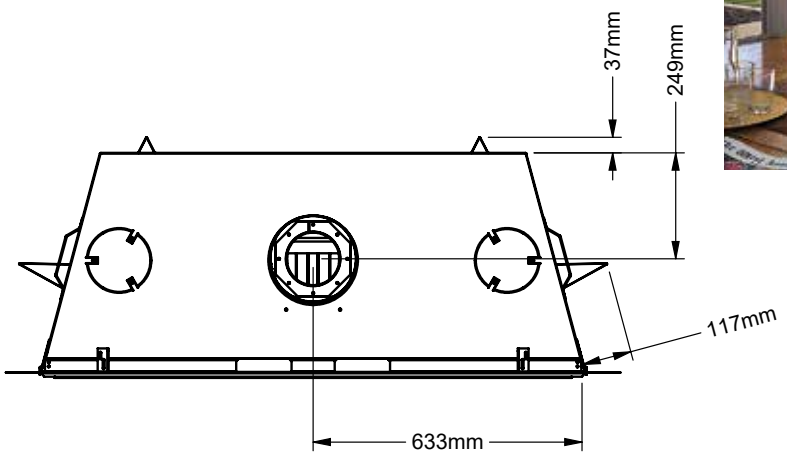
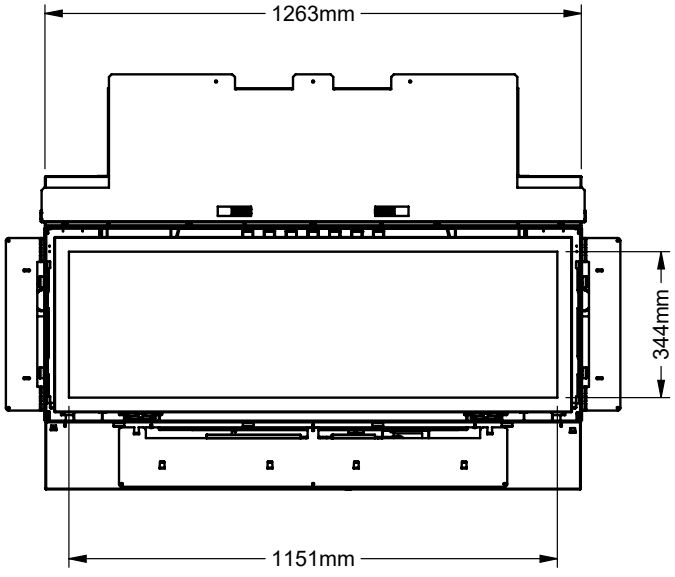
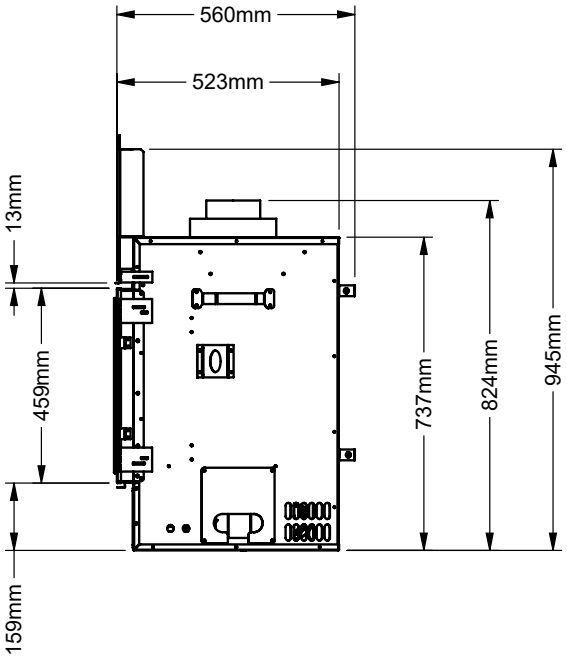
Greenfire® GF1500L-2 Gas Fireplace

MODEL	GF1500L NG-2	GF1500L LP-2	GF1500L ULPG-2
Fuel Type	Natural Gas	Propane	ULPG
Gas Consumption	50 MJ/h	49 MJ/h	44 MJ/h
Manifold Pressure	0.87 kPa	2.49 kPa	2.49 kPa
Injector Size	1 x #29 3.40 mm	1 x #47 1.99 mm	1 x #49 1.85 mm







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 flue system be installed only in accordance with these instructions.

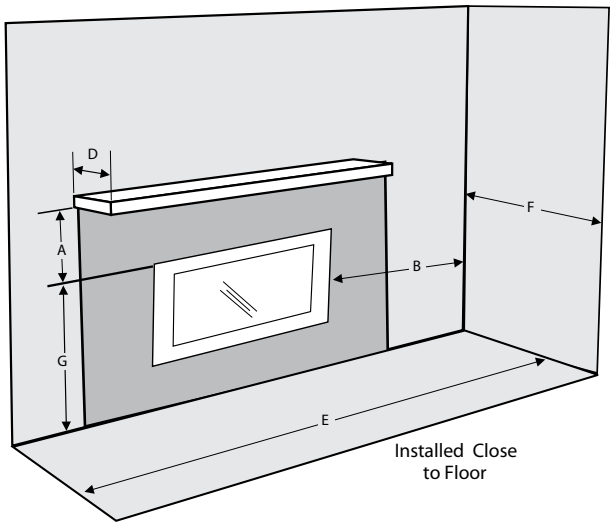
Caution Requirements
The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

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 flue system be installed only in accordance with these instructions.

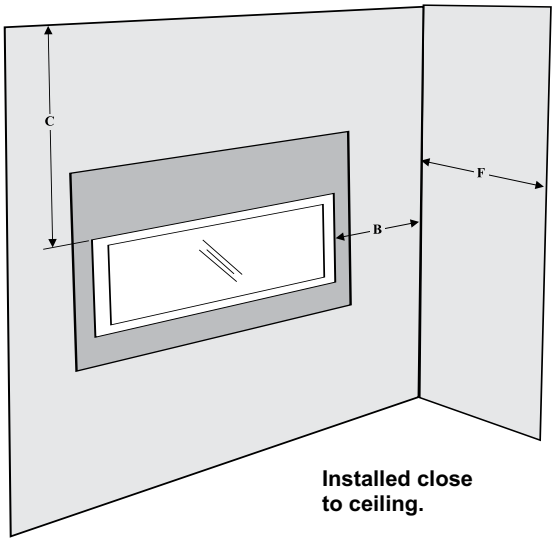
Clearance:	Dimension	Measured From:
A: Mantel Height (min.)	254 mm	Top of Fireplace Opening/Hot Air Outlet
B: Sidewall (on one side)	152 mm	Side of Fireplace Opening/Hot Air Outlet
C: Ceiling (room and/or alcove)	1162 mm	Top of Fireplace Opening/Hot Air Outlet
D: Mantel Depth (max.)	305mm	730mm Above Fireplace Opening/Hot Air Outlet
E: Alcove Width	1524 mm	Sidewall to Sidewall (Minimum)
F: Alcove Depth	914 mm	Front to Back Wall (Maximum)
G: From Floor	617 mm	Top of Fireplace Opening/Hot Air Outlet
Note:	0	No hearth required

Flue Clearances to Combustibles	
Horizontal - Top	76mm
Horizontal - Side	51mm
Horizontal - Bottom	51mm
Vertical	51mm

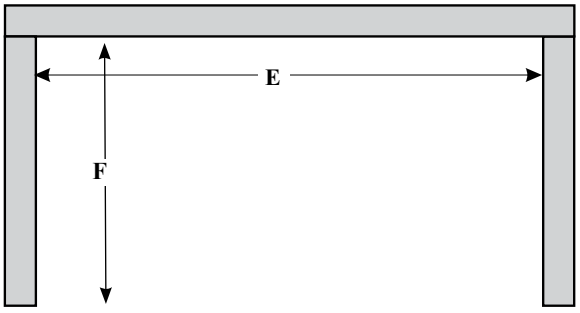
IMPORTANT: If installing a television above this appliance, the television must be either fully recessed into the wall above the fireplace and or have a mantle below the television. If the television is left unprotected, the extreme heat being emitted from this appliance will result in damage to the television. See clearance requirements for both mantle (page 9) and or enclosing the top of the appliance (page 11 (D) dimension).



