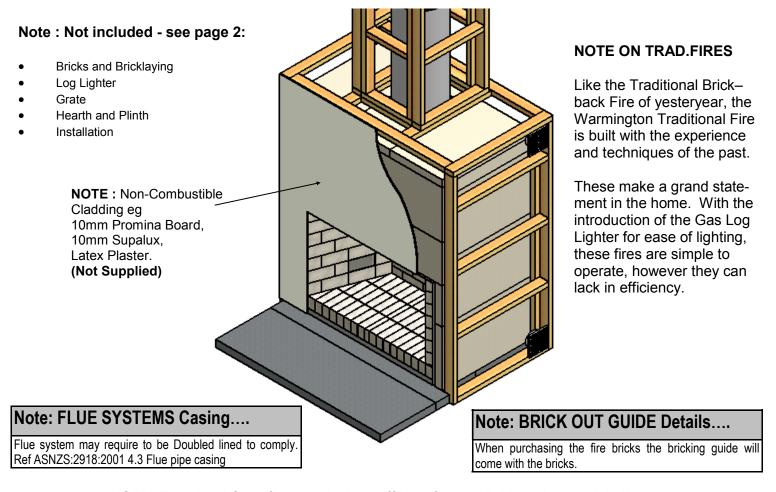


Traditional 800-1000-1200 Open Fire

Solid Fuel Burner, Traditional Brick Built Open Fire. Installation Instructions



NOTE: Traditional Open fires are the least efficient fires available and can lack in Heat output.

<u>Visit www.warmington.co.nz</u> for Spec's, DWG's and PDF uploads of fires

Fire, flue system and instructions to comply with ASNZS 2918:2001 & Building Code C/AS1 7.5 Open Fires

Keep these Instructions for further reference......Ensure that you have the correct and current installation details for the Warmington Fire

Installation

The Warmington unit is to be installed by a certified Warmington installer or an Approved NZHHA Installation Technician.

IMPORTANT

Read all the instructions carefully before commencing the Installation. Failure to follow these instructions may result in a fire hazard and void the warranty



Components Required for Construction (SUPPLIED SEPERATELY)

Supplied as Trad. Fire Box	No:
Traditional Firebox .	1
Traditional Firebox Adaptor .	1
*Caitec Venting System . *Caitec Steel Brick . *Caitec Perf. Extension .	2

Supplied Priced depending on Requirements	No:
Warmington Fluekit	1

NOT Supplied	No:
(Optional extra)	
Log Lighter & Control Box .	1
W 30	

,	
NOT Supplied	No:
Components are required for	
Install	
Priced depending on Requirements	
Fire Bricks (H40) 75X115X230mm .	Varied
Other Sizes Available	
Fire Brick Refractite Mortar .	1
Autoclaved Aerated Concrete (AAC) Heat cell	1
Constructed on Site	
Flashing System	1
Traditional Fire Grate .	1
Size to Order	
After Bricklaying	
Non Combustible Cladding	
(Promat-Superlux-Brick-Stone etc)	
10:1 Fill /Crush (vermiculite etc) .	1
Aluminium Tape . 3M Scotch Brand	1
Gas & Electrical Work Onsite .	1
Installation : Fire / Flue kit / Flashing .	
Installation . Brickwork .	
Council Permit .	



POINTS TO CONSIDER PRIOR TO INSTALLATION

Location of the Fire. Open fires are better located at one end of a room or area, as they project the heat away from their opening.

The Topography of the land.

The slope and position of the land in relation to the home has a bearing on how the wind will interact with the fire and flue system. Care needs to be taken to ensure that the flue termination is in the correct position to maximise performance.

The Prevailing Wind.

Care needs to be taken to ensure that the flue termination is in the correct position as wind and gusts that hits the flue and cowl system may overcome the cowl and draft back down the flue into the home. This can be a combination of down draft and high pressure.

Hearth and Plinth:

The Height of the Hearth off the Floor. The Finishing that is to be used on the Hearth is to be allowed for at the design stage.

Note: Ensure Air Intake at Base of Firebox is not blocked or restricted.

Positioning of the Flue System:

There is a maximum distance that an offset flue can be Installed . Reference to AS/NZS 2918:2001 .

Flue And Fire Clearance:

To be maintained to the Manufactures Instructions &/or Comply with appropriate Standards & Building Codes .

Pressure Differential, Venting & External Air into the Building:

All fires need air to burn and draw correctly, Kitchen Fans, Air Conditioning units, High Wind Zones, Naturally forming Draft spaces, can all have an effect on the pressure difference from inside the building to the outside. A lower pressure in the building may induce a draft down the flue system and back into the building causing the fire to smoke or spill into the building. Care needs to be taken at the design and installation stage to adequately vent the building, or some mechanical system to ensure that there is always a neutral or positive pressure at the fireplace and a negative pressure at the flue outlet. This will ensure that the draft in the flue system is always to the outside.

"CAITEC AIR" the limits and requirements. See details in these Spec's

Wind Noise:

You may encounter wind noise in some installations. It is recommended to use an enclosed chase with a chimney pot to help reduce noise. There will always be some noise from the flue systems of all fireplaces.

Traditional Open fires are the least efficient fires available and can lack in Heat output.

Installation Notes:

Due to the expansion and contraction of metal fireplaces a 3mm gap between the flange and the finished surround should be maintained.

INSTALLATION ORDER OF OPERATIONS Installation is not provided

Prior to Construction and Installation Important Notes:

Install to AS/NZS 2918:2001.

