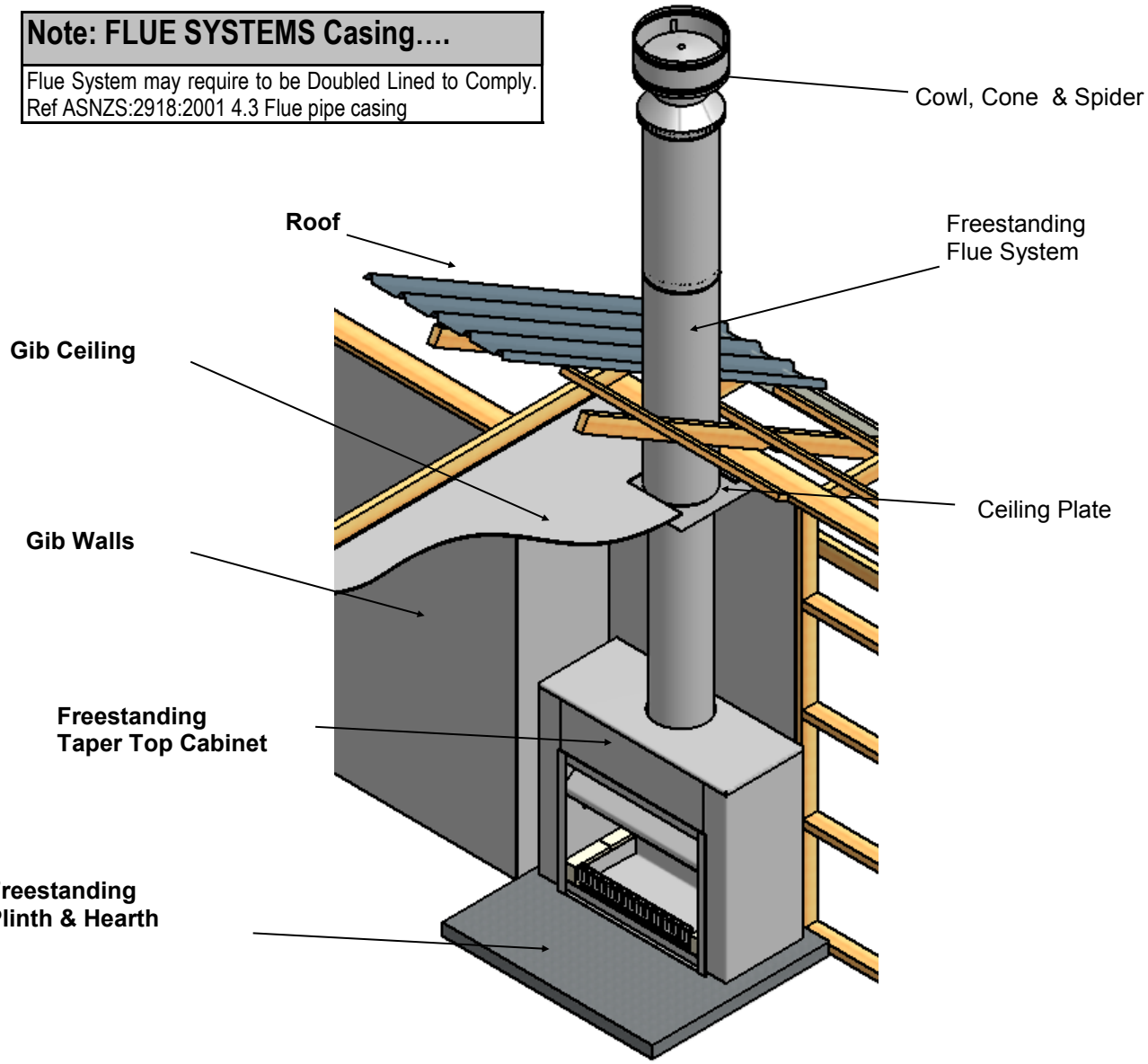
15 June 2017

SI 600-700-700T-780-780T-900-1100 FSS

Freestanding SQUARE TOP Open Wood Fire
Installation Instructions

Note: FLUE SYSTEMS Casing….
Flue System may require to be Doubled Lined to Comply. Ref ASNZS:2918:2001 4.3 Flue pipe casing



Visit www.warmington.co.nz for Spec's, DWG's and PDF uploads of Fires

Fire, Flue System and Instructions to Comply with ASNZS 2918:2001

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 .
See www.homeheat.co.nz/members for a Certified NZHHA SFAIT Installer in your area .

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

Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.

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.

INSTALLATION ORDER OF OPERATIONS

Prior to Construction and Installation : <u>Important Notes</u>:
Installation to be done to AS/NZS 2918:2001 Standards.
Installation to be done to Manufacture's Specifications.
All Installations require a Council Consent No/Permit.
For special requirements concerning materials (Timber, Mantle and Surrounds) within close proximity of Warmington products, please contact your local Warmington Technical Consultant.

Stage 1: **Frame Construction Procedure by Builder.**
Mark out Flue Centre.
Mark out Firebox Clearance requirements.
Construct Plinth, to required height if necessary. *

Stage 2: **Install Procedure by Certified "Warmington Installer" only or see www.homeheat.co.nz go to "members & follow Instructions to get a Certified NZHHA SFAIT Installer .**

Install Fire to Plinth .
Install Adaptor to Firebox (if not already on Firebox)
Install Freestanding Cabinet around Firebox (if not already on Firebox)
Install Freestanding Flue System .
Install Flashing & Cowl System .

Stage 3: **Finishing Procedure by Builder.**
Construct Hearth to required Thickness.
* Note: Certified NZHHA Installer can Install Hearth and Plinth also .

Ensure that the Warmington Fire 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 .