Installed Close to Floor



Installed close to ceiling.



Alcove

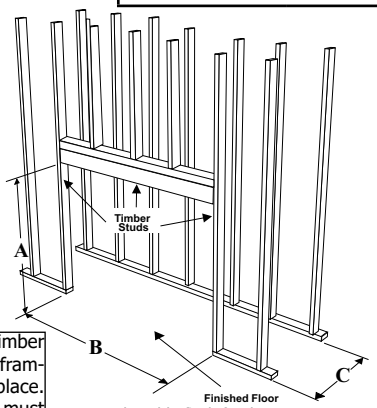
FRAMING DIMENSIONS

IMPORTANT NOTE:

This unit can be finished with combustible facing material of thickness range 10-19mm OR non-combustible facing material of a minimum thickness 12mm.

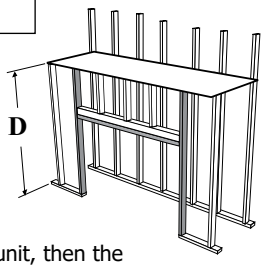
Framing Dimensions	Description	GF1500
A	Framing Height	945 mm combustible finish
A[1]	Framing Height -Steel Stud	846 mm non combustible steel stud
B	Framing Width	1394 mm
C	Framing Depth	568 mm
D	Minimum Height to Combustibles	1225 mm
E	Corner Wall Depth	1460 mm
F	Corner Facing Wall Width	2065 mm
G	Vent Centerline Height	1016 mm
H*	Non-combustible facing height	*see non-combustible facing height in this manual
I	Gas Connection Opening Height	38 mm
J	Gas Connection Height	67 mm
K	Gas Connection Inset	44 mm
L	Gas Connection Opening Width	89 mm

NOTE: A minimum thickness of 12mm non-combustible facing board compliant with AS1530-1 and AS1530-3 is required when using the non combustible flush finishing option. A minimum thickness of 10mm-19mm combustible facing board is required when choosing the combustible flush finishing option.
Note: must maintain 13mm air gap all around the perimeter of the appliance when choosing this option.

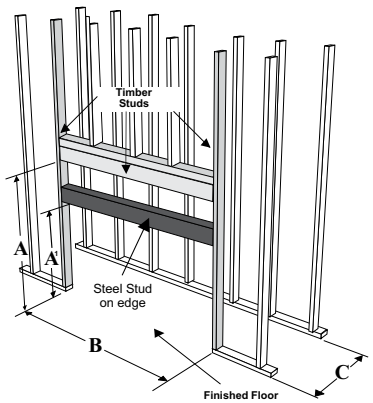


Combustible flush finishing Framing

NOTE: Do not place timber studs below the timber framing studs already in place. Additional steel studs must be added as shown when choosing the non combustible flush finishing option.

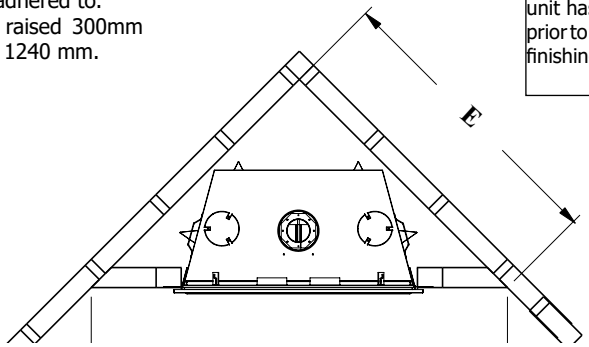


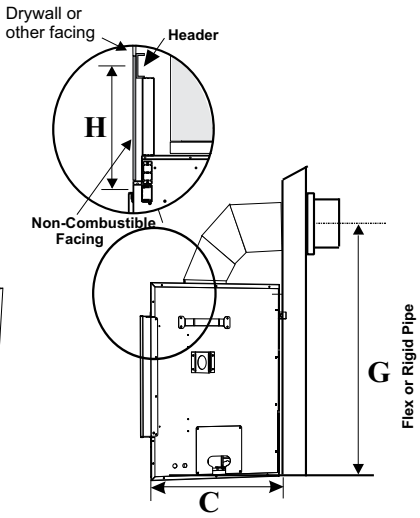
Note: If raising the unit, then the minimum framing height measurement (A) must be adhered to.
For example: Unit raised 300mm then A+ 300mm = 1240 mm.

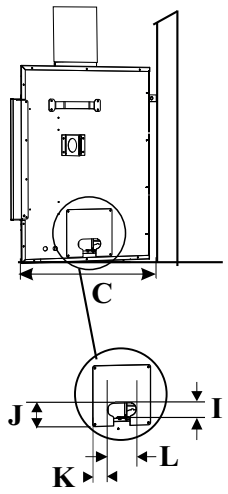


Non-combustible Flush Finishing Framing

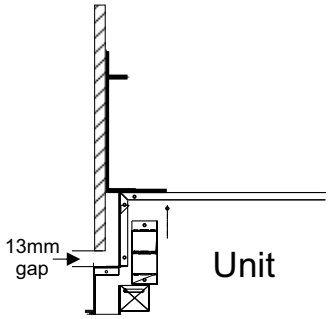
Note: Steel stud must be installed after unit has been positioned in place and prior to installation of non- combustible finishing







FRAMING & FINISHING (COMBUSTIBLE)

Finished Material		
10mm-19mm thickness using combustible finishing Note: must maintain 13mm air gap all around (see diagrams below and on next page)	1st slot	

Note:
***Finishing Trim or one of the fascias must be used with combustible finishing.**

10mm to 19mm combustible finishing can be used if the 13mm air gap around the front facing of the unit is maintained. Finishing material cannot be thicker than 19mm and must be flush with the front edge of the flange.

Note:

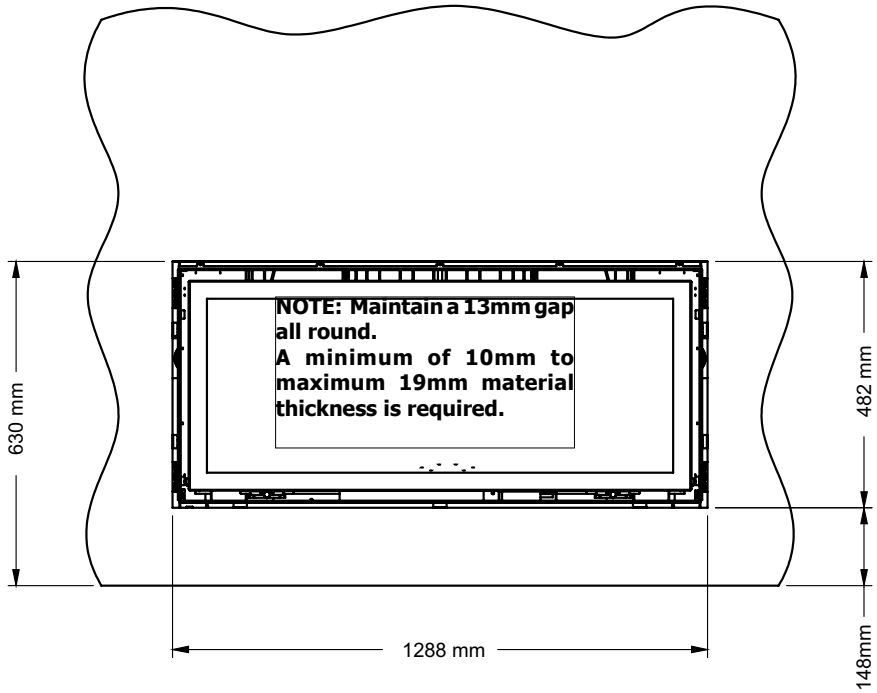
- The siding nailing strips are factory set at 10mm. The top nailing strip is fixed during transit to the rear of the appliance.
- Do not place any reinforcement in front of header and behind finishing material.
- The nailing strip must be used. It is fixed during transit to the rear of the unit.