Install to manufacture's specifications.

All new installations require a permit.

For special requirements concerning materials (timber mantle and surrounds) within close proximity of Warmington products, please contact your local Warmington Technical Consultant or designated Installer.

Stage 1: Frame Construction Procedure by Builder.

Mark out Flue Centre on Floor.

Mark out Heat Cell Clearance requirements.

Construct Plinth only, to required height.

Stage 2: Install Procedure by Certified "Warmington Installer" or see www.homeheat.co.nz go to "members" & follow Instructions . For an NZHHA Cerified SFAIT Installer.

Fit Fire to Plinth.

Fit Adaptor to Firebox.

Construct Autoclaved Aerated Concrete (AAC) Enclosure around Traditional Firebox.

Fit Flue System.

Fit Cowl and Flashing System

Finishing Procedure by Builder. NOTE: Bricklaying of Firebricks can be carried out by clients Bricklayer at a Convenient time. Stage 3: Construct Hearth to required thickness. 3

Finish Autoclaved Aerated Concrete (AAC) enclosure and Hearth to Customers requirements (e.g. paint / tiles).

Close in Autoclaved Aerated Concrete (AAC) enclose and chimney chase. (If in timber Alcove).

* Note: A Certified Installer can Install Hearth and Plinth also.

Ensure that the Warmington and flue system is swept annually or more frequently if required.

To Sweep Flue and Firebox:

Cover front of fire with sheets. Remove cowl from top of chimney. Sweep from the top, down the flue. Remove all soot and ash.

Ensure cowl and bird protection is clean and replaced.

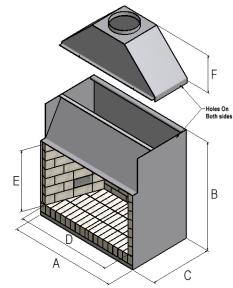
Visually inspect fireplace and flue system.



WARMINGTON TRADITIONAL FIREBOX DIMENSIONS

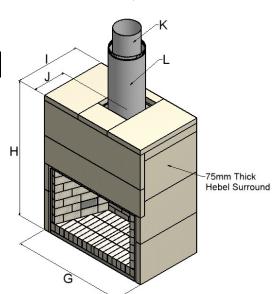
Description		TF 800	TF 1000	TF 1200
Firebox Width	Α	1040	1230	1440
Firebox Height	В	1315	1315	1415
Firebox Depth	С	735	735	835
Flange Width	D	800	1000	1200
Flange Height	Е	700	700	800
Adaptor Height	F	405	405	480

Minimum Flue Height	
Flue Height	3600
Measured From Top of Adaptor	B + F + 3600



Autoclaved Aerated Concrete (AAC) HEAT CELL DETAILS DIMENSIONS

Description		TF 800	TF 1000	TF 1200
Heat Cell Width	G	1240	1440	1640
Heat Cell Height	Н	1820	1820	1995
Heat Cell Depth	ı	865	865	965
To Centre of Flue	J	539	538	589
Flue Diameter	K	300	300	350
Liner Diameter	L	400	400	450
Heat Cell Clearance Width	M	1290	1490	1690
Heat Cell Clearance Depth	N	890	890	990
Heat Cell Clearance Height	0	2150	2150	2150
Chimney Chase Clearance	Х	500	500	550



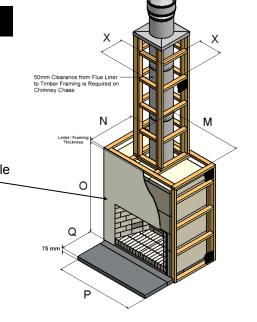
Autoclaved Aerated Concrete (AAC) HEARTH & PLINTH DIMENSIONS

Description		TF 800	TF 1000	TF 1200
Hearth Width	Р	1350	1550	1800
Hearth Projection	Q	500	600	750
Plinth Width	R	1240	1440	1640
Plinth Depth	S	865	865	965

See next Page 5 for Plinth & Hearth details

Check List	
Firebox	
2 x Air Brick and CAITEC covers	
Adaptor & Bolts	
Packed by	

NOTE: Non-Combustible
Cladding eg:
10mm Promina Board,
10mm Supalux,
Latex Plaster.
(Not Supplied)





FIREBOX INSTALLATION

This is a general installation guide only – Contact a "NZHHA Installer" for Installation Advice or go to www..homeheat.co.nz then select Members & follow Instructions , to find a Certified NZHHA SFAIT Installer .

- All the dimensions are minimums 1.
- 2. Fit the Plinth into position in the Cavity. If onto a wooden floor ensure that an insulating plinth is fitted as per the specifications. Ensure that the plinth is elevated to allow for finishing on the hearth. (See Hearth and plinth details)
- 3. Fit the firebox into the Cavity. Bolt the fire box to the plinth or through to the floor with the bolting point provided on the Left and Right hand sides of the fire box or drill holes through base for Bolts (seismic restraints bolts not provided).
- Fit the Adaptor to the Fire box. Ensure that exhaust sealant is used between the fire and Adaptor. Bolt into position with the bolt 4. in the Left and right hand sides of the Fire box.
- Install the flue system. Ensure that the Flue system comply to ASNZS 2918 5.
- Fit the Autoclaved Aerated Concrete (AAC) Heat cell around the fire. A general minimum lay out is shown in this Specifica-6. tion.

