (2.13 m) Min.	6' (1.82 m) Max.	12' (3.66 m) Min.	9' (2.74 m) Max.	
Restrictor Set 0 fully open. Lengths do not include elbows included. *Required when using rigid venting					

VERTICAL TERMINATIONS - VERTICAL VENTING WITH TWO 90° ELBOWS (NON POWER VENT) (PROPANE & NATURAL GAS) RIGID PIPE SYSTEM AND VERTICAL FLEX KIT TO SAME LIMITATIONS



One 90° elbow = Two 45° elbows.				
Option	**V**	**H**	**V + V1**	With these options, maximum total pipe length is 30 feet with minimum of 7 feet total vertical and maximum 8 feet total horizontal. ***Please note minimum 1 foot between 90° elbows is required.***
A)	0' Min.	2' Max.	1' Min.	
B)	1' Min.	4' Max.	3' Min.	
C)	2' Min.	5' Max.	4' Min.	
D)	3' Min.	6' Max.	5' Min.	
E)	4' Min.	7' Max.	6' Min.	
F)	5' Min.	8' Max.	7' Min.	
Restrictor Set 0 fully open. Lengths do not include elbows included. ***Required when using rigid venting**				

VERTICAL VENTING WITH THREE 90° ELBOWS (NON POWER VENT) (PROPANE & NATURAL GAS) RIGID PIPE SYSTEM AND VERTICAL FLEX KIT TO SAME LIMITATIONS



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

VENTING ARRANGEMENTS WITH CO-LINEAR FLEX SYSTEM INTO A MASONRY CHIMNEY (NON POWER VENT) (PROPANE & NATURAL GAS)

THE APPLIANCE MUST NOT BE CONNECTED TO A CHIMNEY FLUE SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE.

This appliance is designed to be attached to two 3" (76mm) co-linear aluminium flex running the full length of the chimney. See the Venting Arrangements on next page for minimum and maximum heights.

Required Parts:

Part #	Description
946-529	Co-linear DV Vertical Termination Cap
948-305	3" Flex - 35 ft.
946-563	Co-Axial to Co-Linear Adapter Kit which contains the following: Co-linear Flex Adapter Outer Pipe Inner Pipe Adapter
510-994	Rigid Pipe Adapter