Note:

Depending on the material used for finishing, the nailing strips must be set accordingly so that the finished material is always be flush with the edge of the flange.

If finishing with material with a combined thickness greater than 19mm, non-combustible material must be used.

Combustible Requirements



NOTE:
The appliance must be installed on a flat, solid, continuous surface For example a wood, metal or concrete floor. In a raised (on the wall) application the appliance must be installed on a metal or wood panel extending the full width and depth of the appliance.

NOTE:
Do not remove the standoffs which are located around the perimeter off this unit These are in place and act as a guide for the combustible material to be placed.

CLEARANCES FOR COMBUSTIBLE FINISHING WITH MANTEL

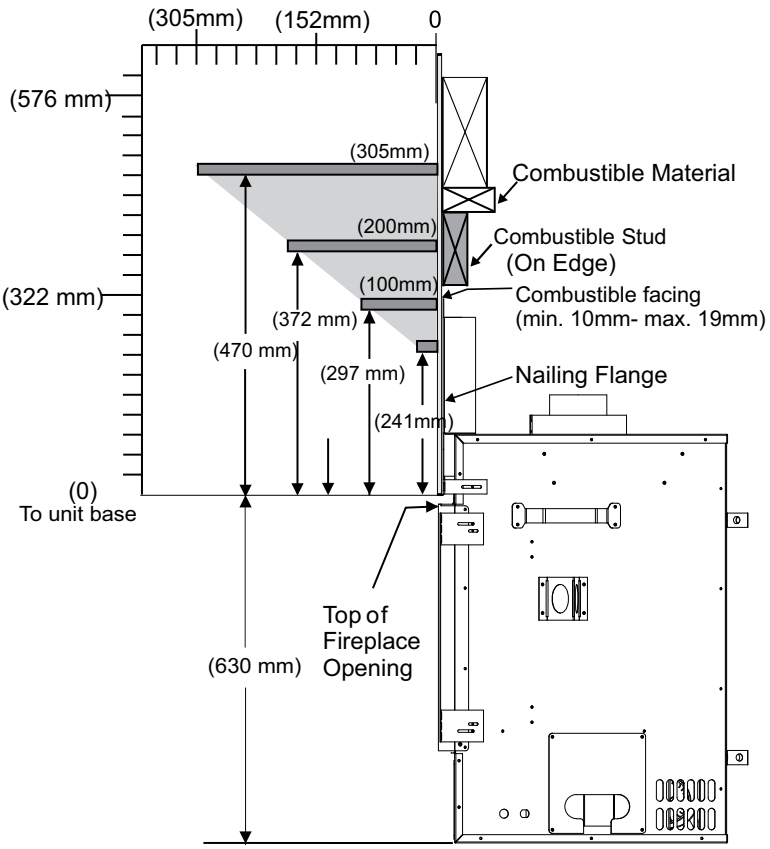
Due to the extreme heat this fireplace emits, the mantel clearances are critical.

Combustible finishing and mantel clearances are shown in the diagram on the right. Finishing Trim must be used with combustible finishing.

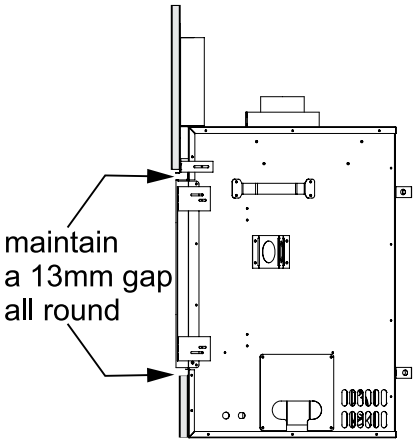
Note: Maximum combustible finishing material thickness is 19mm measured from the front of the fireplace opening. If total finishing material is greater than 19mm, non-combustible must be used.

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

Note: Combustible mantel starts at 796mm (618mm + 178mm) from unit base.

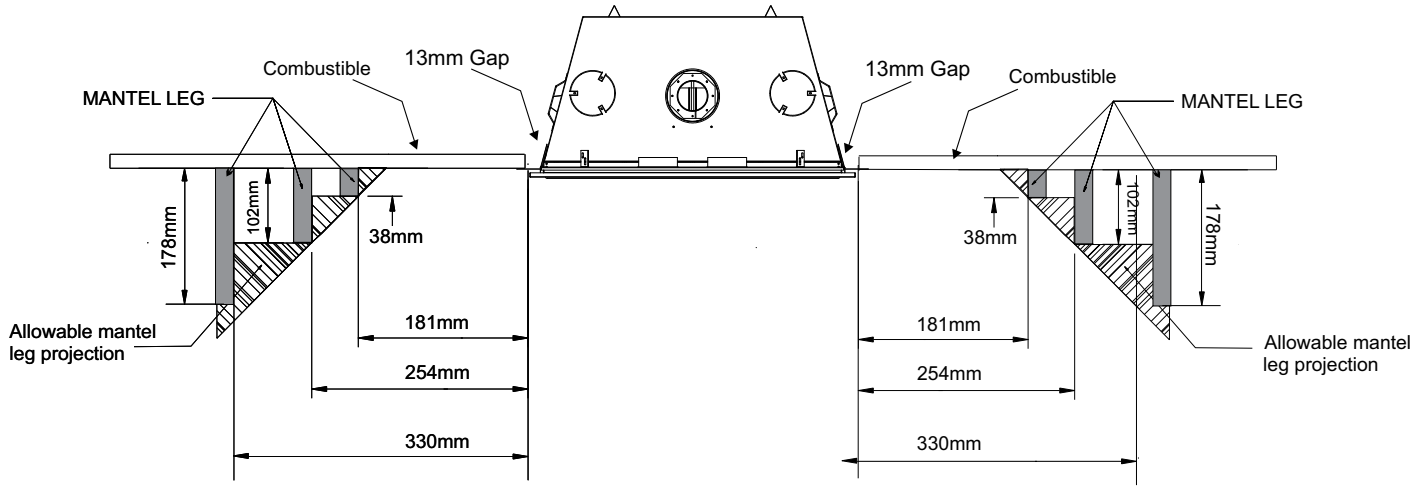


Important:



COMBUSTIBLE MANTEL LEG CLEARANCES

Mantel leg & combustible finishing clearances as per diagram:



