

est. 1876

PIVOT

stove & heating

— Wood Heater —
Install
Handbook

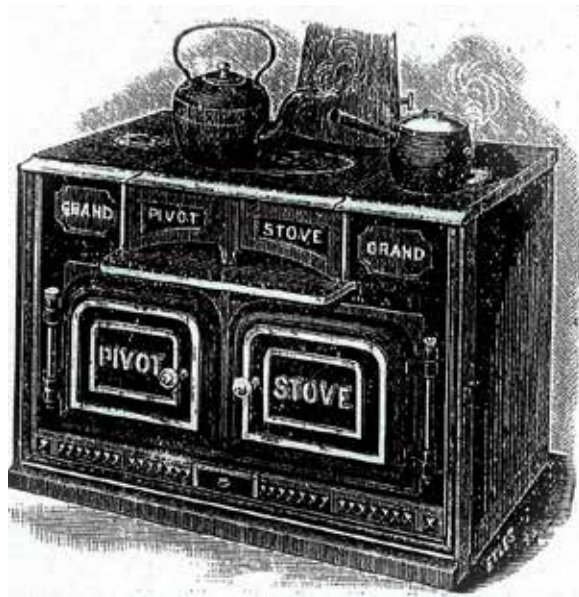
pivotstove.com.au
sales@pivotstove.com.au
1300 4 PIVOT
1300 474 868

120 Victoria Street
North Geelong VIC 3215

est. 1876

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Wood Heater Install Handbook
V1.2 2020

Information herein complies with AS / NZS 2918:2018
and is correct at the time of printing.

Introduction

This WOOD HEATER HANDBOOK is designed to assist customers, salespeople and installers with the most common questions regarding flueing, hearths, clearances and hot water.

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About the Author

Greg Parker-Hill is 6th generation of owner of Pivot Stove and Heating. A licensed plumber, Greg has installed close to 10,000 heaters in his 35-year career. With years of experience working as a Master Stove Maker with ESSE in the UK, Pacific Energy in Canada, Yunca and Pyroclassic in New Zealand plus generations of experience handed down by his forefathers, Greg's knowledge and passion is what he is renowned for.

In 2006 Greg and his wife, Tammie took over from Greg's parents as the 6th generation owners of Pivot Stove and Heating.

How to size a Wood Heater

Rule of thumb for sizing a wood heater (not exact mathematics) as a guide:
1kW of heat will heat 10m² (or 1 building square).

A good way to explain area to heat is a standard double garage. Dimensions are normally 6m x 6m with a 2.4 ceiling = (approx) 60m².

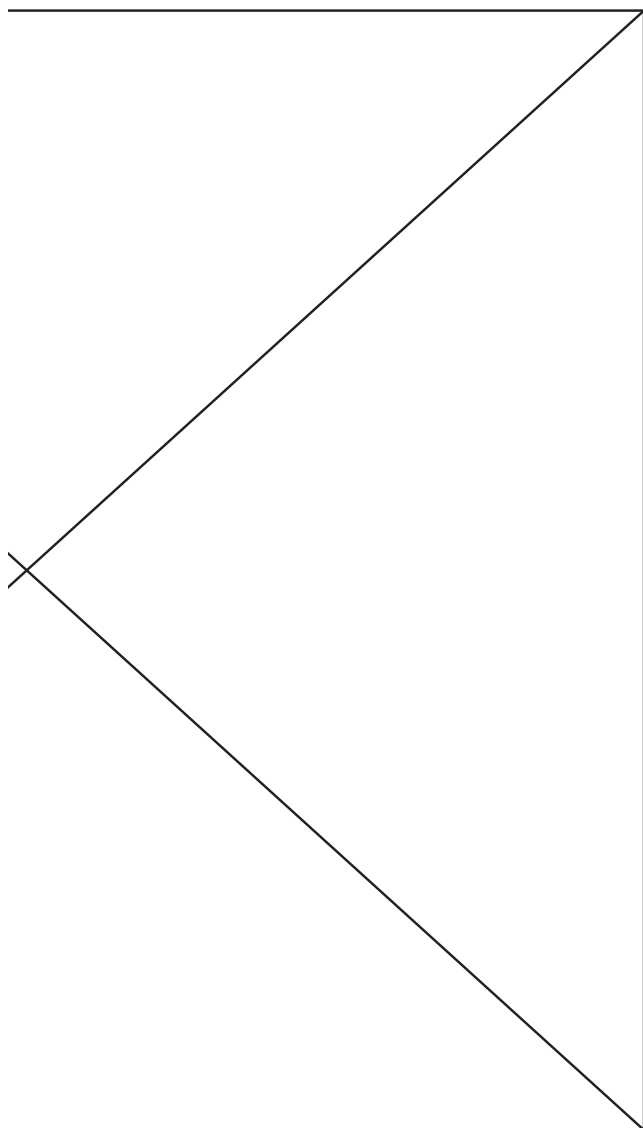
To heat an area of a 2 car garage you would need 6kW of heat to heat it / but only 2.5 kW of heat to maintain the heat (based on that you have good insulation).

Most wood heaters are advertised with maximum heat output.

So a wood heater advertised that will heat 120m², would have the maximum ability to heat 12kW fully loaded and burning.

As most people run a wood heater at half setting, whatever the heater is advertised it will comfortably heat an area 50% its advertised for.

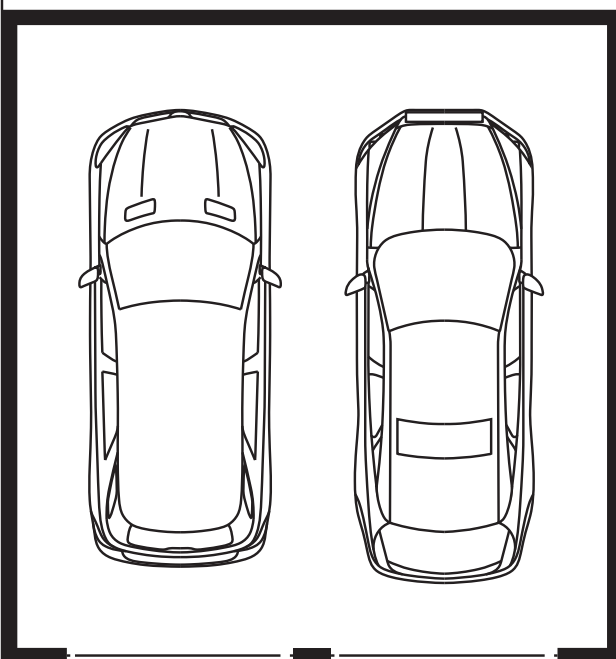
To heat an area the size of a 2 car garage (at 60m²) you would put a wood heater in that is rated to heat 120m² (12kW) - giving you the initial power to heat the room from cold, and then enough control to maintain the heat in the room.



More accurate way to size a wood heater:
Calculate the cubic space of the room by
multiplying the width X height X length.

As a rule of thumb, divide the cubic space by 14
and this will give you a kW output needed for the
room.

Double Car Garage



Difference between Default Flue Kit & Insulated Flue Kit

Default Air Cooled Flue Kit

Default air cooled flue kits are the most common flue kits used in Australia.

Using triple skin flue:

- 150mm stainless inner (active flue)
- 200mm inner galvanised flue
- 250mm outer galvanised flue.

The air passes through these flue layers to suck the heat away from the active flue to cool it down so the outer flue is safe to be installed as close as 25mm to timber.



Just below the ceiling line, the flue starts with one end of the flue painted with a dress ring, this is called a dropbox.

The holes in this dropbox allow air to escape and pass through the triple skin flue to cool it down.



- 420lts of air per minute is used to cool the flue.
- 8% of the heat the heater has made is used to cool the flue down.

Pro's

- Default flue kits are competitive to purchase.
- They allow for different mesh options.

Insulated Room Seal Flue Kit

Insulated flue kits are commonly used in colder climates (like the UK and Canada).

These are:

- 150mm stainless inner (active flue)
- 200mm stainless outer flue.

Insulated with ceramic fibre, this reduces the outside temperature of the flue so it's safe to be installed as close as 25mm to timber.

No screws are used, the flue twist locks together.



Just below the ceiling line, the flue starts with one end of the flue painted and a dress ring, this is called a dropbox.

The ceiling ring has an insulation seal, so no heat from your room can escape, making this a **room sealed flue kit**.



- No heat loss will increase your heaters heating ability by 8%
- Saving you 8% in fuel costs.

Pro's

- Increased heaters efficiency to heat.
- No heat loss, perfect for passive designed homes.

Flue Finish Options

Default Flue Kit

Stainless Steel

Exposed stainless give that “rustic” look.

The flue will change colour over time from a bronze to a blue. Any finger marks will stain, it is important to wash down with turps before the first fire. A half heat shield is required when installing against a combustible wall.



Stainless Steel



The flue finish you have inside your home really does change the look of any heater. From rustic exposed stainless, to traditional deco mesh, to modern solid flue.

Here are the options available.

Solid Decro Flue

For a modern style, the solid finish gives a very sleek look. No spiders cobwebs, no dust and hiding the working stainless flue you don't see the working flue discolour. The solid finish also acts as a heat shield for the working flue, no additional flue shield is required.



Solid Decorative Flue

Mesh Decro Flue

Very traditional in the finish, suits more country or traditional style homes.

The rear of the flue has a built in flue heat shield.

You can see the working stainless flue through the holes, and see this change colour over time.



Mesh Decorative Flue

Room Seal Flue Kit

RSF – Painted Flue

The active (stainless steel) flue is painted with StoveBright Metallic Black to match your heater.

This is a very sleek look that suits both modern and traditional homes.

The first length supplied with a flue heat shield painted to match the flue.



RSF - Painted Flue with Heat Shield

RSF – Reduced Clearance

The insulated flue is painted with StoveBright Metallic Black to match your home and starts directly on top of the heater.

At 200mm diameter, it is the same size and look as the Solid Decro Mesh and being insulated, it is safer to touch.

Being cooler, you can reduce the rear clearance of tested heaters.



RSF - Reduced Clearance

ESSE Flue Kits

ESSE Enamel Flue Kit

Made in England, the high quality enamel flue is enamelled on the inside and outside of the flue.

The enamel finish perfectly matches the black enamel top of ESSE enamel cookers.

The first length is supplied with an access door for cleaning.



ESSE Enamel Flue

ESSE Charcoal Flue Kit

Painted with StoveBright Charcoal, this flue perfectly matches any painted ESSE cooker (Ironheart, Bakeheart, Warmheart).

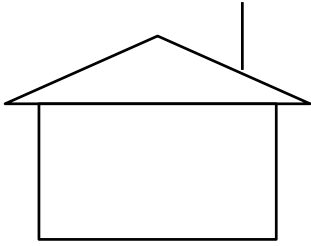
The flue is designed so you can still use the ESSE hot plate covers (bolster lids) without any interference.

The first length is supplied with an access door for cleaning.



ESSE Charcoal Flue

Cowl Types

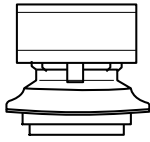
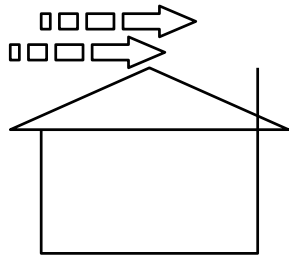


Standard Cowl

Standard Cowl

Open vented with rain cap, these are perfect for all makes and models.

Allows good venting of smoke, excellent for homes collecting rainwater from the roof.



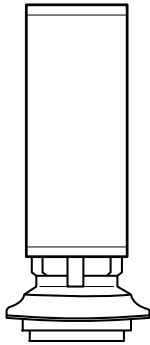
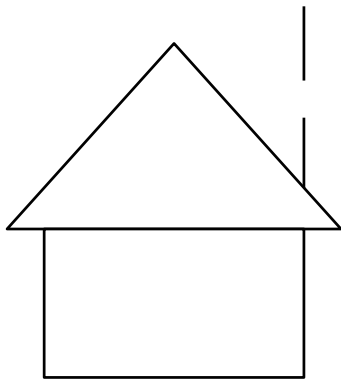
**Wind Rim Cowl (ADD)
for wind reduction**

Wind Rim Cowl

Wind rim cowl, perfect for high wind areas

Reduces wind noise.

Can block up when wet wood is being used.

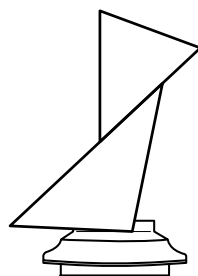
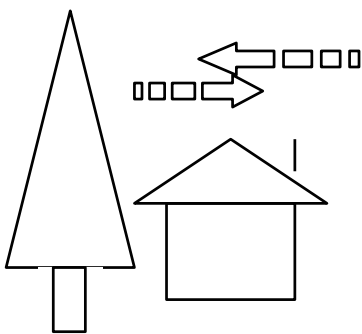


**Vertical Discharge
to increase draught**

Vertical Discharge Cowl

Vertical discharge cowl, increases flue draught up to 20%

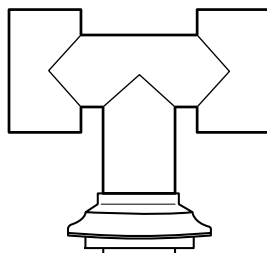
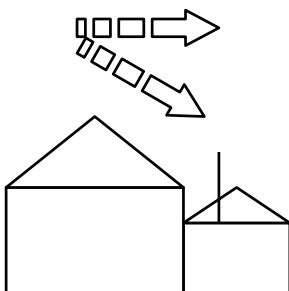
Perfect for increasing flue height where adding additional flue or bracing is impossible.



Bird Cowl

Rotational Bird Cowl

Rotational bird cowl, perfect for homes where you have turbulence wind coming from different directions.



**H Cowl
prevents extreme draught**

H Cowl

H cowl, perfect for extreme down draught.

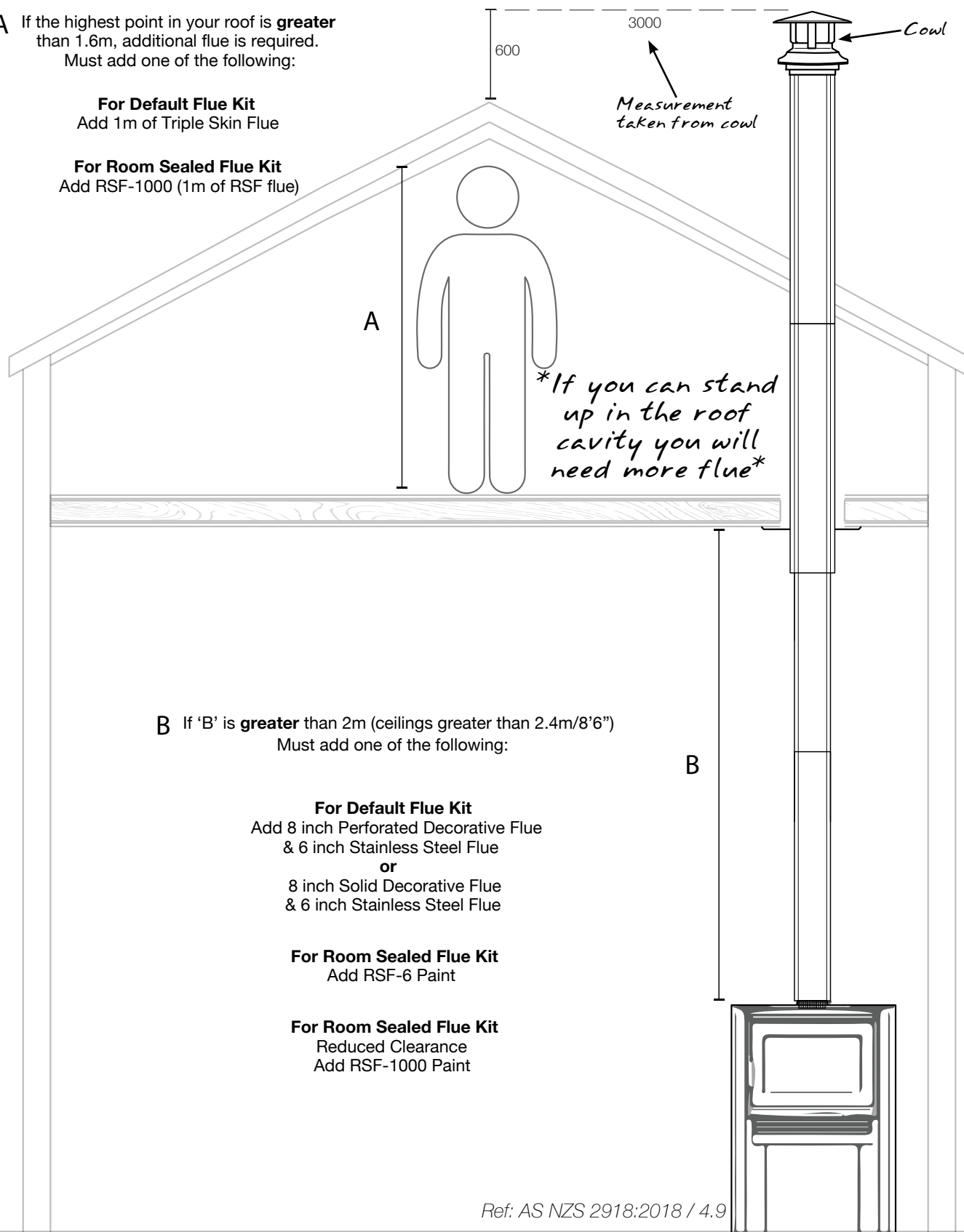
Any down draught is diverted through the cowl, rather than the flue.

