Custom Made Baskets & Inserts

Installation & Operating Instructions

August 2014

Auckland Display
343b Church Street, Penrose
Phone: 09 622 1148
Fax: 09 626 1179
Email: info@livingflame.co.nz

Christchurch Display
Home Ideas Centre
Mandeville Street, Riccarton
Phone: 027 204 4201
Email: lfchch@mantel.co.nz

Living Flame
New Zealand Technical Expertise

Features

- Dual Radiant Heat
- Manual Control
- Electronic Two Stage Controls - Optional (depending on space available for Electronics))
- Variable Remote Control - Optional (depends on space available for Electronics)
- No products of combustion into the room
- Totally clean room air
- No moisture into the room
- Natural Gas or LPG options available
- Lifetime Burner Guarantee
- One year guarantee on fire parts
- One year warranty on labour repairs

Note: Living Flame Fires are constantly seeking to improve the specifications, design and production of their fires and fireplaces and produce up to date literature, this data should not be regarded as an infallible guide to current specifications, nor does it constitute an offer for the sale of any particular fireplaces.

Specifications and details should be checked at the time of ordering.

Living Flame
New Zealand Technical Expertise

Installation into Existing Fireplaces

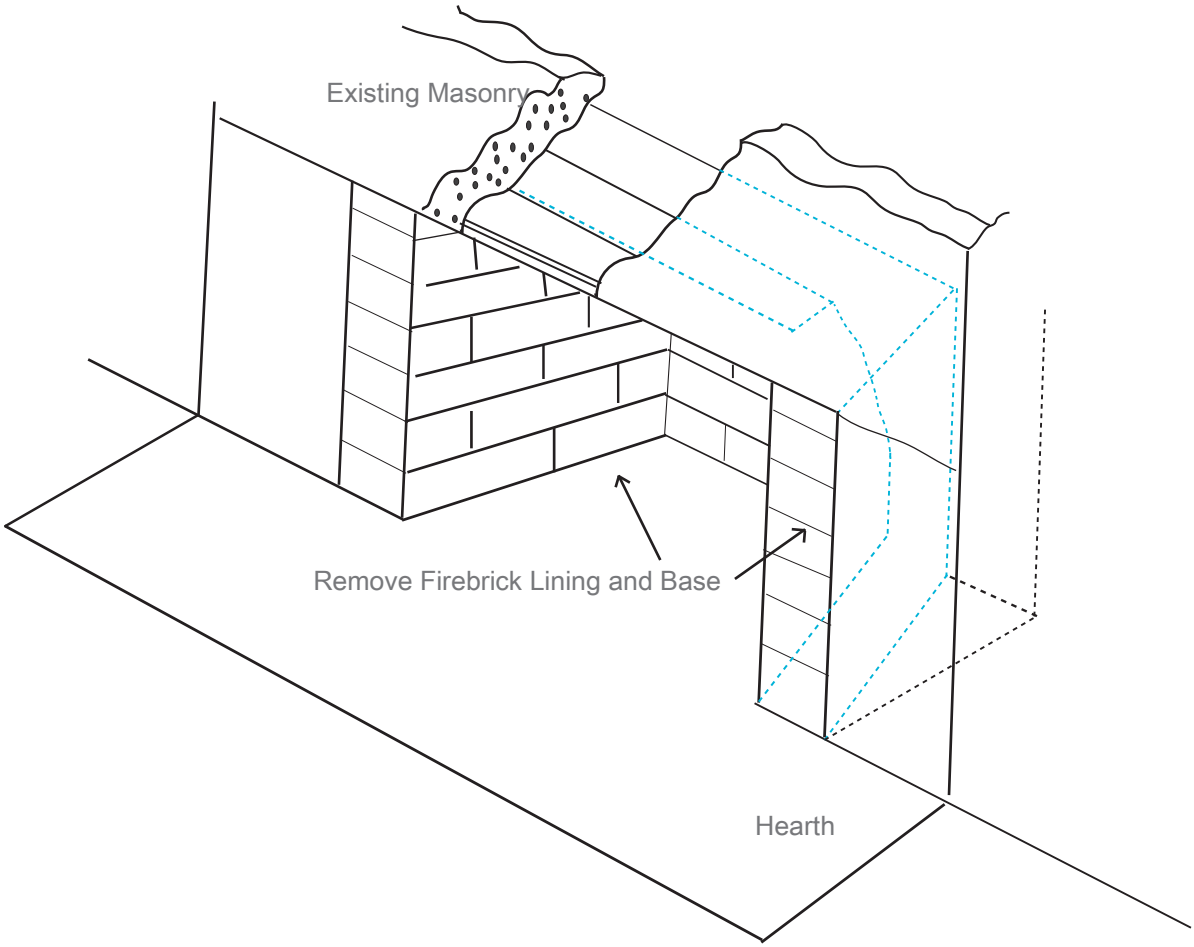
In New Zealand, each house is different from the next. Therefore, these are general guidelines for installation. Some variations may be needed with different sized and shaped fireplaces. If you have any doubts, please do not hesitate to contact Living Flame for advice on installation.

1. A gas certificate must be taken out for the installation.
2. Remove existing rear and side firebricks (if required).
3. Check measurements of opening height, width and depth.
4. Check chimney is clean and unrestricted. Size of chimney should not be less than 12% of fireplace opening size.
5. Chimney should be checked for correct height in relation to the roof and other objects in close proximity.
6. Install fire, cowl and wind skirt.
7. A 10 mm gas connection should be brought into the right hand rear of the fireplace, sized for a capacity of 60 mj/hr to provide spare capacity in the gas line. Pressure test gas lines before connection to the Insert or Basket Fire.
8. The fire should be put into place to check for size, levels and fixing.
9. Connect the 10 mm gas line from the rear of the Insert or Basket Fire to the 15 mm gas supply line with a copper reducer and silfox joint. (Do Not use flare or gland fitting).
10. Slide fire back into place and fix level.
11. Turn on gas supply and bleed air from lines.
12. Commission fire, smoke test, set flame height and combustion test.
13. Connection of gas supply must be carried out by a Registered Gas Fitter.
14. The room should be checked to ensure adequate ventilation is provided for operation of the fire. (Special care should be taken where extractors, range hoods and transfer ducts are used on the property).