CLEARANCES FOR NON-COMBUSTIBLE FLUSH FINISHING WITH MANTEL

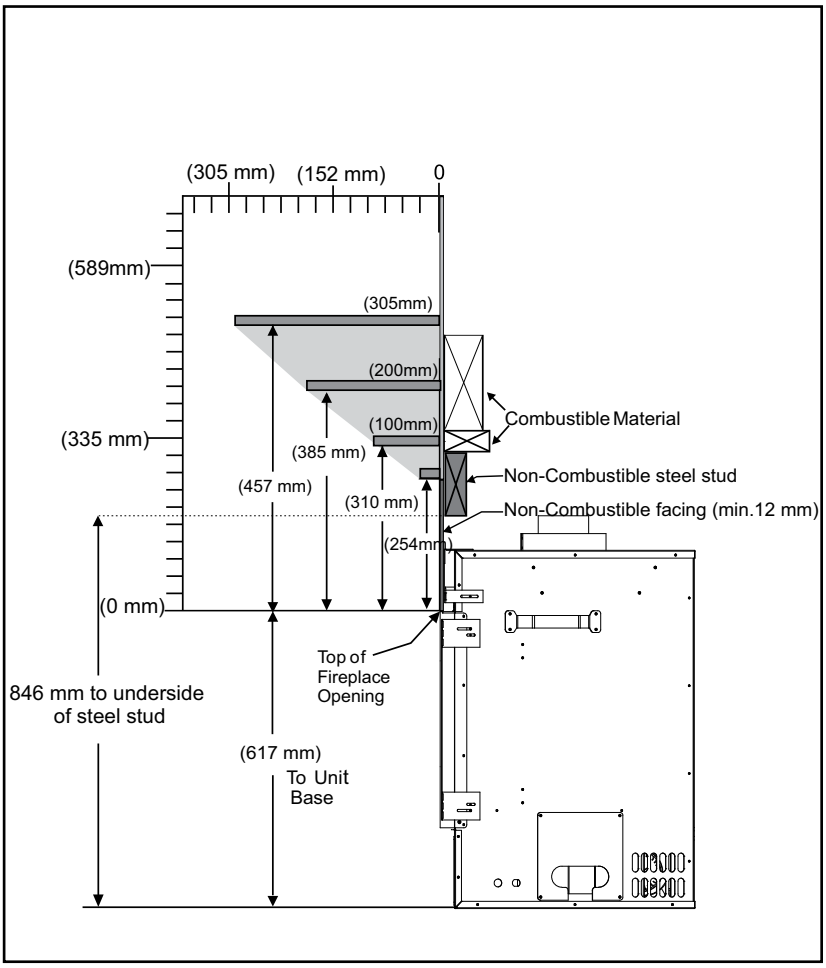
Due to the extreme heat this fireplace emits, the mantel clearances are critical.

Combustible mantel clearances from top of front facing are shown in the diagram on the right.

Note: For a flushed finish using non-combustible finishing, seven 13mm stand-off tabs around the fireplace opening must be broken off. The top nailing flange cannot be used and a non-combustible steel stud must be installed to support the non-combustible facing.

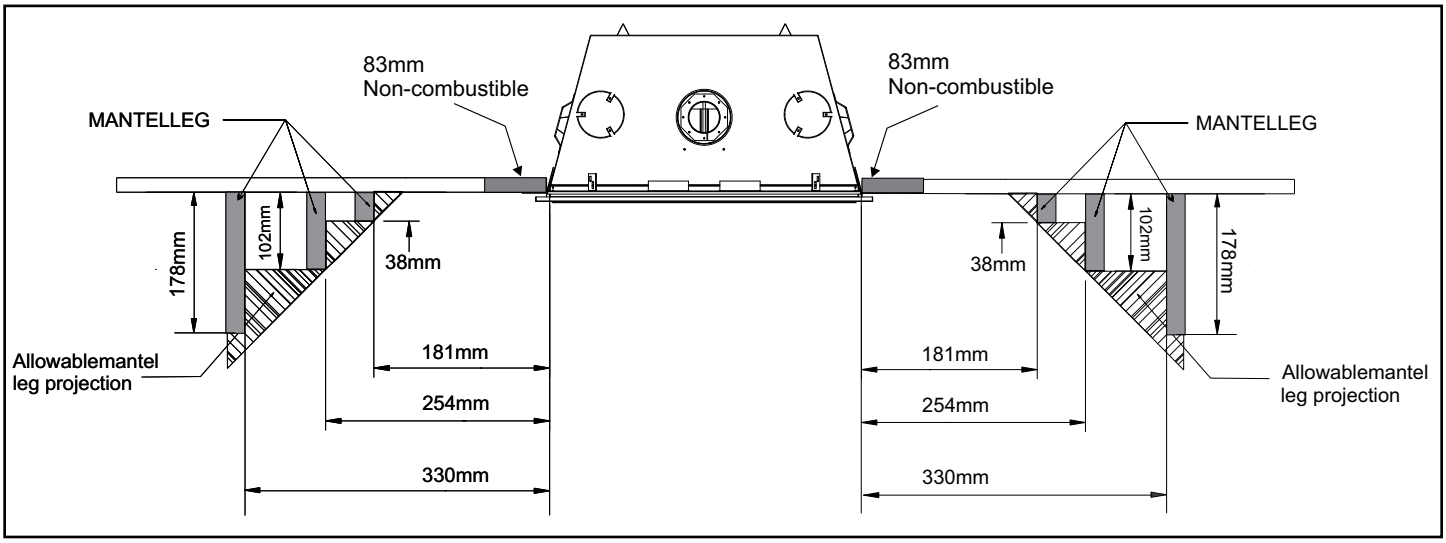
Note: Ensure the paint that is used on the mantel and the facing is "high quality" or the paint may discolour.

Note: Combustible mantel starts at 796mm (605mm + 191mm) from unit base.

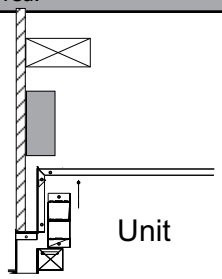
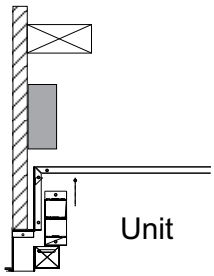
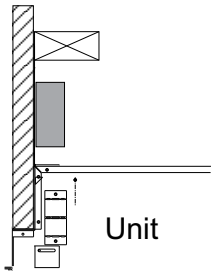


NON COMBUSTIBLE MANTEL LEG CLEARANCES

Mantel leg & Non-combustible finishing clearances as per diagram: (Flushed Finish)



FLUSHED FINISHING & FRAMING WITH NON-COMBUSTIBLE MATERIAL

Finished Material	* diagrams shown below are with top nailing strip removed.
12mm	
25mm	
38mm	

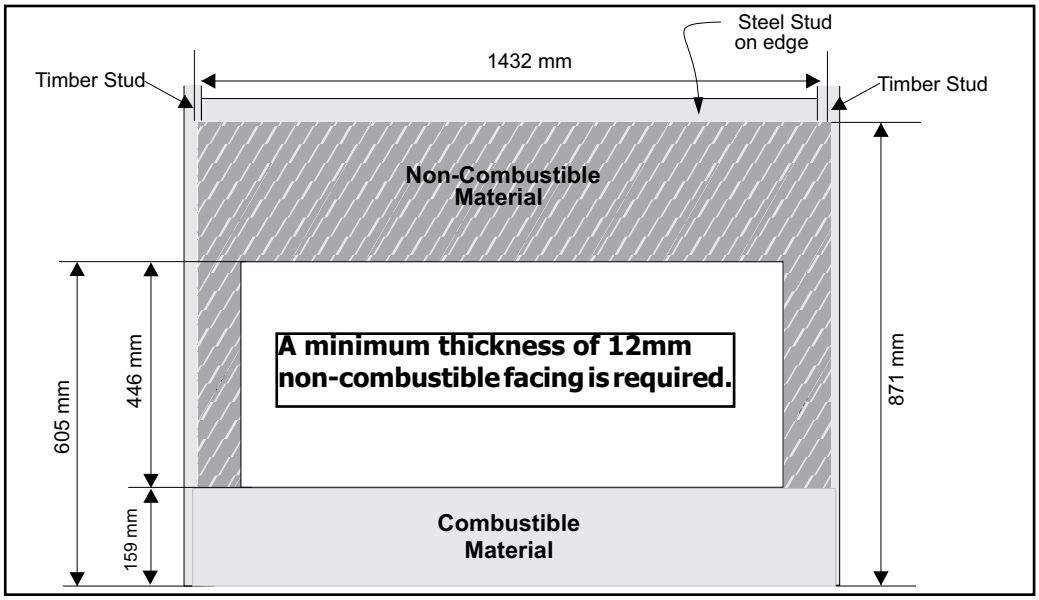
Note: For flush finishing, the top nailing strip must be removed and a non-combustible steel stud support added.