When Extra Flue is Required

A If the highest point in your roof is **greater** than 1.6m, additional flue is required. Must add one of the following:

For Default Flue Kit
Add 1m of Triple Skin Flue

For Room Sealed Flue Kit
Add RSF-1000 (1m of RSF flue)



B If 'B' is **greater** than 2m (ceilings greater than 2.4m/8'6") Must add one of the following:

For Default Flue Kit
Add 8 inch Perforated Decorative Flue
& 6 inch Stainless Steel Flue

or

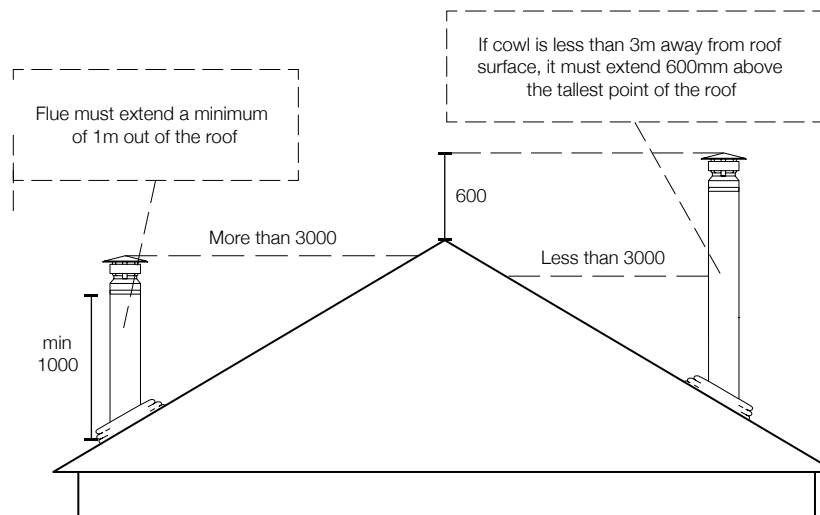
8 inch Solid Decorative Flue
& 6 inch Stainless Steel Flue

For Room Sealed Flue Kit
Add RSF-6 Paint

For Room Sealed Flue Kit
Reduced Clearance
Add RSF-1000 Paint

Ref: AS NZS 2918:2018 / 4.9

Flue Clearance



Adding offset bends in your flue

Rules for adding bends to your flue

Rule 1

If you add an off-set bend in your flue / keep the offset angle at 45° to ensure no flue draught restriction.

Rule 2

Only use 1 set of bends in any wood flue system.

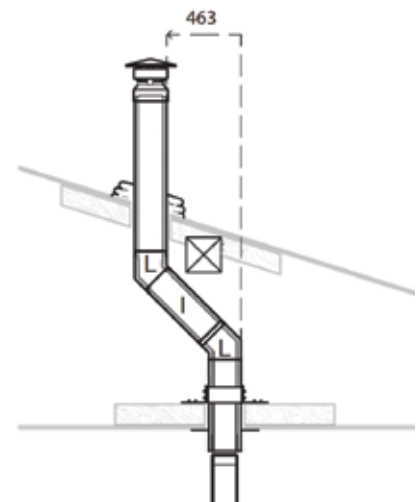
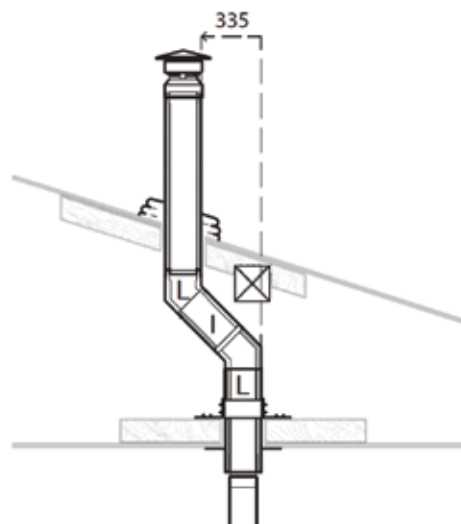
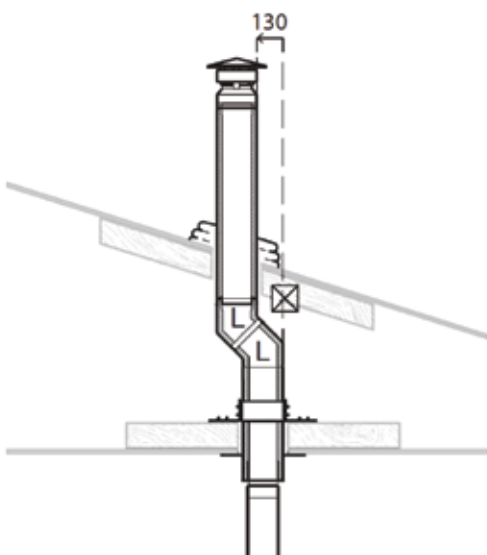
Rule 3

Offsets do restrict the flue draught / it is advised to compensate this by adding an additional length of straight flue.

Rule 4

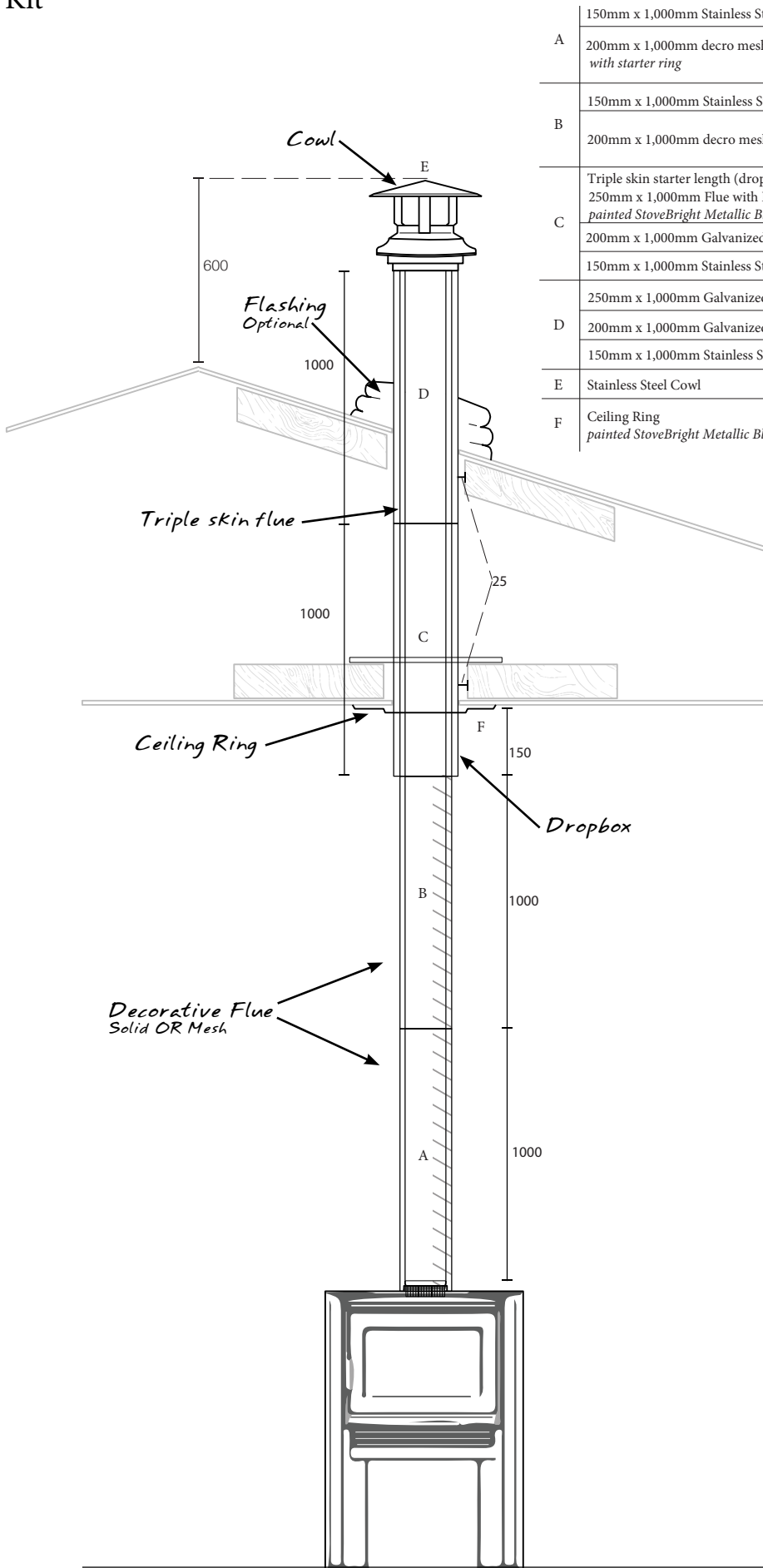
Maximum distance between the bends is 1800mm. (ref: AS NZS 2918:2018 4.1)

images below are the offset dimension using **Insulated Flue System: Room Seal Flue**.



Standard Default Triple Skin Flue Kit

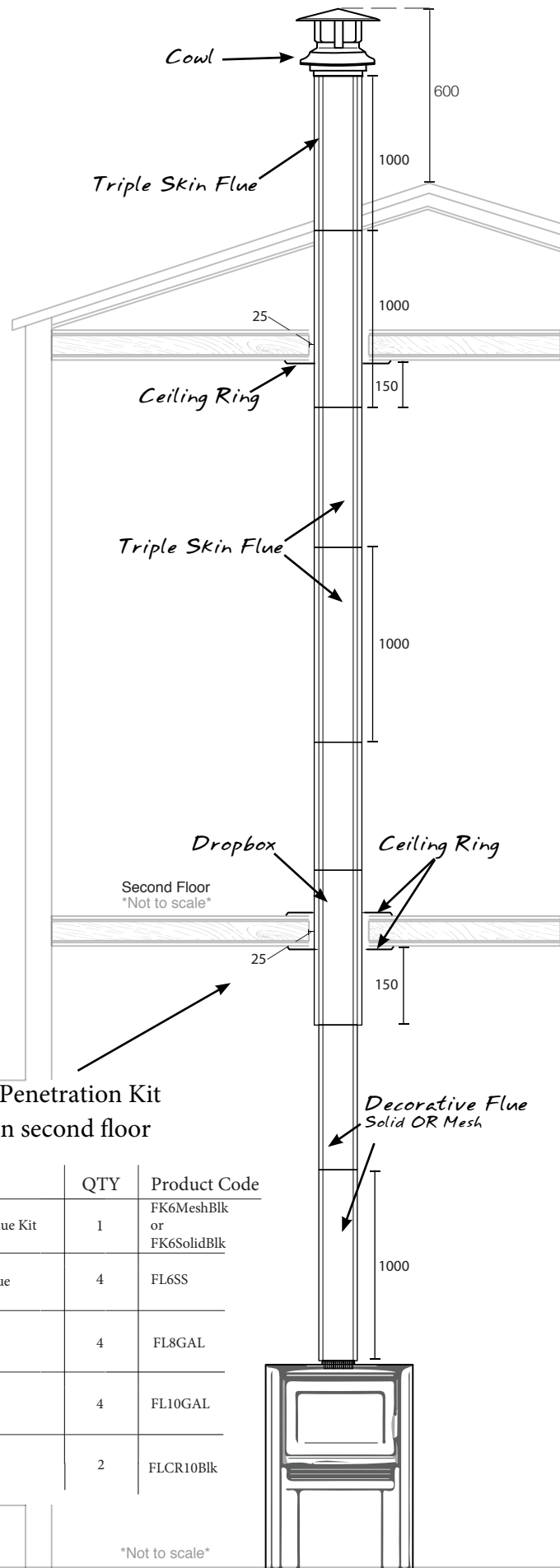
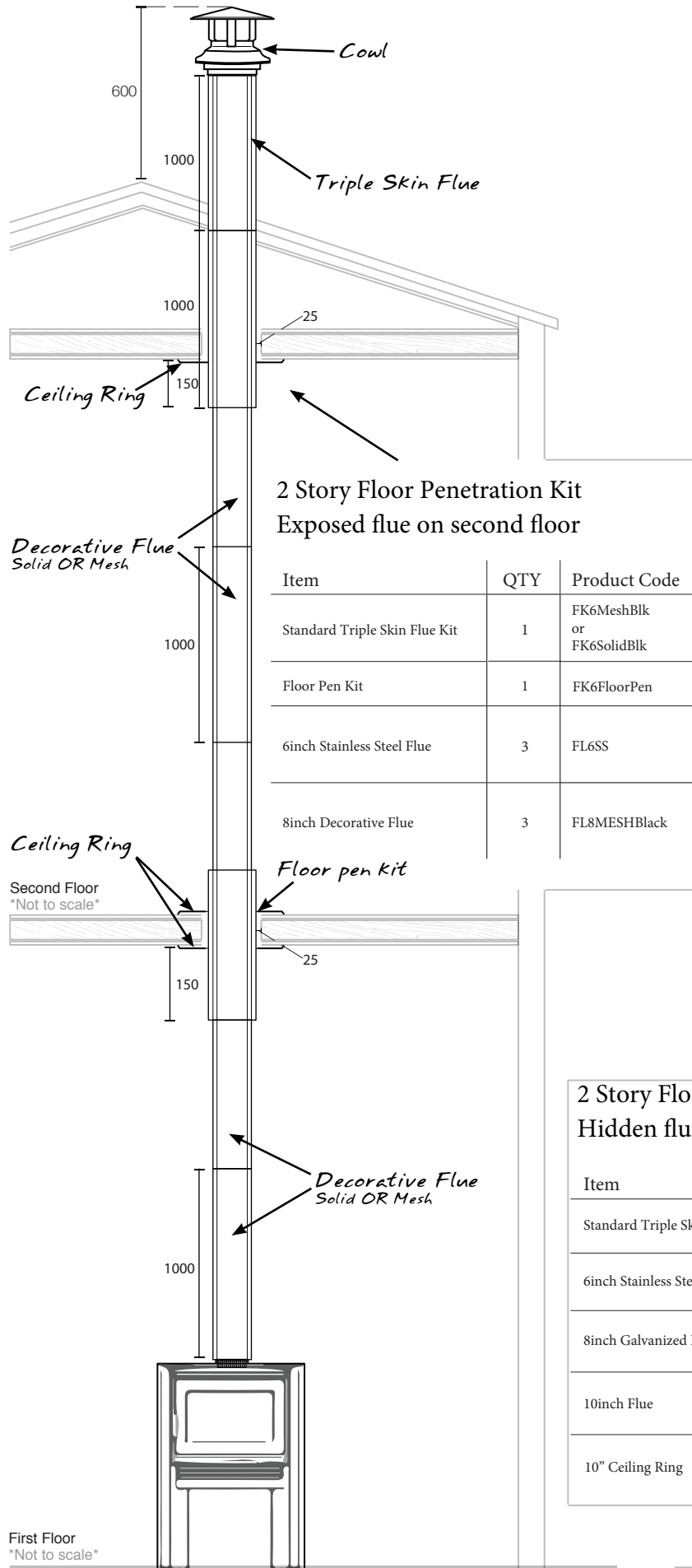
Air Cooled
Flue Kit



A	150mm x 1,000mm Stainless Steel Flue	1	FL6SS
	200mm x 1,000mm deco mesh / or solid deco with starter ring	1	FL8StarterMeshBlk OR FL8StarterSolidBlk
B	150mm x 1,000mm Stainless Steel Flue	1	FL6SS
	200mm x 1,000mm deco mesh / or solid deco	1	FL8MeshBlk OR FL8SolidBlk
C	Triple skin starter length (dropbox)	1	FL10DropBox10-8
	250mm x 1,000mm Flue with Dropbox Ring <i>painted StoveBright Metallic Black</i>	1	
	200mm x 1,000mm Galvanized Flue	1	FL8Gal
D	150mm x 1,000mm Stainless Steel Flue	1	FL6SS
	250mm x 1,000mm Galvanized Flue	1	FL10Gal
	200mm x 1,000mm Galvanized Flue	1	FL8Gal
	150mm x 1,000mm Stainless Steel Flue	1	FL6SS
E	Stainless Steel Cowl	1	FL6Cowl6-10
F	Ceiling Ring <i>painted StoveBright Metallic Black</i>	1	FLCR10Blk

2 Story Flue Kit Options

using Default Triple Skin Flue

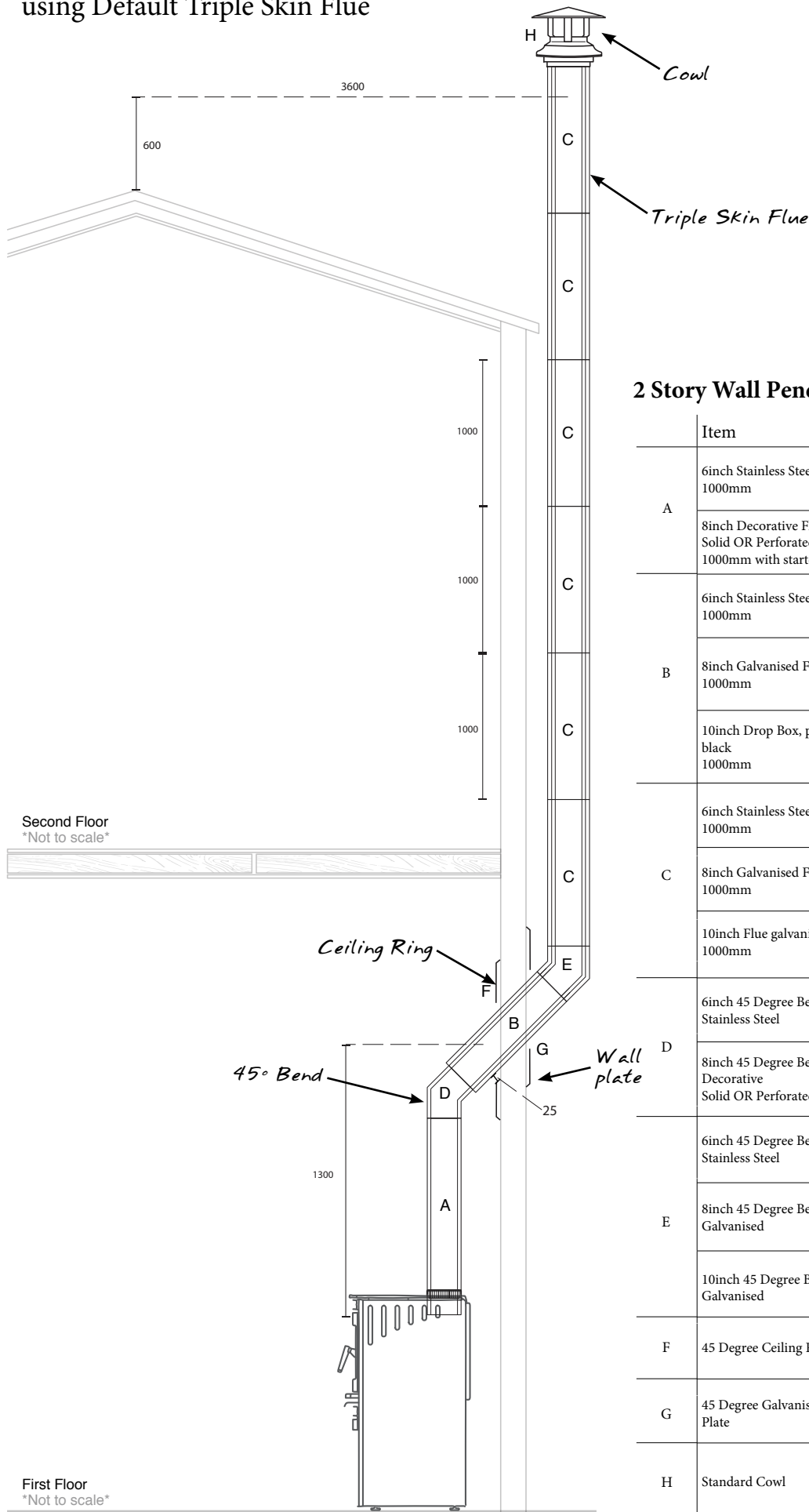


First Floor
Not to scale

Not to scale

45° 2 Story Wall Penetration

using Default Triple Skin Flue



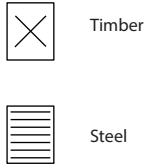
2 Story Wall Penetration Kit

	Item	QTY	Product Code
A	6inch Stainless Steel Flue 1000mm	1	FL6SS
	8inch Decorative Flue Solid OR Perforated 1000mm with starter collar	1	FL8Mesh
B	6inch Stainless Steel Flue 1000mm	1	FL6SS
	8inch Galvanised Flue 1000mm	1	FL8GAL
	10inch Drop Box, painted black 1000mm	4	FL10Dropbox10-8
C	6inch Stainless Steel Flue 1000mm	6	FL6SS
	8inch Galvanised Flue 1000mm	6	FL8GAL
	10inch Flue galvanised 1000mm	6	FL10GAL
D	6inch 45 Degree Bend Stainless Steel	1	FL6SSB45
	8inch 45 Degree Bend Decorative Solid OR Perforated	1	FL8MeshB45
E	6inch 45 Degree Bend Stainless Steel	1	FL6SSB45
	8inch 45 Degree Bend Galvanised	1	FL8GALB45
	10inch 45 Degree Bend Galvanised	1	FL10GALB45
F	45 Degree Ceiling Ring Black	1	FLCR10Plate45oBlk
G	45 Degree Galvanised Wall Plate	1	FLCR10Plate45oRaw
H	Standard Cowl	1	FL6Cowl6-10