15 June 2017

WARMINGTON FIREBOX DIMENSION

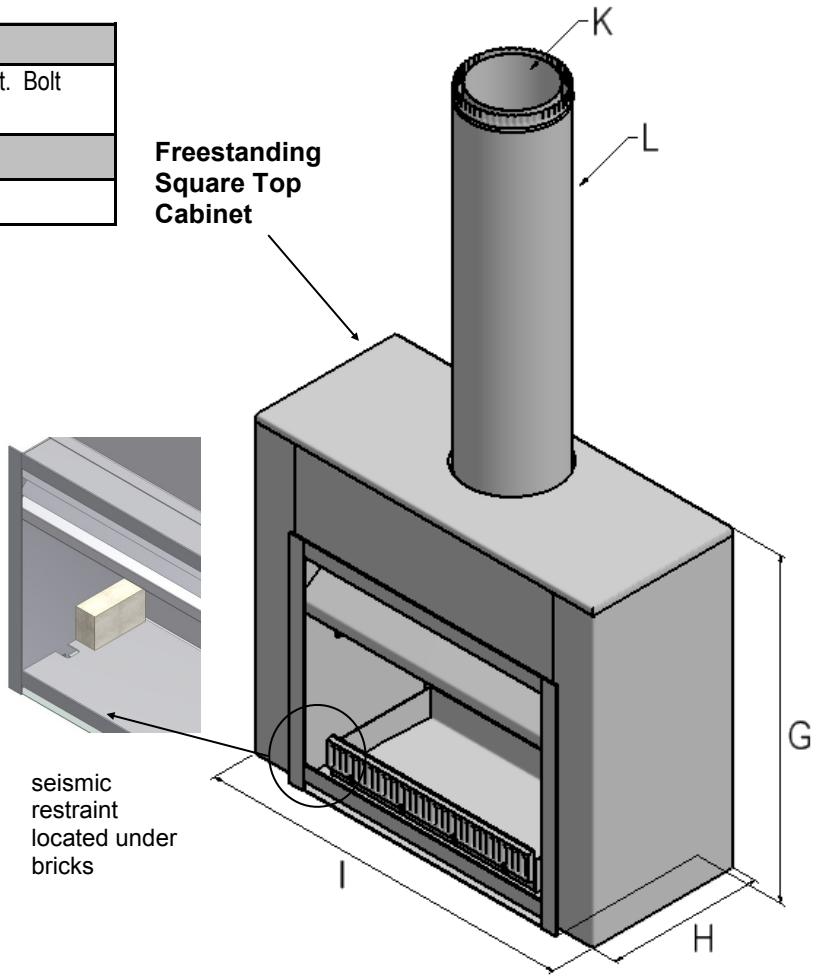
Freestanding Square firebox		SI 600 FSS	SI 700 FSS	SI 700T FSS	SI 780 FSS	SI 780T FSS	SI 900 FSS	SI 1100 FSS
Cabinet Height	G	840	840	890	840	920	1060	1110
Cabinet Depth	H	450	450	450	450	450	500	550
Cabinet Width	I	900	1000	1000	1080	1080	1200	1400
Flue	K	200	200	200	200	200	250	300
Inner Baffle	L	250	250	250	250	250	300	350
Outer Liner	W	300	300	300	300	300	350	400
Heat Output	kW					**Tested**		
Peak*		12	15	15	17	**19**	23	25
Range*		8-10	10-12	10-12	11-12	**12-14**	13-15	14-16

*Estimated unless stated otherwise.

FIREBOX FREESTANDING SQUARE TOP CABINET

Minimum flue height	
Flue height	3600
Measured from top of adaptor	B + F + 3600

Adaptor Fitting
Seal adaptor to firebox using high-temp gasket sealant. Bolt through holes provided.
Seismic restraint
Secure firebox through anchor positions provided.



Assembly Check List	Tick Box
Firebox	
Freestanding Cabinet	
Adaptor (Fastenings)	
Ash Pan	
Bricks	
Louvres	
Badge	
Damper Handle	
Specifications	
Packed By	

Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.

FIREBOX INSTALLATION

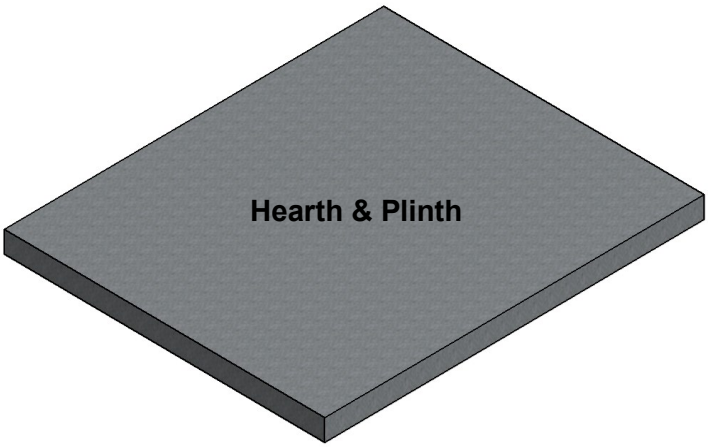
This is a general installation guide only. Contact a "NZHHA Installer" for installation advice. Visit www.homeheat.co.nz to choose 'members' and pick your area & fire type (wood/gas etc). This will provide you with a NZHHA Certified Installer (use the SFAIT Installers only).

1. All dimensions are minimums.
2. Fit the plinth into position. If installed onto a wooden floor, ensure an insulating plinth is fitted as per the specifications. **Ensure the Plinth is elevated to allow for finishing on the hearth.** (See hearth and plinth details).
3. Fit the firebox & cabinet into position. Remove the cabinet top & bolt the firebox to the plinth or through to the floor with the bolting points provided on the left and right hand sides of the firebox (seismic restraints).
4. Ensure that hi temp sealant is used between the fire and the adaptor. Bolt into position with the bolts in the left and right hand sides of the firebox.
5. Install the Warmington Freestanding flue system (see page 8).
6. Replace the top of the Freestanding cabinet.

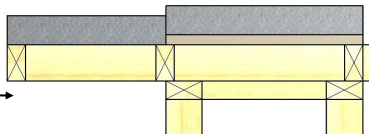
HEARTH & PLINTH CONSTRUCTION DETAILS

IMPORTANT NOTE:

Note: Hearth and Plinth Construction.
For combustible flooring an insulating hearth and plinth of 75mm Hebel is required.
Plinth to be offset above hearth by the hearth finishing's (e.g. tiles/ granite/solid plaster etc.).
Raised hearth's & plinth's which are cantilevered, must be adequately supported to take the weight in accordance with the NZ Building Code.



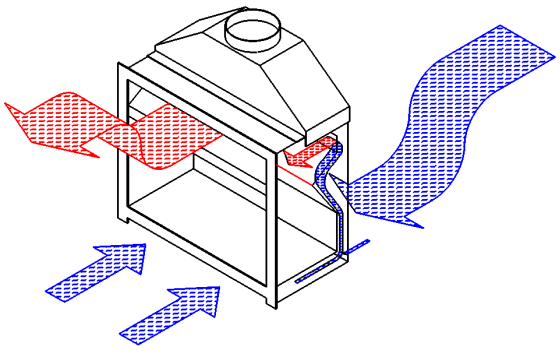
This is a raised & cantilevered Hearth. See page 15 for further raised Hearth details.



