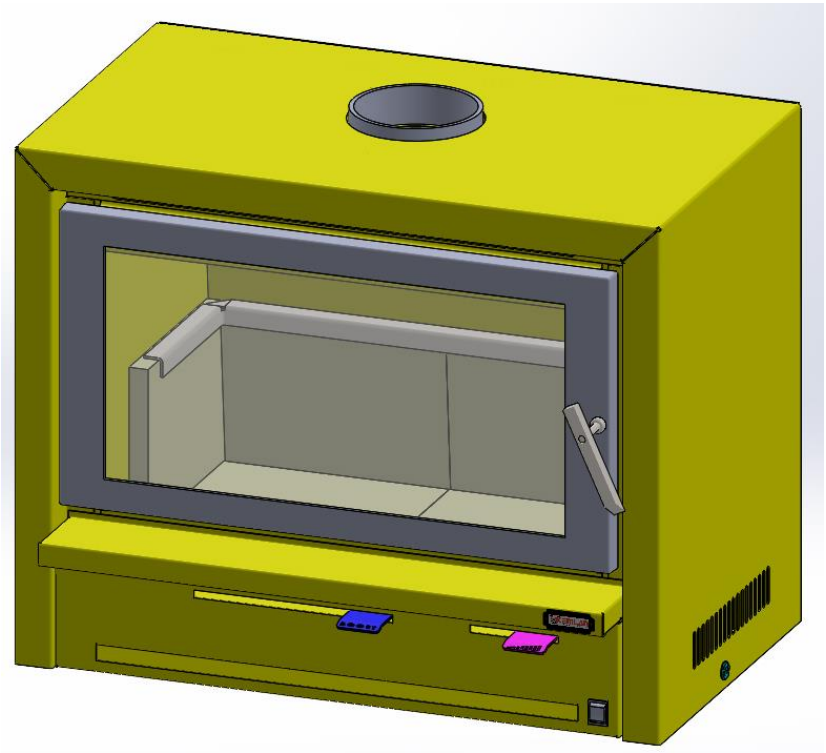
KEMLAN
ESTABLISHED 1969

Specialists in fireplace design and manufacture

HALO 800 SOFTWOOD

INSTALLATION & OPERATING INSTRUCTIONS



IMPORTANT:

INSTALLER, PLEASE LEAVE THESE INSTRUCTIONS WITH THE UNIT ON COMPLETION.

10 YEAR FIREBOX WARRANTY

The firebox is covered by a 10 year warranty.
Other parts are covered by a one year limited warranty.