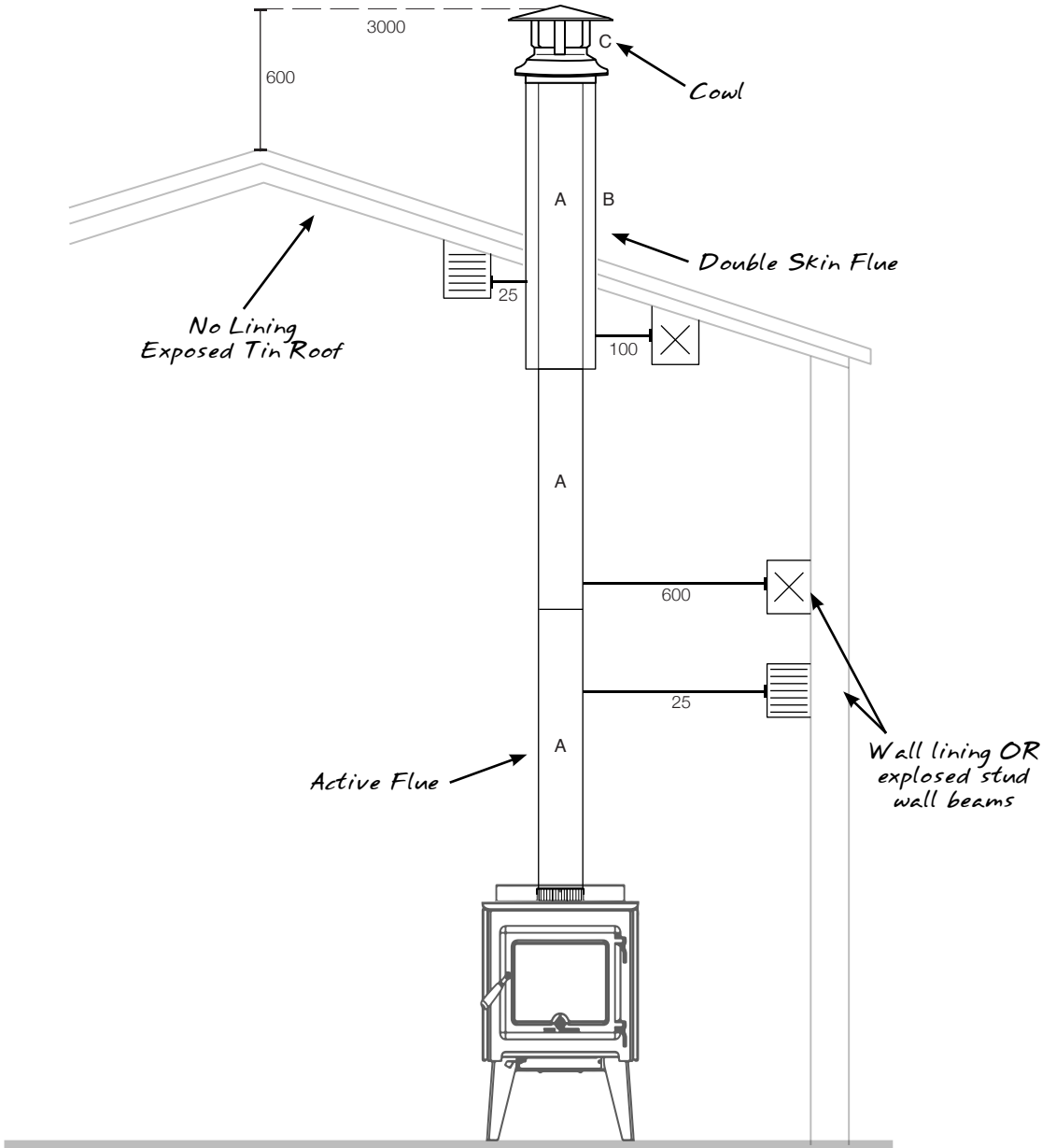
Shed Flue Kit

Shed flue kits are for unlined sheds.
 If the shed has a lined ceiling (plaster or timber) then you must use a Standard Default Triple Skin Flue Kit

	Item	QTY	Product Code
A	6inch Stainless Steel Flue 1000mm	3	FL6SS
B	8inch Gal Flue 1000mm with drop box ring	1	FL8DropBox8-6
C	6-8inch Cowl	1	FL6Cowl6-8



Available in the following sizes:
 4" | 4 1/2" | 5" | 6"



Insulated Room Seal Flue Kit

The Room Seal Flue Kit is an insulated flue kit that uses ceramic insulation to not only ensure your wood stove/heater's flue is running at the optimum temperature, but also offers a room seal solution for your home.

The Room Seal Flue Kit is an air tight solution for **passive homes** – increasing the efficiency of your wood heater by up to **8%**

The ceramic insulation ensures your outer temperature is kept extremely low, allowing you to have timbers as close as 25mm from this flue at the ceiling line, and 50mm from timber at the roof line.

14 Standard Ceiling 4m Flue Kit

Insulated Room Seal Flue Kit Standard Ceiling 4m Flue Kit

Item	QTY	Product Code
A 1000mm F Single Skin Flue Plate (2000mm)	2	RF-STARTER
B 1000mm starter length, and parallel for drop box (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000-STARTER
C 1000mm Room Sealed Flue with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000
D 1000mm Heat Shield Back (inside diameter: 100mm, outside diameter: 200mm)	1	RF-SHIELD
E Ceiling Ring	1	RF-CEILINGRING
F Wind Cover (inside diameter: 100mm, outside diameter: 200mm)	1	RF-COWL
G Room Sealed Flue Adapter (single to twin 100mm - 200mm)	1	RF-STARTER

Flue Assembly

NOTE: To assemble flue, first lock into place, second secure locking band around joint.

Optional Support Brace

NOTE: The optional support brace (N) has the ability to adjust to any angle of adjacent roof beams. There is a 25mm clearance between the flue and any timber at all times.

Heat Shield (side view)

NOTE: The heat shield should be positioned on the side of the flue that backs the required wall for additional protection.

15 Fully Sealed 4m Flue Kit

Insulated Room Seal Flue Kit Fully Sealed 4m Flue Kit

Item	QTY	Product Code
Q 1000mm RF painted black (RF) locking band (inside diameter: 100mm, outside diameter: 200mm)	2	RF-1000-PANTRD
R 1000mm starter length, and parallel for drop box (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000-STARTER
C 1000mm Room Sealed Flue with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000
E Ceiling Ring	1	RF-CEILINGRING
F Wind Cover (inside diameter: 100mm, outside diameter: 200mm)	1	RF-COWL
G Room Sealed Flue Adapter (single to twin 100mm - 200mm)	1	RF-STARTER

Optional Support Brace

NOTE: The optional support brace (N) has the ability to adjust to any angle of adjacent roof beams. There is a 25mm clearance between the flue and any timber at all times.

Flue Assembly

NOTE: To assemble flue, first lock into place, second secure locking band around joint.

Ceiling Ring

NOTE: There is a 25mm clearance between the flue and any timber at all times.

Fully Sealed Flue Kit

16 2 Story Wall Penetration Kit

Insulated Room Seal Flue Kit 2 Story Wall Penetration Kit

Item	QTY	Product Code
G Room Sealed Flue Adapter (single to twin 100mm - 200mm)	1	RF-STARTER
P 1000mm painted length (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000-PANTRD
R 1000mm starter length, and parallel for drop box (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000-STARTER
C 1000mm Room Sealed Flue with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	4	RF-1000
L 45 Degree Beam with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	1	RF-45BEND
Q 45 Degree Beam with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	1	RF-45BEND
R 45 Degree Wall Plate (inside diameter: 100mm, outside diameter: 200mm)	1	RF-45WALL-PLATE-PANTRD
S 45 Degree Wall Plate (inside diameter: 100mm, outside diameter: 200mm)	1	RF-45WALL-PLATE-GAL
H Wind Cover (inside diameter: 100mm, outside diameter: 200mm)	1	RF-COWL

2 Story Wall Penetration Kit

Wall Penetration Detail

NOTE: There needs to be 25mm clearance to any timber above the flue pipe and a 25mm clearance to any timber to the side and underneath.

Flue Assembly

NOTE: To assemble flue, first lock into place, second secure locking band around joint.

17 Cathedral Ceiling 4m Flue Kit

Insulated Room Seal Flue Kit Cathedral Ceiling 4m Flue Kit

Item	QTY	Product Code
A 1000mm F Single Skin Flue Plate (2000mm)	2	RF-STARTER
B 1000mm starter length, and parallel for drop box (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000-STARTER
C 1000mm Room Sealed Flue with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000
D 1000mm Heat Shield Back (inside diameter: 100mm, outside diameter: 200mm)	1	RF-SHIELD
E Ceiling Ring	1	RF-CEILINGRING
F Wind Cover (inside diameter: 100mm, outside diameter: 200mm)	1	RF-COWL
G Room Sealed Flue Adapter (single to twin 100mm - 200mm)	1	RF-STARTER

Starter Length

NOTE: The heat shield should be positioned on the side of the flue that backs the required wall for additional protection.

Optional Support Brace

NOTE: This optional support brace (N) has the ability to adjust to any angle of adjacent roof beams. There is a 25mm clearance between the flue and any timber at all times.

Ceiling Ring

NOTE: Ceiling Rings can adjust (F) to suit ceiling heights up to 2700mm ceiling. RF-CEILINGRING with 25mm to 50mm pitch ceiling. RF-CEILINGRING with 25mm to 50mm pitch ceiling.

Heat Shield (side view)

NOTE: The heat shield should be positioned on the side of the flue that backs the required wall for additional protection.

18 Rear 4m Flue Kit

Insulated Room Seal Flue Kit Rear Flue Kit

Item	QTY	Product Code
A 350 - 500mm Adjustable Room Sealed Flue with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	1	RF-ADJUSTRNTD
C 1000mm Room Sealed Flue with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	4	RF-1000
E Ceiling Ring	1	RF-CEILINGRING
J Wall Plate Gal	1	RF-WALLPLATE
G Room Sealed Flue Adapter (single to twin 100mm - 200mm)	1	RF-STARTER
H Wind Cover (inside diameter: 100mm, outside diameter: 200mm)	1	RF-COWL
I 45 Degree Tee with Cap (inside diameter: 100mm, outside diameter: 200mm)	1	RF-TEE
V Roof Support Brace (inside diameter: 100mm, outside diameter: 200mm)	2	RF-ROOFBRACE

Wall Penetration

NOTE: There needs to be 25mm clearance to any timber above the flue pipe and a 25mm clearance to any timber to the side and underneath.

Roof Support Brace

NOTE: This roof brace (V) is used to support the flue above the flue pipe and a 25mm clearance to any timber to the side and underneath.

19 ESSE Room Seal Flue Kit

Insulated Room Seal Flue Kit ESSE and Room Seal Flue 4m Flue Kit

Item	QTY	Product Code
A 1000mm x 1000mm Stainless Flue with Access Door (inside diameter: 100mm)	1	FLUCHDOOR
B 1000mm x 1000mm Stainless Flue with Access Door (inside diameter: 100mm)	1	FLUCHDOOR
C 1000mm Heat Shield	1	FLUCHSHIELD
D Room Sealed Flue Adapter (single to twin 100mm - 200mm)	1	RF-STARTER
E Ceiling Ring	1	RF-CEILINGRING
F 1000mm starter length, and parallel for drop box (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000-STARTER
G 1000mm Room Sealed Flue with Locking Band (inside diameter: 100mm, outside diameter: 200mm)	1	RF-1000
H Wind Cover (inside diameter: 100mm, outside diameter: 200mm)	1	RF-COWL

Optional Support Brace

NOTE: There is a 25mm clearance between the flue and any timber at all times.

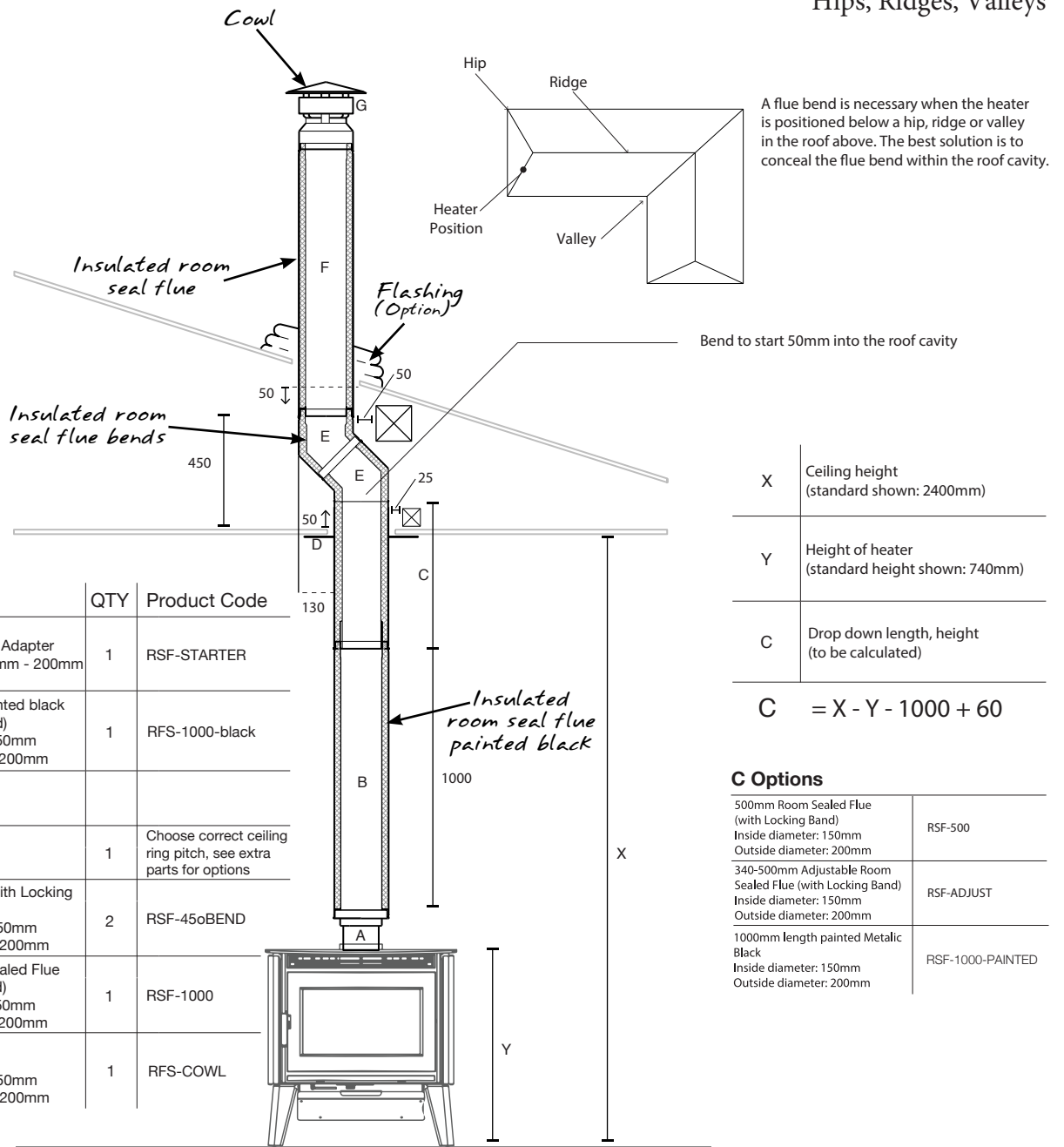
Ceiling Ring

NOTE: The optional support brace (N) has the ability to adjust to any angle of adjacent roof beams. There is a 25mm clearance between the flue and any timber at all times.