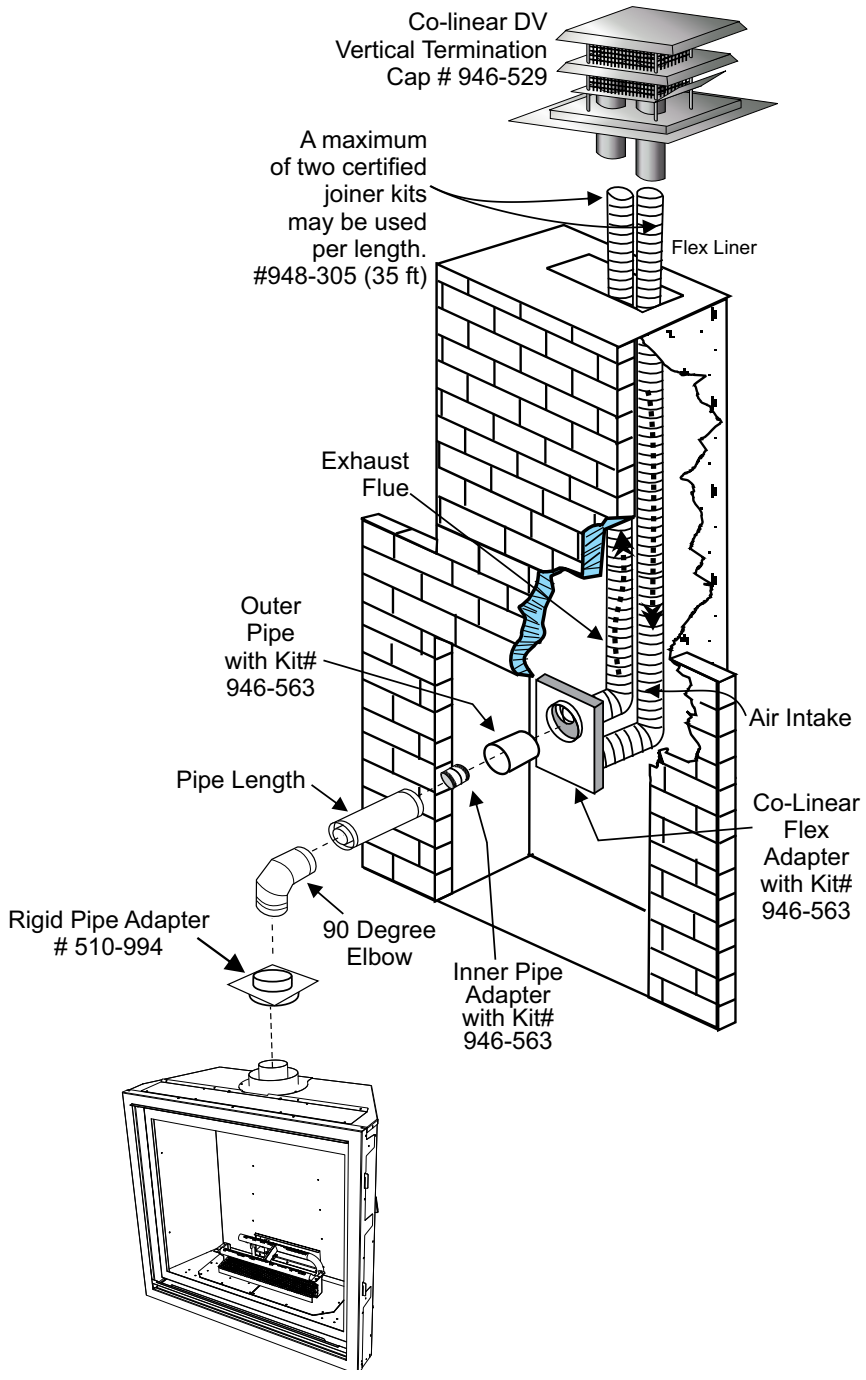
Alternate Approved Caps

46dva-VC	Vertical Termination Cap
46dva-VCH	High Wind Cap
46dva-GK	3" Co-linear Adapter with flashing

NOTE:
See detailed venting arrangements, vertical terminations, co-linear flex system into masonry fireplaces in this manual.

Masonry chimneys may take various contours which the flexible liner will accommodate. However, **keep the flexible liner as straight as possible**, avoid unnecessary bending.