Living Flame
New Zealand Technical Expertise

Installation into Existing Fireplaces

Must be in accordance with NZS 1900. Chapter 7

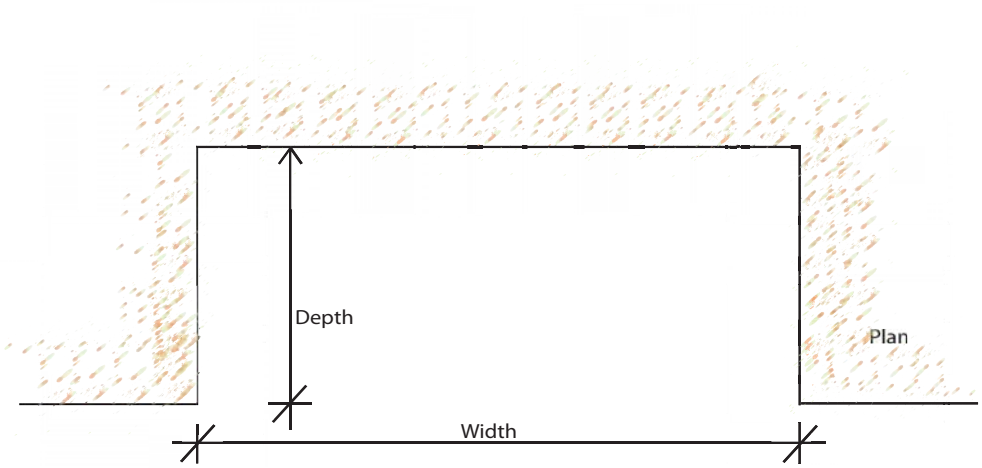


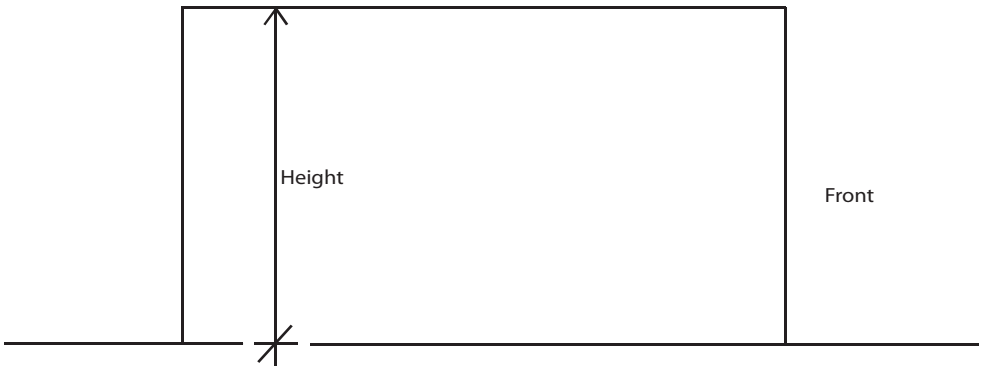
Living Flame

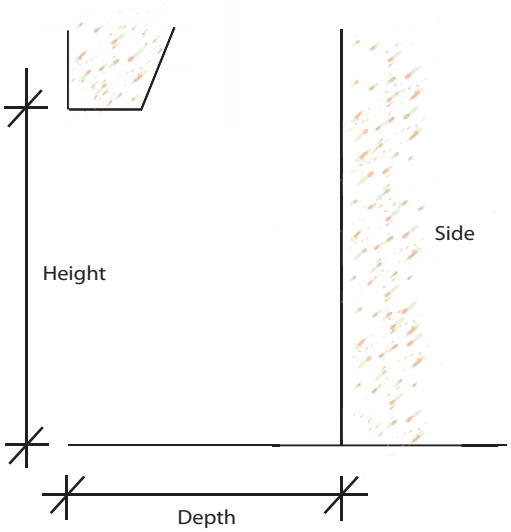
New Zealand Technical Expertise

Installation into Existing Fireplaces

Straight Fireplace



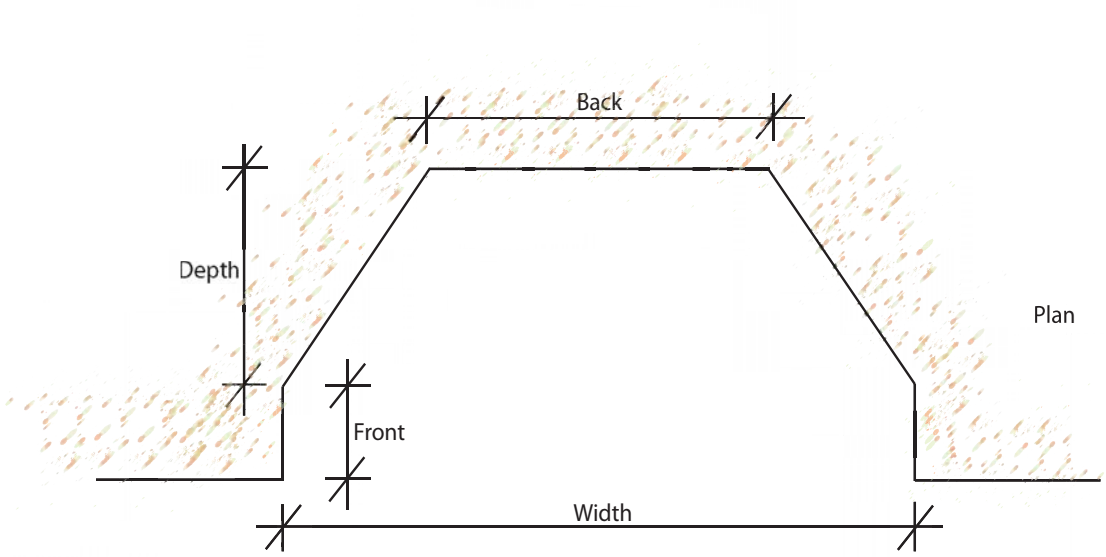


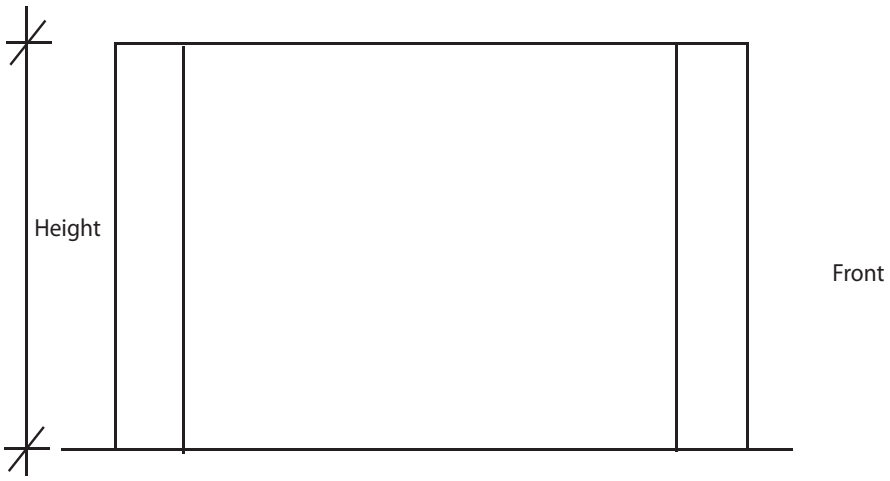


Living Flame
New Zealand Technical Expertise

Installation into Existing Fireplaces

Tapered Insert

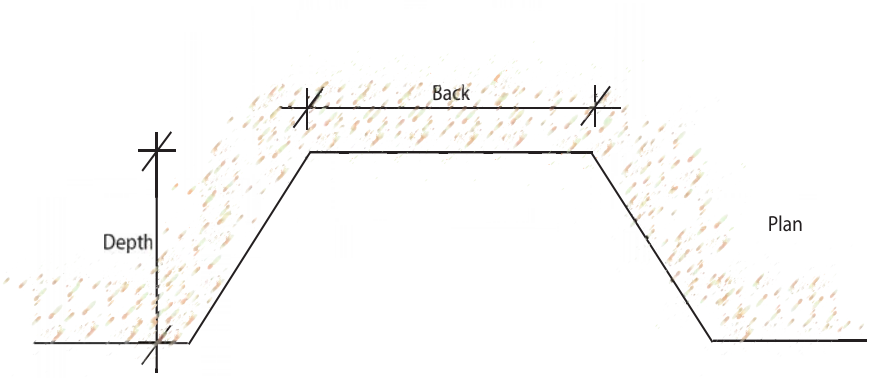


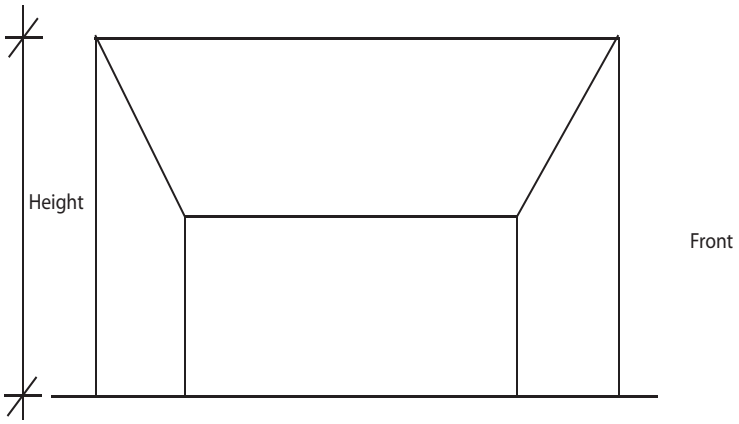


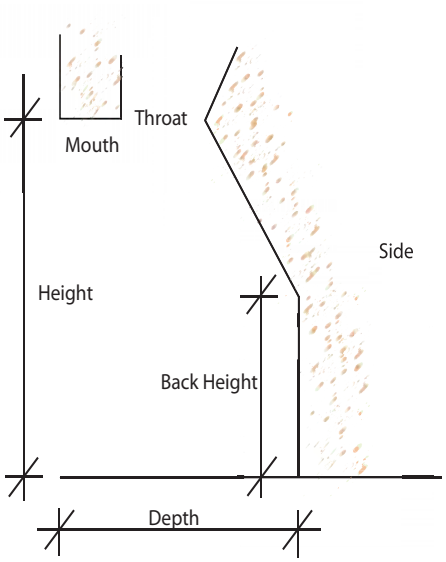
Living Flame
New Zealand Technical Expertise

Installation into Existing Fireplaces

Sloping Back Fireplace



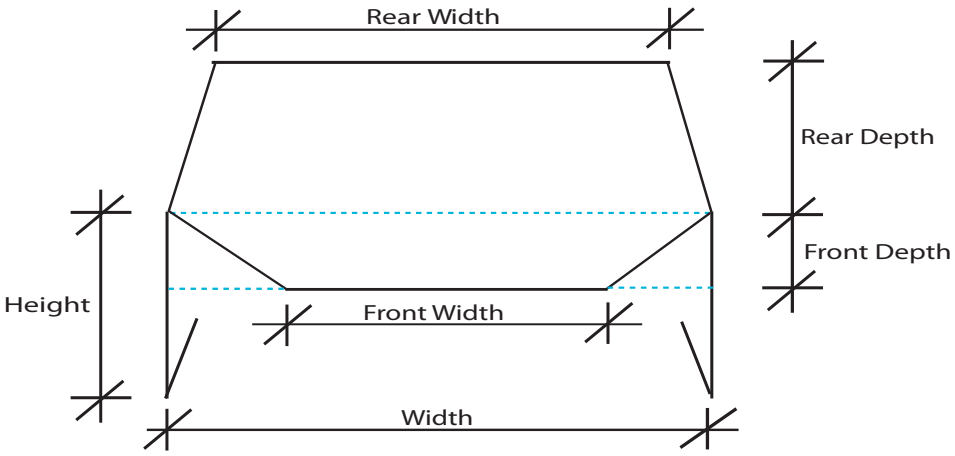


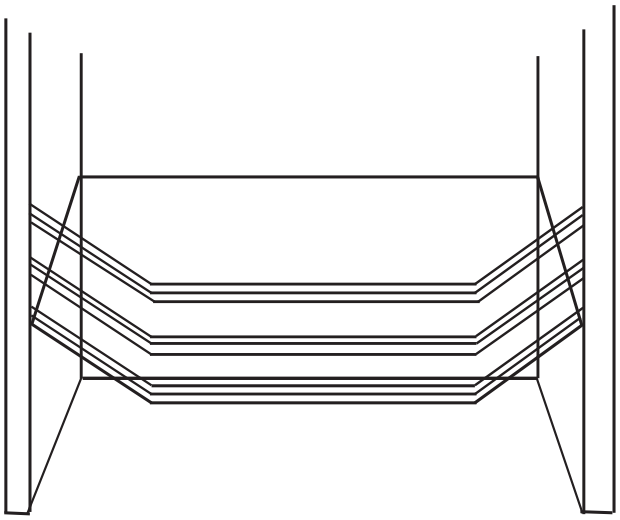


Living Flame
New Zealand Technical Expertise

Installation into Existing Fireplaces

Register Fireplace

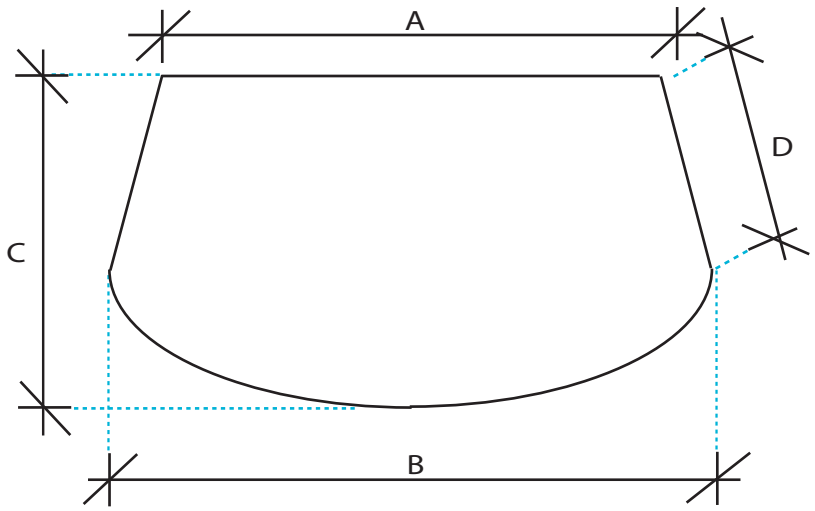




Living Flame
New Zealand Technical Expertise

Installation into Existing Fireplaces

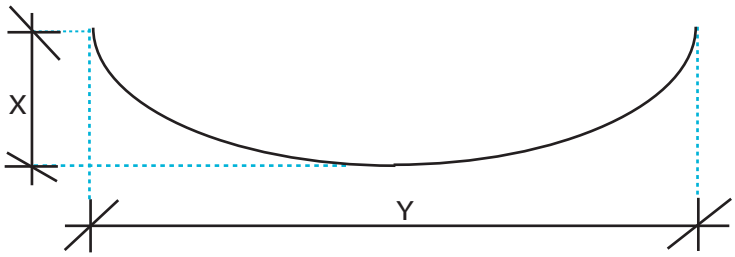
Register Inserts



Height for legs is the same for Ash Cover Draw Height

A	
B	
C	
D	
X	
Y	

Ash Cover Drawer Template Shape



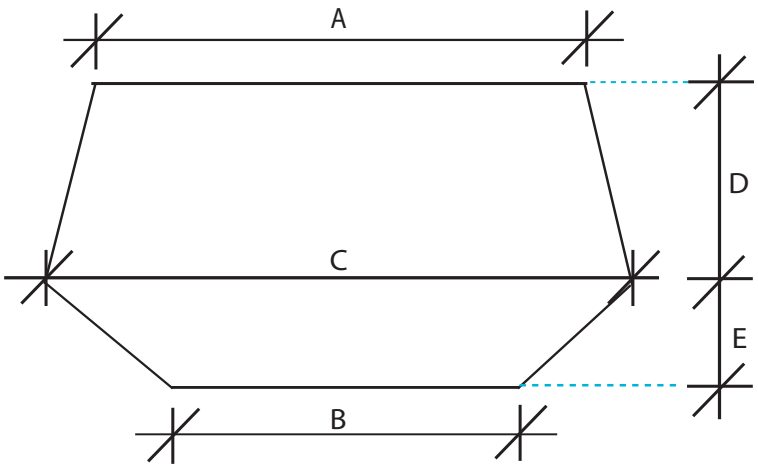
NOTE: If measuring of grate cannot be done, take template of grate onto cardboard