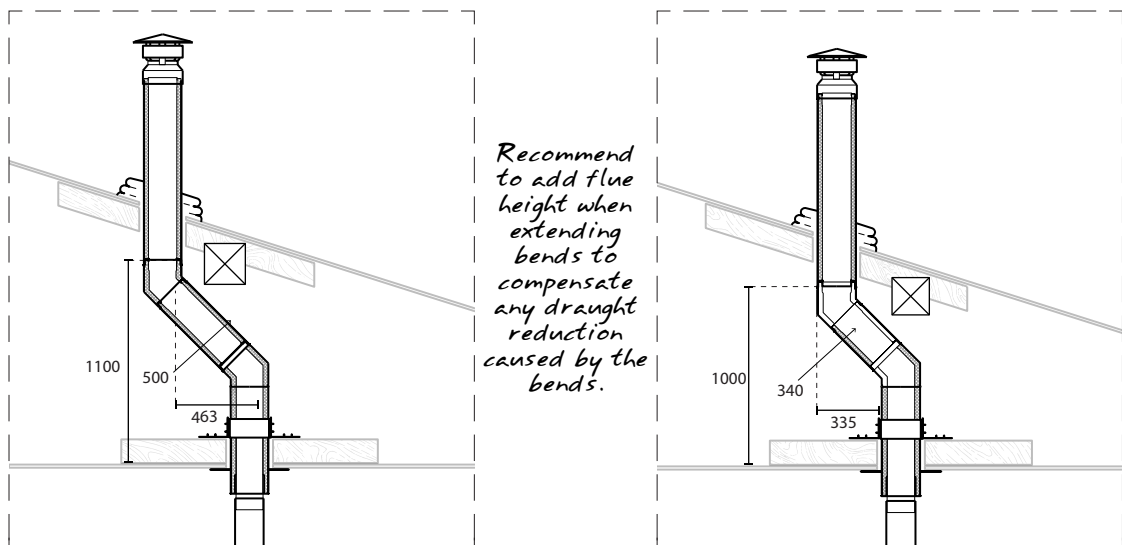
This flue is tested to: AS / NZS2918:2018 APPENDIX F
Approval number: ASFT20050

Avoid Roof Beams Above Heater

Hips, Ridges, Valleys



Bend Extension variations



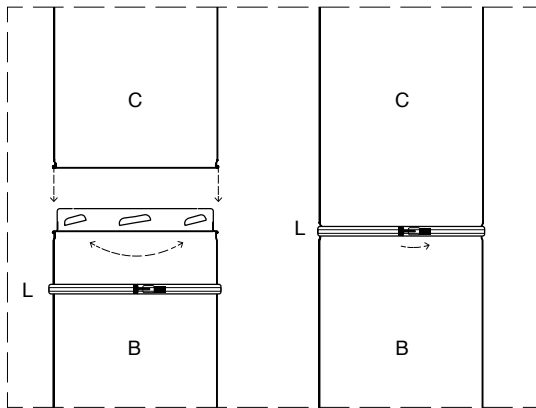
Insulated Room Seal Flue Kit

Standard Ceiling 4m Flue Kit

Standard Flue Kit

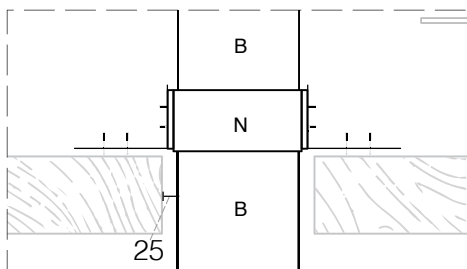
	Item	QTY	Product Code
A	1000mm 6" Single skin flue Painted black Diameter: 150mm	2	RSF-6PAINT
B	1000mm starter length, end painted for drop box Inside diameter: 150mm Outside diameter: 200mm	1	RSF-1000 Starter
C	1000mm Room Sealed Flue (with Locking Band) Inside diameter: 150mm Outside diameter: 200mm	1	RSF-1000
D	1000mm Heat Shield Black	1	RSF-SHIELD
E	Ceiling Ring	1	RSF-CEILINGRING
F	Wind Cowl Stainless Steel Inside diameter: 150mm Outside diameter: 200mm	1	RSF-COWL
G	Room Sealed Flue Adapter Single to twin 150mm - 200mm	1	RSF-STARTER

Flue Assembly



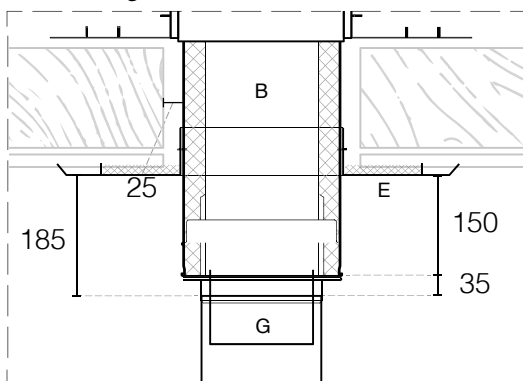
NOTE:
To assemble flue, first lock into place, second secure locking band around joint

Optional Support Brace

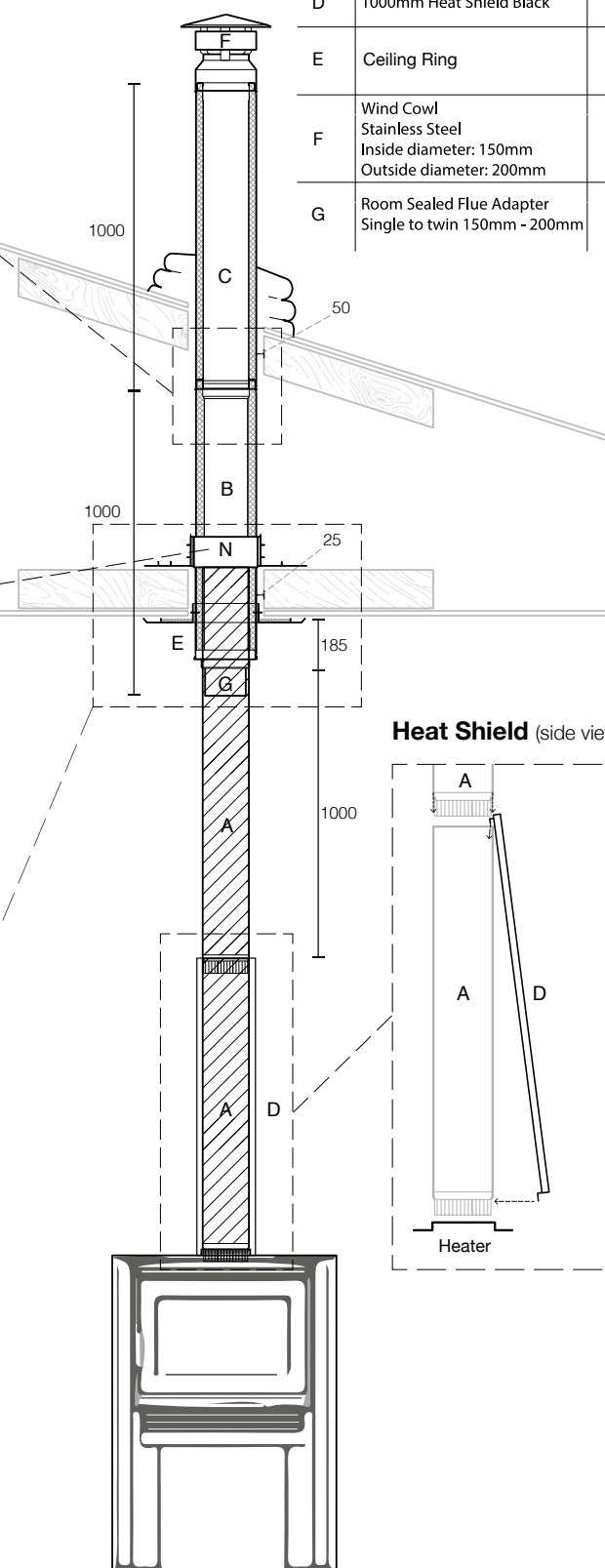


NOTE:
The optional support brace (N) has the ability to adjust to any angle of adjacent roof beams
There is a 25mm clearance between the flue and any timber at all times

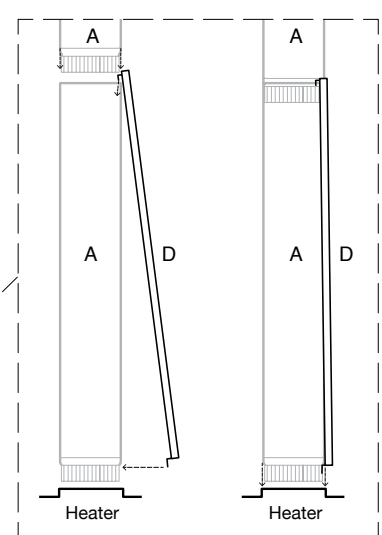
Starter Length



NOTE:
150mm single skin flue (A) must terminate 185mm from the ceiling. The 200mm starter length (B) dropping 150mm into the room, with the tail dropping into the A flue
There is a 25mm clearance between the flue and any timber at all times



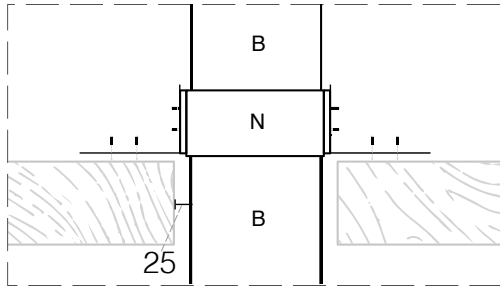
Heat Shield (side view)



Insulated Room Seal Flue Kit

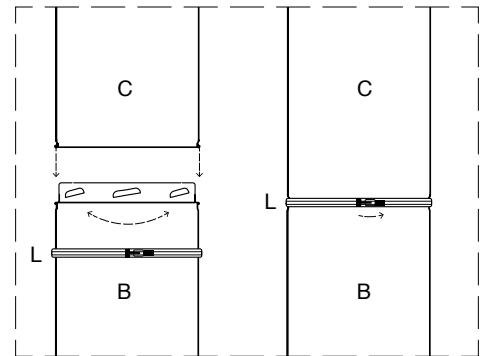
Fully Sealed 4m Flue Kit

Optional Support Brace

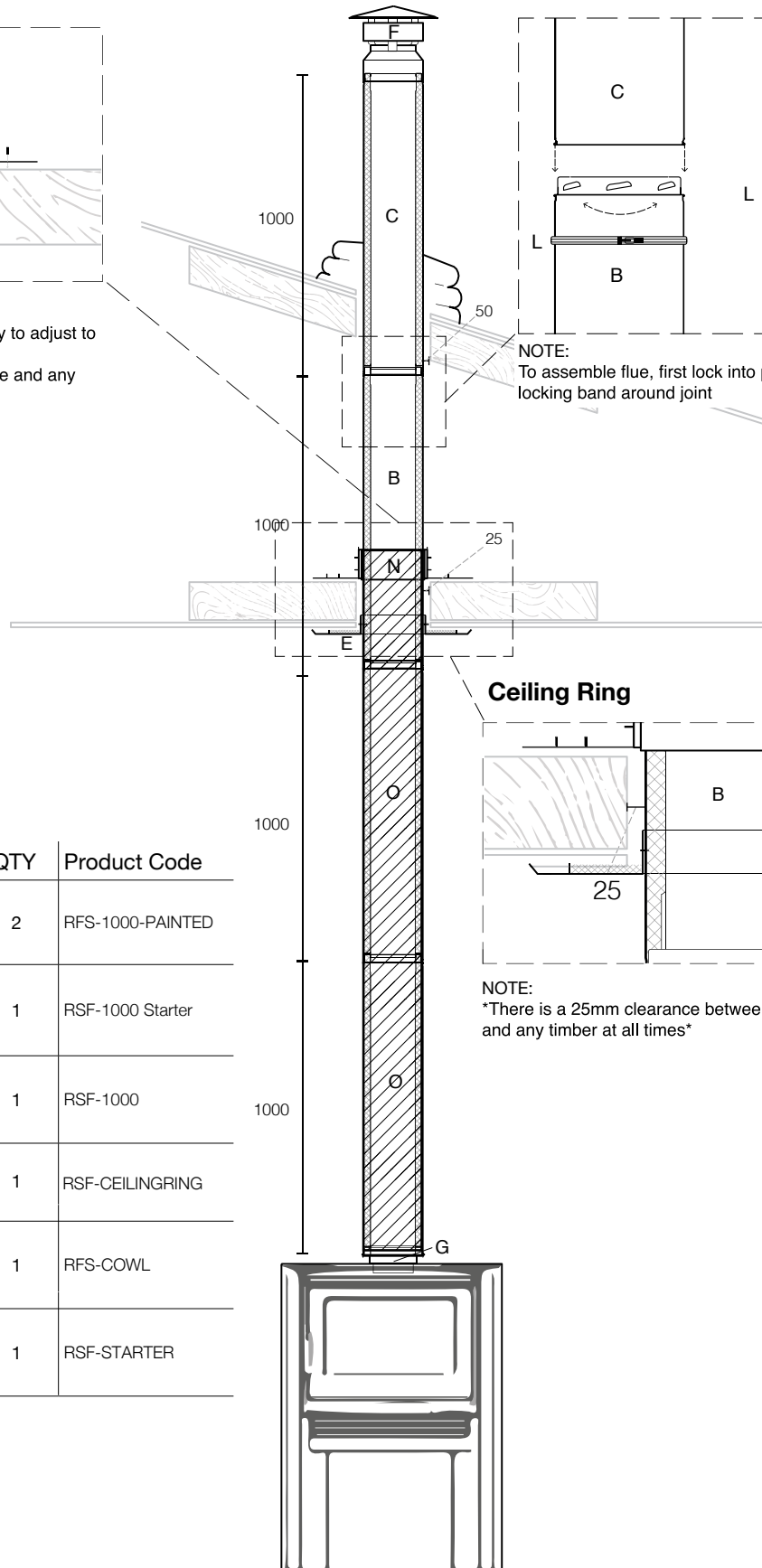


NOTE:
The optional support brace (N) has the ability to adjust to any angle of adjacent roof beams
There is a 25mm clearance between the flue and any timber at all times

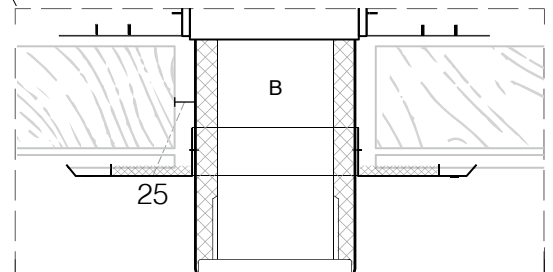
Flue Assembly



NOTE:
To assemble flue, first lock into place, second secure locking band around joint



Ceiling Ring



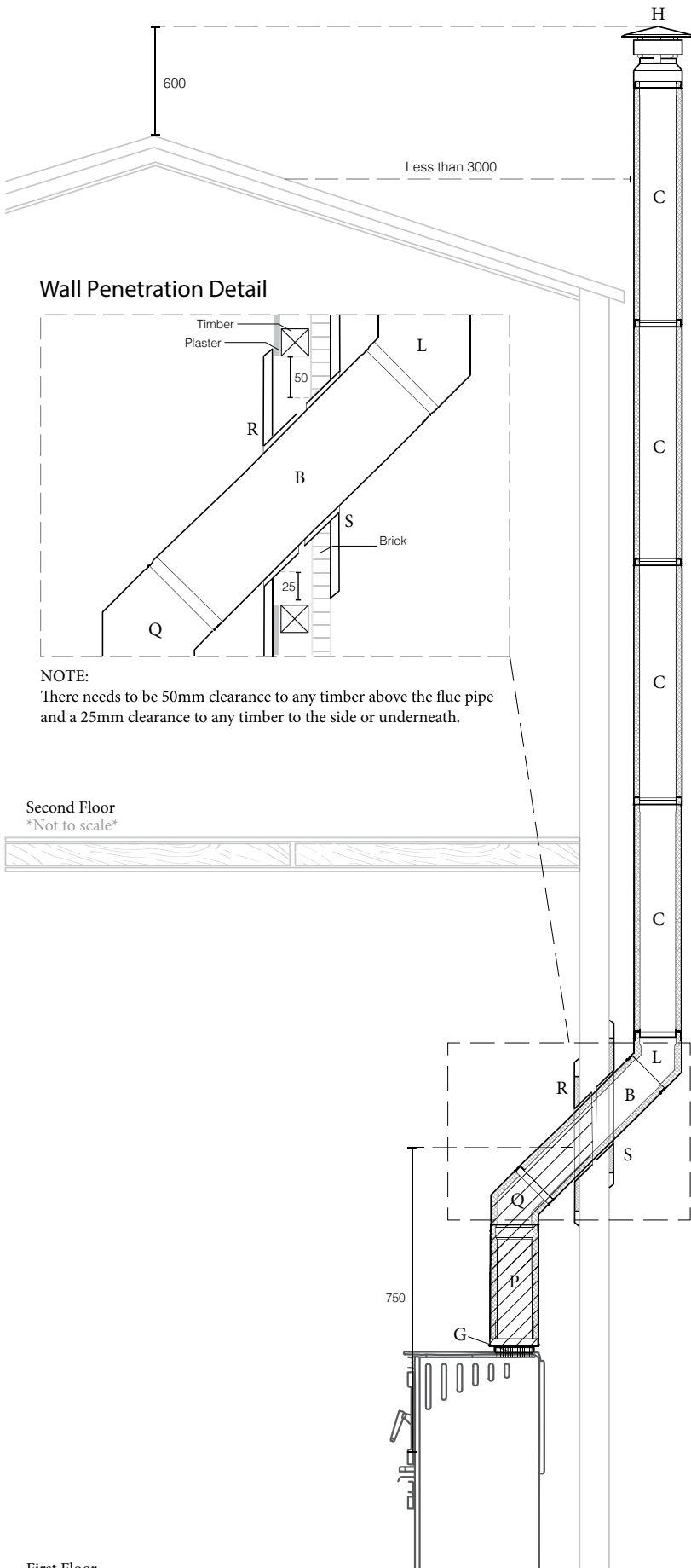
NOTE:
There is a 25mm clearance between the flue and any timber at all times