The seven fireplace opening standoffs which are located on this unit can be removed when non combustible material is installed flush with the unit. (see P. 13).

Non-combustible finishing material on the top and sides must also be used.

MINIMUM THICKNESS OF THE FINISH MATERIAL: 12MM

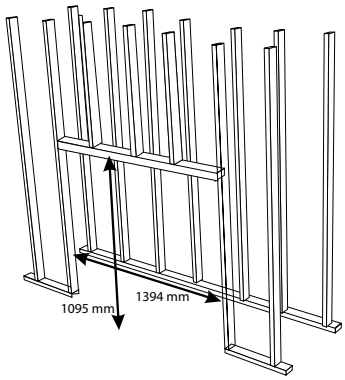
NON COMBUSTIBLE REQUIREMENTS



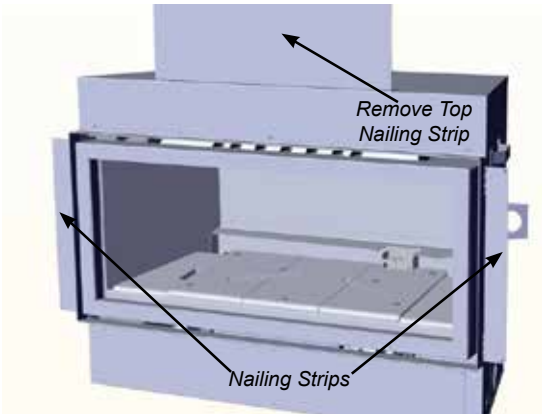
NOTE:
The appliance must be installed on a flat, solid, continuous surface For example a wood, metal or concrete floor. In a raised (on the wall) application the appliance must be installed on a metal or wood panel extending the full width and depth of the appliance.

OPTIONAL FRAMING KIT

1. Construct the timber framing, ensure inside dimensions are 1095 mm H x 1394 mm W as shown below.



2. Bend both side nailing strips from the side of the appliance until positioned as shown below. Determine the overall combined thickness of the non-combustible board + finished material being used. The nailing strips can be adjusted up to 38mm. Remove top nailing strip and recycle.

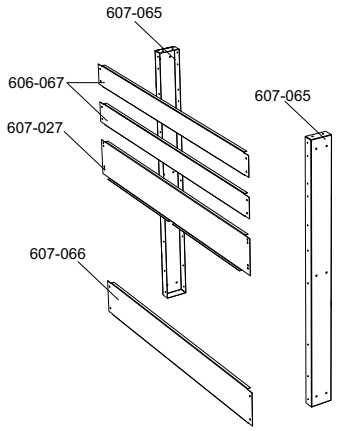


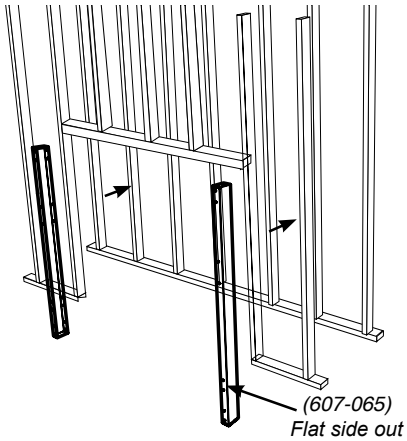
3. Adjust the nailing strips by loosening 2 screws on each nailing strip - adjust and retighten screws.

NOTE: depending on the finishing material used.

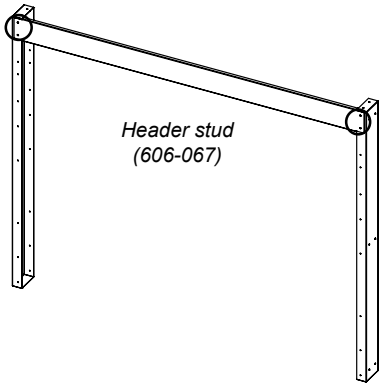
4. Attach both vertical studs (607-065) to the vertical timber studs and secure using 6 screws, as shown.

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





5. Secure horizontal steel header stud *(606-067)* with 2 screws per side as per diagram.

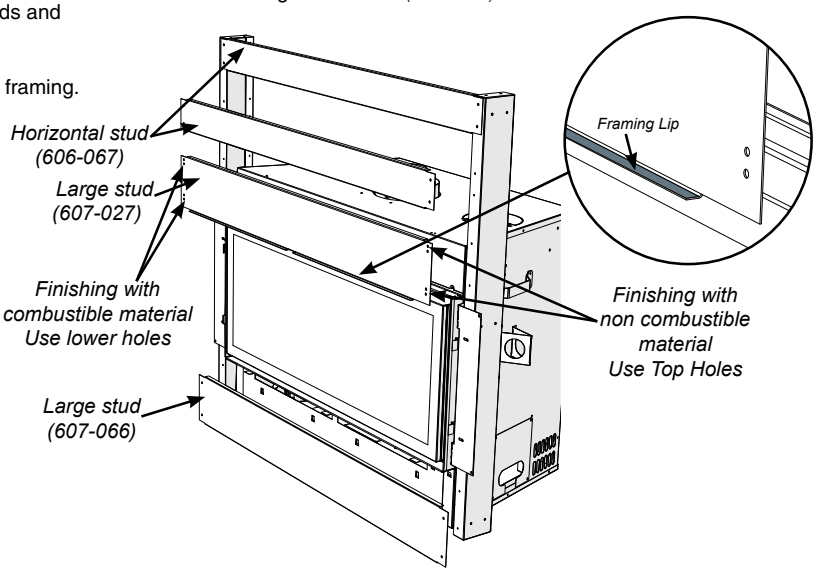


6. Slide the unit into position. Hook up gas, flueing, electrical and conversion kit (if purchased) prior to installing the remaining steel studs.

7. Secure the upper horizontal steel stud *(606-067)* as shown with 2 screws per side.

8. Secure the top large horizontal stud *(607-027)* with 2 screws per side as shown. Bring finishing material to the edge of the top framing lip on large stud *(607-027).*

9. Install the large lower stud *(607-066)* with 2 screws on each side.



FRAMING & FINISHING (CLEAN FINISH INSTALLATIONS ONLY)

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

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

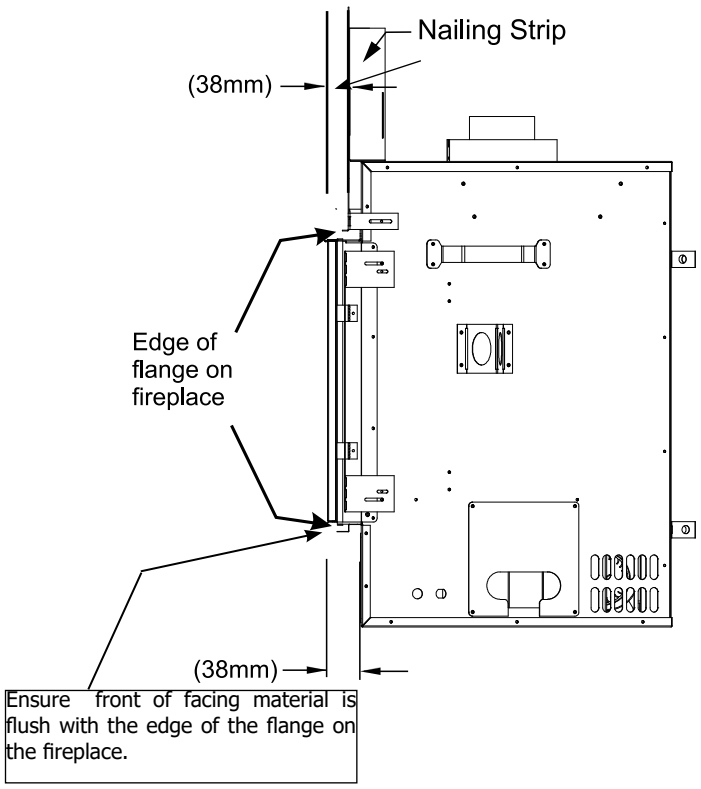
Note: When constructing the framed opening, please ensure there is access to install the gas lines when the unit is installed.