NOTE: For Ash Cover Drawer Height from Bottom of Grate to Floor is needed

Living Flame
New Zealand Technical Expertise

Installation into Existing Fireplaces

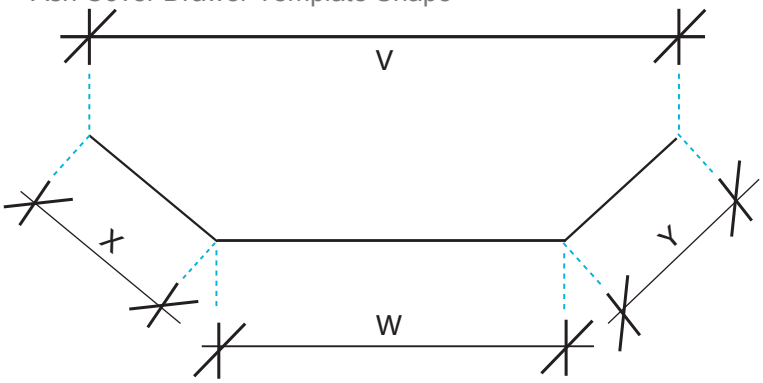
Register Inserts



Height for legs is the same for Ash Cover Draw Height

A	
B	
C	
D	
E	
V	
W	
X	
Y	

Ash Cover Drawer Template Shape



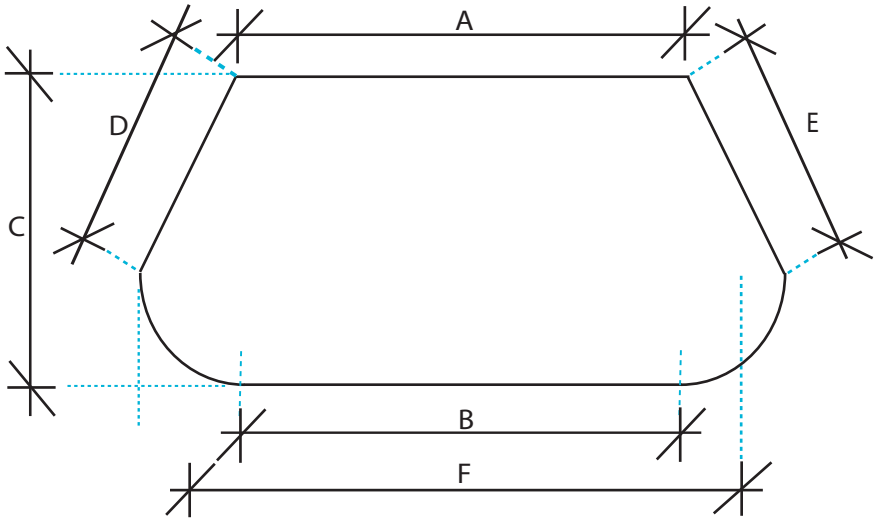
NOTE: If measuring of grate cannot be done, take template of grate onto cardboard

NOTE: For Ash Cover Drawer Height from Bottom of Grate to Floor is needed

Living Flame
New Zealand Technical Expertise

Installation into Existing Fireplaces

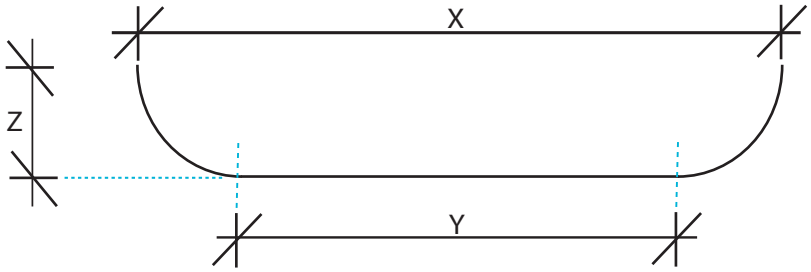
Register Inserts



A	
B	
C	
D	
E	
F	
X	
Y	
Z	

Height for legs is the same for Ash Cover Draw Height

Ash Cover Drawer Template Shape

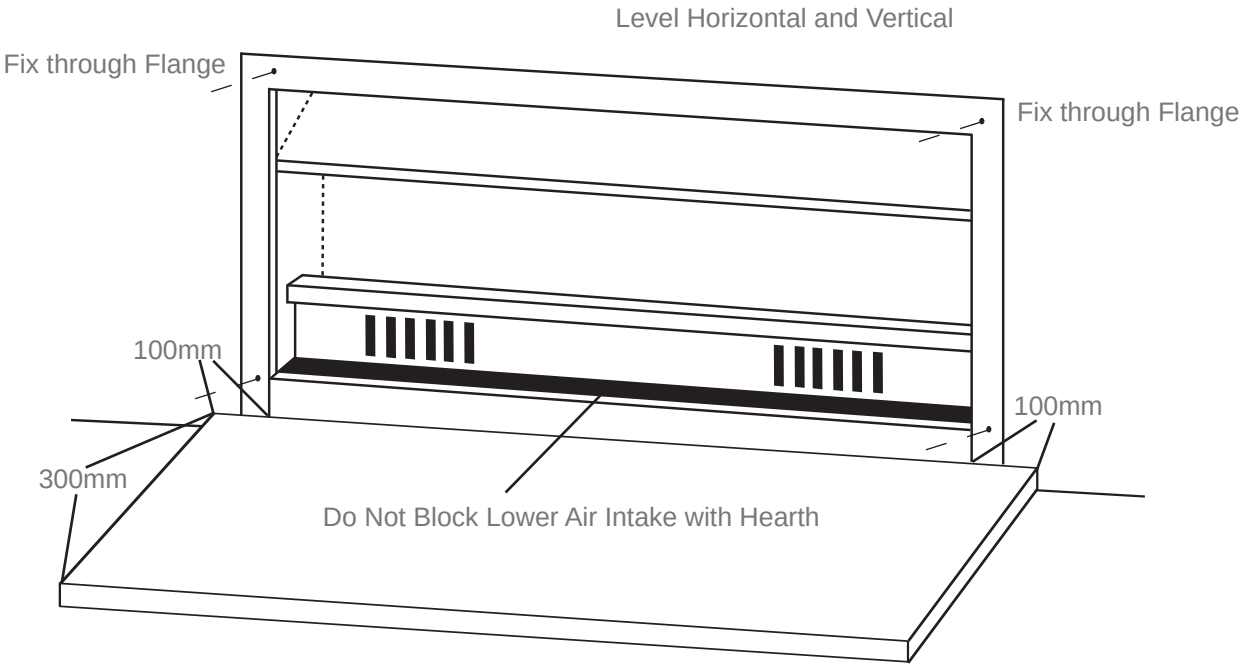


NOTE: If measuring of grate cannot be done, take template of grate onto cardboard

NOTE: For Ash Cover Drawer Height from Bottom of Grate to Floor is needed

Living Flame
New Zealand Technical Expertise

Hearth Requirements



Minimum of 300 mm Front to Back

Minimum of 100 mm either side of Fireplace Opening

Minimum of 10 mm Thickness of Non-Combustible Material

Protection from Downwards Radiant Heat

Protection From Objects that may be thrown in the gas fire

Tested as an acceptable solution to C1 of the Building Code

Personal Protection

A fire guard to BS standard 65369 or 6778 should be used for the protection of Young Children, the Elderly and the Infirm.

Do Not Store or use Flammable Vapors or Liquids in the vicinity of the fireplace or any other gas appliance.

Do Not place combustible materials against or around the fireplace.

Living Flame

New Zealand Technical Expertise

AS/NZS 5601 Installation Code

Gas Burning Appliances and Equipment

Decorative Gas Fires

These fires are limited to open flame type appliances with a gas consumption of no more than 72 MJ per hour and designed for installation only in a vented fireplace and whose primary function lies in the aesthetic effect of the flames.

They shall be installed in a non-combustible fireplaces fitted with a vertical chimney or flue of a minimum cross sectional area of 40,000 mm^2. The chimney, hearth, fireplace back (where applicable) and other parts of the fireplace shall be constructed in accordance with the requirements of the Building Regulations for chimneys and fireplaces intended for use with solid fuel.

An approved cowl shall be fitted to a flue or a chimney flueing a gas decorative fire.
Decorative gas fires shall not be installed in bedrooms unless there is permanent fixed ventilation and safety controls in rooms which a central heating return ventilation system exhaust register is located.

The flue or chimney of the fire is to be kept clear at all times and no device for temporary closure of the flue or chimney is permitted.

When the fire is commissioned, the fireplace in which the fire is installed and its chimney or flue, shall be checked and the appliance adjusted by the installer to ensure correct operation.

Living Flame
New Zealand Technical Expertise

Ventilation

Adequate ventilation for the fireplace shall be provided in accordance with AS NZS 5601 and the Manufacturer's Instructions.

The blocking up or modifying of any of the airways of the fireplace in any way, could create a hazardous situation of either overheating or poor ventilation.

Fixed ventilation must be provided equal to 100 mm^2 for every 10 MJ of gas input. Vent should be installed at a high level to prevent draughts.

Living Flame has carried out extensive research and testing into the correct ventilating for an open gas fireplace.

The requirements for an open natural draught fireplace is for fixed ventilation grills to be fitted to supply make up air with an open area equal to 100 mm x 100 mm a factor of 1 for every 10 MJ that the gas fireplace is rated at.

As a rule of thumb you will find that the size of the required ventilation grill will closely match the cross sectional area in m2 of the fireplace natural draught flue.

The air flow through an open natural draught fireplace ventilation grill is at very low velocity, approximately 2 pa with an airflow of between 250 m3 - 1200 m3/hr depending on the size of the fireplace.

Living Flame
New Zealand Technical Expertise

Gas Connection

A gas Certificate must be given for the installation, connection and associated flue vent system.

All installation work should be carried out by a suitably trained and qualified person to comply with installation code AS NZS 5601 and the manufacturers instructions and then certified by a Craftsman Gasfitter.

Before installation commences, check the data plate on the fire to verify that the fire is set up to suit you type of gas supply. Field conversion to suit a different gas is not always practical.

This fireplace is supplied with a 10 mm soft copper connection mounted at the rear or the side of the fireplace, depending on the configuration.

A gas line capable of supplying a minimum of 100 MJ per burner should be brought to the fireplace with a 10 mm soft copper tail. This is to be connected to the 10 mm soft copper pipe.

Other systems of connection may be used in accordance with AS NZS 5601

Living Flame
New Zealand Technical Expertise

Flue & Chimney Requirements

- This fireplace must be vented to outside atmosphere.
- Flueing must be in accordance with the AS NZS 5601 and all local body bylaws.
- Flue vent must be unrestricted.
- The flue vent should be checked for correct height and location in relation to other objects in close proximity
- Flues must be sealed to prevent damage from water or products of combustion leakage
- Flues should be inspected and tested annually.