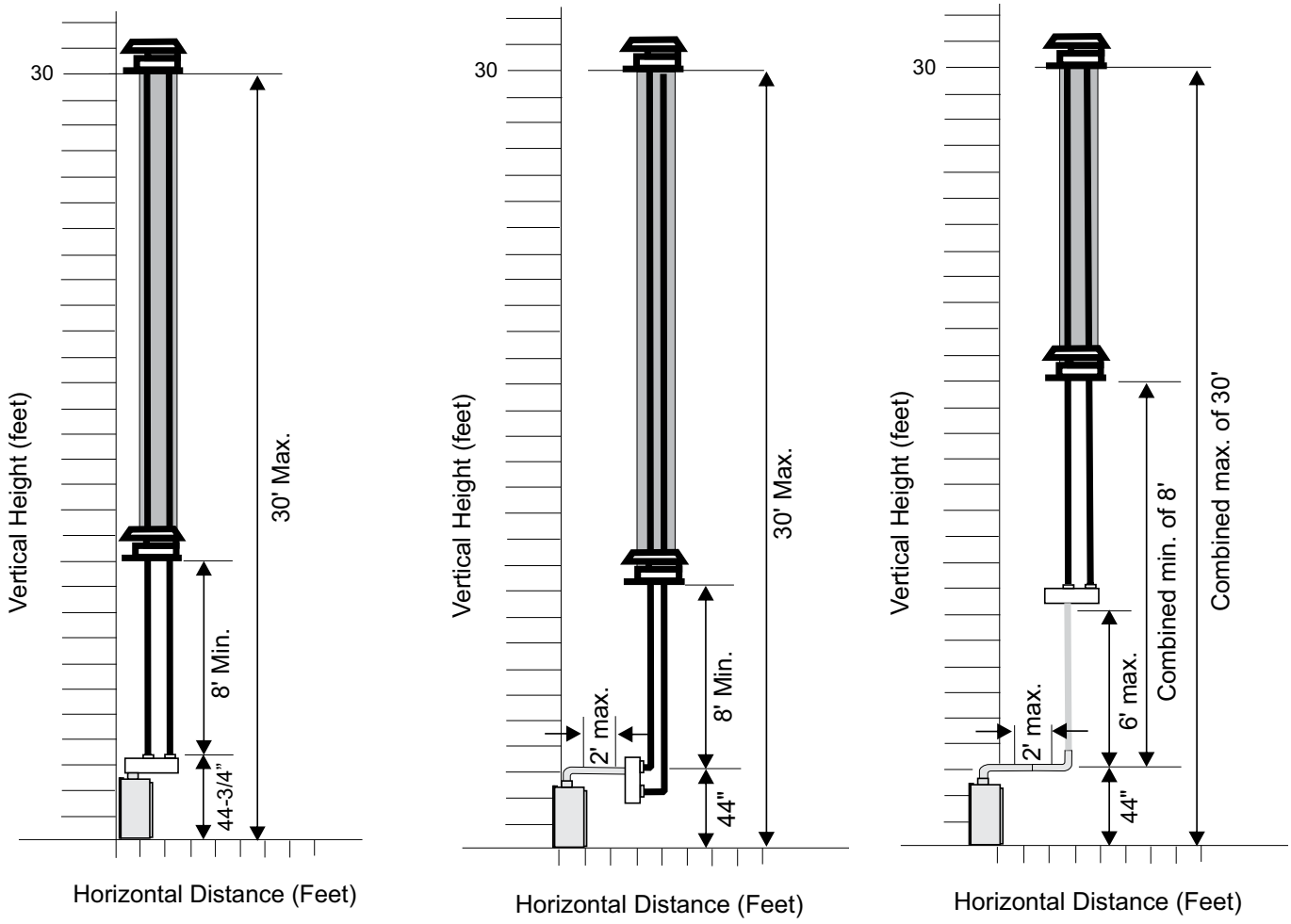
The Air Intake pipe must be attached to the inlet air collar of the termination cap.