Fully Sealed Flue Kit

Item	QTY	Product Code
O 1000mm RSF, painted black (with Locking Band) Inside diameter: 150mm Outside diameter: 200mm	2	RFS-1000-PAINTED
B 1000mm starter length, end painted for drop box Inside diameter: 150mm Outside diameter: 200mm	1	RSF-1000 Starter
C 1000mm Room Sealed Flue (with Locking Band) Inside diameter: 150mm Outside diameter: 200mm	1	RSF-1000
E Ceiling Ring	1	RSF-CEILINGRING
F Wind Cowl Stainless Steel Inside diameter: 150mm Outside diameter: 200mm	1	RFS-COWL
G Room Sealed Flue Adapter Single to twin 150mm - 200mm	1	RSF-STARTER

Insulated Room Seal Flue Kit

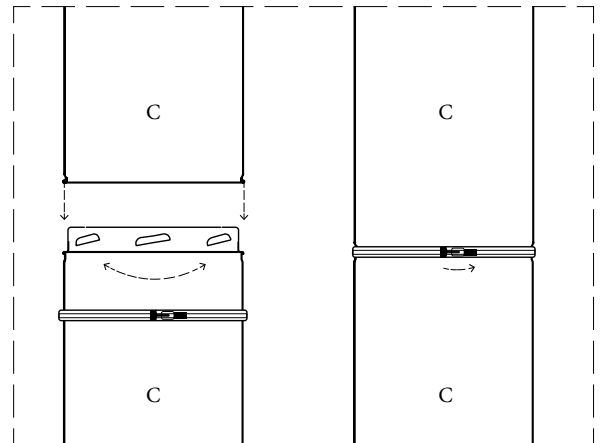
2 Story Wall Penetration Kit



2 Story Wall Penetration Kit

	Item	QTY	Product Code
G	Room Sealed Flue Adapter Single to twin 150mm - 200mm	1	RSF-STARTER
P	500mm painted length Inside diameter: 150mm Outside diameter: 200mm	1	RSF-500 Painted
B	1000mm starter length, end painted for drop box Inside diameter: 150mm Outside diameter: 200mm	1	RSF-1000 Starter
C	1000mm Room Sealed Flue (with Locking Band) Inside diameter: 150mm Outside diameter: 200mm	4	RSF-1000
L	45 Degree Bend with Locking Band Inside diameter: 150mm Outside diameter: 200mm	1	RSF-45oBEND
Q	45 Degree Bend Painted with Locking Band Inside diameter: 150mm Outside diameter: 200mm	1	RSF-45oBEND-PAINTED
R	45 Degree Wall Plate painted	1	RSF-45WALL-PLATE-PAINTED
S	45 Degree Wall Plate Gal	1	RSF-45WALL-PLATE-GAL
H	8" Wind Cowl Stainless Steel Inside diameter: 150mm Outside diameter: 200mm	1	RSF-COWL

Flue Assembly

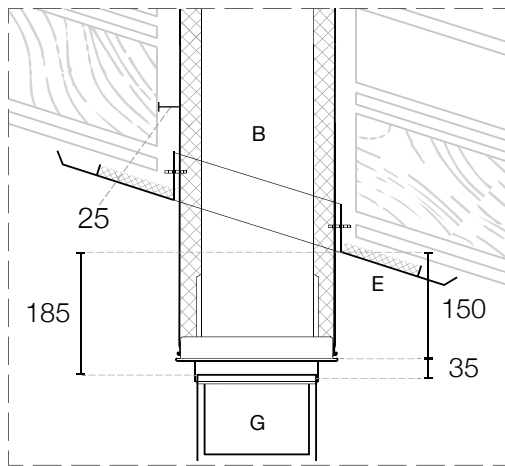


NOTE:
To assemble flue, first lock into place, second secure locking band around joint

Insulated Room Seal Flue Kit

Cathedral Ceiling 4m Flue Kit

Starter Length

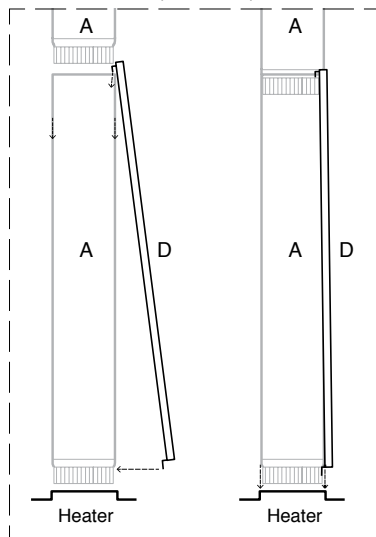


NOTE:
150mm single skin flue (A) must terminate 185mm from the ceiling (lowest point the flue passes through). The 200mm starter length (B) dropping 150mm into the room, with the tail dropping into the A flue
There is a 25mm clearance between the flue and any timber at all times

Ceiling Ring

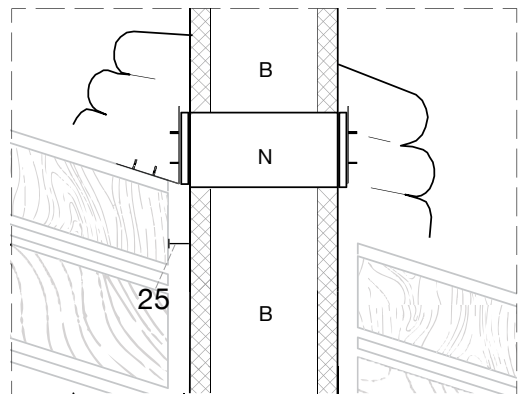
Ceiling Rings can adjust 8° +/-
RSF-CEILINGRING suits 0° to 8° pitch ceiling
RSF-15CEILINGRING suits 7° to 23° pitch ceiling
RSF-30CEILINGRING suits 22° to 38° pitch ceiling
RSF-45CEILINGRING suits 37° to 53° pitch ceiling

Heat Shield (side view)

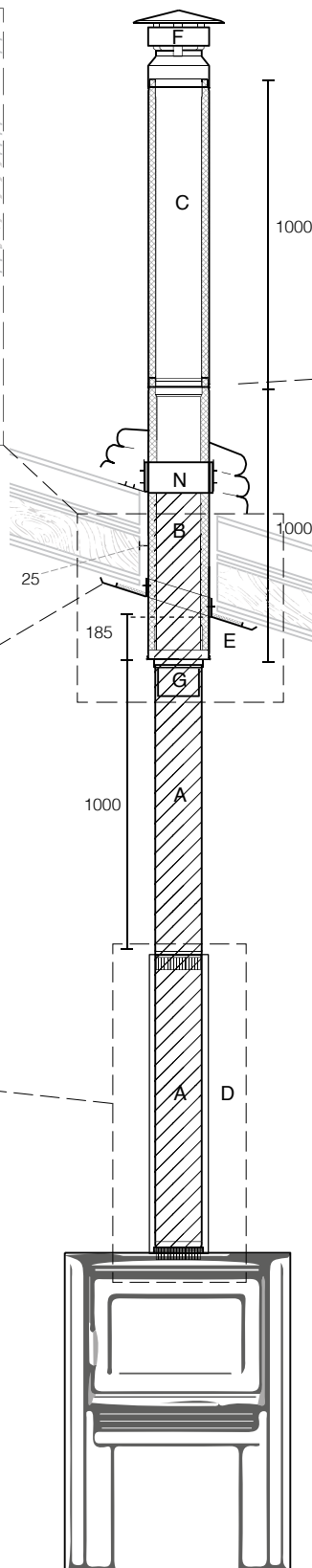


NOTE:
The heat shield should be positioned on the side of the flue that faces the nearest wall for additional protection

Optional Support Brace



NOTE:
The optional support brace (N) has the ability to adjust to any angle of adjacent roof beams
There is a 25mm clearance between the flue and any timber at all times

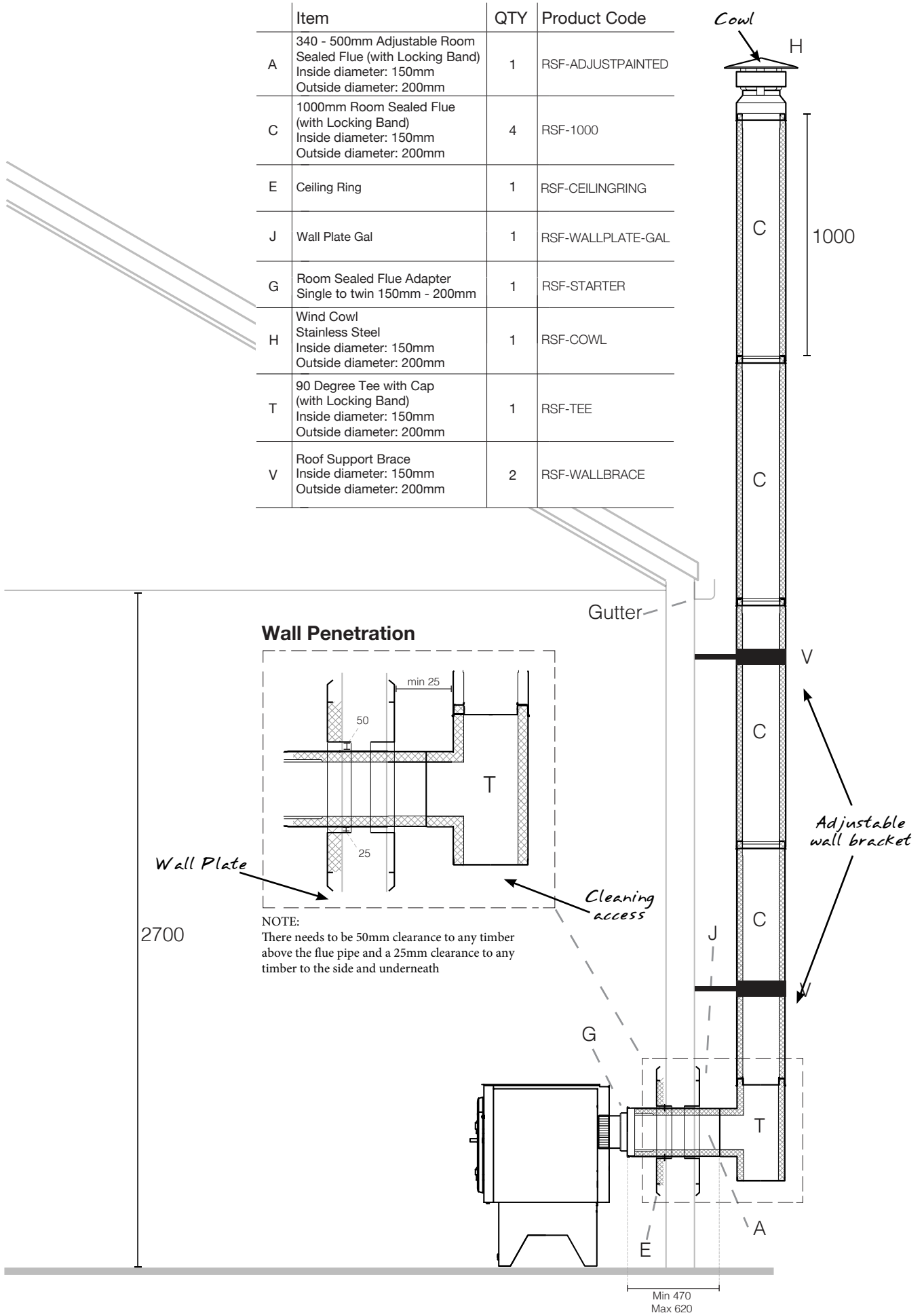


	Item	QTY	Product Code
A	1000mm 6" Single Skin Flue Painted black Diameter: 150mm	2	RSF-6PAINT
B	1000mm starter length, end painted for drop box Inside diameter: 150mm Outside diameter: 200mm	1	RSF-1000 Starter
C	1000mm Room Sealed Flue (with Locking Band) Inside diameter: 150mm Outside diameter: 200mm	1	RSF-1000
D	1000mm Heat Shield Black	1	RSF-SHIELD
E	Ceiling Ring SELECT ONE	1	RSF-CEILINGRING RSF-15CEILINGRING RSF-30CEILINGRING RSF-45CEILINGRING
F	Wind Cowl Stainless Steel Inside diameter: 150mm Outside diameter: 200mm	1	RSF-COWL
G	Room Sealed Flue Adapter Single to twin 150mm - 200mm	1	RSF-STARTER

Insulated Room Seal Flue Kit

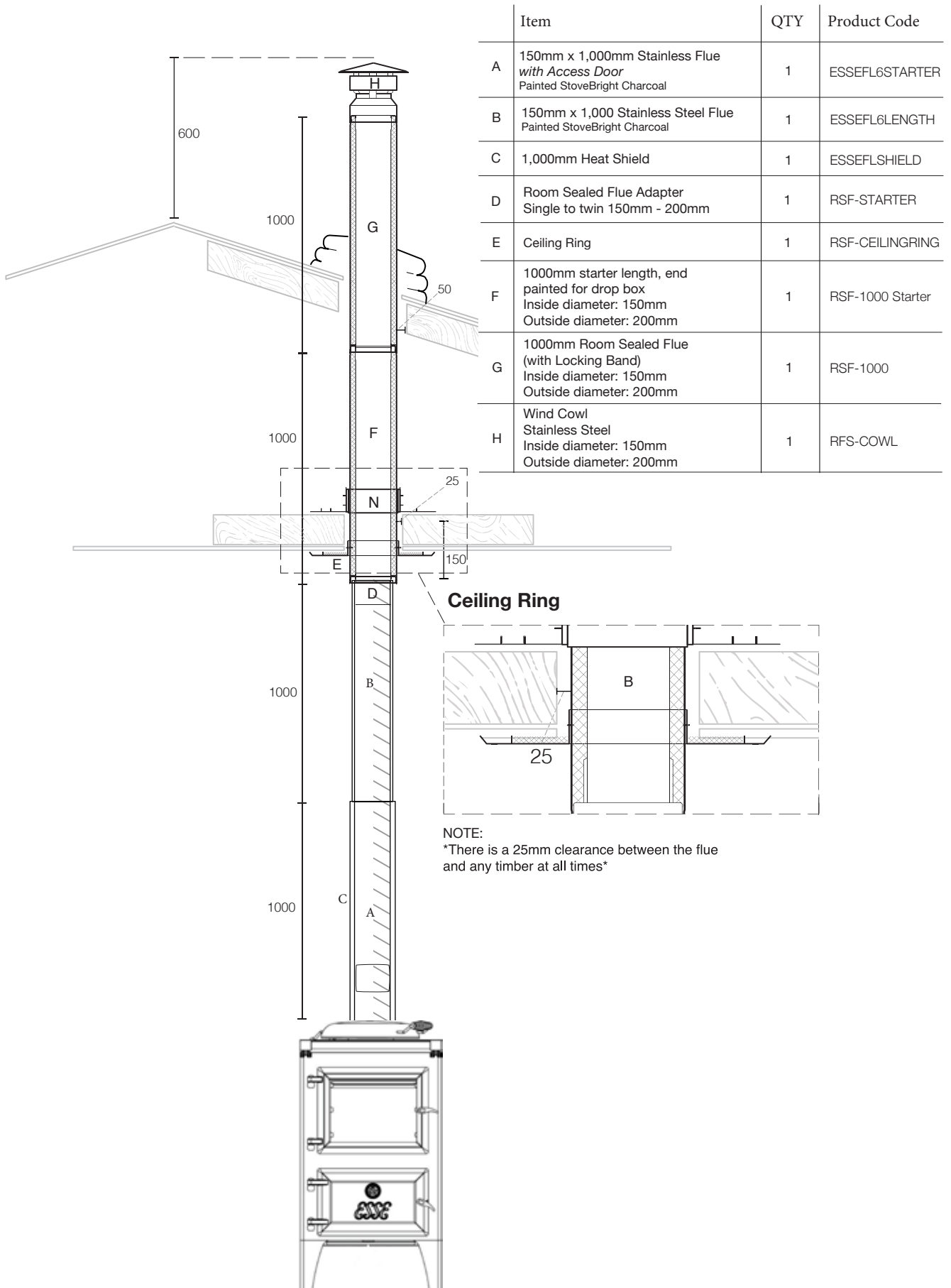
Rear Flue Kit

	Item	QTY	Product Code
A	340 - 500mm Adjustable Room Sealed Flue (with Locking Band) Inside diameter: 150mm Outside diameter: 200mm	1	RSF-ADJUSTPAINTED
C	1000mm Room Sealed Flue (with Locking Band) Inside diameter: 150mm Outside diameter: 200mm	4	RSF-1000
E	Ceiling Ring	1	RSF-CEILINGRING
J	Wall Plate Gal	1	RSF-WALLPLATE-GAL
G	Room Sealed Flue Adapter Single to twin 150mm - 200mm	1	RSF-STARTER
H	Wind Cowl Stainless Steel Inside diameter: 150mm Outside diameter: 200mm	1	RSF-COWL
T	90 Degree Tee with Cap (with Locking Band) Inside diameter: 150mm Outside diameter: 200mm	1	RSF-TEE
V	Roof Support Brace Inside diameter: 150mm Outside diameter: 200mm	2	RSF-WALLBRACE