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 and/or the flueing. Clearances must be maintained as per this manual.)**

   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 flue to combustible materials: See "Clearances" section. Combustible materials can be laid against the side and back standoffs and the appliance 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 38mm as shown in the diagram below. The faceplate will not be able to be mounted if finished material is beyond 38mm.



FLUEING INTRODUCTION

The GF1500L 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.

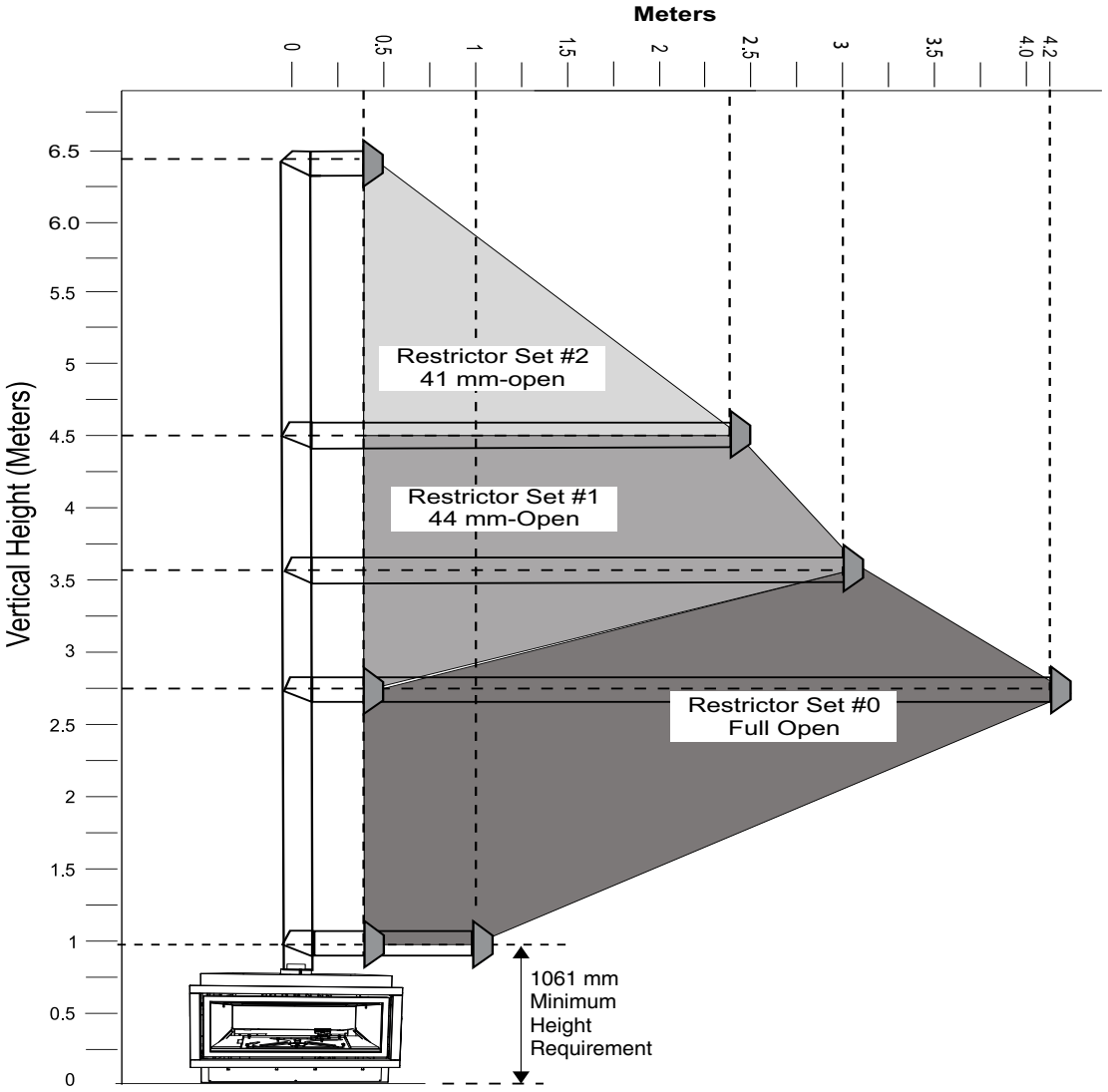
Note: These flue pipes must not be connected to any other appliance.

The gas appliance and flue 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 flue system. Common flue systems are prohibited.

FLUEING 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).

Note: Must use optional rigid pipe adapter (Part# 770-994) when using Simpson Dura Vent Only.



FLUE RESTRICTOR SETTING:

Flue restrictor factory set at Set 0.

Refer to the "Flue Restrictor Position" section for details on how to change the flue restrictor from the factory setting of Set 0 to Set 1 if required.

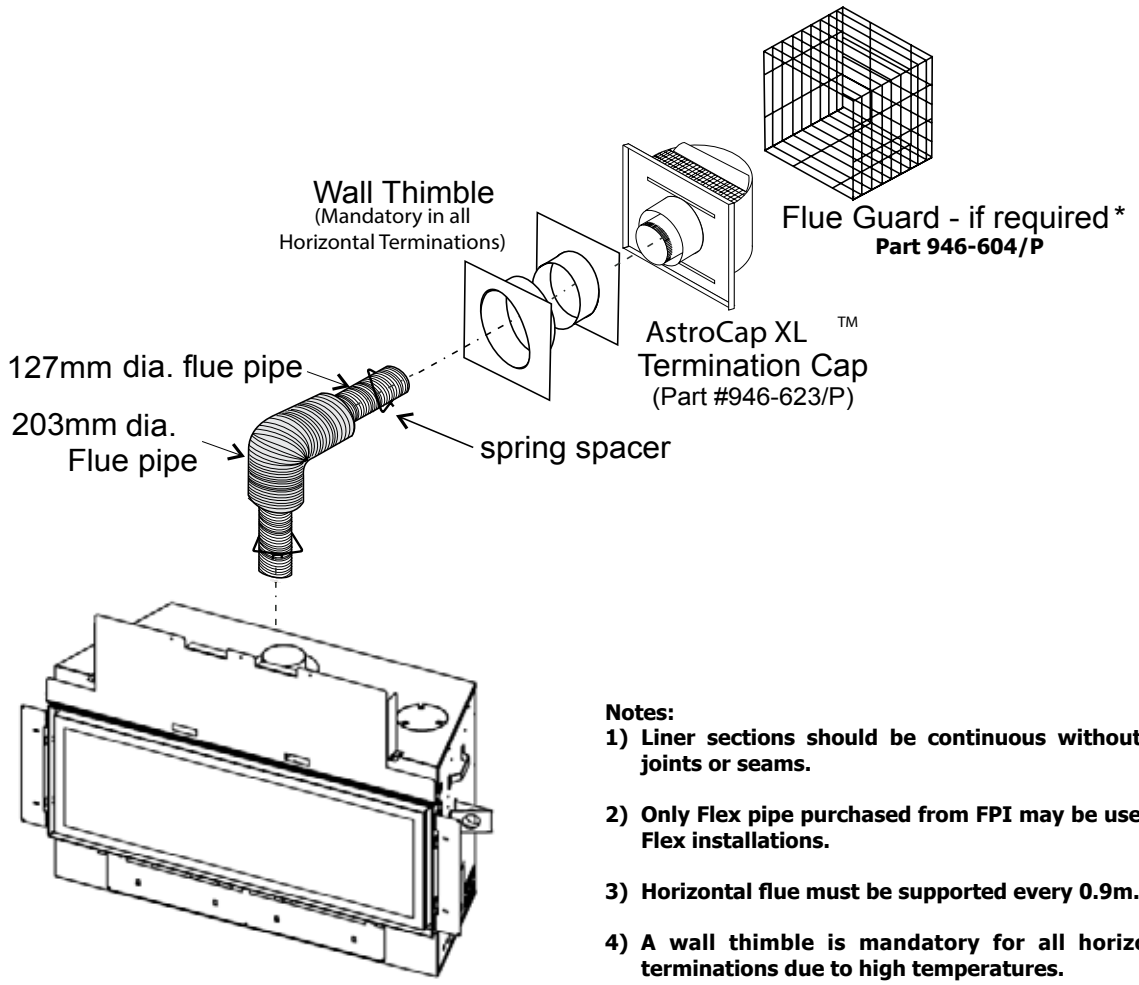
- **Maintain clearances to combustibles as listed in "Clearances" section**
- **Horizontal flue must be supported every 0.9m**
- **A flue guard should be used whenever the termination is lower than the specified minimum or as per local codes.**
- **Flex system can only be used up to 3m - otherwise rigid system must be used.**