Liner Installation

- Flue outer airspace should be a minimum of 25 mm from any combustible material
- Flues may be offset at not less that a 10^0 angle from the horizontal
- Flues should not be restricted in anyway.
- Flues should be bracketed to take their own weight.
- Flues must have an anti-down draught rain and wind cowl fitted.
- Roof flashing and seals should be the appropriate type for the roof.

Height Flue

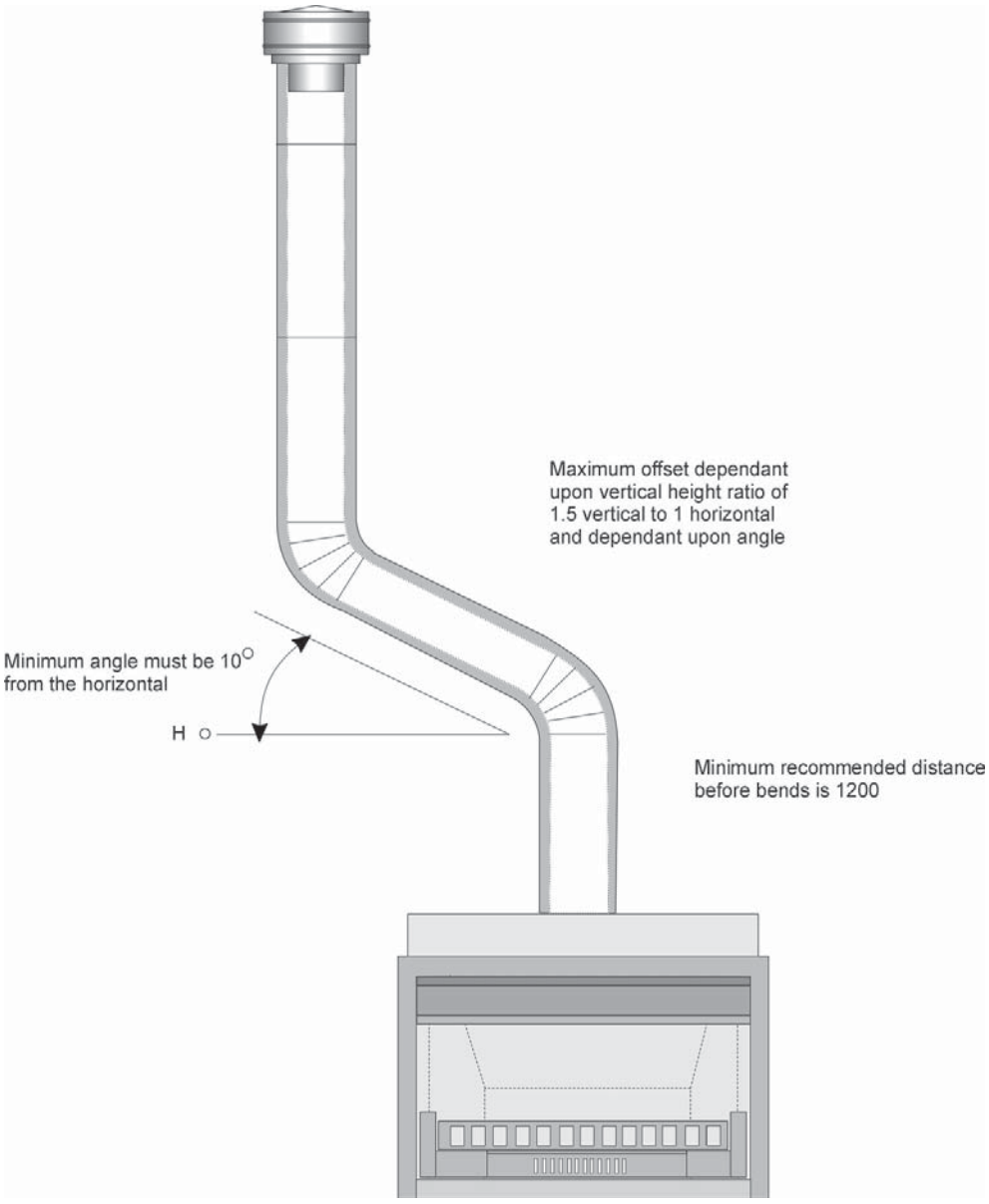
- The minimum effective height of the flue shall be at least 3.6 metres.
- Flues or chimneys should rise until there is a 2.5 metre clearance horizontally from any part of the roof or other obstructions. The flue then rises a further 500 mm vertically from the clearance point, giving the correct height and wind clearance.
- A Living Flame anti-down draught cowl and wind skirt should then be fitted.

Living Flame will be pleased to assist yourself or your architect with the design of the flue or chimney to achieve a result that functions correctly and has the desired appearance for the house.