Insulated Room Seal Flue Kit

ESSE and Room Seal Flue 4m Flue Kit

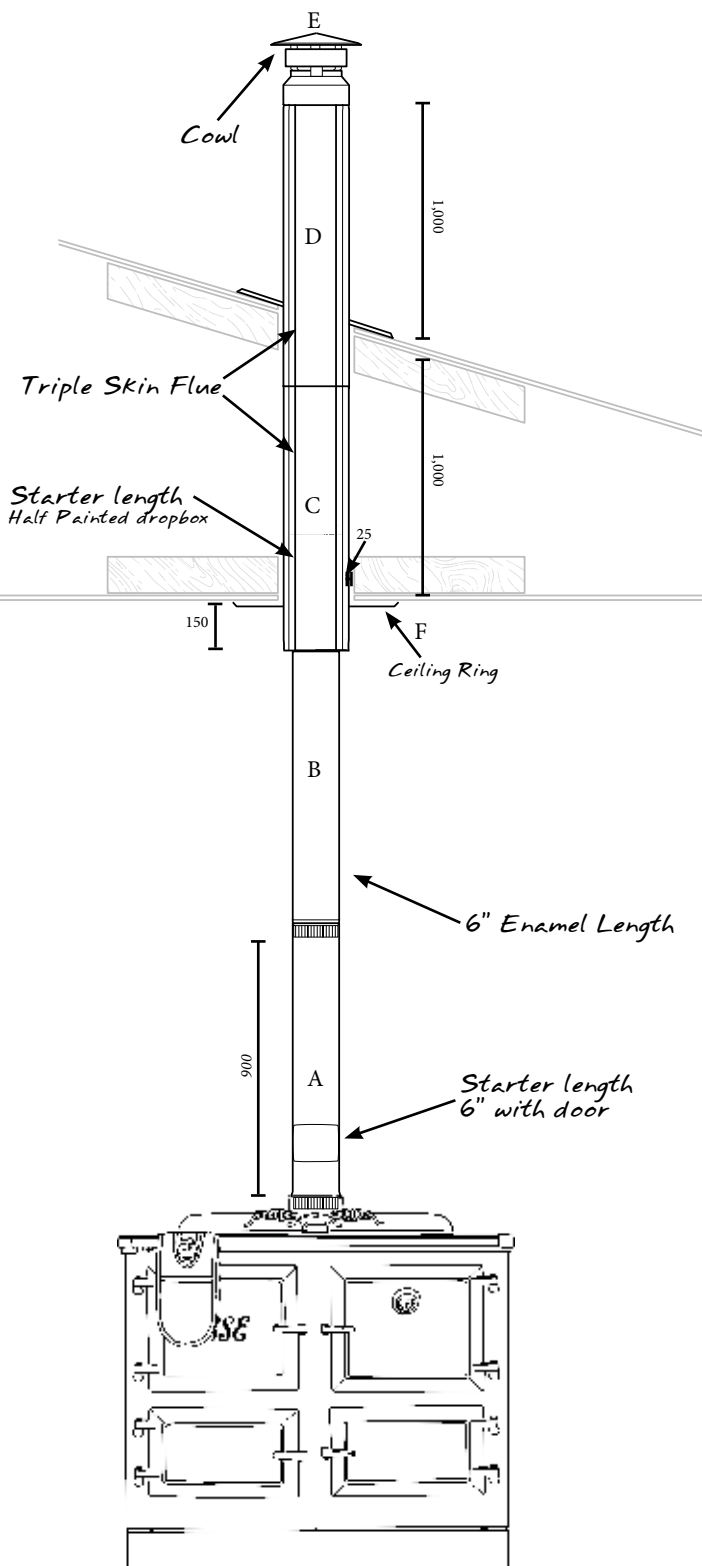


ESSE Enamel Flue Kit

Default Triple Skin Flue Kit
Air Cooled

Recommended for ESSE cookers with enameled top
Access door makes it easier for cleaning the flue

Item	QTY	Product Code	
A	1	FL6ENDoor	
B	1	FL6EN	
C	Triple skin starter length (dropbox)		
	250mm x 1,000mm Flue with Dropbox Ring <i>suit Enamel, painted StoveBright Metallic Black</i>	1	FL10DropBox10-61/4
	200mm x 1,000mm Galvanized Flue	1	FL8Gal
	150mm x 1,000mm Stainless Steel Flue	1	FL6SS
D	250mm x 1,000mm Galvanized Flue	1	FL10Gal
	200mm x 1,000mm Galvanized Flue	1	FL8Gal
	150mm x 1,000mm Stainless Steel Flue	1	FL6SS
E	1	FL6-10Cowl	
F	1	FLCR10Blk	



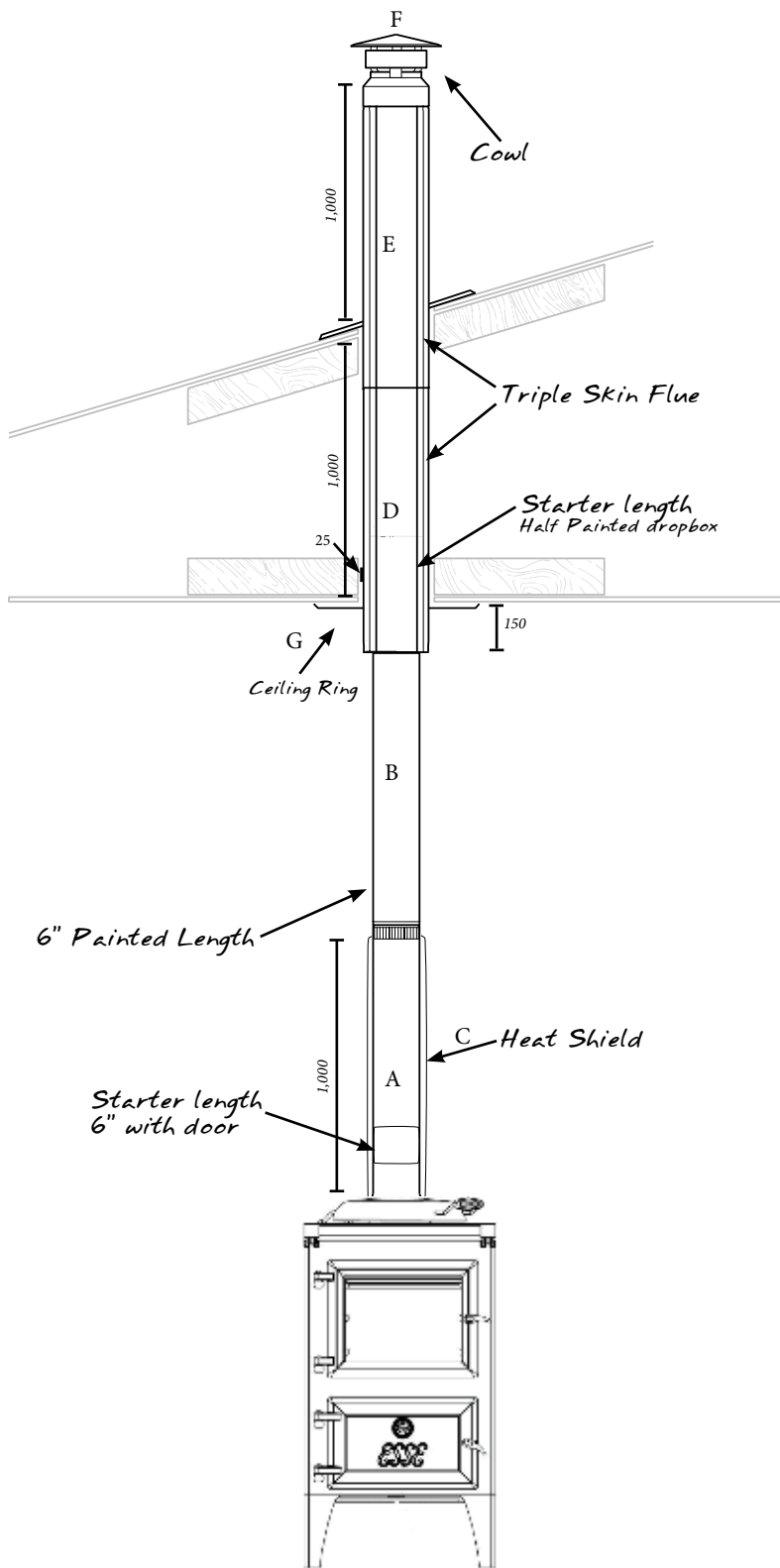
Single Items

150mm x 900mm Enamel Flue <i>with Access Door</i>	FL6ENDoor
150mm x 900mm Enamel Flue	FL6EN
150mm Enamel 45° Bend	FL6ENB45Mitred

ESSE Painted Flue Kit

Default Triple Skin Flue Kit
Air Cooled

Charcoal finish to match the ESSE Ironheart family
with painted top.
Access door makes it easier for cleaning the flue.



Item	QTY	Product Code
A	1	FL6CHWITHDOOR
B	1	FL6CHNODOOR
C	1	FLHEATSHIELD
D	1	FL10DropBox10-6
	1	FL8Gal
	1	FL6SS
E	1	FL8Gal
	1	FL6SS
	1	FL6-10Cowl
G	1	FLCR10Blk



Single Items

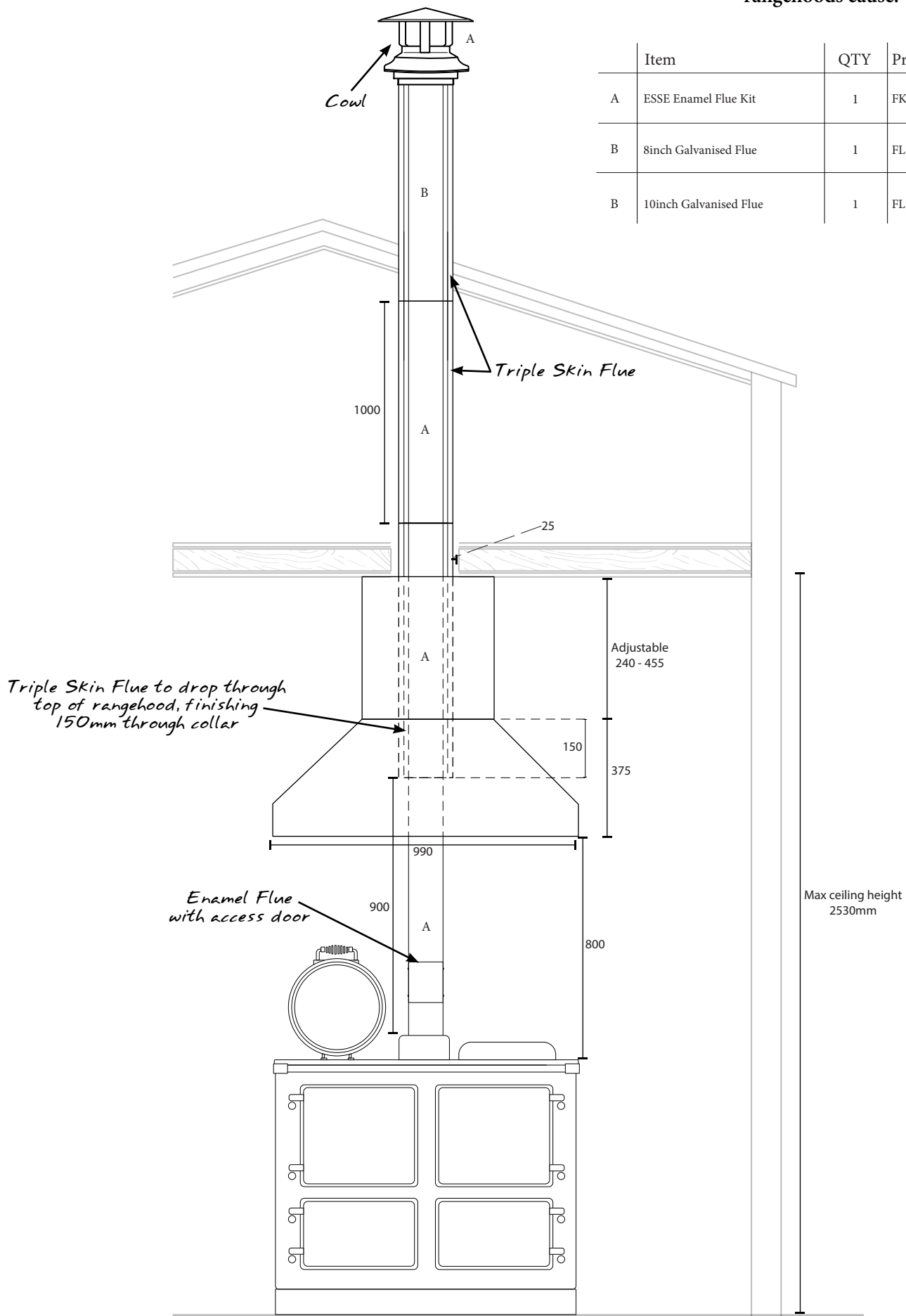
150mm x 1,000mm Stainless Flue with Access Door, Painted StoveBright Charcoal	FL6CHDOOR
150mm x 1,000 Stainless Steel Flue Painted StoveBright Charcoal	FL6CHNODOOR
1,000mm Heat Shield	FLHEATSHIELD

ESSE Rangehood

905 / 990 ESSE Rangehood Installation

ESSE Rangehoods are suitable for any ESSE Wood Stove.

These are a passive draught rangehood (no fan) to ensure no negative pressure that fan rangehoods cause.

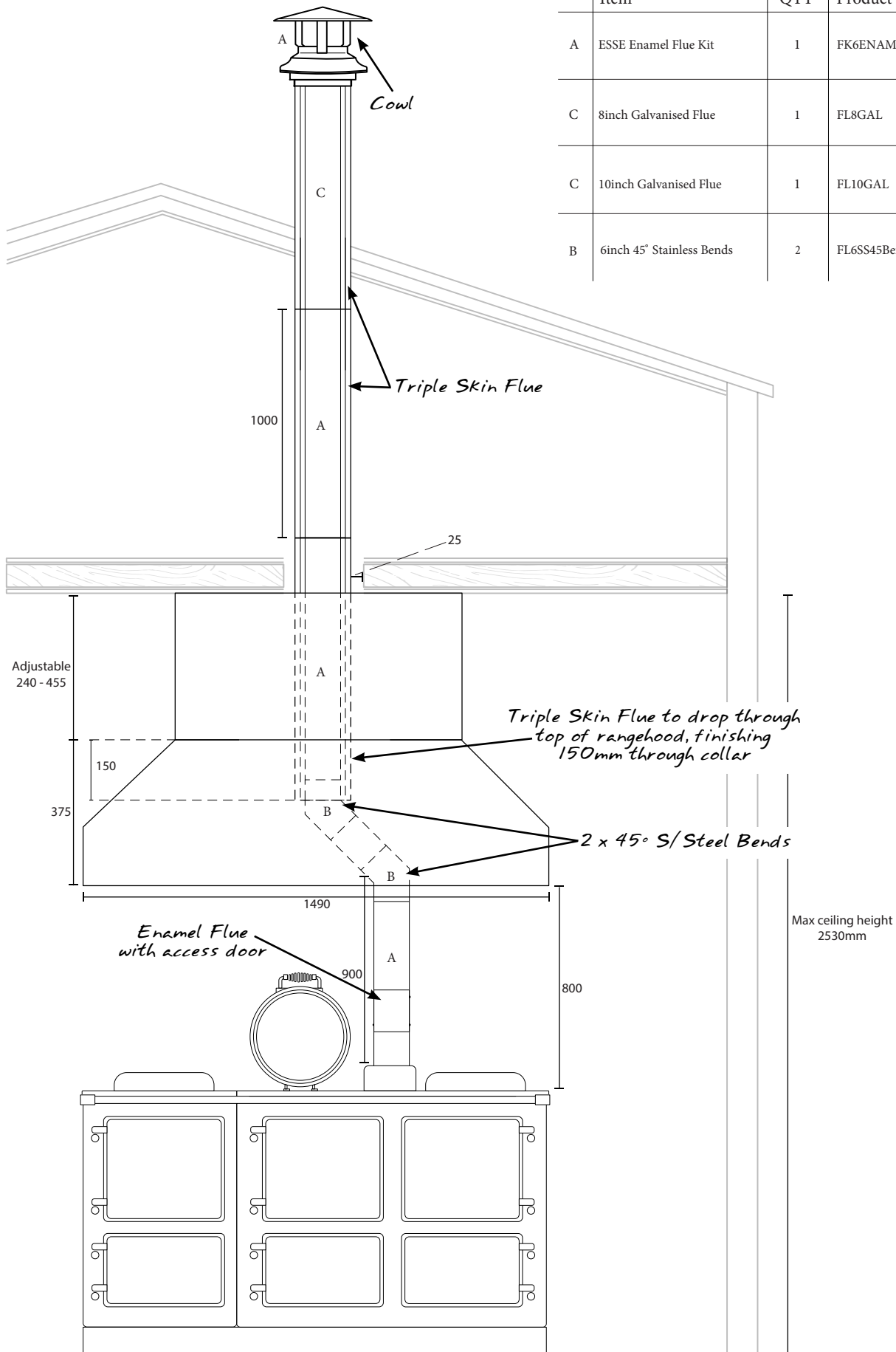


Item	QTY	Product Code
A ESSE Enamel Flue Kit	1	FK6ENAMEL
B 8inch Galvanised Flue	1	FL8GAL
B 10inch Galvanised Flue	1	FL10GAL

ESSE Rangehood

1405 / 1490 ESSE Rangehood Installation

Item	QTY	Product Code
A ESSE Enamel Flue Kit	1	FK6ENAMEL
C 8inch Galvanised Flue	1	FL8GAL
C 10inch Galvanised Flue	1	FL10GAL
B 6inch 45° Stainless Bends	2	FL6SS45Bend



Heat Shields & Hearths

Vitreous enamel



Solid Black



Off White Crackle

A range of vitreous enamel heat shields & hearths offer a unique functional finish that is striking and tactile.

Our luxurious vibrant glaze is heat proof, non-porous and stain resistant.



Black Splatter

Heat Shield

Vitreous enamel

The vitreous enamel panel features a dual skin that provides thermal protection and an effective convection system that distributes heat back into the room.

Using our rail mounted system included the heat shield is quick and easy to install and is beautifully finished in our luxurious glaze finish.

VLAZE heat shields comply to AS/NZs 2918:2018 / 3.1

To calculate the approved reduction the VLAZE heat shields offer:

Rear clearance x 0.2 = new clearance

(Example 900mm rear clearance x 0.2 = 180mm)

Size: 1050 x 1200mm



Hearths

The smooth gloss surface finish of a VLAZE Hearth create a clean, modern platform on which to stand your heater. An excellent alternative to glass or polished stone they can be used on their own or alongside our heat shields for a seamless floor to wall solution.

The hearth plates are available in 2 sizes to suit most stoves and boast a 12mm depth.