HEARTH & PLINTH CONSTRUCTION DETAILS

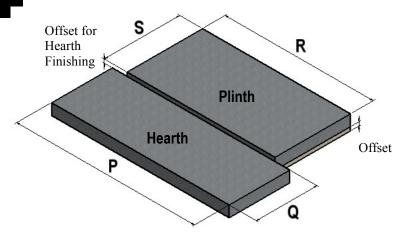
IMPORTANT NOTE:

Note: Hearth and Plinth Construction.

For combustible flooring an insulating hearth and plinth of 75mm Hebel is required.

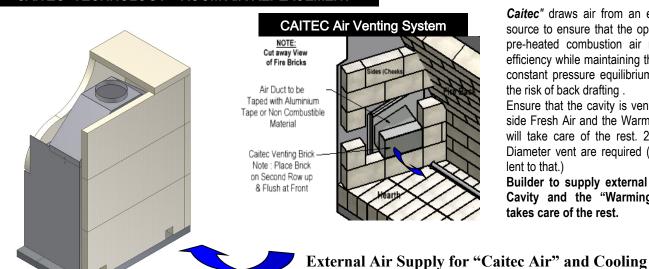
Plinth to be off set above hearth by the hearth finishing's (e.g. tiles / granite / plaster / etc)

*Note: If Solid Plastering the Heat Cell structure, it is recommended to use a fibreglass mesh with a latex plaster to minimise the chance of the plaster cracking. (See your plasterer for correct materials and applications).



Visit the Warmington Web Site for "Autoclaved Aerated Concrete (AAC) "instruction (PDF Download).. www.warmington.co.nz

"CAITEC" TECHNOLOGY—ROOM AIR REPLACEMENT



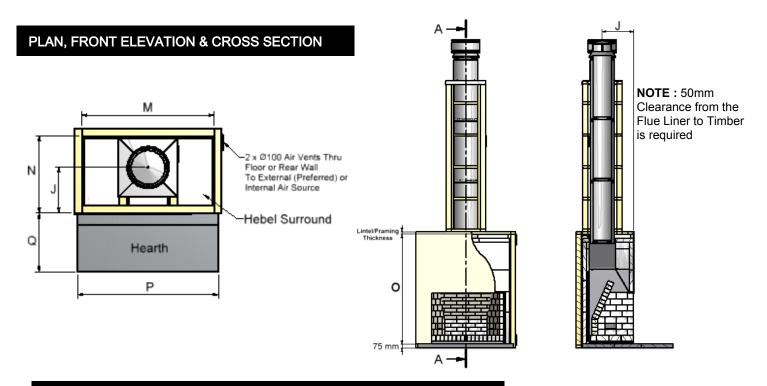
Caitec" draws air from an external air source to ensure that the open fire has pre-heated combustion air maximising efficiency while maintaining the home at constant pressure equilibrium, reducing the risk of back drafting .

Ensure that the cavity is vented to Outside Fresh Air and the Warmington Fire will take care of the rest. 2 x 100mm Diameter vent are required (Or equivalent to that.)

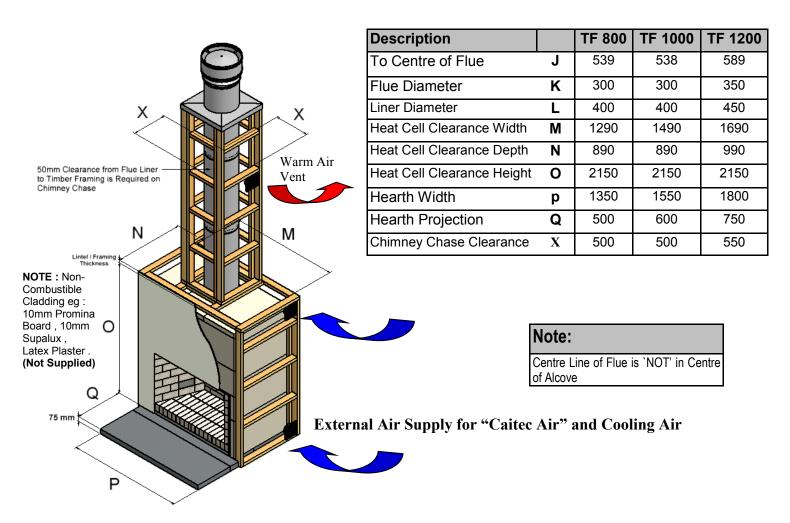
Builder to supply external air to the Cavity and the "Warmington Fire" takes care of the rest.

Rear View of Autoclaved Aerated Concrete (AAC) Heat cell and fire box.