***Note:** **If solid plastering the heat cell structure, it is recommended to use a fibreglass mesh with a Latex Based Plaster to minimise the chance of the solid plaster cracking. (See your solid plasterer for correct materials and applications).**

Visit the Warmington website www.warmington.co.nz for 'Hebel' instruction (PDF download)

"CAITEC" TECHONOLGY—ROOM AIR REPLACEMENT



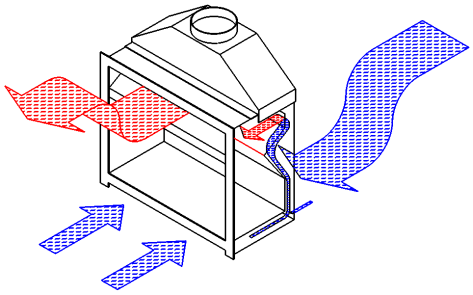
Caitec" draws air from an external air source to ensure that the open fire has pre-heated combustion air maximising efficiency while maintaining the home at constant pressure equilibrium, reducing the risk of back drafting .
Ensure that the cavity is vented to Outside fresh Air and the Warmington will 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.

NOTE : Point to consider regarding pressure differential.

15 June 2017

Caitec 'Weir' Vent System (concept only)

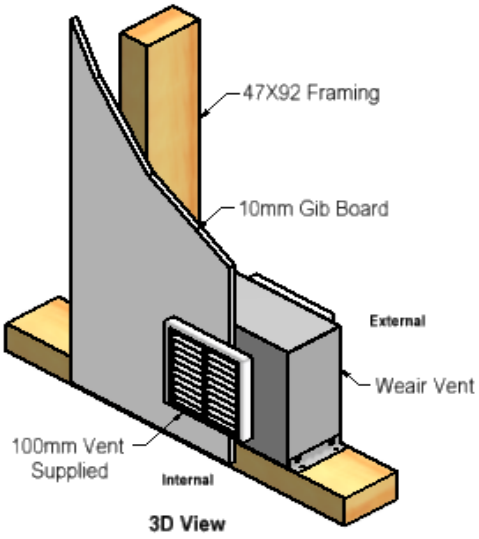
"CAITEC" TECHONOLGY—ROOM AIR REPLACEMENT

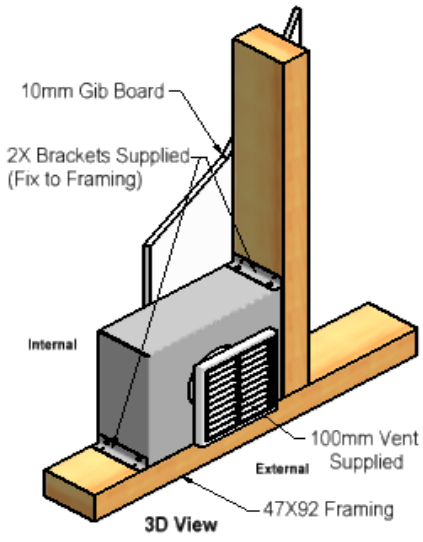


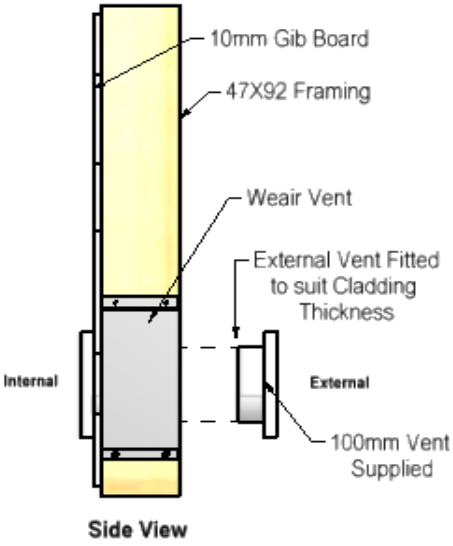
Caitec" draws air from an external air source to ensure that combustion air that the open fire uses is replaced, maintaining the home at a constant pressure equilibrium reducing the risk of back drafting .
Ensure that the home is vented to outside fresh air. 2 x 100mm Diameter vents are required (or equivalent).

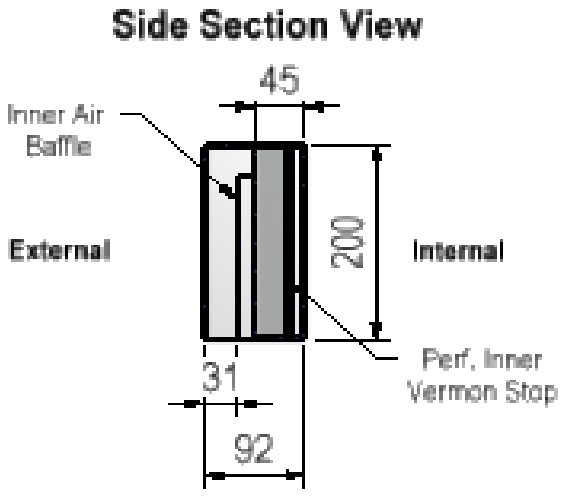
Builder to supply external air to the Warmington Fire (not supplied).