1050 x 1050mm

1200 x 1200mm

VLAZE

VITREOUS ENAMEL WALL MOUNTED HEATSHIELDS

INSTALLATION

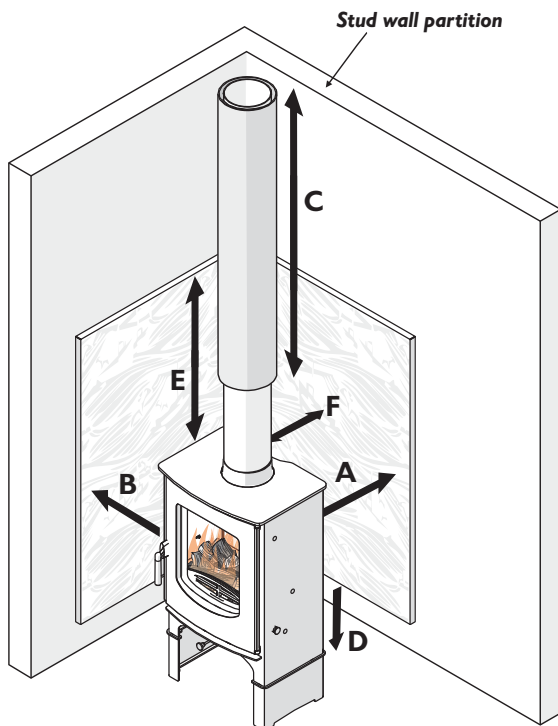
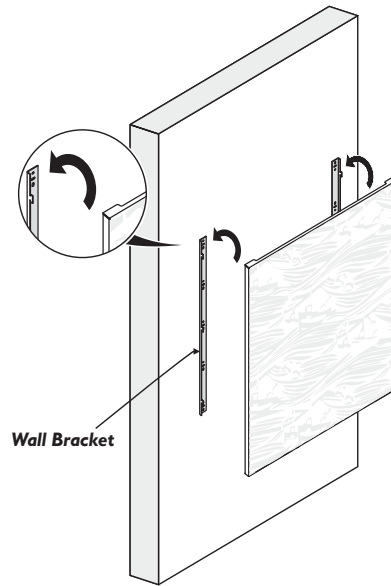
1. Screw wall brackets to the wall. See relevant drawing for setting out dimensions on the reverse page. These are given to the outside edge of the bracket.
2. Ensure the brackets are level and in line with each other, use slots for adjustment.
3. Holding the heat shield at the edges lift and drop onto the wall brackets. Ensure that the panel is the correct way up with the bottom of the panel having a greater gap.
4. Check the heat shield is seated correctly onto the wall brackets.

CLEANING AND HANDLING

Enamel surfaces must be treated as glass, with care and attention.

To clean enamel surfaces simply wipe over with a dry cloth or soft brush. Abrasive pads and scouring cleaners must not be used as these will damage the finish. Care should be taken not to knock the enamel with hard objects as it will chip.

Heat Shield Installation



SAFE DISTANCES

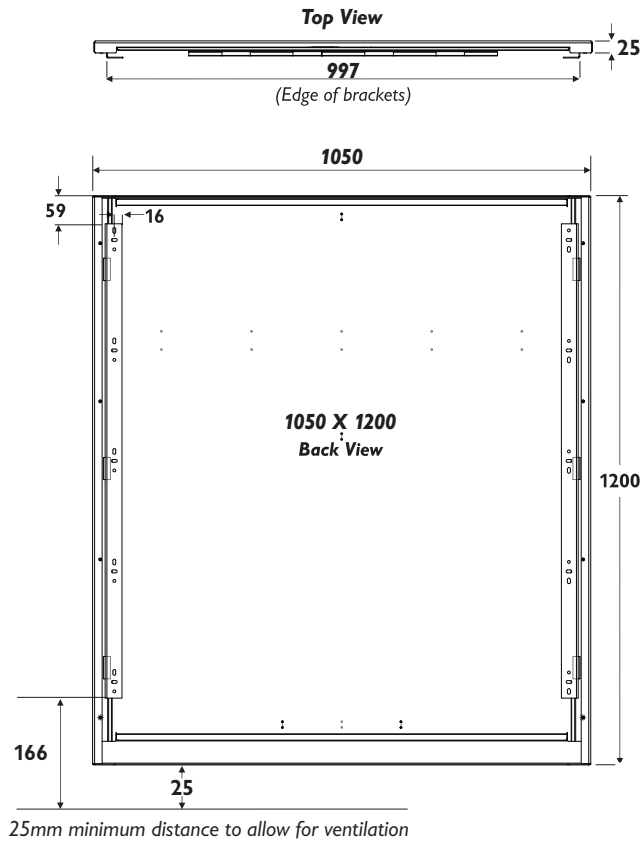
- A** VLAZE heat shields comply to AS/NZs 2918: 2018 - Table 3.1 : two spaced layers of continuous material ; factor 0.2
- To calculate the approved reduction the VLAZE heat shields offer:
- Rear clearance $\times 0.2 =$ new clearance
(Example 900mm rear clearance $\times 0.2 = 180$ mm)
- B** Heat shield must extend a minimum of 150mm each side of the appliance.
- C** Minimum of 425mm distance from start of chimney to ceiling.
- D** Minimum air gap of 25mm from bottom of hearth.
- E** Minimum of 300mm from top of the appliance to the top of the heatshield.
- F** Distance from uninsulated flue pipe to wall: $1.5 \times$ diameter of the flue pipe.

rev. 1. 07/20

VLAZE

VITREOUS ENAMEL WALL MOUNTED HEATSHIELDS

HEAT SHIELD DIMENSIONS

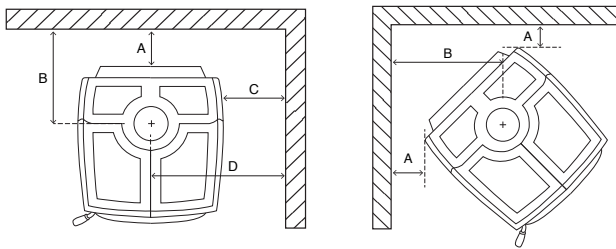


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Clearances



Alderlea T4

Standard Clearance

A	250
B	396
C	350
D	680

RSF Clearance

A	250
B	396
C	350
D	680

Corner Clearance

A	200
B	514

RSF Corner Clearance

A	200
B	514

Alderlea T5

Standard Clearance

A	100
B	357
C	375
D	692.5

RSF Clearance

A	100
B	357
C	375
D	692.5

Corner Clearance

A	200
B	787

RSF Corner Clearance

A	200
B	787

Alderlea T6

Standard Clearance

A	175
B	391
C	250
D	621.5

RSF Clearance

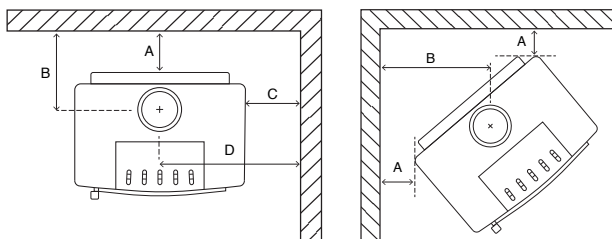
A	175
B	391
C	250
D	621.5

Corner Clearance

A	150
B	514

RSF Corner Clearance

A	150
B	514



Neo 1.6

Standard Clearance

A	120
B	272
C	250
D	595

RSF Clearance

A	120
B	272
C	250
D	595

Corner Clearance

A	150
B	455

RSF Corner Clearance

A	150
B	455

Neo 2.5

Standard Clearance

A	100
B	256
C	300
D	668.5

RSF Clearance

A	100
B	256
C	300
D	668.5

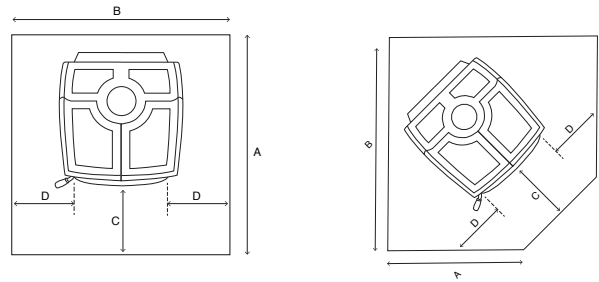
Corner Clearance

A	80
B	370

RSF Corner Clearance

A	80
B	370

Hearth Dimensions



Default Hearth

A	1000
B	718
C	300
D	200

RSF Flue Hearth

A	1000
B	718
C	300
D	200

Corner Hearth

B	1128
C	300
D	200

Default Hearth

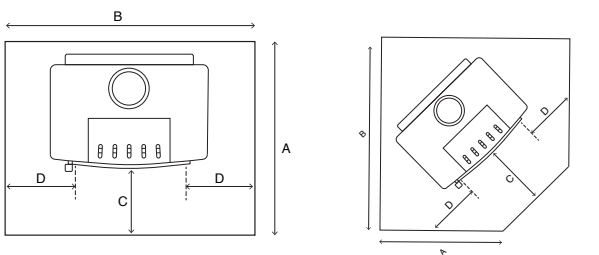
A	1040
B	826
C	300
D	200

RSF Flue Hearth

A	1040
B	826
C	300
D	200

Corner Hearth

B	1268
C	300
D	200



Default Hearth

A	862
B	840
C	300
D	200

RSF Flue Hearth

A	862
B	835
C	300
D	200

Corner Hearth

B	1148
C	300
D	200

Default Hearth

A	962
B	880
C	300
D	200

RSF Flue Hearth

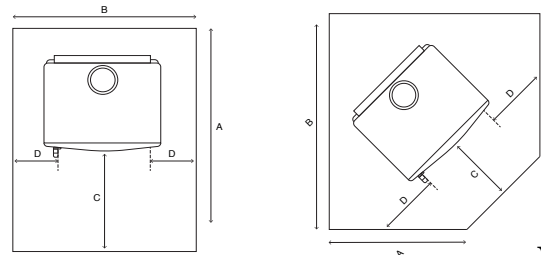
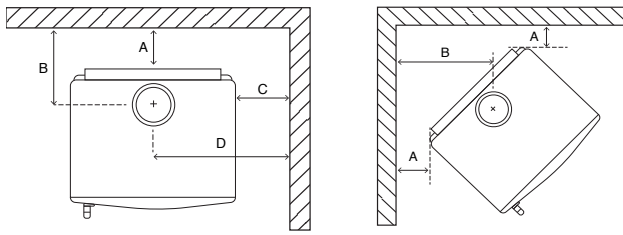
A	962
B	880
C	300
D	200

Corner Hearth

B	1224
C	300
D	200

Clearances

Hearth Dimensions



Vista

Standard Clearance

A	250
B	395
C	350
D	655
RSF Clearance	
A	250
B	395
C	350
D	655

Corner Clearance

A	200
B	706

RSF Corner Clearance

A	200
B	706

Default Hearth

A	862
B	775
C	300
D	200

RSF Flue Hearth

A	862
B	775
C	300
D	200

Corner Hearth

B	1128
C	300
D	200

Super

Standard Clearance

A	100
B	345
C	375
D	680
RSF Clearance	
A	100
B	345
C	375
D	680

Corner Clearance

A	200
B	778

RSF Corner Clearance

A	200
B	778

Default Hearth

A	1000
B	826
C	300
D	200

RSF Flue Hearth

A	1000
B	826
C	300
D	200

Corner Hearth

B	1268
C	300
D	200

Summit

Standard Clearance

A	175
B	391
C	250
D	574
RSF Clearance	
A	175
B	391
C	250
D	574

Corner Clearance

A	225
B	515

RSF Corner Clearance

A	225
B	515

Default Hearth

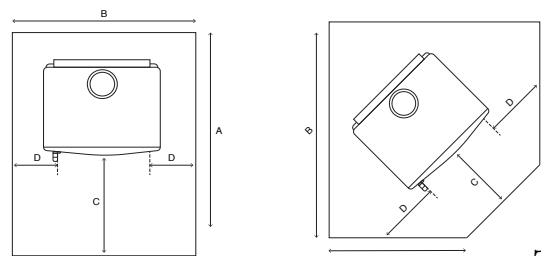
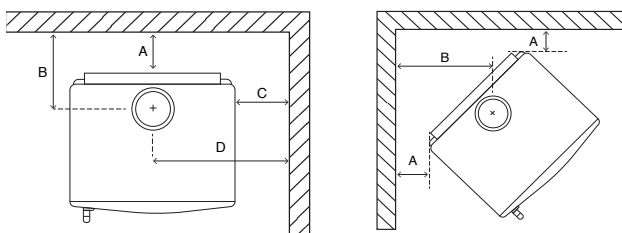
A	1072
B	875
C	300
D	200

RSF Flue Hearth

A	997
B	875
C	300
D	200

Corner Hearth

B	1295
C	300
D	200



TN10

Standard Clearance

A	150
B	287
C	175
D	446
RSF Clearance	
A	150
B	287
C	175
D	446

Corner Clearance

A	75
B	336

RSF Corner Clearance

A	75
B	336

Default Hearth

A	715
B	710
C	300
D	200

RSF Flue Hearth

A	715
B	710
C	300
D	200

Corner Hearth

B	938
C	300
D	200

TN20

Standard Clearance

A	150
B	312
C	300
D	572.5
RSF Clearance	
A	75
B	237

Corner Clearance

A	150
B	530

RSF Corner Clearance

A	150
B	530

Default Hearth

A	1055
B	710
C	300
D	200

RSF Flue Hearth

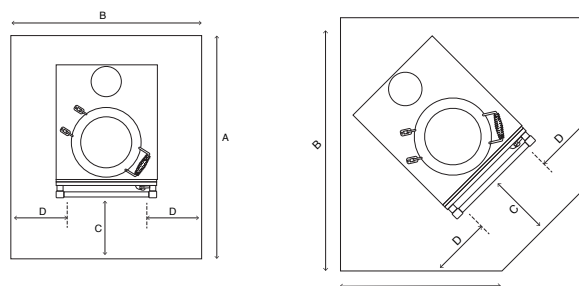
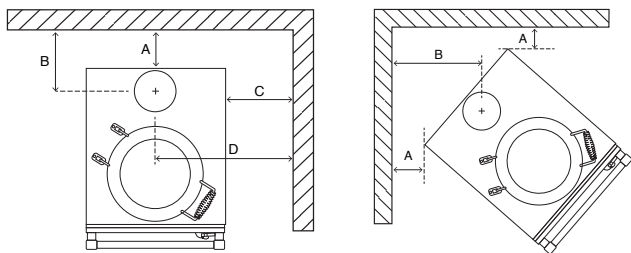
A	980
B	710
C	300
D	200

Corner Hearth

B	1172
C	300
D	200

Clearances

Hearth Dimensions



Warmheart / Bakeheart

Standard Clearance

A	225
B	310
C	325
D	575

Corner Clearance

A	175
---	-----

RSF Corner Clearance

A	175
---	-----

RSF Clearance

A	150
B	235
C	325
D	575

Default Hearth

A	1125
B	760
C	300
D	200

Corner Hearth

B	1165
C	300
D	200

RSF Flue Hearth

A	1050
B	760
C	300
D	200

ESSE 700

Standard Clearance

A	350
B	464
C	400
D	671.5

Corner Clearance

A	275
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RSF Corner Clearance

A	275
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RSF Clearance

A	200
B	314
C	400
D	314

Default Hearth

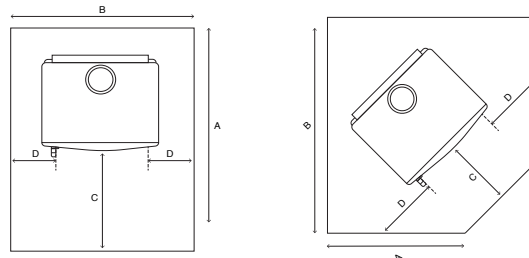
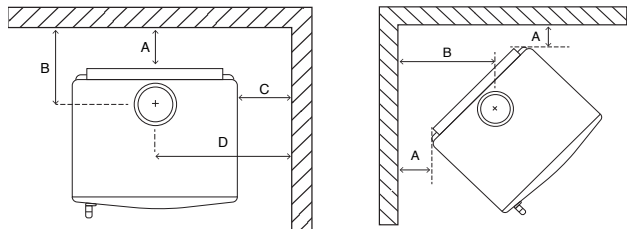
A	1032
B	820
C	300
D	200

Corner Hearth

B	1141
C	300
D	200

RSF Flue Hearth

A	882
B	820
C	300
D	200



Yunca Monte

Standard Clearance

A	200
B	368
C	350
D	681.5

Corner Clearance

A	200
B	520

RSF Corner Clearance

A	200
B	520

RSF Clearance

A	100
B	268
C	
D	

Default Hearth

A	1030
B	870
C	300
D	200

Corner Hearth

B	1278
C	300
D	200

RSF Flue Hearth

A	930
B	870
C	300
D	200

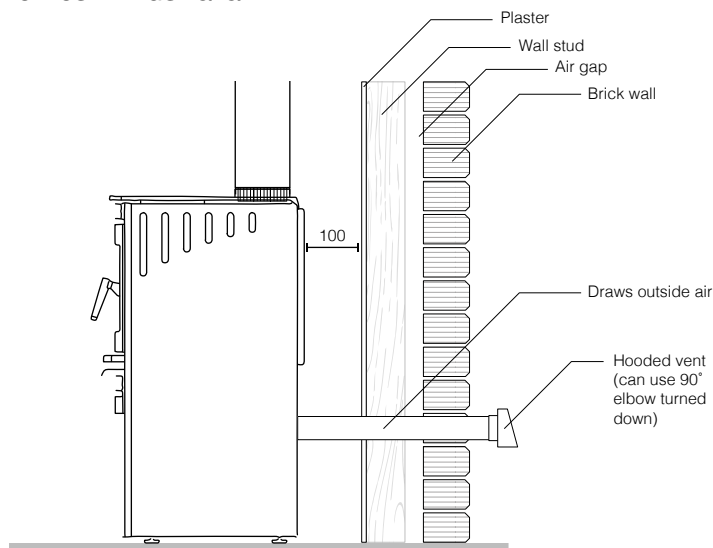
Outside Air

In a highly efficient home or an airtight house, external air supply to any wood burning appliance is required.

In older homes, adding an external air supply to your wood burning appliance will significantly reduce draughts in your home.

The average wood heater uses about 250ltrs of air every hour to fuel the fire.

Outside air for your wood heater is common in the UK and Canada - and now required for high efficient homes in Australia.



A pipe connecting the air intake on the back of your wood heater to outside will bring in all the combustion air your wood heater requires.

The pipe diameter will depend on the wood heater.