FLUEING ARRANGEMENTS
HORIZONTAL TERMINATION (FLEX)
Regency® Direct Vent System

These flueing systems, in combination with GF1500L, have been tested and listed as a Direct Vent system by AGA. The location of the termination cap must conform to the requirements in the Flue Terminal Locations diagram from the "Exterior Flue Termination Locations" section.

FPI Direct Vent (Flex) System Termination Kits include all the parts needed to install the GF1500L using a flexible vent.

FPI Kit #	Length	Contains:
#946-615	1.2 m	**1)** 203mm flexible liner (Kit length) **2)** 127mm 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 38mm drill point
#946-618	1.8 m	
#946-616	3 m	



Notes:

1) **Liner sections should be continuous without any joints or seams.**

2) **Only Flex pipe purchased from FPI may be used for Flex installations.**

3) **Horizontal flue must be supported every 0.9m.**

4) **A wall thimble is mandatory for all horizontal terminations due to high temperatures.**

RIGID PIPE FLUEING SYSTEMS
BASIC HORIZONTAL & VERTICAL TERMINATIONS

Rigid Pipe Flue 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.

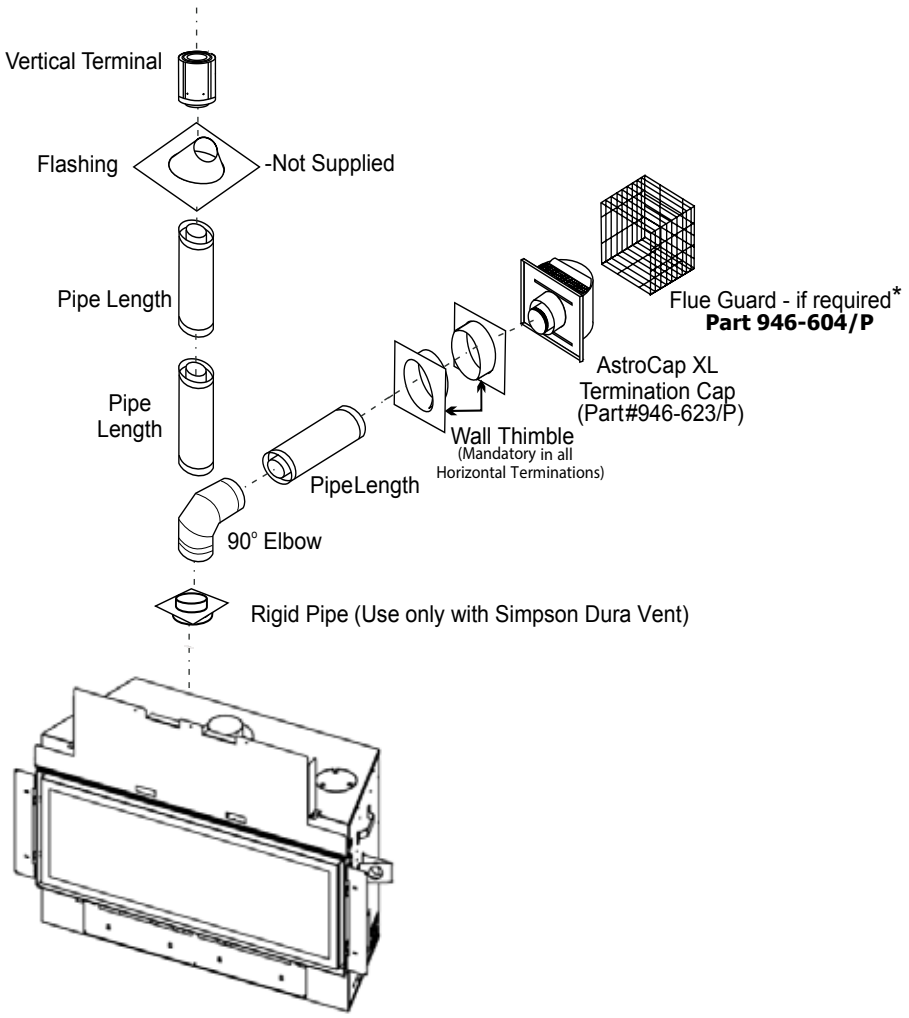
The minimum components required for a basic Horizontal Termination are:

1 AstroCap XL Termination Cap
1 90o Elbow
1 Rigid Pipe Adaptor ***(Dura Vent Only)***
1 Wall Thimble
1 Length of rigid pipe to suit wall thickness

The minimum components required for a basic Vertical Termination are:

1 Vertical Termination Cap
1 Rigid Pipe Adaptor ***(Dura Vent Only)***
1 Lengths of pipe to adequately penetrate roof
1 Flashing ***(As required per AS/NZS 5601-2013, to be supplied by installer)***

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 the vinyl siding standoff, to create a level surface to mount the vent terminal. The Terminal must not be recessed into wall cladding. Measure the wall thickness including wall cladding.



WARNING:

Do not combine flueing components from different venting systems.