Living Flame
New Zealand Technical Expertise

Flue & Chimney Requirements

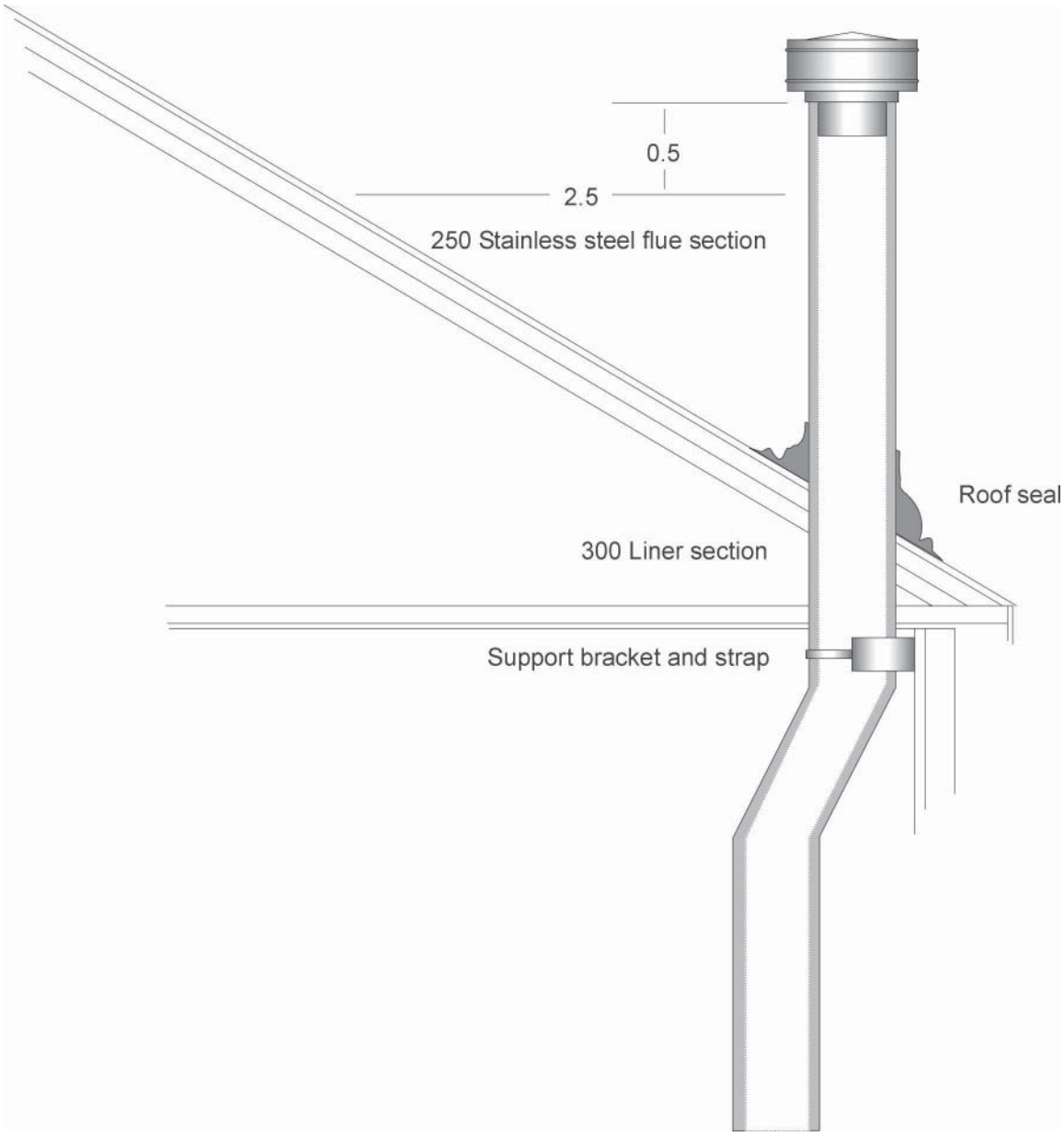
Flue Offset



Living Flame
New Zealand Technical Expertise

Flue & Chimney Requirements

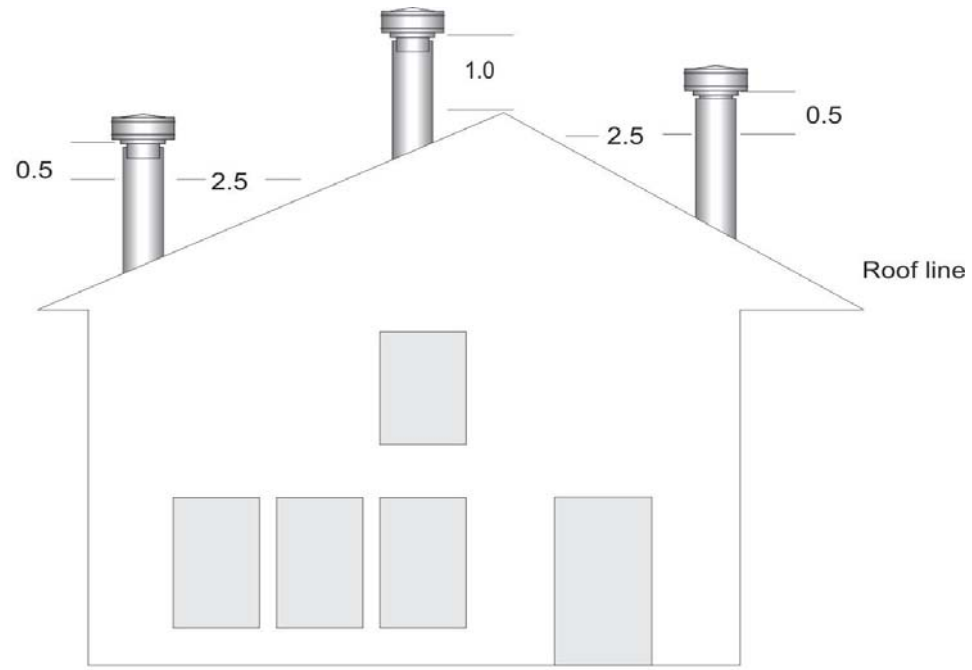
Cowl Height Clearance

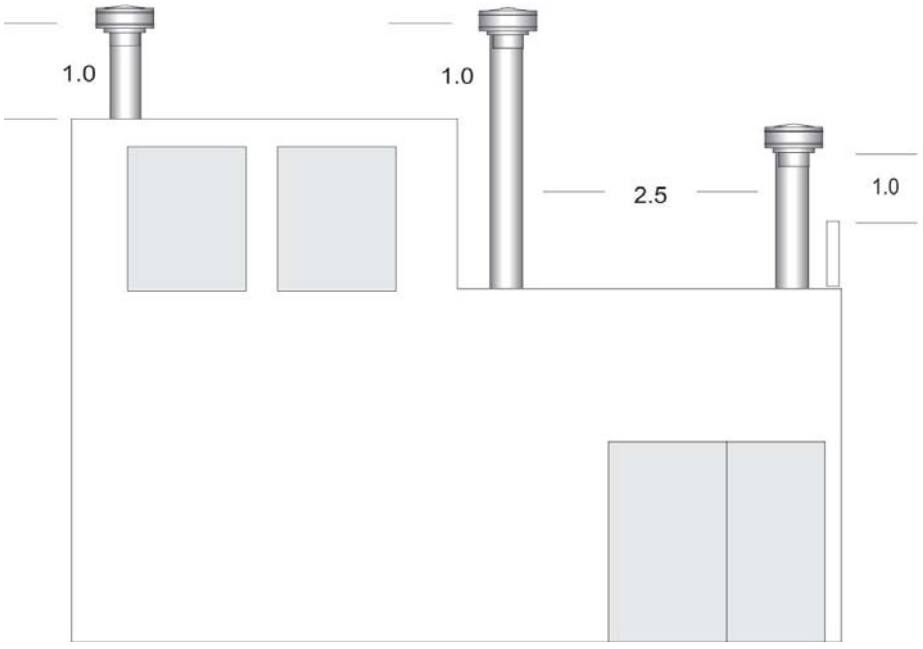


Living Flame
New Zealand Technical Expertise

Flue & Chimney Requirements

Cowl & Flue to Roof Clearances





Living Flame
New Zealand Technical Expertise

Installation of Fixed Log Set

Diffuser Burner

Only the logs and embers supplied with this fire may be used on this fire and said logs and embers may not be used on any other brand of fire.

The fire has a handful of the embers supplied lightly scattered over the fire bed blanket. Place the fixed log set on the ember bed.

Gently settle the frame of the fixed log set into the embers, ensuring that the metal frame is not visible.

When the fire is set correctly the flames should be peaking at approximately 75 mm - 100 mm on high and 25 mm to 35 mm on low

Living Flame

New Zealand Technical Expertise

Electrical

If the Chimney Cavity has room for the Electronic Pack this fireplace can be operated electronically and have a option of a Variable Remote Control.

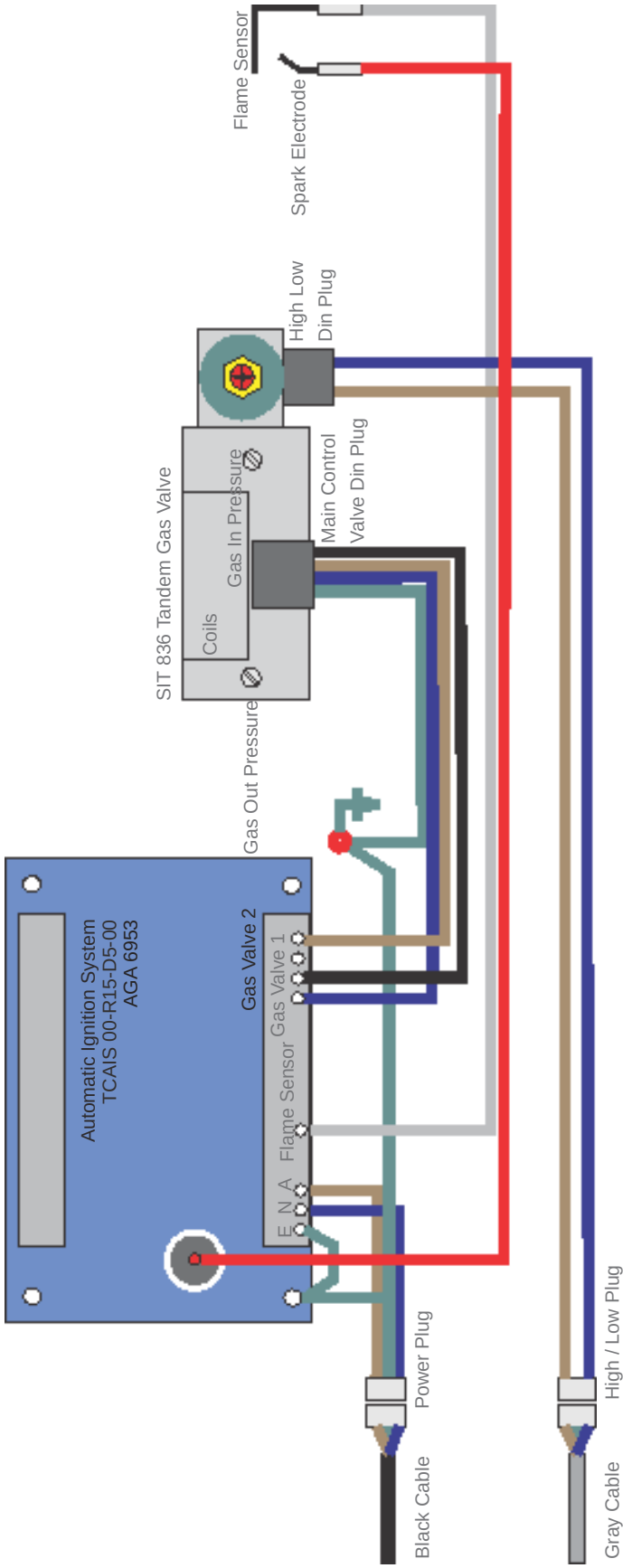
The fireplace, when installed, should be electrically grounded in accordance with the electrical regulations.

This fireplace is supplied with an electronic control system. The appropriate electrical and operating instructions for the control system should be enclosed.

Electronic Burner Control

TCAIS 00-R15-D5-00 AGA6953, SIT 836 Tandem Gas Valve

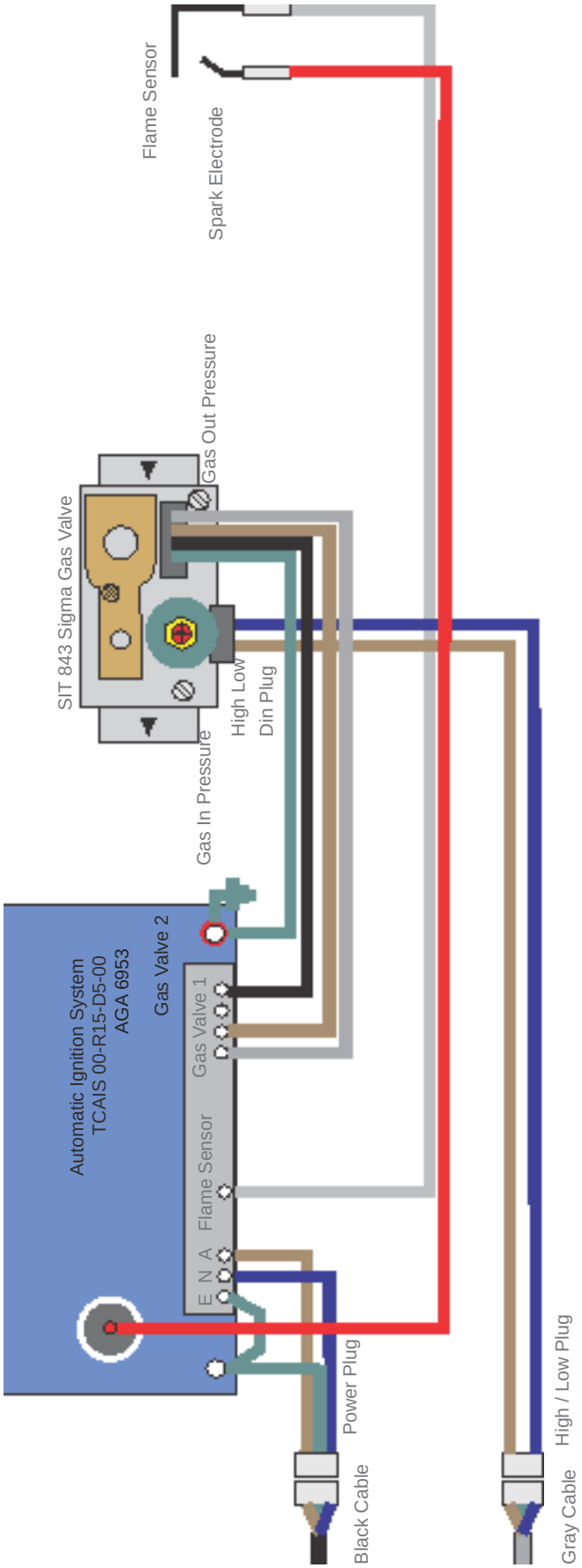
Wiring Layout Pilot - Low Flame - High Flame



Electronic Burner Control

TCAIS 00-R15-D5-00 AGA6953, SIT 843 Tandem Gas Valve

Wiring Layout Pilot - Low Flame - High Flame



Living Flame Expressed Guarantees

December 2006

Inbuilt Fireplace bodies are constructed for a minimum working life of fifteen years when installed in compliance with AS NZS 5601, C1 Outbreak of Fire & Manufacturer's Installation, Operating and Maintenance Instructions

Fire Sure Lifetime Body Guarantee

This is a Fire Sure Lifetime Replacement Guarantee that covers the fireplace body manufactured by Living Flame Fires and only covers the repair or replacement of the fireplace body where an irreparable defect, due to material or manufacturing failure occurs within the lifetime of the fireplace. The Fire Sure Lifetime Body Guarantee does not cover faults caused by incorrect installation, incorrect commissioning or misuse, and the fire should be installed and maintained in compliance with the Guarantee and all conditions of the Guarantee fulfilled.

Fire Sure Lifetime Burner Assembly Guarantee

This is a Fire Sure Lifetime Replacement Guarantee that covers the fire burner tray manufactured by Living Flame Fires and only covers the repair or replacement of the fire burner tray where an irreparable defect, due to material or manufacturing failure, occurs within the lifetime of the burner. The Fire Sure Lifetime Assembly Guarantee does not cover faults caused by incorrect installation, incorrect commissioning or misuse, and the burner should be installed and maintained in compliance with the guarantee and all conditions of the guarantee fulfilled.

One Year Control Assembly Cover

This is a One Year Control Assembly Repair or Replacement Guarantee that covers the control components used in the manufacturing of a Living Flame Fire or Fireplace. The manufacturer only covers the repair or replacement of control components where defect due to material or manufacturing failure, occurs within the first year from date of supply by Living Flame. The One Year Control Assembly Guarantee does not cover faults caused by incorrect installation, incorrect commissioning, serving or misuse or other external electrical problems, and that the Control Assembly has been maintained in compliance with the guarantee and all conditions of the guarantee fulfilled.