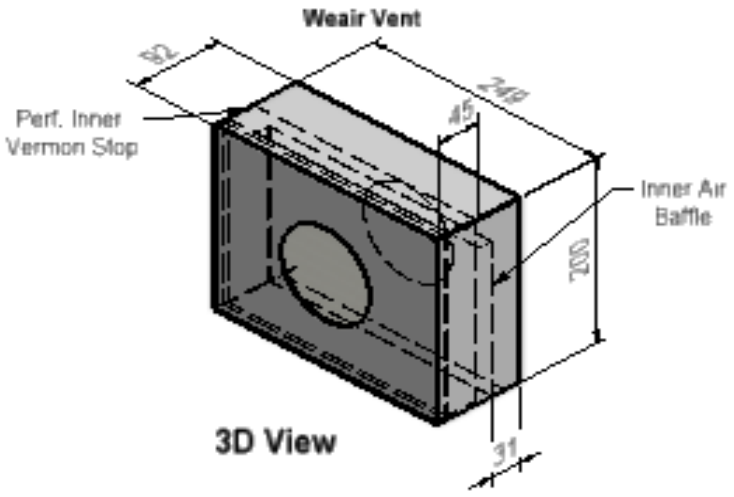
Concept Drawings Only







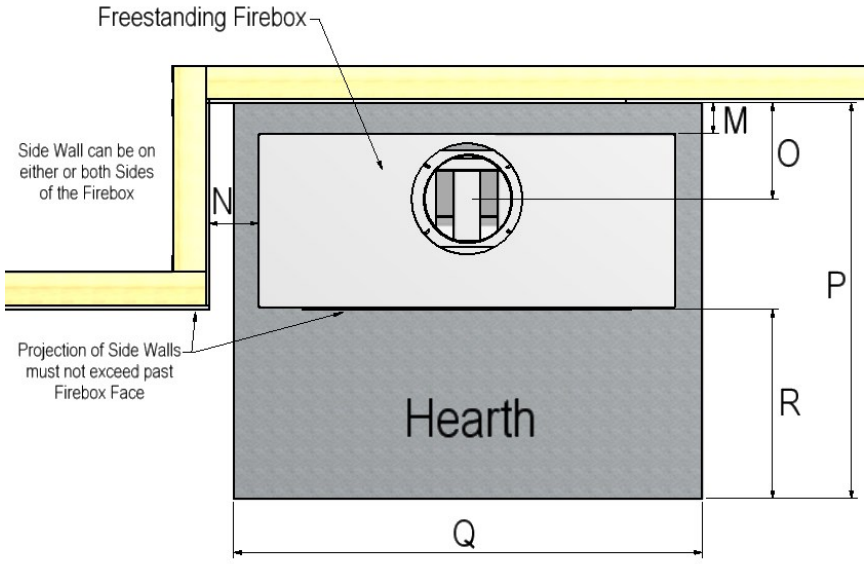




Important Note:
For optimum performance place "Caitec" weir vent system as close to fireplace as possible.

15 June 2017

PLAN VIEW OF CABINET CLEARANCES (STRAIGHT WALL HEARTH)

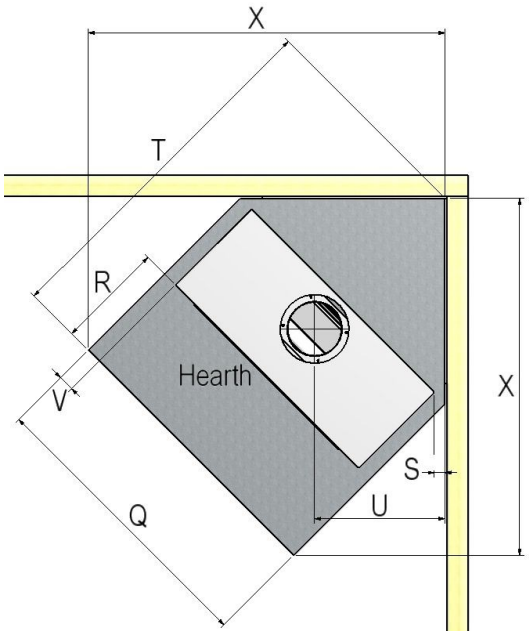


Adaptor fitment
Seal adaptor to firebox using high temp gasket sealant. Bolt through holes supplied.
Seismic Restraints
Secure fire down through seismic Restraints.

Freestanding Square Firebox		SI 600 FSS	SI 700 FSS	SI 700T FSS	SI 780 FSS	SI 780T FSS	SI 900 FSS	SI 1100 FSS
To Wall Behind	M	100	100	100	100	100	100	100
To Wall Side	N	100	100	100	100	100	100	100
To Flue Centre	O	260	260	260	260	260	287	310
Straight Hearth Depth	P	950	950	950	950	950	1100	1300
Hearth Width	Q	1050	1200	1200	1200	1200	1350	1550
Hearth Projection	R	400	400	400	400	400	500	650
To Wall Side	S	50	50	50	50	50	50	50
Corner Hearth Depth	T	1370	1420	1420	1460	1460	1671	1970
To Flue Centre	U	480	517	517	545	545	605	695
To Hearth Side	V	73	98	98	58	58	73	73
Wall To Corner Of Hearth	X	1340	1428	1428	1457	1457	1659	1942

PLAN VIEW OF CABINET CLEARANCES (CORNER HEARTH)

Hearth & Plinth Construction
For combustible flooring, an insulating hearth & plinth of 75mm Hebel or similar is required. Ensure hearth finishing's are completed prior to installation.



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15 June 2017

FLUE DETAILS DIMENSIONS

Flue details	No:	SI 600 FSS	SI 700 FSS	SI 700T FSS	SI 780 FSS	SI 780T FSS	SI 900 FSS	SI 1100 FSS
ADD Cowl	1	200	200	200	200	200	250	300
Cone	1	200	200	200	200	200	250	300
Top Spider	1	200	200	200	200	200	250	300
Flue Diameter	3	200	200	200	200	200	250	300
Baffle Diameter	2	250	250	250	250	250	300	350
Liner Diameter	2	300	300	300	300	300	350	400
50mm Spacer	1	200/300	200/300	200/300	200/300	200/300	250/350	300/400
25mm Spacer	3	200/250	200/250	200/250	200/250	200/250	250/300	300/350
25mm Spacer	2	250/300	250/300	250/300	250/300	250/300	300/350	350/400
Trim Plate	1	250	250	250	250	250	300	350
Ceramics	1	Pk	Pk	Pk	Pk	Pk	Pk	Pk

Minimum flue height	
flue height	3600
measured from top of adaptor.	B + F + 3600

NOTE: Ensure that a standard tested Warmington flue system is used on the Warmington fires.

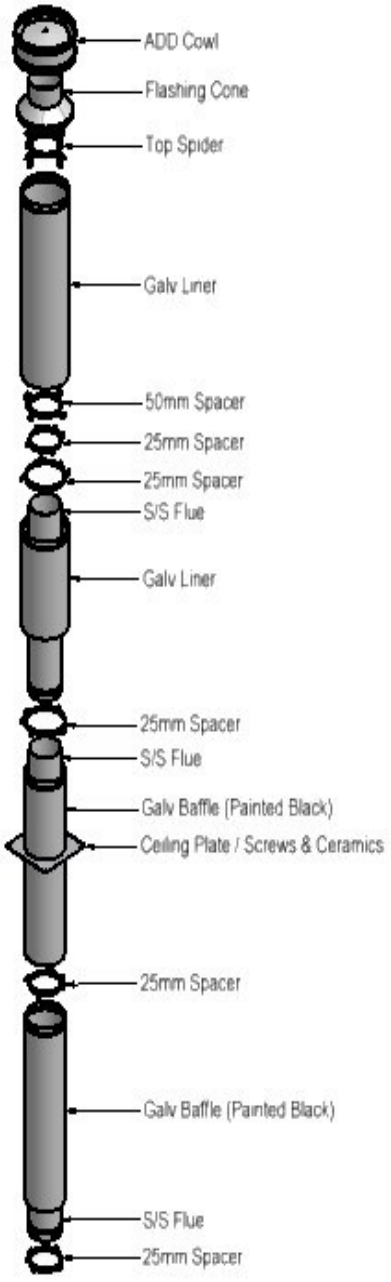
FLUE SYSTEM INSTALLATION GUIDE

This is a general Installation guide only. Contact a 'NZHHA Installer' for Installation advice. Visit www.homeheat.co.nz, choose 'members' & pick your area & fire type (wood/gas etc). This will provide you with a NZHHA Certified Installer (use the SFAIT Installers only).