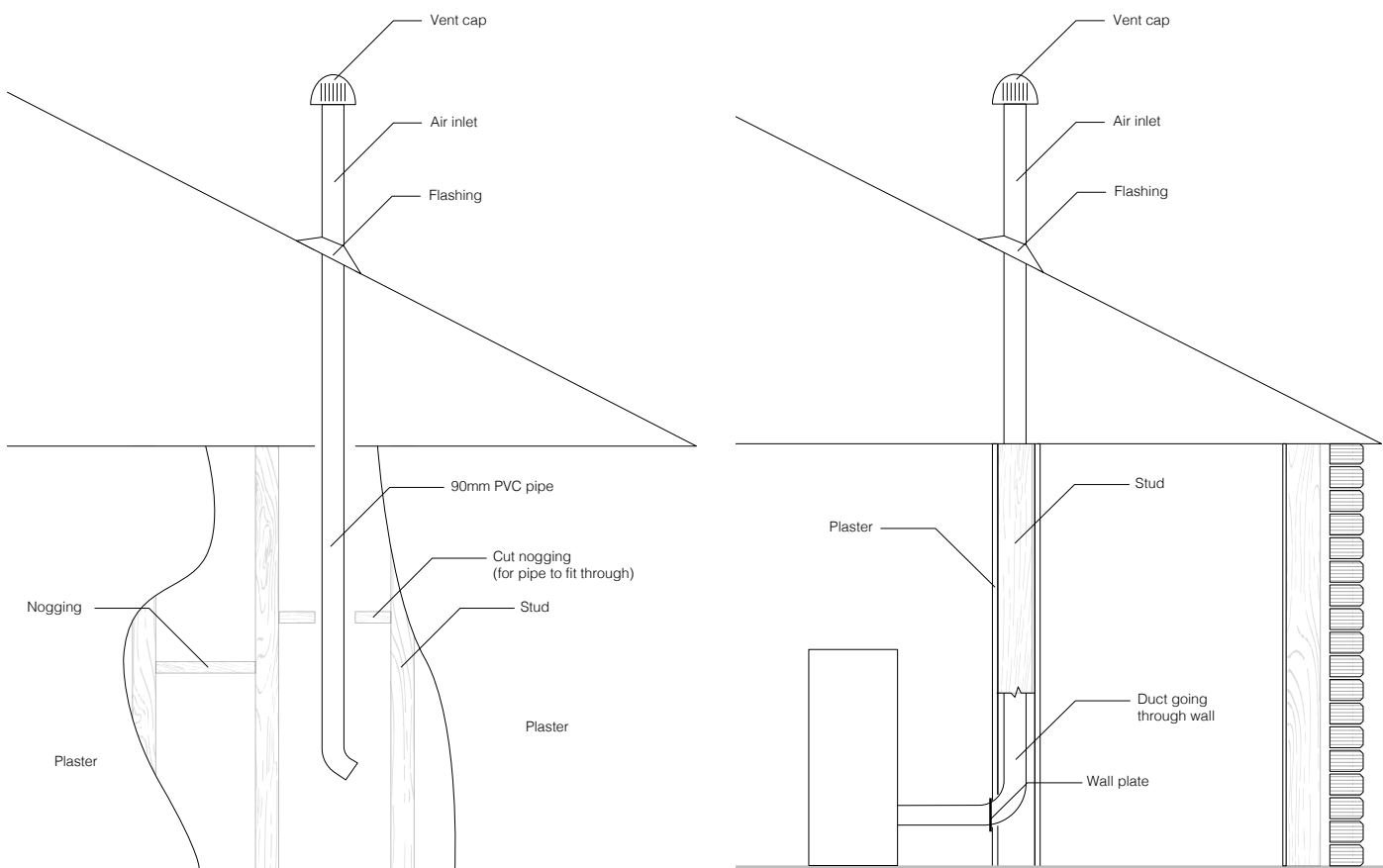
Use 100mm pipe / can reduce to 90mm if going vertical



Use 75mm pipe

Install notes:

- Pipe can be made from aluminium / steel / HDPE / PVC.
- Venting to the outside; ensure the pipe has a rain cap to prevent water entering (and vermin proof to prevent anything crawling in)



If installing into an internal wall, reduce pipe to 90mm and run vent pipe within the wall cavity

Hot Water

Centra Coil

Note: If your wood stove/heater has a hot water jacket fitted; it **MUST** be connected to a hot water tank. NEVER run any wood stove or heater that has a hot water jacket fitted without it connected and commissioned to a hot water system first.

The flow and return pipes from the wood stove/heater **MUST** have a rise at all time.

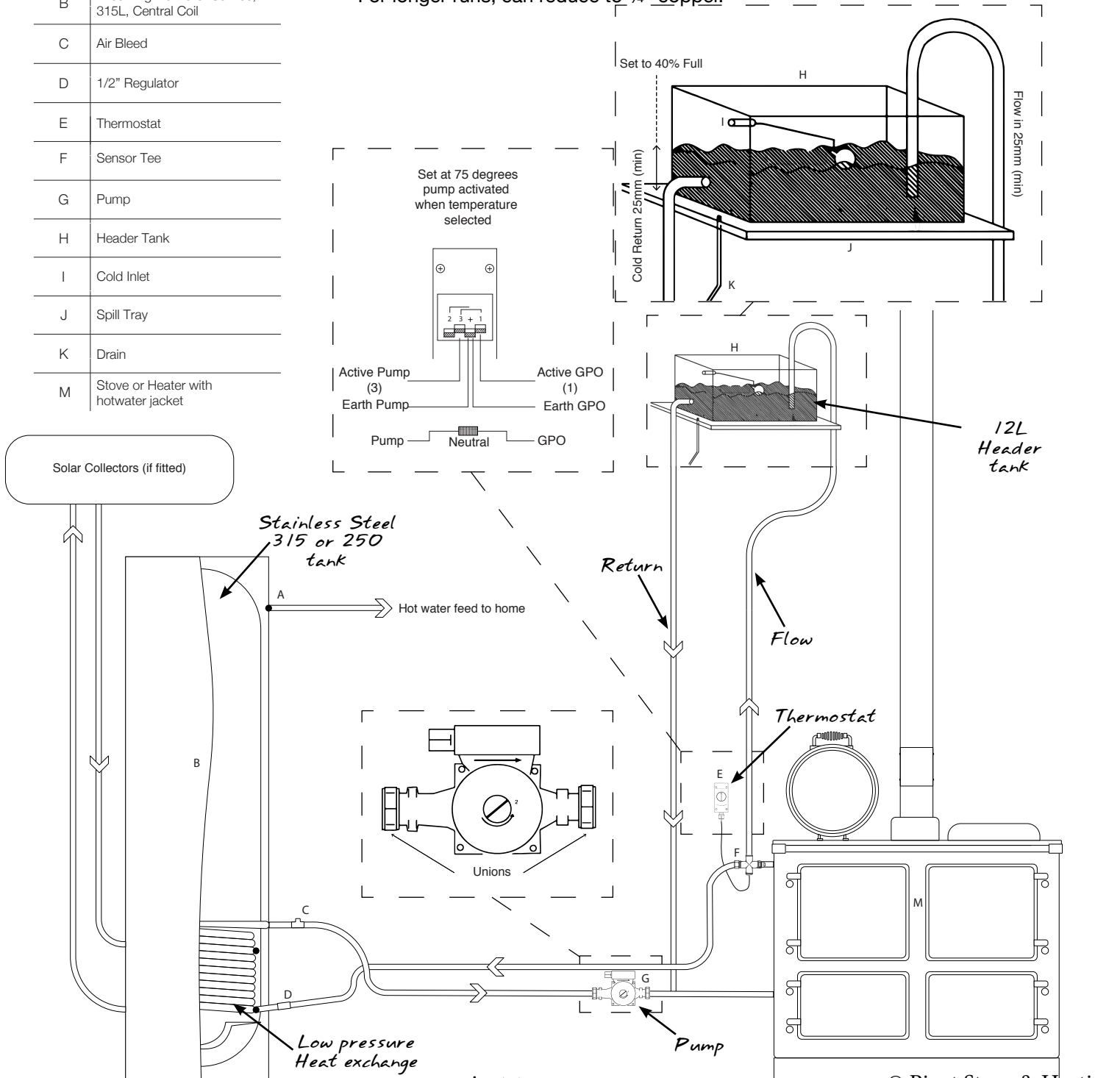
- Pipes are never to be level.
- Pipes are never to fall backwards.
- Never have any sharp angles or change of directions – use sweep bends.

Connecting the flow and return pipes to your wood stove/heater: it is recommended to use Hemp and Paste to seal the pipes to the hot water jacket.

Recommend to insulate the flow and return pipes with Armaflex pipe insulation.

Item	
A	Hot water for home
B	Wiseliving Hotwater Service, 315L, Central Coil
C	Air Bleed
D	1/2" Regulator
E	Thermostat
F	Sensor Tee
G	Pump
H	Header Tank
I	Cold Inlet
J	Spill Tray
K	Drain
M	Stove or Heater with hotwater jacket

- For short flow and return runs (under 3mtrs) recommend to use 1" copper pipe
 - For longer runs, can reduce to 3/4" copper.



Hot Water

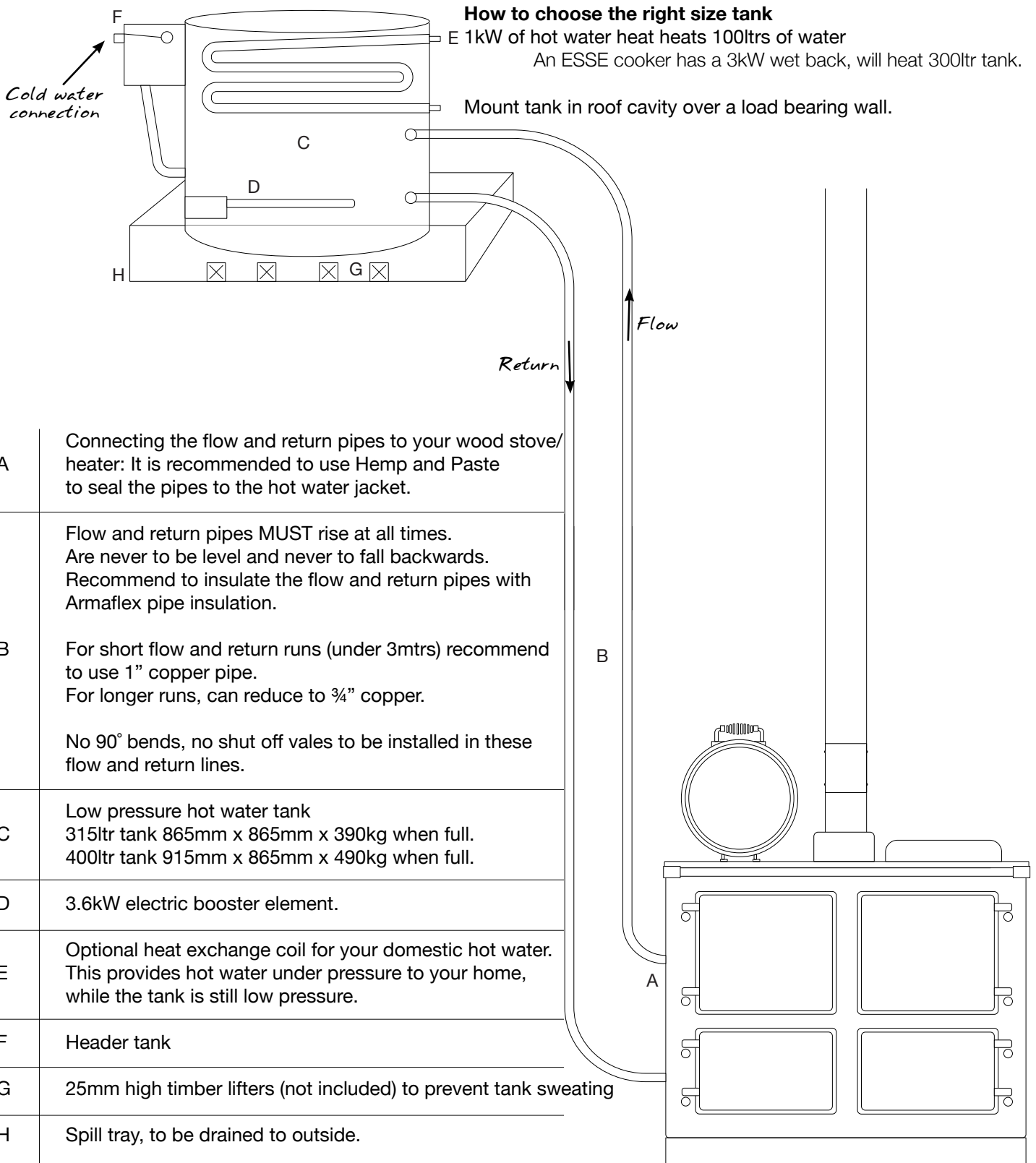
Low Pressure

Note:

If your wood stove/heater has a hot water jacket fitted; it **MUST** be connected to a hot water tank. NEVER run any hot water jacket dry.

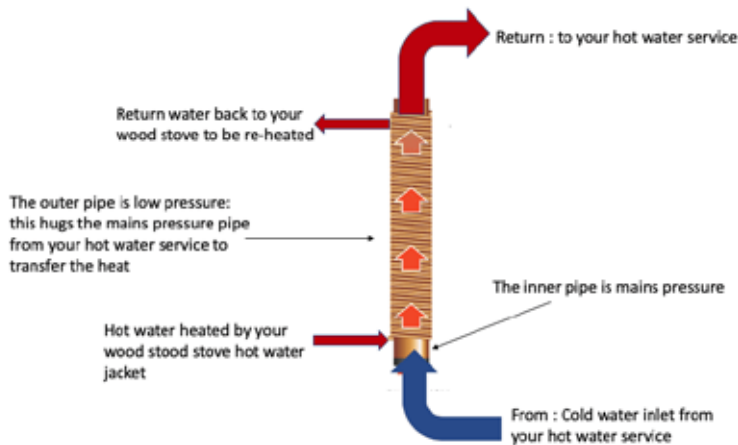
Low pressure hot water systems work on gravity. The higher the tank is mounted, the better the hot water pressure.

An optional (E) heat exchange allows your hot water supply to be at pressure while leaving your wood heater or stove still operating at a low pressure.



Hot Water

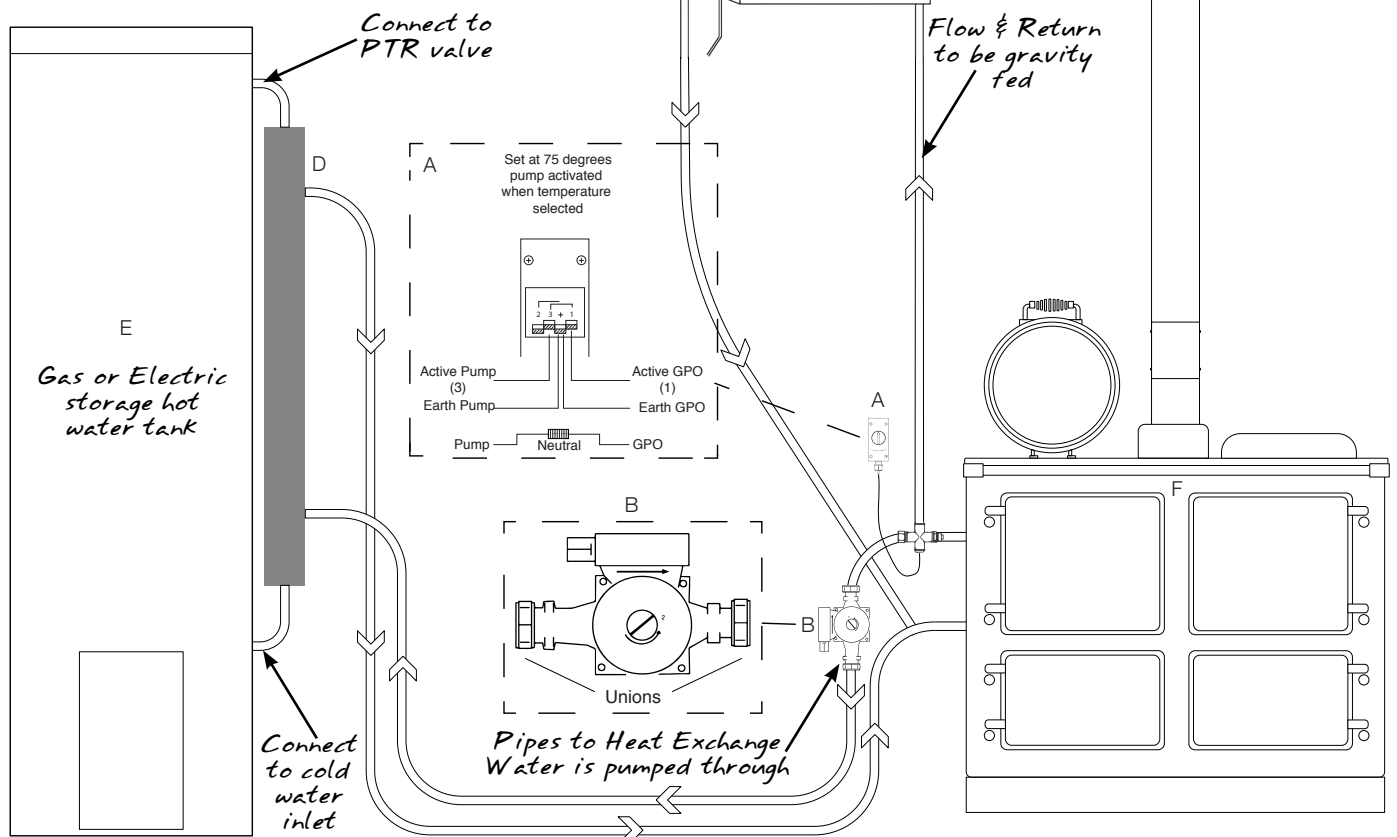
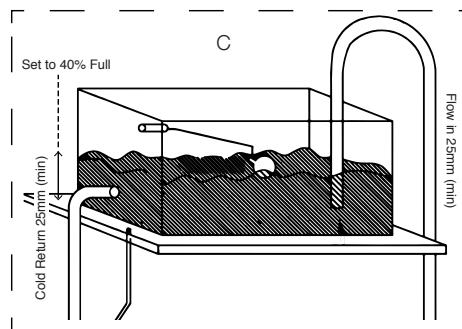
Mains Pressure



Using a **hot water heat exchange**, you can connect any wood stove / heater with a hot water jacket to an existing mains pressure storage hot water tank.

This heat exchange can be fitted to any brand hot water service and will work with Electric Storage, Gas Storage and Solar Storage Systems.

Item	
A	Pipe Thermostat
B	Pump
C	12L Header Tank
D	Heat Exchange
E	Hot Water Storage
F	Stove or Heater with hotwater jacket



Wood Heater Install Handbook
V1.2 2020

Information herein complies with AS / NZS 2918:2018
and is correct at the time of printing.

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