One Year Labour Cover

This is a One Year Guarantee covering the normal labour charges required to replace components of a Living Flame Fire should a part fail in its first year of service. The One Year Guarantee does not cover faults caused by incorrect installation or commissioning. The refund of associated labour charges are based on our schedule of costs listing services of parts to be charged for, time allotted and costs allowed including travel, when carried out by an approved Living Flame service person. Travel is only covered within a 25km radius from Living Flame Limited. The fire has to have been installed and maintained in compliance with the guarantee and all conditions of the guarantee must have been fulfilled.

Three Month Heat Paint Cover

This is a Three Month Guarantee covering the painted surface of the firebox. It is a warrantee against paint peeling and flaking off during normal use of the fire. It excludes discolouration as this is a normal property of the painted surface when heated by the flames. It also excludes any scratching of the painted surface that may occur at the time of installation. It is the responsibility of the installer to touch up any paint surfaces if necessary as it is part of a normal installation service. This does not affect the running of the fire but is aesthetically pleasing to have done. Please check with your annual service provider

Exclusion from Guarantee

This Fireplace Replacement Guarantee excludes any costs associated with the removal or replacement on site of the fireplace at the owners request, required for finishing work or

Refurbishment work to the fireplace, surround, chimney, flue or gas line testing or recertification. This guarantee is only valid when the fire has been installed in New Zealand.

Installation

Living Flame Fireplaces must be installed to comply with:

- New Zealand Standards and Building Codes where relevant
- New Zealand Standards Gas Installation Code
- Living Flame Installation Instructions
- Living Flame Operating Instructions
- Living Flame Maintenance Instructions

Living Flame Fireplaces must be installed free from dampness and free from corrosive elements.

Living Flame Fireplaces must be installed with an unrestricted flue or chimney and with a Living Flame designed cowl.

Living Flame Fireplaces must be installed by a suitably qualified person and a certificate of compliance must be given by a Registered Certifying Gasfitter under the New Zealand Gas Act.

Guarantee and Warrantee Validity

Guarantee claims will only be considered when completed by a Living Flame approved service person in accordance with Living Flame procedures.

Operating

Living Flame Fireplaces must be operated in accordance with Living Flame Operating Instructions.

Living Flame Fireplaces should be used only for the burning of gas fuels: Natural Gas, Liquid Petroleum Gas or Propane Gas. The type of gas to be used should be specified at the time of ordering the unit.

Living Flame Fireplaces must only be operated with a Living Flame Gas Insert Fire that has been commissioned to Living Flame's Commissioning Instructions.

Maintenance

Living Flame Fireplaces must be maintained, cleaned, serviced and re-commissioned annually as should all gas appliances.

Domestic Users

Living Flame Fireplaces should be inspected, cleaned, serviced and re-commissioned at least once yearly throughout the lifetime of the fire to maintain the guarantee.

Commercial Users

Living Flame Fireplaces should be inspected, cleaned, serviced and re-commissioned at least twice yearly throughout the lifetime of the fire to maintain the guarantee

This Guarantee should be kept in a Safe Place Along with the Operating Instructions

Operating Instructions
Manual BM Rotary Control

Check Gas Supply is Turned On

To Start

- Make sure the control is in the Off Position
- Depress the control know for ten seconds
- Keeping the control know depressed turn counter clockwise to the Pilot / Sparker diagram position
- Gas flows to the Pilot Burner and the Piezo Igniter gives off a spark to light the pilot

If It Fails To Light Repeat Start Up Sequence

- When the pilot lights, keep the control knob depressed for approximately ten seconds until the pilot remains alight when the control know is released.

Note:

If the gas line has been interrupted when first lighting the fire, it may be necessary to follow the start up sequence several times.

High / Low Flame

Turn the Control Knob to light the main burner.
Small Flame Diagram is low.
Large Flame Diagram is high or anywhere in between as desired.

Shut Off

Turn the control knob clockwise to either the pilot position so that only the pilot remains alight or to the off position to extinguish the pilot light.

Safety Shut Off

The Variable rotary control will automatically shut down should the pilot be interrupted or the pilot fails to light.

Living Flame
New Zealand Technical Expertise

Operating Instructions
Electronic Two Stage

Check Gas Supply is Turned On

To Start

- Switch the high / low switch to the High position
- Switch the on / off switch to the On Position. The controller will complete a safety check (for some controllers this will take approximately 10 seconds, others may take 30 - 35 seconds).
- The Auto spark ignition will start and a clicking noise will be heard
- The gas pilot valve will open and the pilot will establish.
- Once the pilot is established and sensed by the safety detection rod, the main valve will open and the burner will light after a few seconds.

Note:
If the gas line has been interrupted when first lighting the fire, it may be necessary to follow the start up sequence several times.

High / Low Flame
Once the fire is fully glowing and maximum temperature has been reached, the high / low switch may be turned to the LOW position to give the low fire effect.
For high flame just flick the switch back to HIGH.

Shut Off
Switch the on / off room switch to the off position and the control system will shut off the pilot and main burner

Note:
If the system fails to light after several attempts, call for a registered Living Flame Maintenance Engineer or Living Flame Auckland for your nearest Registered Service Agent.

Living Flame
New Zealand Technical Expertise

Operating Instructions
Variable Remote Control 885

Remote powered by 3x AAA batteries.

Turn on the Remote

Press the On /Off key on the remote. The remote display will show all active icons on the screen. A single beep from the remote will confirm reception of the command.

Turn Off the Remote

Press the On / Off key on the remote. The remote LCD display will only show the room temperature. A single beep from the remote will confirm the reception of the command.

Manual 6 Flame Levels

Turn on the Remote

Press the mode key until the flame icon shows on the bottom left hand corner on the LCD Screen. Pressing down the arrow key once will reduce the flame height by one step until the flame is turned off. The Up arrow key will increase the flame height each time it is pressed. If the Up arrow key is pressed with the system is on but the flame is off, the flame will come on in the high position. A single beep will confirm the reception of the command.

Room Thermostat

The Remote can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in a room.

To activate this function, press the thermostat key. The LCD display on the Remote will change to show that the room thermostat is On. The set temperature is now the large number displayed. To adjust the set temperature, press the Up or Down arrow keys until the desired set temperature is displayed on the LCD screen of the Remote.

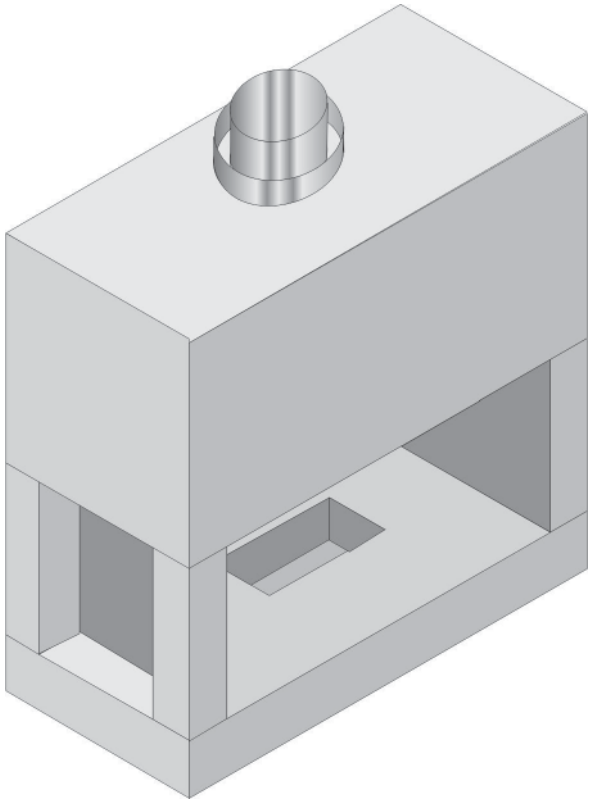
Smart Thermostat

The Smart Thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperatures. As the room temperature gets closer to the set point the Smart function will modulate the flame down.

Turn on the Remote. Press the mode key until the word SMART appears to the right of the temperature icon on the top left of the LCD Screen. To adjust the set temperature, press the Up or Down arrow keys until the desired set point temperature is displayed on the LCD screen on the remote.

Living Flame
New Zealand Technical Expertise

Pre Fab Fireplaces



Living Flame

New Zealand Technical Expertise

Pre Fab Fireplace

Basket & Insert Gas Fires

Basket Gas Fires

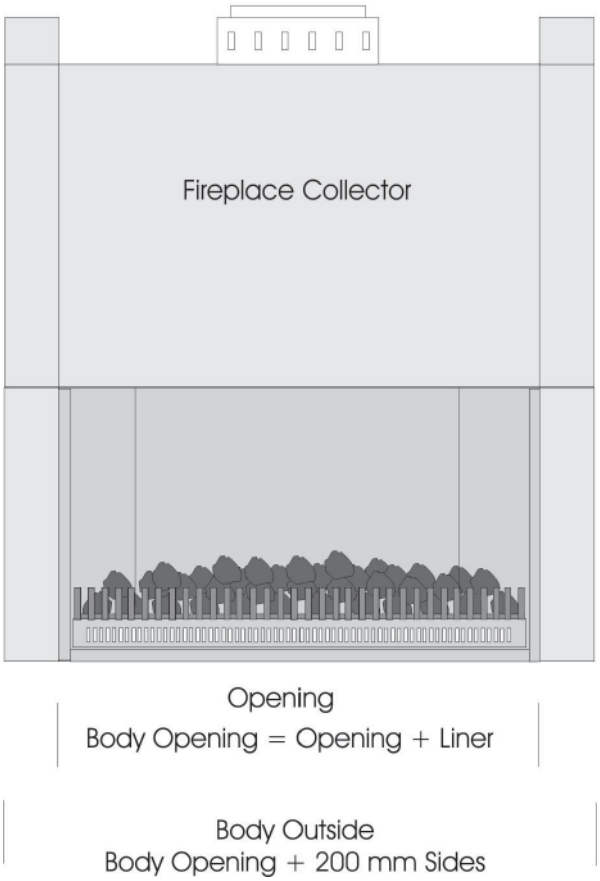
Basket Fires need a minimum of 50 mm each side of the fire

Fires should be set back a minimum of 50 mm from the front line of the fireplace

Basket Opening width less 100 mm

Basket standard depth 350 to 450 mm

Basket fireplace depth - liner - 50 mm



Insert Gas Fires

Inserts are made to fit to each side of the fireplace

Fires should be set back to a minimum of 50 mm from the front line of the fireplace