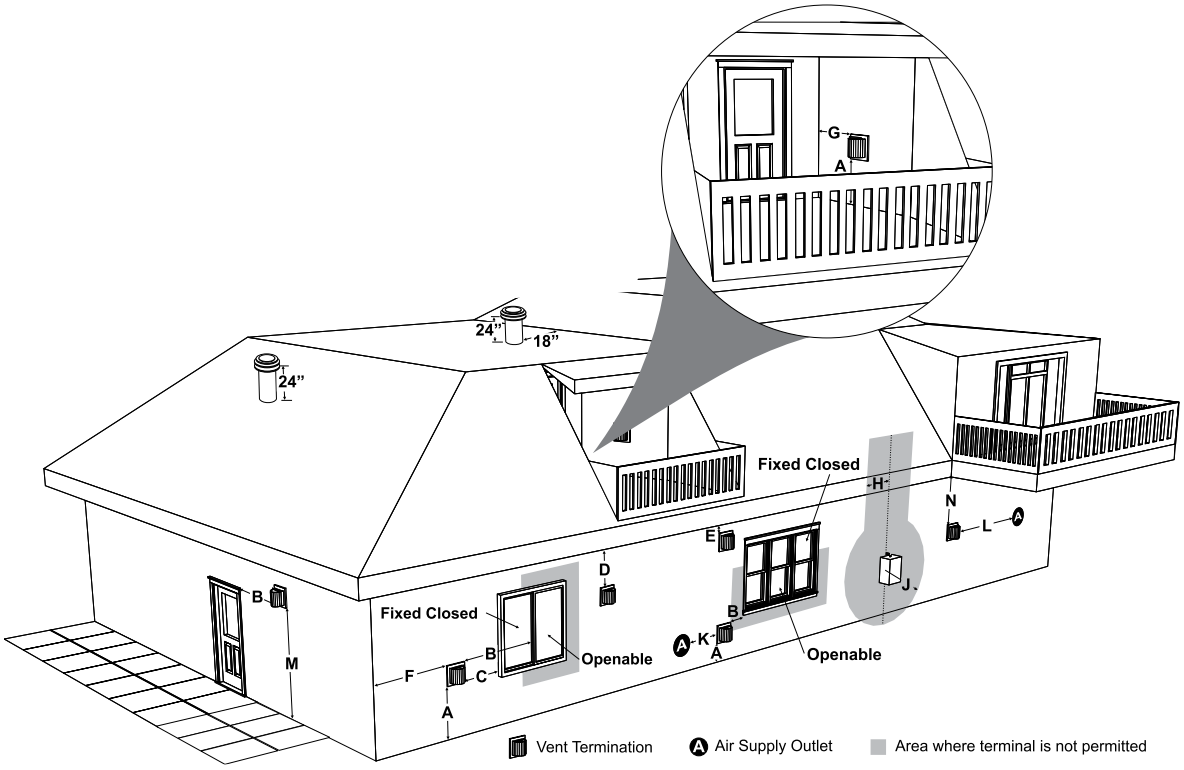
VENTING ARRANGEMENT - VERTICAL TERMINATIONS - CO-LINEAR FLEX SYSTEM INTO MASONRY FIREPLACES (NON POWER VENT) (PROPANE & NATURAL GAS)

FOR BOTH RESIDENTIAL & MANUFACTURED HOMES

Restrictor at Set 2 (2" Open)



EXTERIOR VENT TERMINATION LOCATIONS (POWER VENT)



	Minimum Clearance Requirements	Canada[1]	USA[2]
A	Clearance above grade, veranda, porch, deck, or balcony	12" (30cm)	12" (30cm)
B	Clearance to window or door that may be opened	12" (30cm)	9" (23cm)
C	Clearance to permanently closed window	*	*
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (61cm) from the center line of the terminal (check with the local code)	29" (74cm)	29" (74cm)
E	Clearance to unventilated soffit	29" (74cm)	29" (74cm)
F	Clearance to outside corner: with ***PowerVent*** Termination Cap (End of line) Clearance to outside corner: with AstroCap Termination Cap (Inline)	7" (18cm)	7" (18cm)
G	Clearance to inside corner: with ***PowerVent*** Termination Cap (End of line) Clearance to inside corner: with Astro Cap Termination Cap (Inline)	7" (18cm)	7" (18cm)
H	Clearance to each side of center line extended above meter/regulator assembly	36" (90cm)[a]	*
J	Clearance to service regulator vent outlet	36" (90cm)	*
K	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance	12" (30cm)	9" (23cm)
L	Clearance to a mechanical air supply inlet #3' (91cm) above if within 10' (3m) horizontally	72" (1.8m)	36" (90cm)[b]
M	Clearance above paved sidewalk or a paved driveway located on public property†	84" (2.1m)†	*
N	Clearance under veranda, porch, deck, or balcony‡	12" (30cm)‡	*

[1] In accordance with current CSA B149.1, *Natural Gas and Propane Installation Code*
[2] In accordance with the current *ANSI Z223.1/NFPA 54, National Fuel Gas Code*
† A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings
‡ Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor
* Clearance in accordance with local installation codes and the requirements of the gas supplier
[a] 3 feet (91cm) within a height of 15 feet (4.5m) above the meter / regulator assembly
[b] 3 feet (91cm) above - if within 10 feet (3m) horizontally