1. Install the first length of flue pipe with the crimped end down, inside the adaptor collar, and ensure 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 approximately 150mm above the adaptor collar and secure in position by tightening the screw and nut.
2. Install the second length of flue pipe with the crimped end down and secure by riveting in at least 3 places around the flue pipe joint. Ensure the flue is secured into position.
3. Install the first inner baffle with the crimped end up, over the first flue pipe & spacer, ensuring you leave room to rivet off flue. Fit the second spacer over inner baffle then slide the outer liner with the crimped end, up over inner baffle. The spacers will keep the liners concentric around the flue pipe.
4. Position spacers over the flues for every length of 'flue pipe', 'Inner baffle' and 'liner'.
5. Repeat steps 1 – 4 to the installed required height of the flue system. The flue system is to comply with ASNZS 2918:2001 4.9.1.

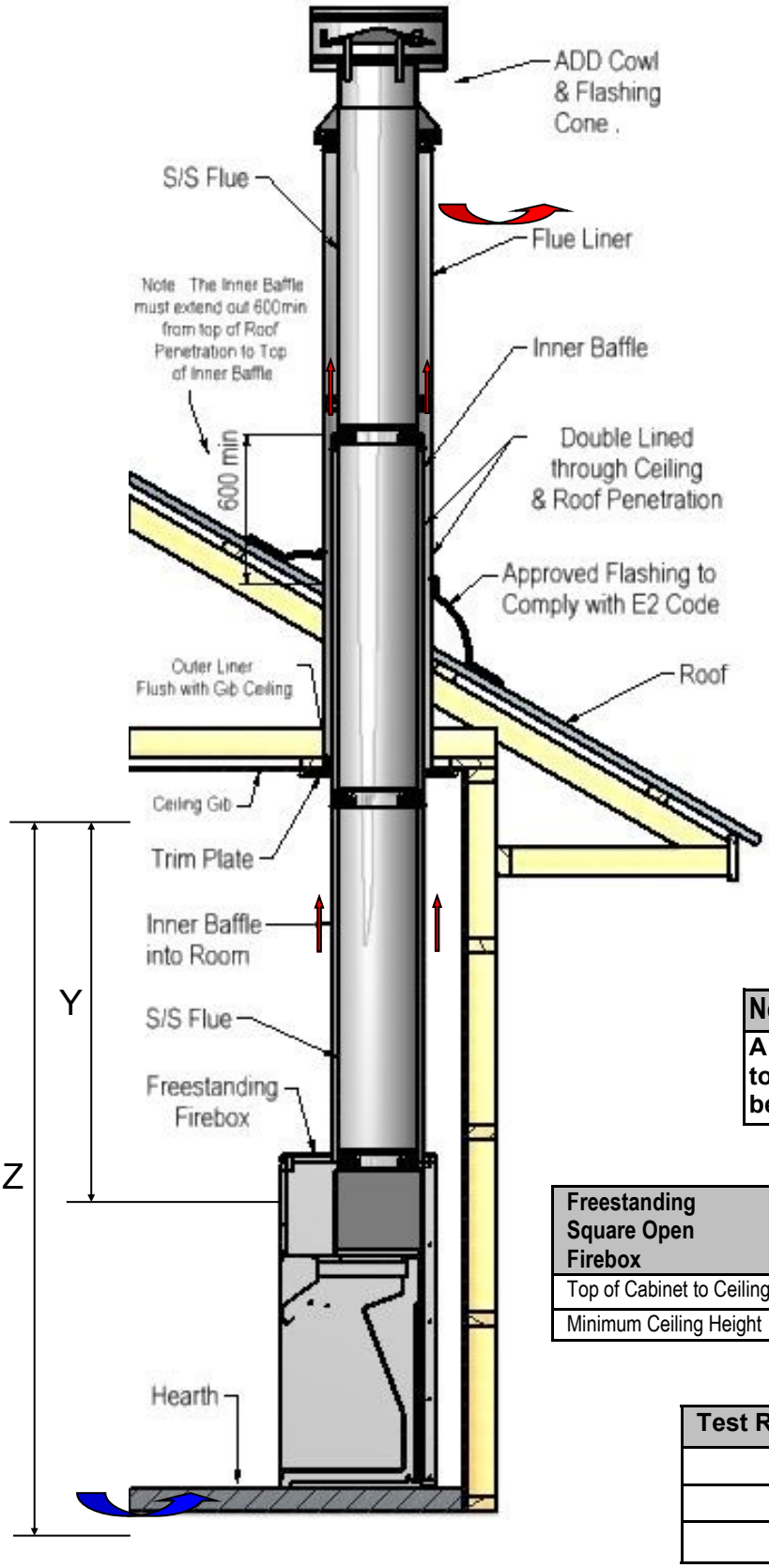
- a "the flue pipe shall extend not less than 4.6m above the top of the floor protector."
- b " the minimum height of the flue system within 3 m distance from the highest point of the roof shall be 600mm above that point."
- c "the minimum height of the flue system further than 3 m from the highest point 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."

6. **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, the 'flashing cone' and the 'flue pipe' are **flush,** or that the flue pipe' is **5mm lower** that the 'flashing cone'.
7. 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.
8. 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'.
9. 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 use of a stainless steel self tapping screw. This will allow the 'cowl' to be removed for cleaning.
10. The flue system may require bird proofing depending on the installation and location. Discuss this with your Installer for the best advice.
11. 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.



15 June 2017

SQUARE TOP FREESTANDING FLUEKIT SECTION VIEW



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, Dektite), 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.

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

Note:
A minimum height must be maintained from the top of the cabinet to the ceiling as per graph below.