Insert standard depth 350 to 450 mm

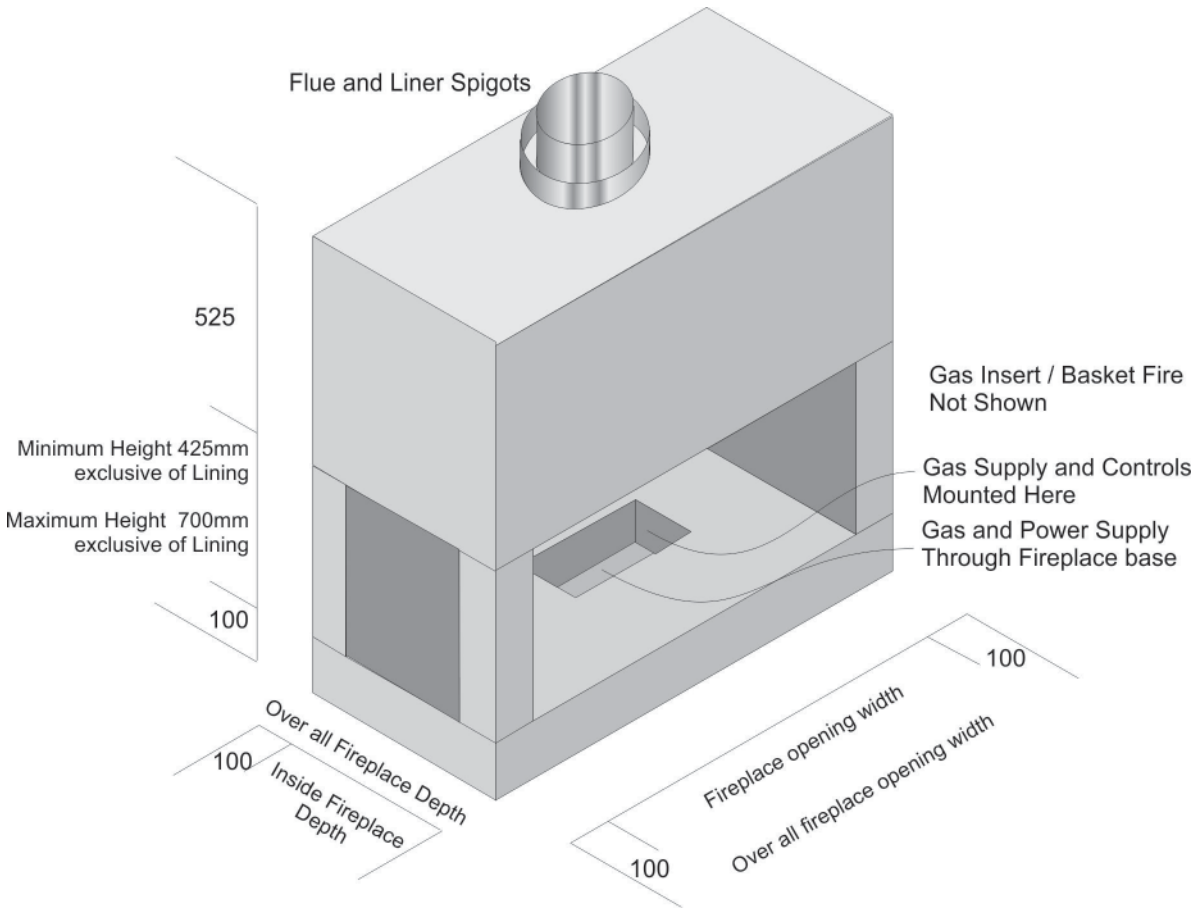
Insert depth = Fireplace depth - liner - 50 mm