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

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

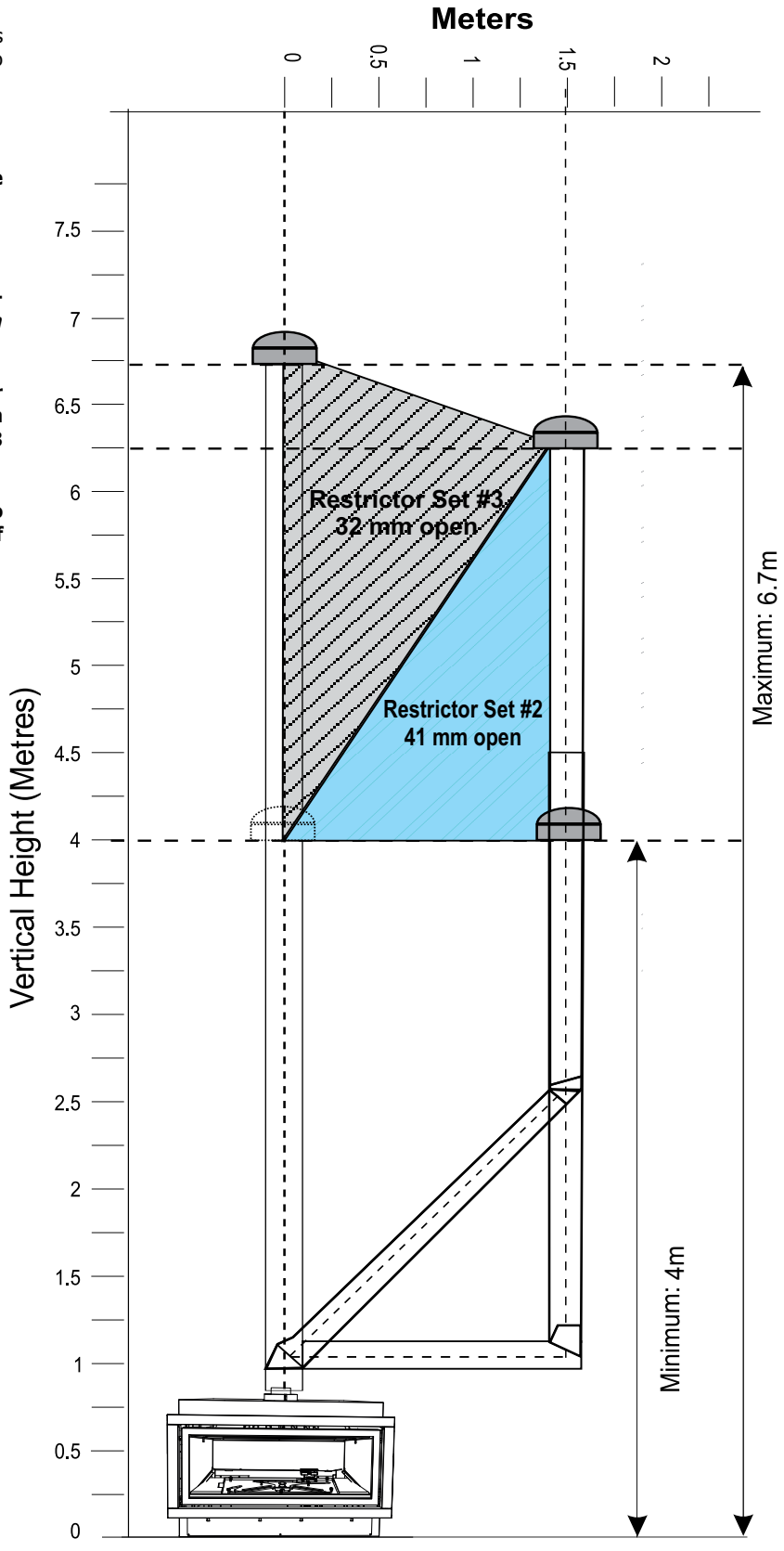
FLUEING ARRANGEMENT FOR VERTICAL TERMINATIONS

Vertical Flue with Two (2) 90° Elbows (1 - 90° = 2 - 45°)

The shaded area in the diagram shows all allowable combinations of straight vertical and offset to vertical terminations, using two 45° bends, with **Rigid Pipe Flueing Systems.**

- **Flue must be supported at offsets.**
- **Maintain clearances to combustibles as listed in the "Clearances" section.**
- **Horizontal vent must be supported every 1M.**
- **Must use optional rigid pipe adaptor (Part# 770-994) when using rigid pipe flue systems *(Dura Vent Only)*.**
- **Refer to the "Flue Restrictor Position" section for details on how to change the flue restrictor from the factory setting of Set 0 to Set 1, Set 2 or Set 3 if required.**
- **Vertical flue must terminate a minimum of 600m to the underside of the cowl from the nearest part of the roof, as per AS/NZS 5601.**

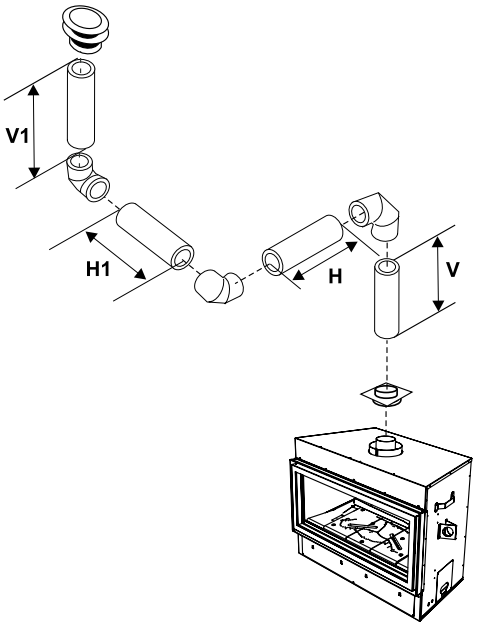
"THIS UNIT MUST ALWAYS TERMINATE / FLUE DIRECTLY TO THE OUTDOORS."



Vertical Venting with Three (3) 90° Elbows

One 90° elbow = Two 45° elbows.

Option	V	H + H1	V + V1	
A)	0 Min.	0.6 m Max.	0.6 m Min.	With these options, max. total pipe length is 9.1 m with max. 2.4 m total horizontal. ***Please note min. 0.3 m between 90° elbows is required.***
B)	0.3 m Min.	0.6 m Max.	0.9 m Min.	
C)	0.6 m Min.	0.9 m Max.	1.2 m Min.	
D)	0.9 m Min.	1.2 m Max	1.8 m Min.	
E)	1.2 m Min.	1.5 m Max	2.1 m Min.	
F)	1.5 m Min.	1.8 m Max	2.4 m Min.	
G)	1.8 m Min.	2.1 m Max	2.7 m Min.	
H)	2.1 m Min.	2.4 m Max	3.0 m Min.	
NG & ULPG-Restrictor Set 0 (108 mm) Factory Setting Propane - Restrictor Set 1 (44 mm)				

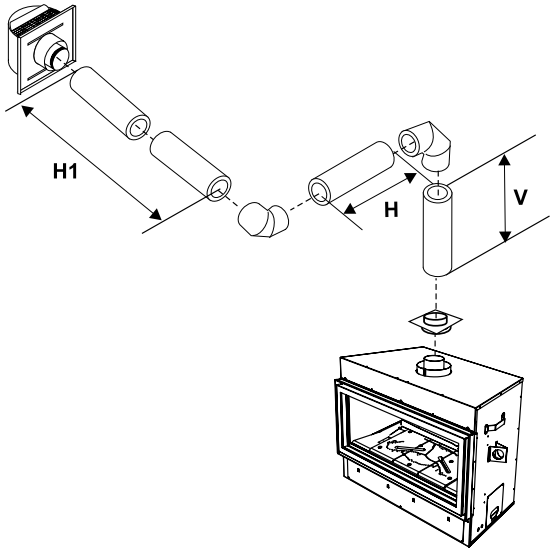


Note:
Restrictor setting for propane differs from NG & ULPG. Refer to chart for correct settings.

Horizontal Venting with Two (2) 90° Elbows

One 90° elbow = Two 45° elbows.

Option	V	H + H1	
A)	0.3 m Min.	0.9 m Max.	With these options, maximum total pipe length is 9.1 m with maximum 2.4 m total horizontal. ***Please note minimum 0.3 m between 90° elbows is required.***
B)	0.6 m Min.	1.2 m Max.	
C)	0.9 m Min.	1.5 m Max.	
D)	1.2 m Min.	1.8 m Max.	
E)	1.5 m Min.	2.1 m Max.	
F)	1.8 m Min.	2.4 m Max.	
Restrictor Set 0 (108 mm) Factory Setting			



Horizontal Venting with Three (3) 90° Elbows

One 90° elbow = Two 45° elbows.

Option	V	H	V + V1	H + H1	
A)	0 Min.	0.3 m Max.	0.3 m Min.	0.6 m Max.	With these options, max. total pipe length is 9.1 m with max. 2.7 m total horizontal. ***Please note min. 0.3 m between 90° elbows is required.***
B)	0.3 m Min.	0.6 m Max.	0.9 m Min.	0.9 m Max.	
C)	0.6 m Min.	0.6 mMax.	1.5 m Min.	1.2 m Max.	
D)	0.9 m Min.	0.6 m Max.	2.1 m Min.	1.5 m Max.	
E)	1.2 m Min.	0.9 m Max.	2.7 m Min.	1.8 m Max.	
F)	1.5 m Min.	1.2 m Max.	3.0 m Min.	2.1 m Max.	
G)	1.8 m Min.	1.5 m Max.	3.3 m Min.	2.4 m Max.	
H)	2.1 m Min.	1.8 m Max.	3.6 m Min.	2.7 m Max.	
Restrictor Set 0 (108 mm) Factory Setting