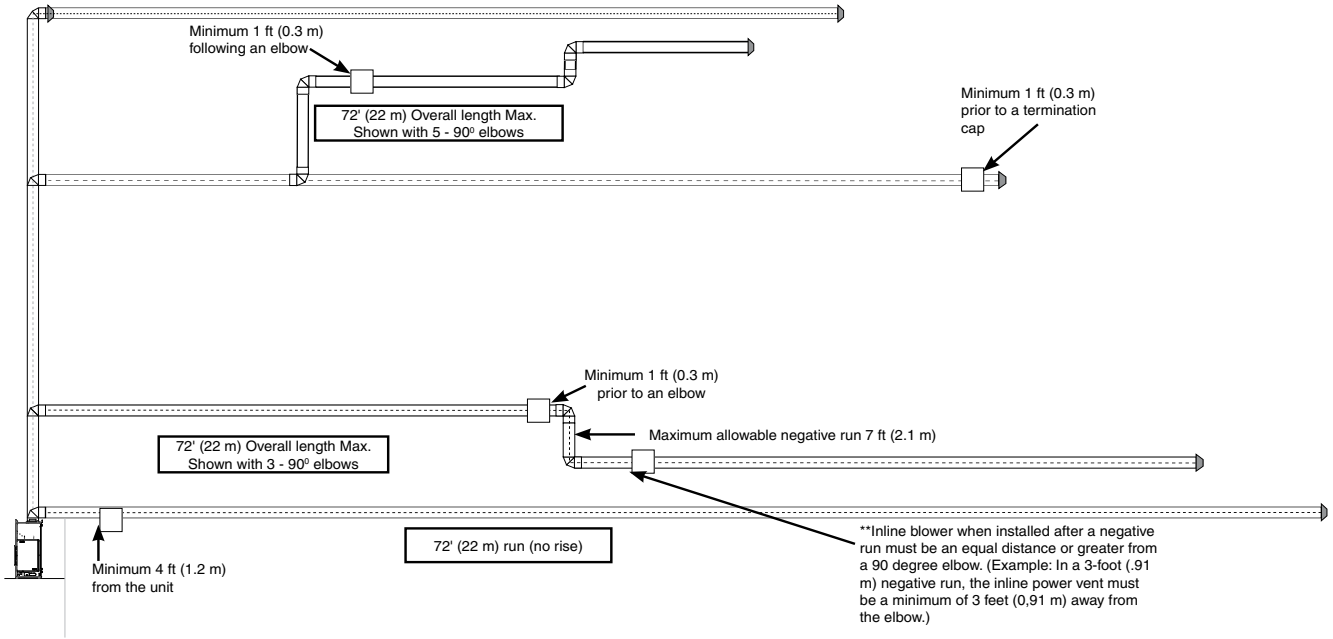
VENT CHART FOR POWER VENT ONLY
HORIZONTAL TERMINATIONS - INLINE HORIZONTAL VENT CHART

This section is for the Power Vent System installation. For a detailed installation information, refer Power Vent System installation instructions that comes with the Power Vent Kit. When you install the Power vented fireplace, you need one of the following Power Vent System Kit depending your venting layout. For the complete Power Vent installation, refer the Power Vent System installation instruction in Power vent system Kit.
In line Power Vent Kit **# 666-945**

RIGID PIPE: MUST USE RIGID PIPE ADAPTOR (PART # 510-994).

NOTES
- Rigid pipe is approved for up to 72 feet (21.95 m).
- Flex pipe is approved for up to 40 feet (12.19 m) using 2 X 20 foot (6.10 m) flex kits (part #946-756).

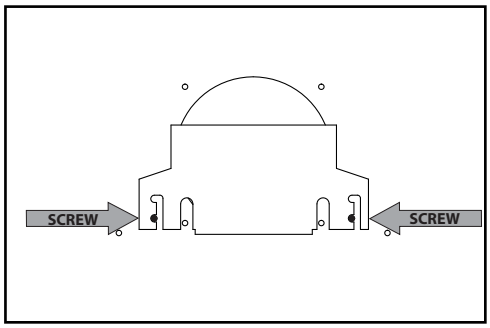
The gas power vent system is designed to allow the installation of a gas appliance when typical vent configurations (shown in this manual) are not possible.