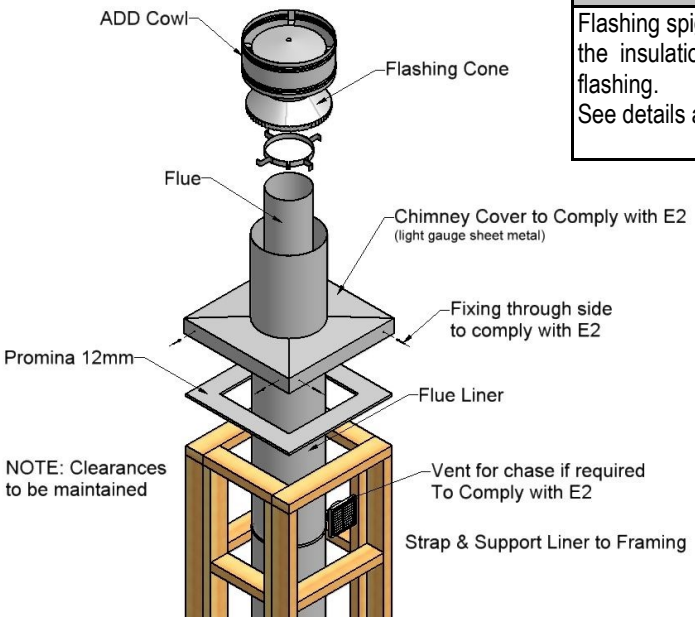
Freestanding Square Open Firebox		**SI 600 FSS**	**SI 700 FSS**	**SI 700T FSS**	**SI 780 FSS**	**SI 780T FSS**	**SI 900 FSS**	**SI 1100 FSS**
Top of Cabinet to Ceiling	**Y**	880	880	805	845	765	930	760
Minimum Ceiling Height	**Z**	1700	1700	1700	1700	1700	1900	1900

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

15 June 2017

CHIMNEY CHASE FLASHING DETAILS

General Chimney Chase Flashing Lay Out

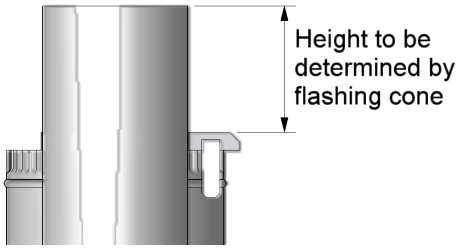


SETTING ADD COWL AND FLASHING CONE HEIGHT

Note:

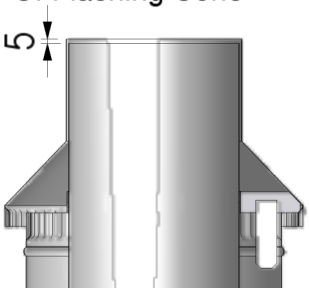
Flashing spigot height is determined by the insulation that is fitted under the flashing.
See details at bottom of page.

STEP 1



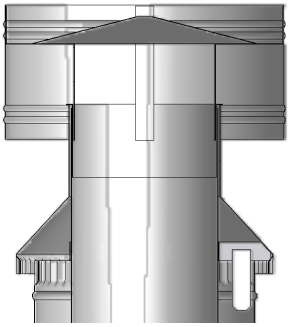
STEP 2

Flue 5mm Below Top Of Flashing Cone



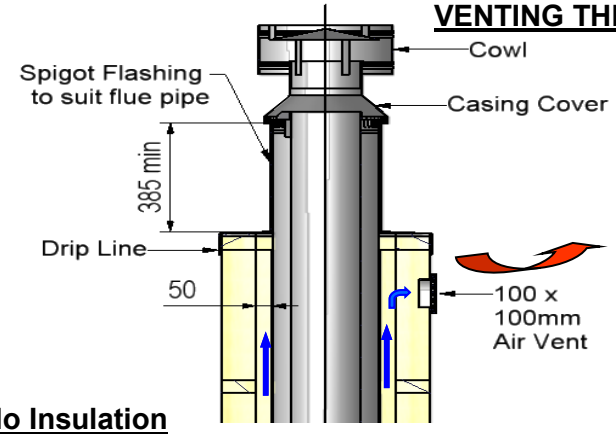
STEP 3

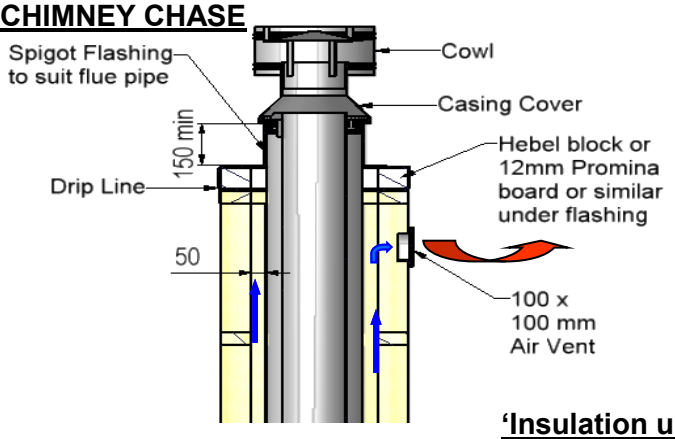
ADD Cowl Sits on Top of Flashing Cone, screw to secure



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

VENTING THROUGH CHIMNEY CHASE

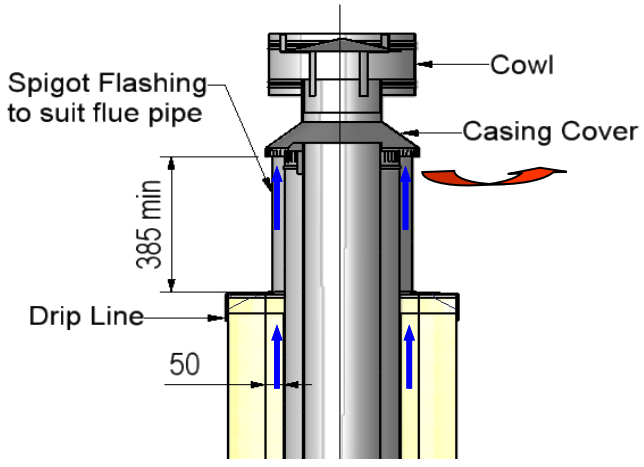


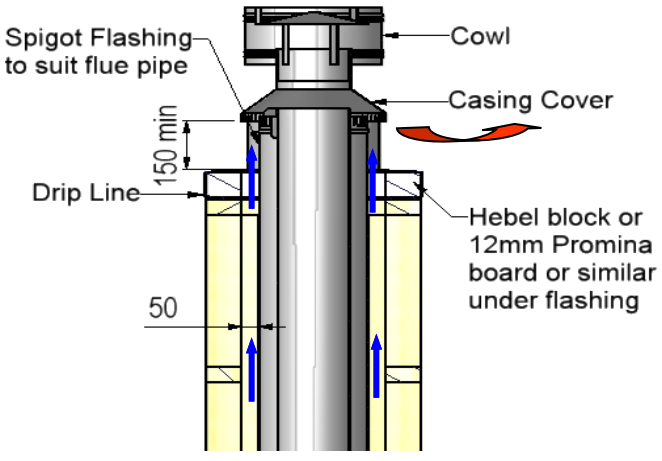


'No Insulation under flashing'