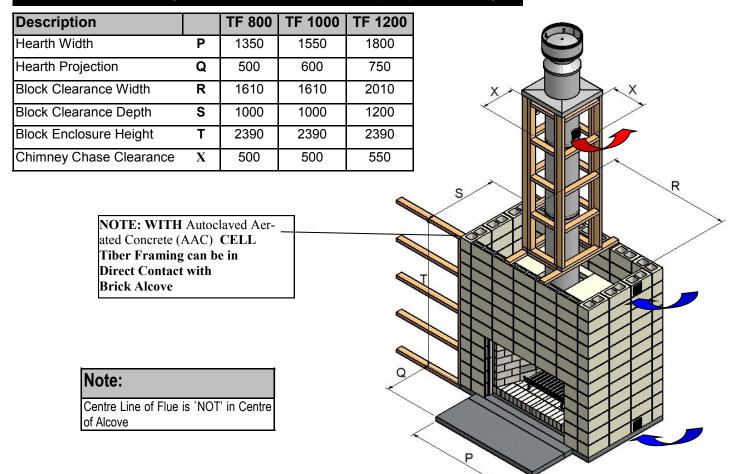


TIMBER FRAMING & TRIM OUT DETAILS—Heat Cell Clearance

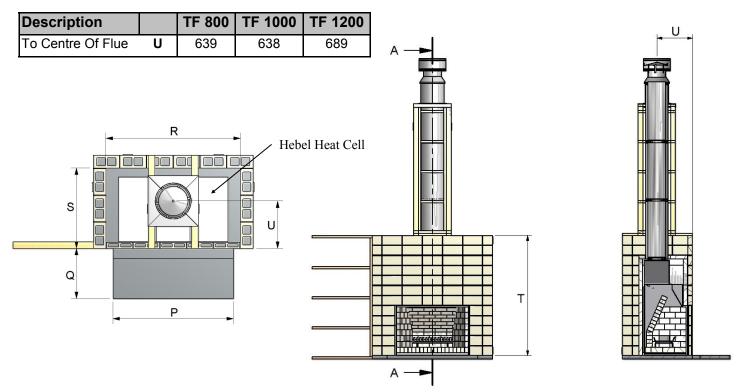




BLOCK ENCLOSURE 1 (WITH Autoclaved Aerated Concrete (AAC) HEAT CELL)

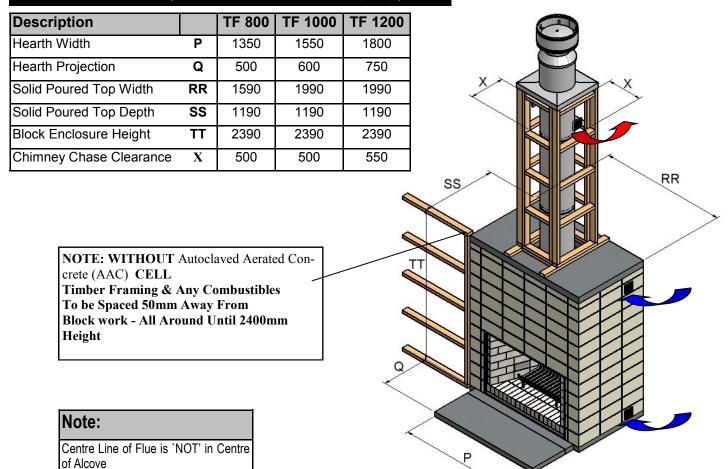


BLOCK ENCLOSURE 1 (WITH Autoclaved Aerated Concrete (AAC) HEAT CELL) CROSS SECTION

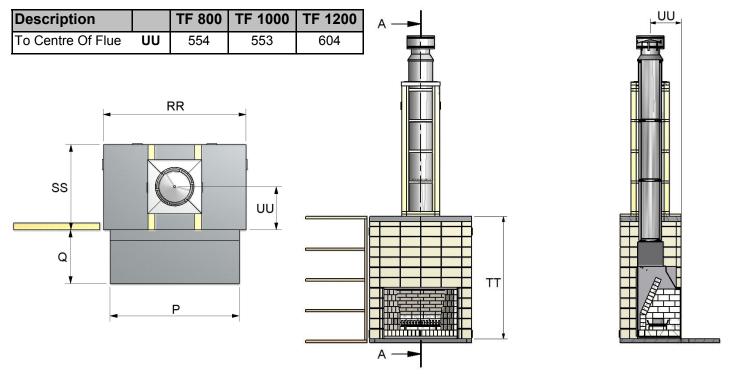




BLOCK ENCLOSURE 2 (NO Autoclaved Aerated Concrete (AAC))



BLOCK ENCLOSURE 2 (NO Autoclaved Aerated Concrete (AAC)) CROSS SECTION





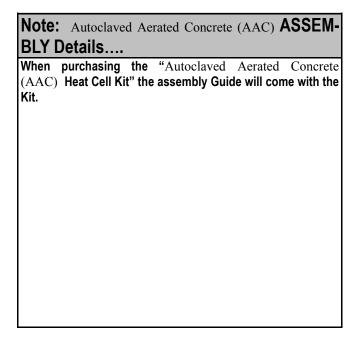
Autoclaved Aerated Concrete (AAC) HEAT CELL

The Hebel Heat cell is constructed around the firebox, using 75mm Hebel (see attached minimum spec below).

(2400x600x75) Power Panels are required for basic heat cell construction as shown in detail "Firebox with Hebel Surround".

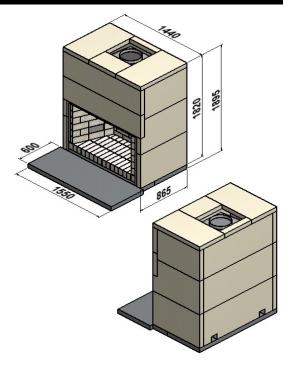
*Visit the Warmington Web site for ""Autoclaved Aerated Concrete (AAC)" instructions (PDF Download).. www.warmington.co.nz

TF800 HEAT CELL ASSEMBLED

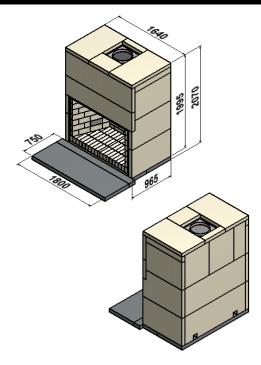


Note: 2X 100mm "CAITEC Air" and Venting Air for all Hebel Cells in the lower rear panels

TF1000 HEAT CELL ASSEMBLED



TF1200 HEAT CELL ASSEMBLED



*Note: If plastering the Heat Cell structure, it is recommended to use a fibreglass mesh with a latex plaster to minimise the chance of the plaster cracking. (See your plasterer for correct materials and applications).