IMPORTANT
- **Maximum total vent length (based on overall length of combined chimney components) = 72' (22 m)**
- **Maximum total negative vent length = 7' (2.1 m).**
- **Do not run positive venting after a negative run.**
- **Maximum of six - 90° elbows permitted.**
- **One 90° elbow = two 45° elbows.**
- **Minimum 4' (1.2 m) from the unit prior to terminating.**

Inline power vent location restrictions:
Minimum 4 ft (1.2 m) from the unit
Minimum 1 ft (0.3 m) prior to an elbow.
Minimum 1 ft (0.3 m) following an elbow.
Minimum 1 ft (0.3 m) prior to a termination cap.
When the inline blower is installed after a negative run, for every foot of negative run the inline blower must be an equal distance or greater from the 90-degree elbow. See example above.

VENT RESTRICTOR POSITION (IN LINE)



Set 4
1-1/4" open

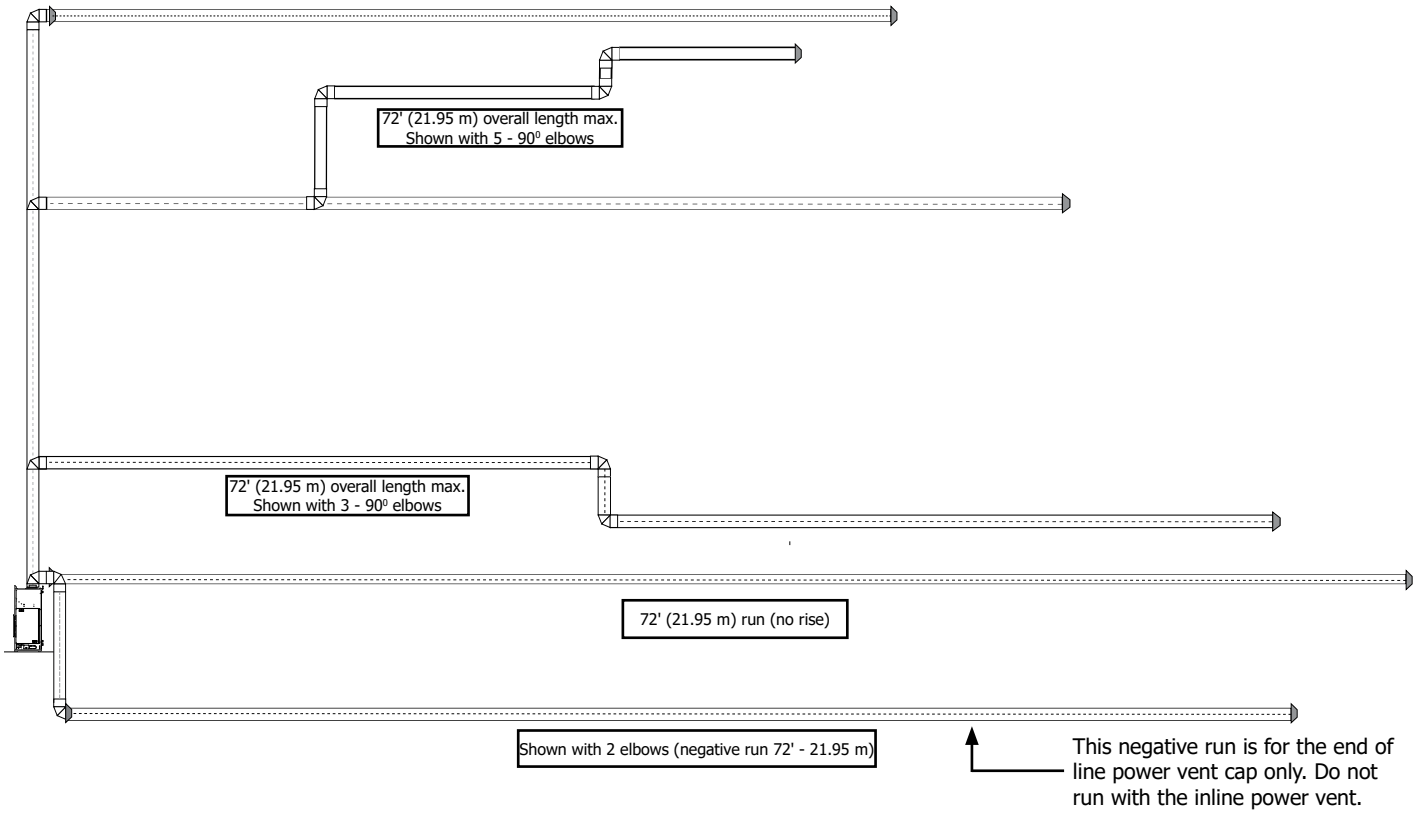
VENT CHART FOR POWER VENT ONLY
HORIZONTAL TERMINATIONS - END OF LINE HORIZONTAL VENT CHART