'Insulation under flashing'

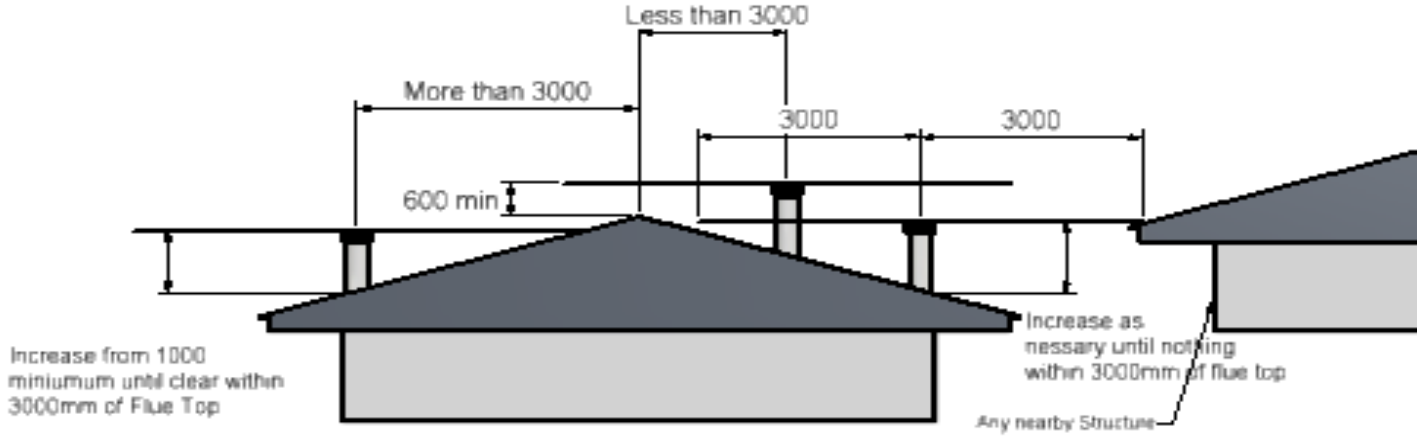
VENTING THROUGH FLASHING





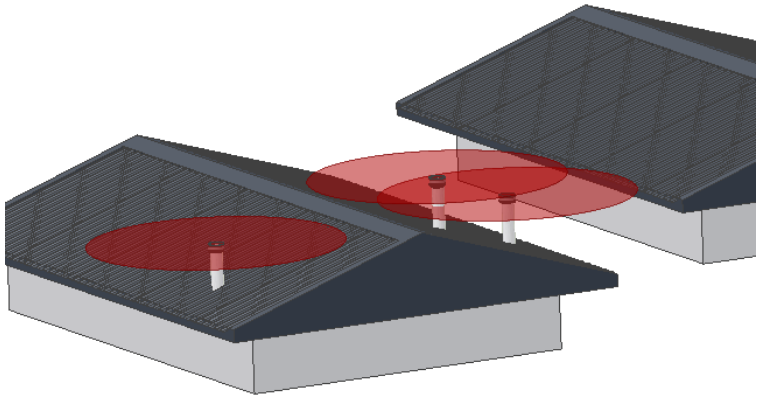
FLUE HEIGHT MINIMUM DETAILS

Note: FLUE SYSTEMS casing..
Flue system may require to be doubled lined to comply. Ref ASNZS:2918:2001 4.3 Flue pipe casing.



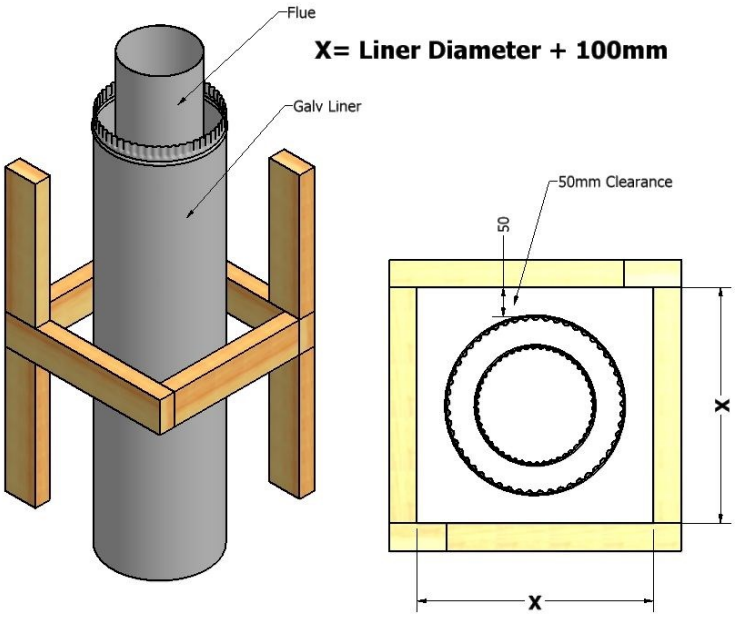
The Flue exit is to comply to ASNZS 2918: 2001