BRICKS & BRICK OUT DETAIL ... Available with Purchase of Brick only

REFRACTORY / FIRE BRICK AMOUNTS Standard		
Fire Brick Amounts TF 800—1000—1200		
ORDER AMOUNT inc 12% extra	Supplied with the Purchase of the fire bricks Only	

Note: BRICK Size and Refractite:

The Standard Brick Out is the Stretcher Bond Style but other styles and mix or other styles can be bricked according to your liking.

Some Bricklayers prefer to us their own Refractite. Please Check with the Bricklayer.

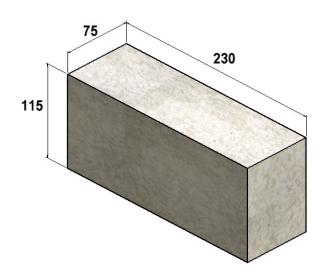
Bricks come in a standard size of 230 x 115 x 75mm.

20mm and 40mm thick bricks are available and there is a increase in the cost of these bricks and the amount that is required for the Brick out.

Below shows some brick patterns that are bricked with the Standard brick size of 230 x 115 x 75mm.

Note: BRICK OUT GUIDE Details....

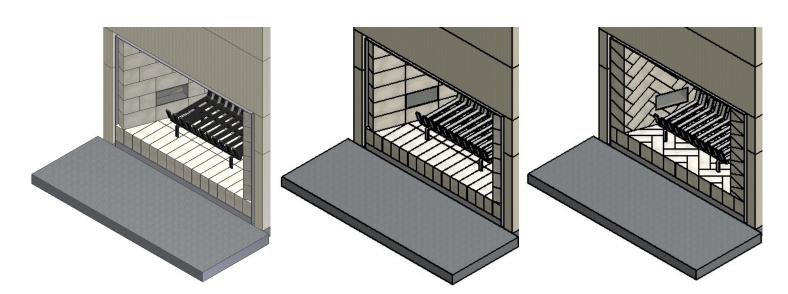
When purchasing the fire bricks the bricking guide will come with the purchase of the bricks only.



Stretcher Bond Pattern

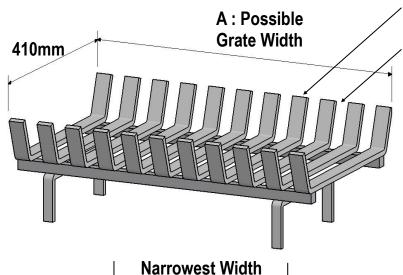
Stack Bond Pattern

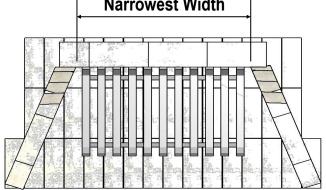
Herring Bone Pattern





BRICK FIRE GRATE FITMENT





PLAN VIEW

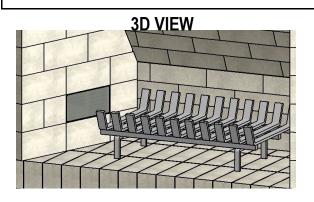
* 30 mm Finger's

30 mm Gap's

Measuring for the Grate

First measure the Narrowest Width of the Brick Fire as shown in diagram.

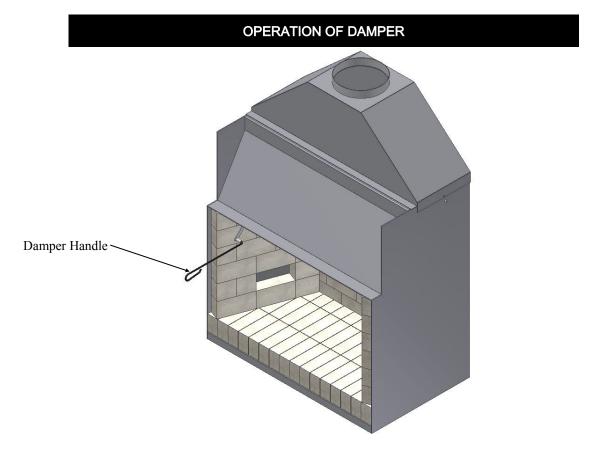
Each Finger of the Grate is 30mm & each Gap in between is 30mm, the width of the Grate needs to be within the narrowest Brick out measurement on the Base as indicated in the Plan View below, with a Bar needing to be at each end of the Grate to complete the makeup of the Grate.