For the complete Power Vent installation, refer the Power Vent System installation instruction in Power vent system Kit
End Line Power Vent Kit **# 946-535**

RIGID PIPE: MUST USE RIGID PIPE ADAPTOR (PART # 510-994).

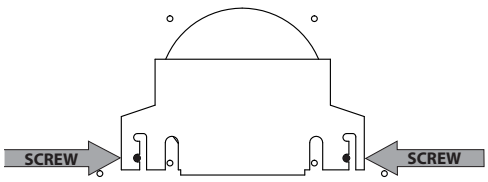
NOTES
- **Rigid pipe is approved for up to 72 feet (22 m).**
- **Flex pipe is approved for up to 40 feet (12.2 m) using two 20 foot (6.1 m) flex kits (part # 946-756).**

The gas power vent system is designed to allow the installation of a gas appliance when typical vent configurations (shown in this manual) are not possible.



IMPORTANT
- **Maximum total vent length (based on overall length of combined chimney components) = 72' (21.95 m)**
- **Maximum total negative vent length = 7' (2.1 m).**
- **Do not run positive venting after a negative run.**
- **Maximum of six - 90° elbows permitted.**
- **One 90° elbow = two 45° elbows.**
- **Minimum 4' (1.2 m) from the unit prior to terminating.**

VENT RESTRICTOR POSITION (END OF LINE)



Set 4
1-1/4" open

VENT CHART FOR POWER VENT ONLY
VENTING ARRANGEMENT FOR VERTICAL TERMINATIONS
IN LINE POWER VENT RIGID/FLEX
IN LINE POWER VENT KIT # 666-945

Vertical venting with straight vertical venting and or with a max. of six (6) 90° Elbows (1 - 90° = 2 - 45°)

NOTES
- Rigid pipe is approved for up to 72 feet (22 m).
- Flex pipe is approved for up to 40 feet (12.2 m) using one 20 foot (6.1m) 20 foot Vertical Flex kit (part # 946-755) & one 20 foot (6.1 m) extension flex kit (part # 946-756).

- Two 45° elbows equal to one 90° elbow.
- Vent must be supported at offsets.
- Minimum distance between elbows is 1 ft. (0.3 m).
- Maintain clearances to combustibles as listed in the "Clearances" section.
- Horizontal vent must be supported every 3 feet (0.91 m).
- Firestops are required at each floor level and whenever passing through a wall.

Restrictor at Set 4 (1-1/4" open) regardless of vent run.

Inline power vent location restrictions:
- Minimum 4 ft (1.2 m) from the unit.
- Minimum 1 ft (0.3 m) prior to an elbow.
- Minimum 1 ft (0.3 m) following an elbow.
- Minimum 2 ft (0.6 m) prior to a termination cap.
- Minimum 2 ft. from inline PV to termination cap.
- Minimum 4' from top of unit to inline PV.
- Max. of 72' (22 m), using up to six 90° elbows
- (Example shows two 90° elbows).
- No negative runs.

NOTE
- **The inline power vent must be installed within the confines of the home/structure.**