Living Flame

New Zealand Technical Expertise

Pre Fab Fireplace

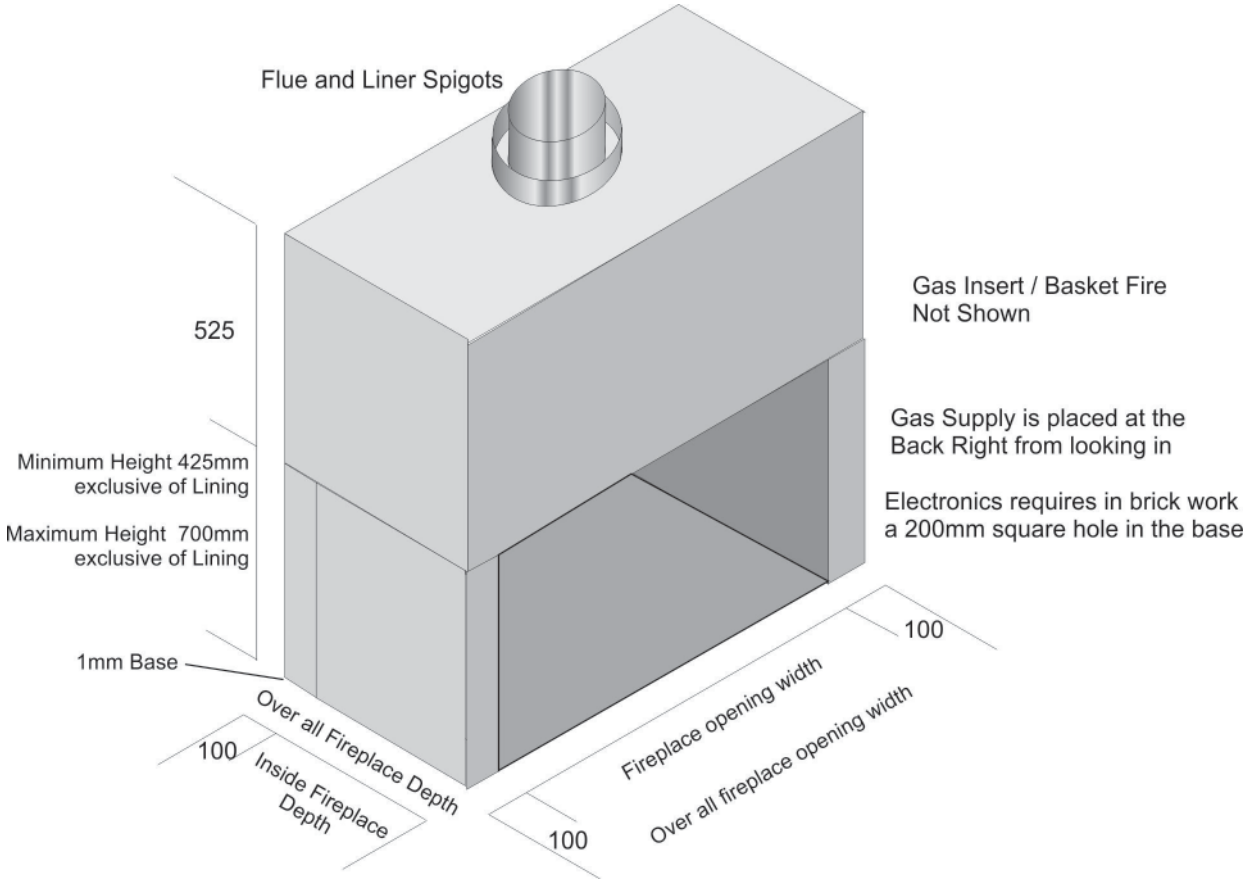
With 100mm Base



Living Flame
New Zealand Technical Expertise

Pre Fab Fireplace

With 1mm Base

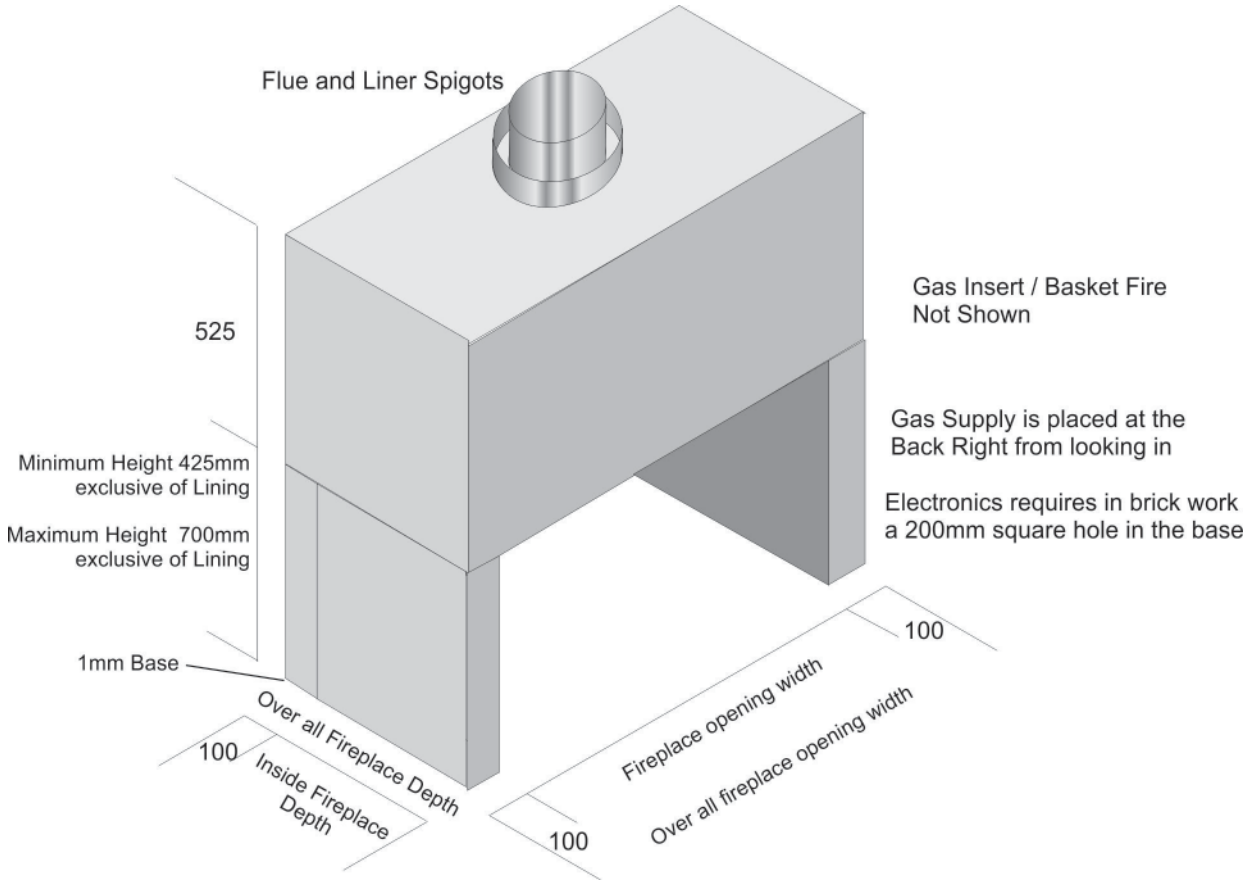


Living Flame

New Zealand Technical Expertise

Pre Fab Fireplace

No Base

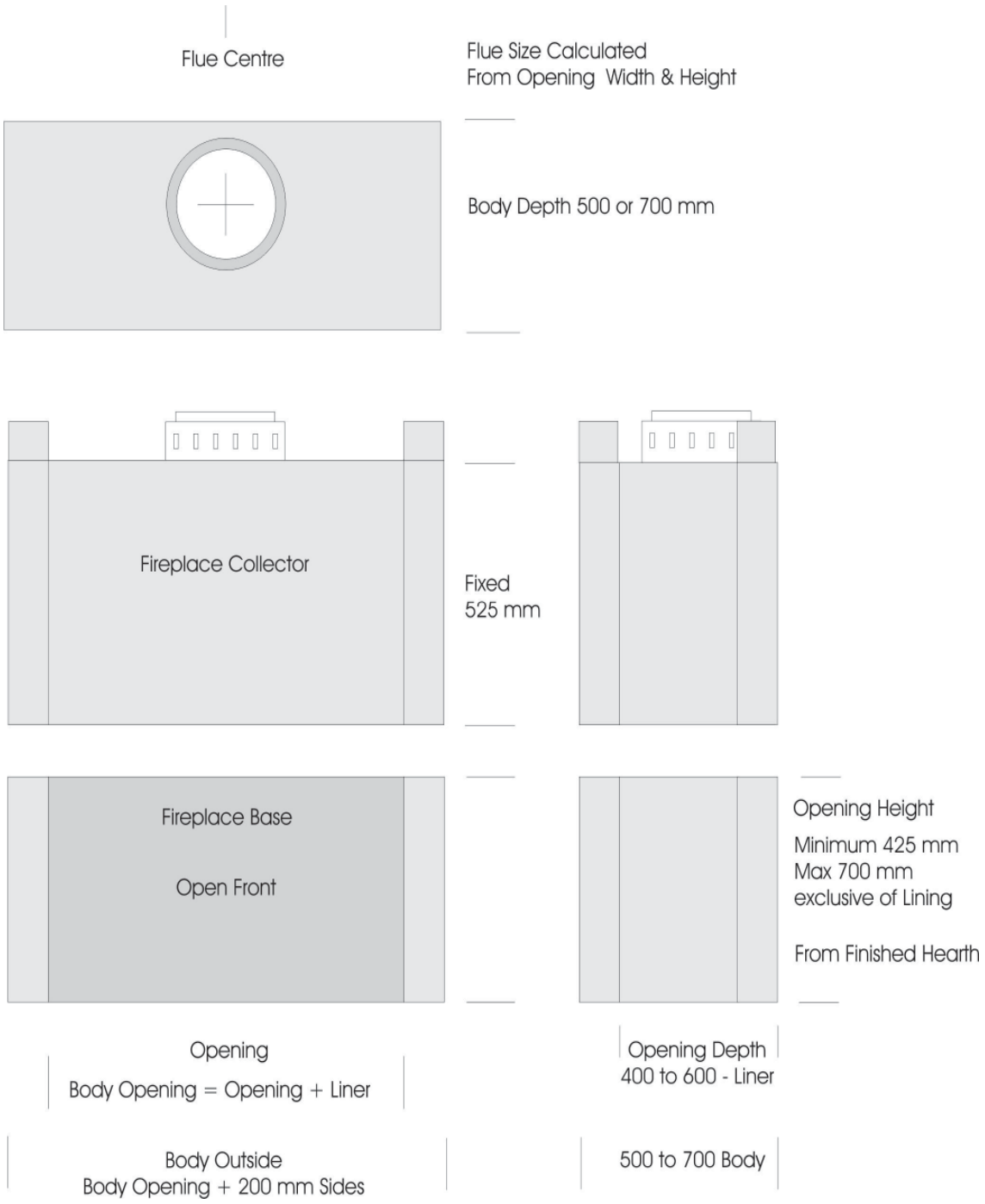


Living Flame

New Zealand Technical Expertise

Pre Fab Fireplace

Built in Clearances

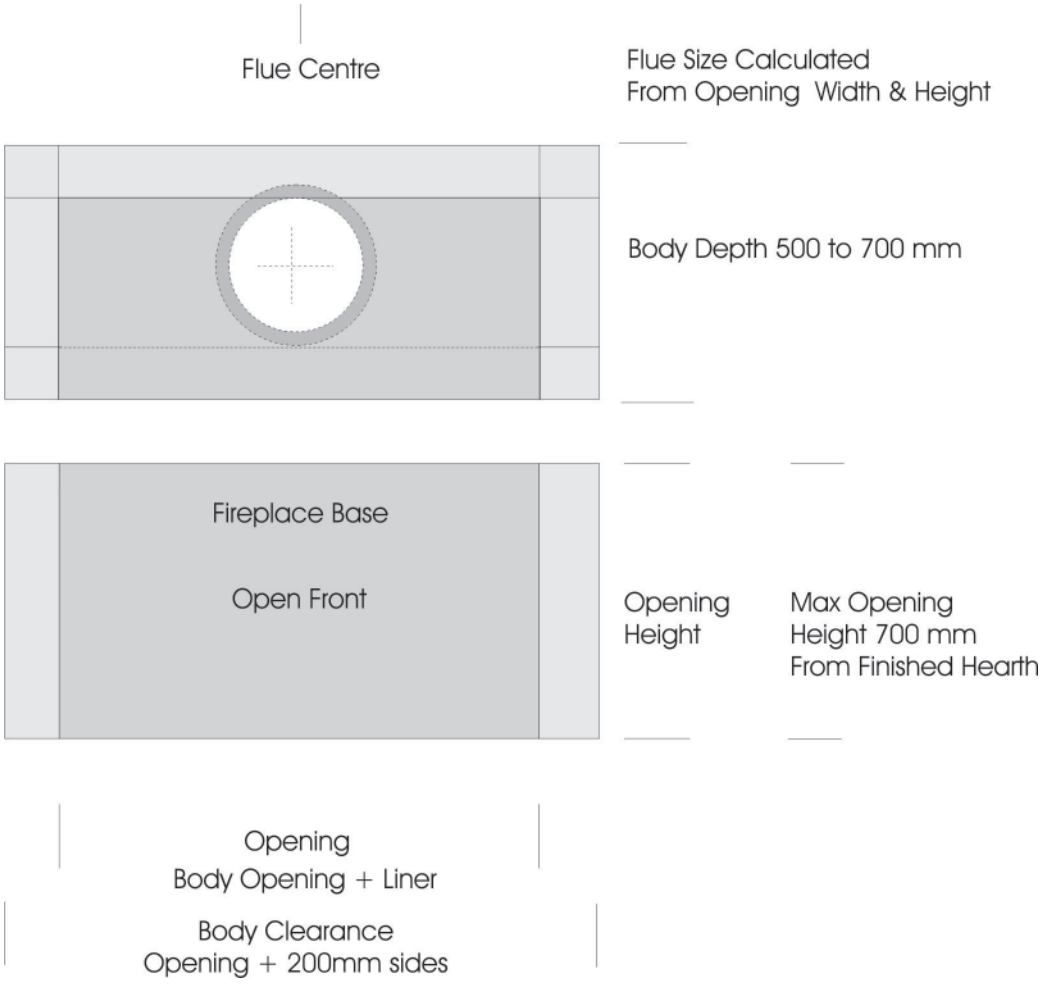


Living Flame
New Zealand Technical Expertise

Pre Fab Fireplace

Built in Clearances

Straight Sides

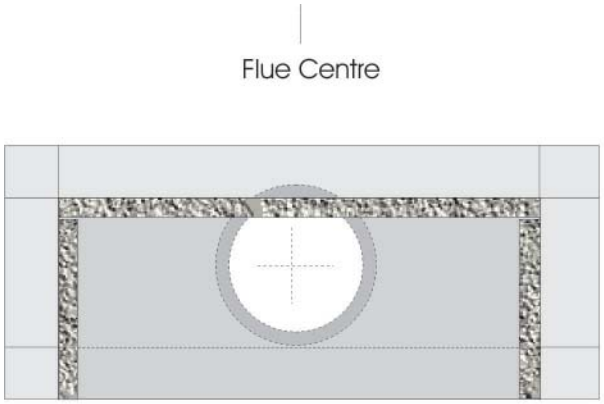


Living Flame
New Zealand Technical Expertise

Pre Fab Fireplace

Built in Clearances

Straight Sides with Stone Liner (showing base only)



Flue Centre

Flue Size Calculated
From Opening Width & Height

Body Depth Fixed
500 to 700 mm

Opening
Height

Max Opening
Height 700 mm
From Finished Hearth

Opening

Body Opening + Liner

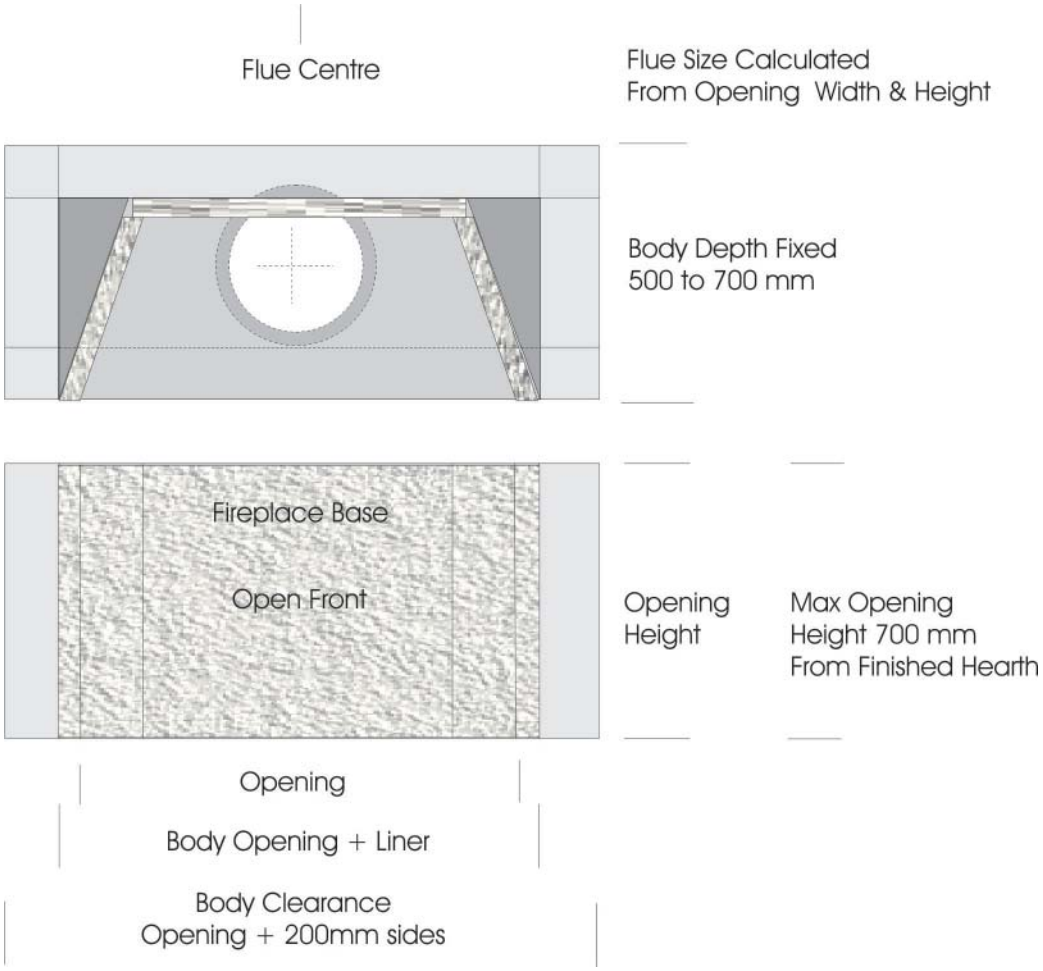
Body Clearance
Opening + 200mm sides

Living Flame
New Zealand Technical Expertise

Pre Fab Fireplace

Built in Clearances

Tapered Sides with Stone Liner (showing base only)



Living Flame
New Zealand Technical Expertise

Auckland Display
343b Church Street, Penrose
Phone: 09 622 1148
Fax: 09 626 1179
Email: info@livingflame.co.nz

Christchurch Display
Home Ideas Centre
Mandeville Street, Riccarton
Phone: 027 204 4201
Email: lfchch@mantel.co.nz

Living Flame

New Zealand Technical Expertise