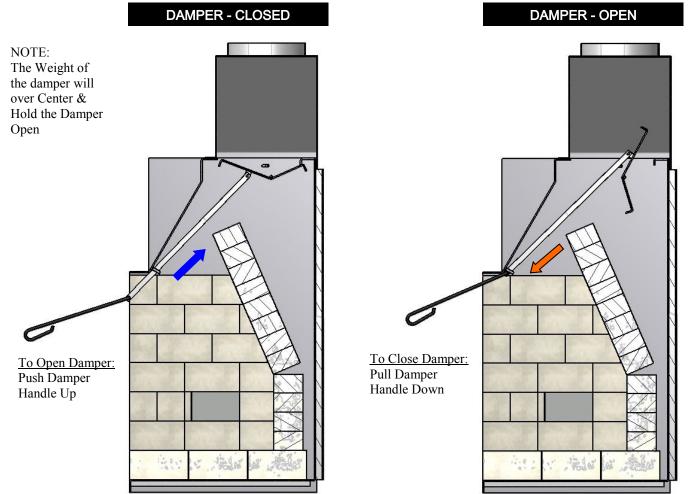


·	Measurements for Wood Grate Sizes			
	A : Possible Grate Width's	Amount of 30mm Finger's	Amount of 30mm Gaps	
	330 mm (min)	6	5	
	390 mm	7	6	
* TF 800 Grate	450 mm	8	7	
	510 mm	9	8	
	570 mm	10	9	
	630 mm	11	10	
* TF 1000 Grate	690 mm	12	11	
	750 mm	13	12	
* TF 1200 Grate	810 mm	14	13	
	870 mm	15	14	
	930 mm	16	15	
	990 mm	17	16	
	1050 mm	18	17	
* TF 1500 Grate	1110 mm (max)	19	18	

* TF 1500 Grate |









Single 3.6m Flue Kit Details.

FLUE DETAILS DIMENSIONS

Minimum Flue Height	
Flue Height	3600
Measured From Top of Adaptor	B + F + 3600

Note: FLUE SYSTEMS Casing....

Flue system may require to be Doubled lined to comply. Ref ASNZS:2918:2001 4.3 Flue pipe casing

Flue Details	No:	TF 800	TF 1000	TF 1200
Cowl	1	300	300	350
Top Spider	1	300	300	350
Cone	1	300	300	350
Flue Diameter	3	300	300	350
Liner Diameter	3	400	400	450
Spacer	3	300/400	300/400	350/450

NOTE: Ensure that a Standard Tested Warmington Flue system is used on the Warmington fires.

FLUE SYSTEM INSTALLATION GUIDE Only

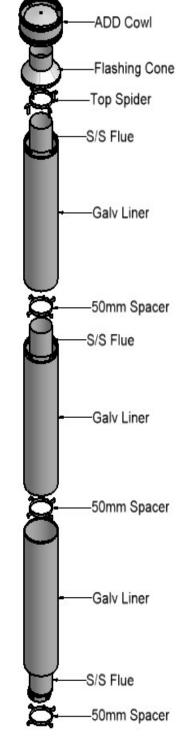
This is a general installation guide only – Contact a "NZHHA Installer" for Installation Advice or go to www..homeheat.co.nz then select <u>Members</u> & follow Instructions , to find a Certified NZHHA SFAIT Installer .

- Install the first length of flue pipe with the crimped end down, inside the Adaptor collar, ensure that the flue pipe is sealed into the collar with exhaust sealant. Rivet the flue in 3 places around the Adaptor collar. Place a spacer around the flue pipe approximitaly150mm above the adaptor collar. Secure in position by tightening the screw and nut.
- Install the second length of flue pipe with the crimped end down and fit by riveting in at least 3 places around the flue pipe joint. Ensure that the flue is sealed into position with sealant.
- 3. Install the first section of flue pipe liner with the Crimped end up, over the flue pipe and over the spacer that is fixed to the flue pipe. This spacer will keep the liner concentric about the flue pipe.
- 4. Position flue spacer at the flue pipe joint for every length of "Flue pipe" and "Liner".

Repeat the Steps from 1 – 4 to the installed required height of the flue system. The flue system is to comply with ASNZS 2918:2001 4.9.1

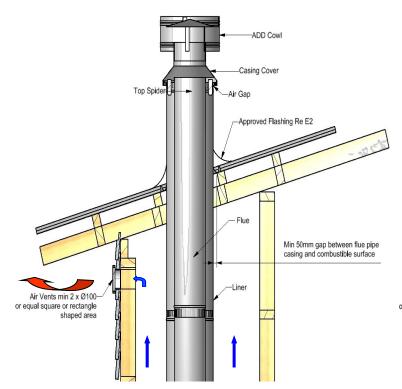
- a "the flue pipe shall extend not less than 4.6m above the top of the floor protector."
- b " the minimum height of the flue system within 3 m distance from the highest point of the roof shall be 600mm above that point."
- c "the minimum height of the flue system further than 3 m from the highest point of the roof shall be 1000mm above the roof penetration."
- d "no part of any building lies in or above a circular area described by a horizontal radius of 3 m about the flue system exit."
- NOTE: The last length of flue pipe needs to extend past the liner so that when the "top spider" and the
 "Flashing cone" are fitted, that the "flashing cone" and the "flue pipe" are flush, or that the "flue pipe" is
 5mm lower that the "Flashing cone".
- Fit the "Top Spider" into position, ensure that the legs of the spider are fitted inside the liner and that the spider is positioned hard down onto the liner and tighten with the screw and nut.
- 3. Place the "Flashing cone" over the "flue pipe" and press hard down onto the "Top Spider". (Note that the "Flue pipe" and the "Flashing Cone" are either flush or the "Flue pipe" is 5mm Lower than the "Flashing cone".) Ensure that the "Flashing cone" is clear for the venting from the "Liner" and the "flue pipe".
- cone".) Ensure that the "Flashing cone" is clear for the venting from the "Liner" and the "flue pipe".