3D View

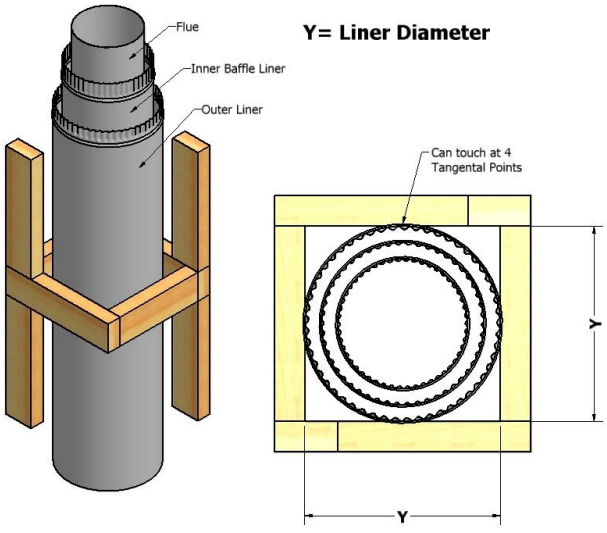


FRAME OUT AND TRIM OUT DETAILS FOR CHIMNEY CHASE

Option X – Singled Lined Flue System

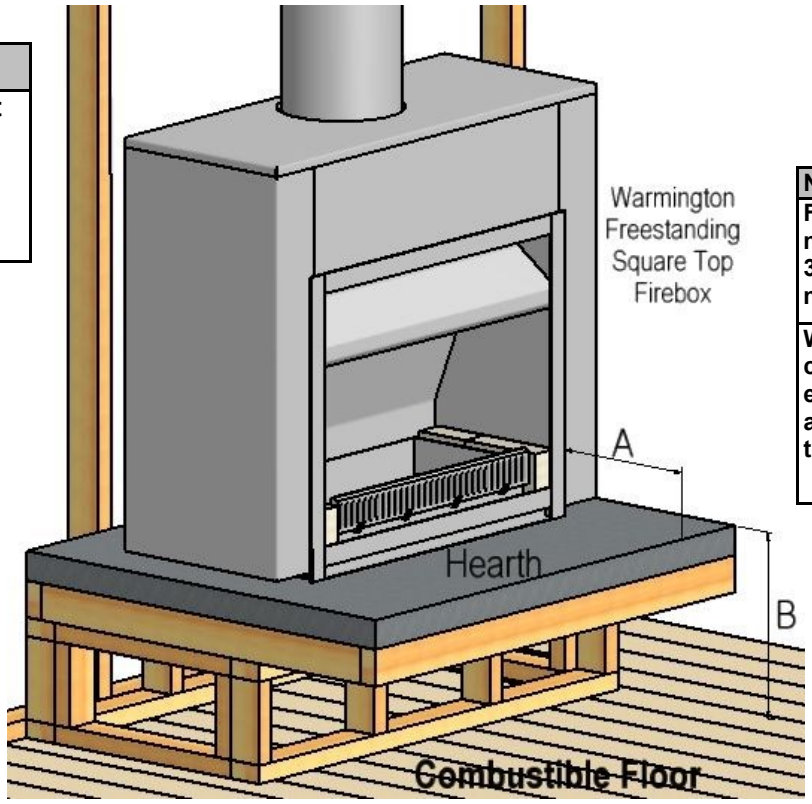


Option Y – Double Lined Flue System



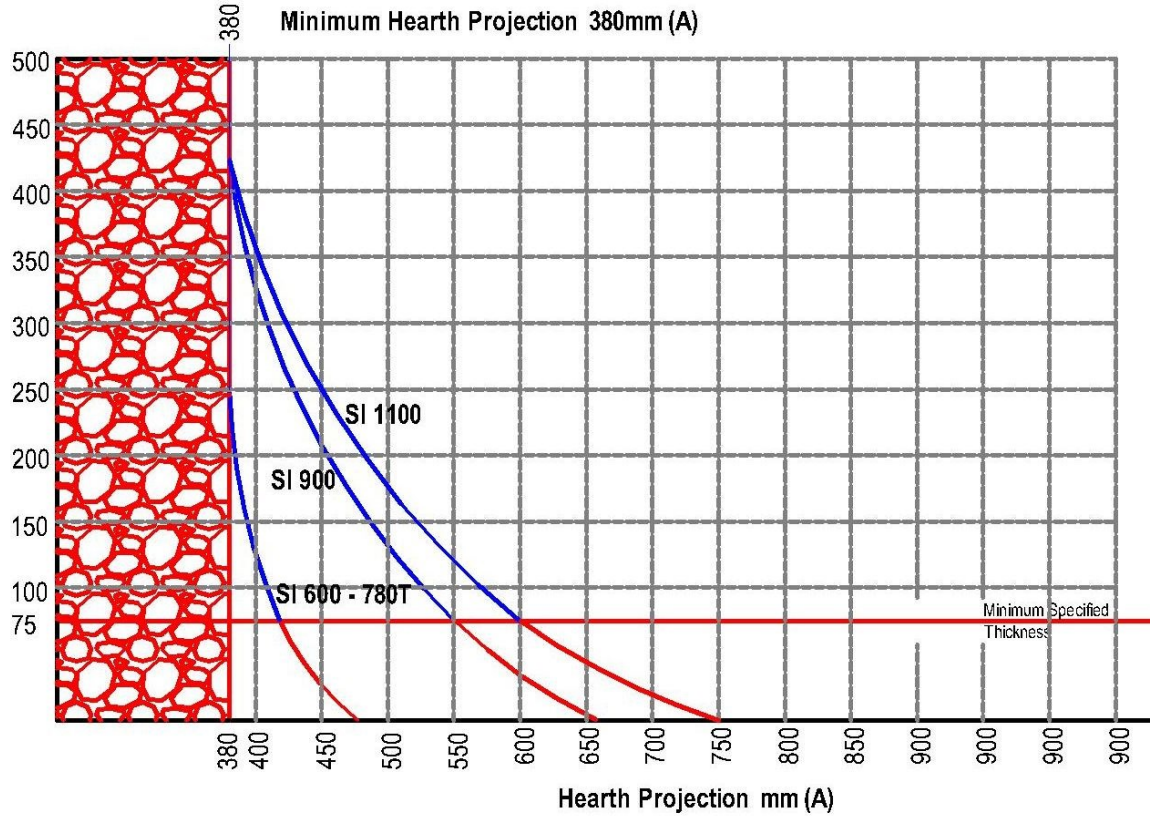
RAISED HEARTH CLEARANCES

Note:
A minimum height must be maintained from the top of the cabinet to the ceiling (see page 8).



Note:
For combustible floors minimum hearth of 380mm (A) must be maintained.
When using a raised & cantilevered hearth, ensure the hearth is appropriately engineered to take the weight .

SI 440 - 1100 RAISED HEARTH CLEARANCES



Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.

15 June 2017

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.

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 ACCORDANCE WITH THESE INSTRUCTIONS
- **CAUTION**: THE USE OF SOME TYPES OF PRESERVATIVE-TREATED WOOD AS A FUEL CAN BE HAZARDOUS.

Model	Estimated KW	Average KW
SI 600 FSS	12	8
SI 700 FSS	15	10
SI 700T FSS	15	10
SI 780 FSS	17	11
SI 780T FSS	**Tested 19**	12
SI 900 FSS	23	13
SI1100 FSS	25	14

NOTE: For Operation Instructions download from the website
www.warmington.co.nz

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