 4. Fit the "Cowl" to the top of the flue pipe. The "Cowl", "Flashing cone", and the "Flue pipe" can be secured to each other with the uses of a stainless steel self tapping screw. This will allow the "Cowl" to be removed for cleaning.
- Flue system may require Bird Proofing due to the installation and locations, discuss this with your installer for the best advice.
- 6. If the Flue system is installed into a "Chimney Chase", allow for air vent as close to the top of the chase as practical, or allow venting through the "Chimney Chase Flashing". A "Venting Flashing cone" and a 25mm gap around the Liner with a "Venting Flashing Cone-Spider" can be used. Ref : to Figures

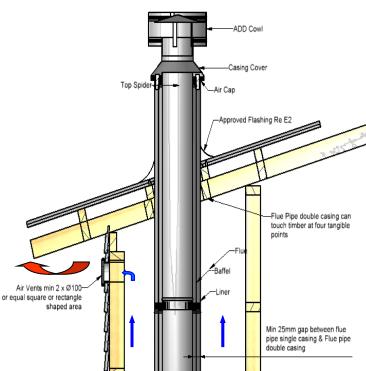




FLUE PENETRATION Vented through Alcove (Single lined Flue System)



FLUE PENETRATION Vented through Alcove (Double lined Flue System)



Note: FLUE SYSTEMS Casing....

Flue system may require to be Doubled lined to comply. Ref ASNZS:2918:2001 4.3 Flue pipe casing

Note:

External Requirements Refer to AS/NZS2918:2001 4.9.1

Install Flue system to AS/NZS2918:2001

When using a rubber or Bitumen flashing (Butynol, Dectite) an Additional Flue pipe Baffle is required.

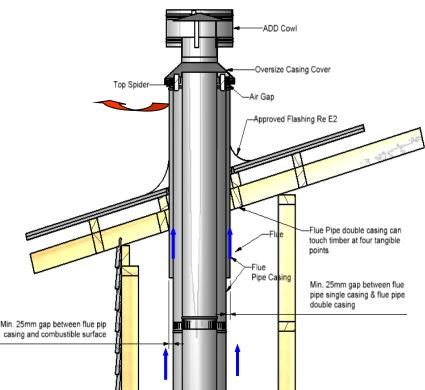
All external air vents & ceiling penetrations must be bird proofed with permanently fixed screens.

All flashing to comply with E2.

All external air vents and ceiling penetrations are to be Vermin and Rodent proof.

Test Report Number	Date of Report	
04/1039	20 th July 2004	
04/1040	20 th July 2004	
04/1041	20 th July 2004	

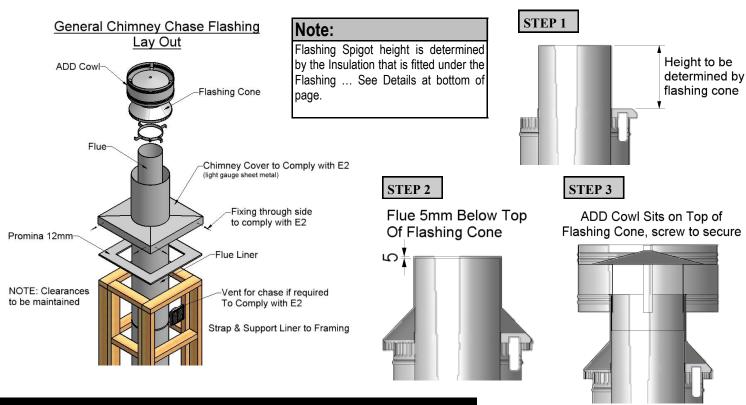
FLUE PENETRATION Vented through Top Flashing



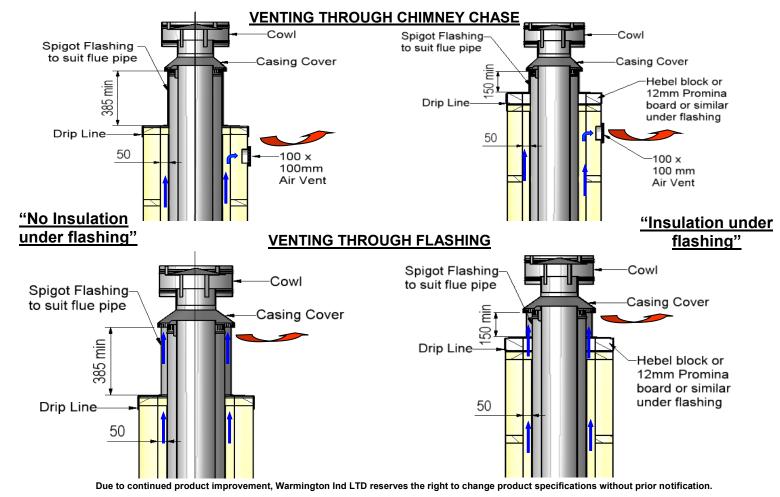


CHIMNEY CHASE FLASHING DETAILS

SETTING ADD COWL AND FLASHING CONE HEIGHT



"CHIMNEY CHASE FLASHING" AND "AIR VENTILATION" OPTIONS:

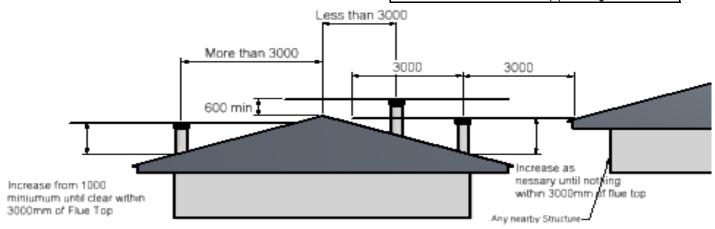




FLUE HEIGHT MINIMUM DETAILS

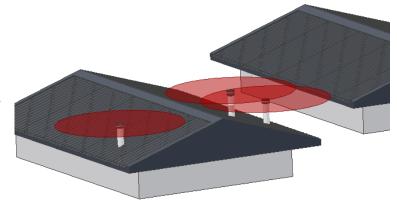
Note: FLUE SYSTEMS Casing....

Flue system may require to be Doubled lined to comply. Ref ASNZS:2918:2001 4.3 Flue pipe casing



The flue exits are to comply to ASNZS 2918: 2001

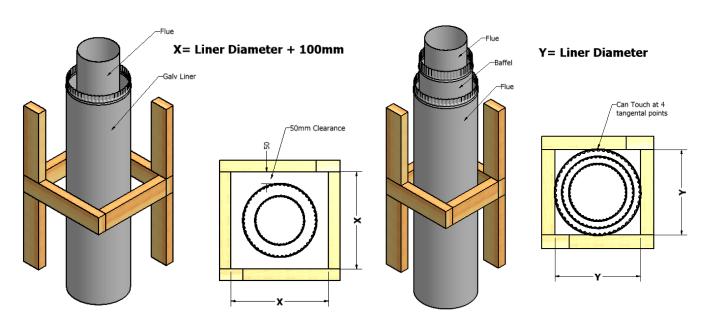
3D View



FRAME OUT AND TRIM OUT DETAILS FOR CHIMNEY CHASE

Option X - Singled Lined Flue System

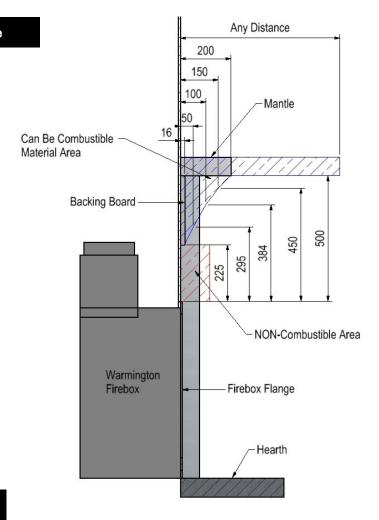
Option Y - Double Lined Flue System





COMBUSTIBLE MANTLE CLEARANCES : Ref Building Code 16mm Thick Backing Board Non Combustible Material 15 45° 16mm Thick Backing Board 16mm Thick Backing Board 175 45° 180 75

Radiant Heat Window

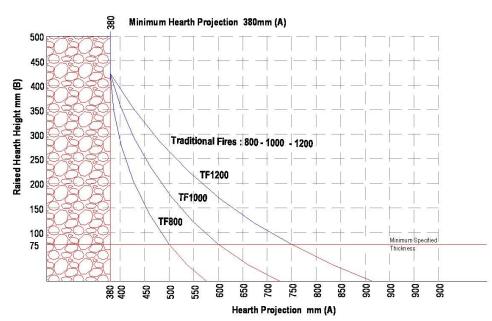


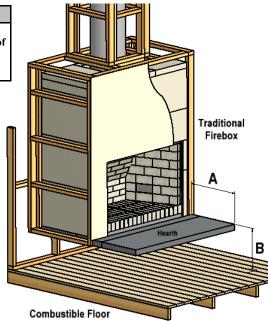
HEARTH CLEARANCES

Important Note:

A Hearth Extension ABOVE the curved minimum requirement line on the Graph for a selected model of Traditional Fire is an Acceptable Hearth Extension .

 ${\bf A} \ {\bf Hearth} \ {\bf Extension} \ {\bf BELOW} \ {\bf the} \ {\bf curved} \ {\bf minimum} \ {\bf requirement} \ {\bf line} \ {\bf is} \ {\bf NOT} \ {\bf acceptable} \ .$





Important Note:

For Raising Trad. Fires on Combustible Floors , at (Dimension B) Height of 420mm & above the Hearth Extension (Dimension A) of 380mm must be Maintained .

This is for all Traditional Fire models.



GENERAL NOTES: ASNZS 2918: 2001

NOTES:

- Fire Operation and Maintenance instructions can be downloaded from www.warmington.co.nz
- Warranty for full details on product warranties, contact your local Authorised Warmington Retailer.
- Correct installation, operation and maintenance must be maintained to comply with Warmington Warranty.
- The Appliance and Flue System must be installed in accordance with ASNZS2918:2001 and the appropriate Building codes.
- The Flue system and fireplace is to be swept annually or more frequently if required.

IMPORTANT NOTE ABOUT TRADITIONAL FIRES

Like the traditional brickback fire of yesteryear, the Warmington Traditional fire is built with the experience and techniques of the past.. These make a grand statement in the home and with the introduction of the Gas Log Lighter for ease of lighting are simple to operate, however they can lack in efficiency.

WARNINGS:

- WARNING; ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED AS BREACHING AS/NZS 4013
- WARNING; DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE
- WARNING; DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS
 APPLIANCE WHEN IT IS OPERATING
- WARNING; DO NOT STORE FUEL WITHIN HEATER INSTALLATION CLEARANCES
- WARNING; WHEN OPERATION THIS APPLIANCE AS AN OPEN FIRE USE A SPARK SCREEN
- CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN
 CORDANCE WITH THESE INSTRUCTIONS
- CAUTION: THE USE OF SOME TYPES OF PRESERVATIVE-TREATED WOOD AS A FUEL CAN BE HAZARDOUS.

NOTE: For Operation instructions down load from the website www.warmington.co.nz



Industries 1994 LTD PO Box 58652, Botany 2163, Auckland

www.warmington.co.nz