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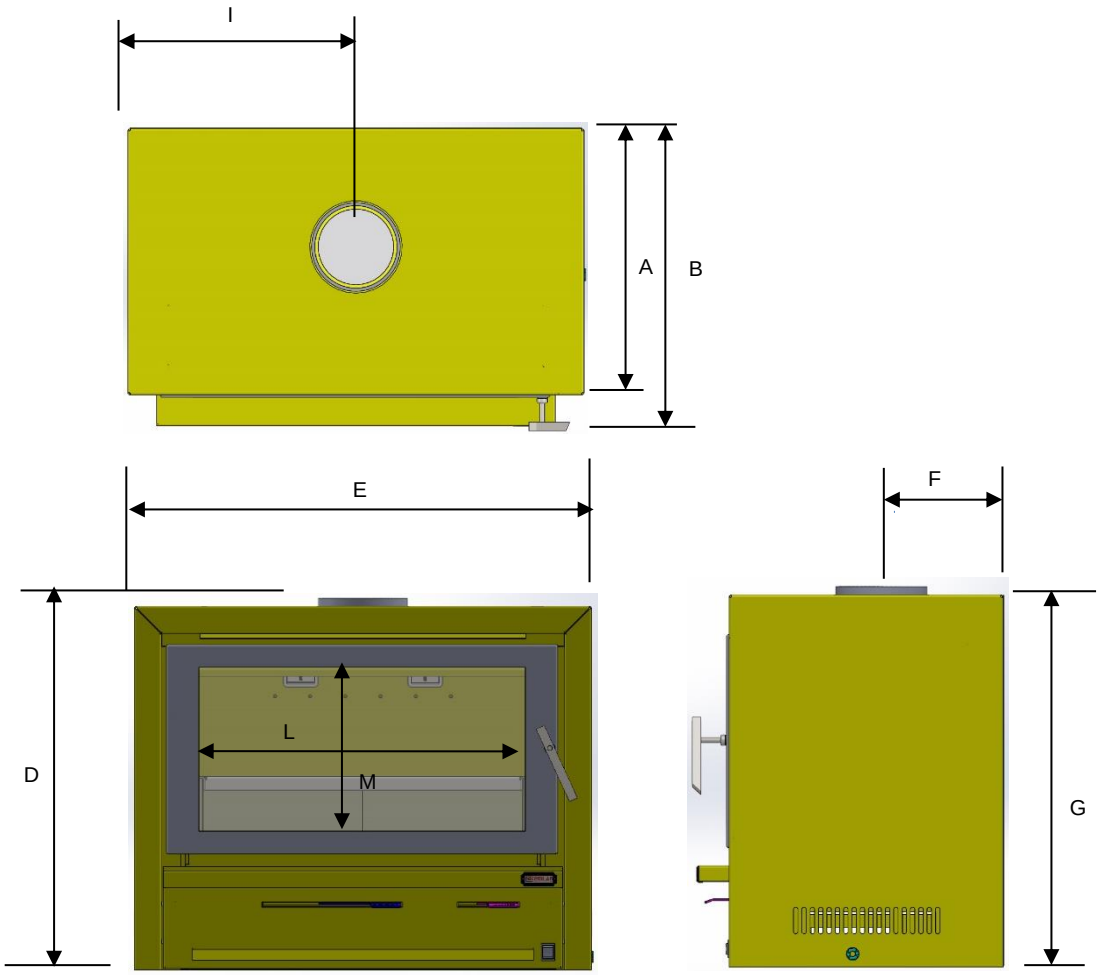
Email: - sales@jetmaster.com.au

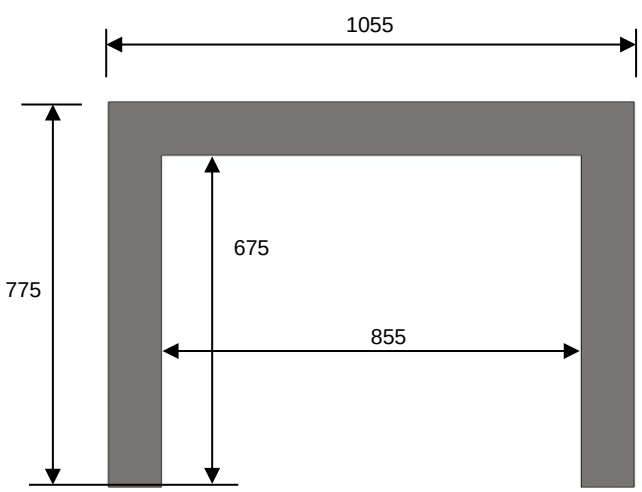
DIMENSIONS

HALO 800 SOFTWOOD

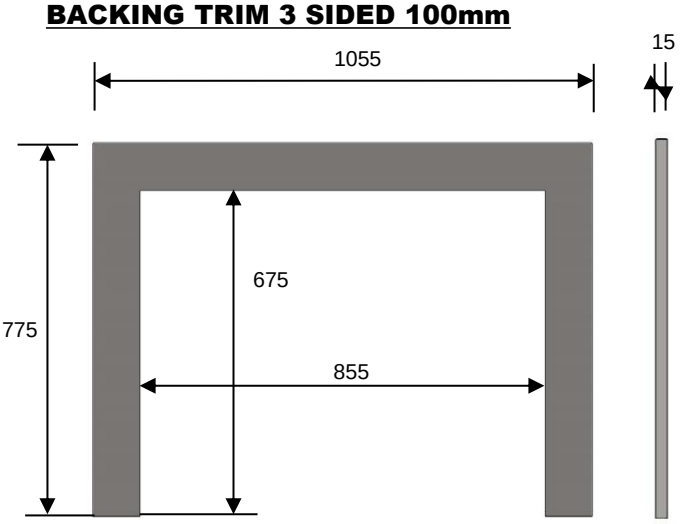


DESC.	MODEL	A	B	D	E	F	G	I	L	M
HALO 800	WALL INSERT	493	551	685	845	220	670	422.5	603	302

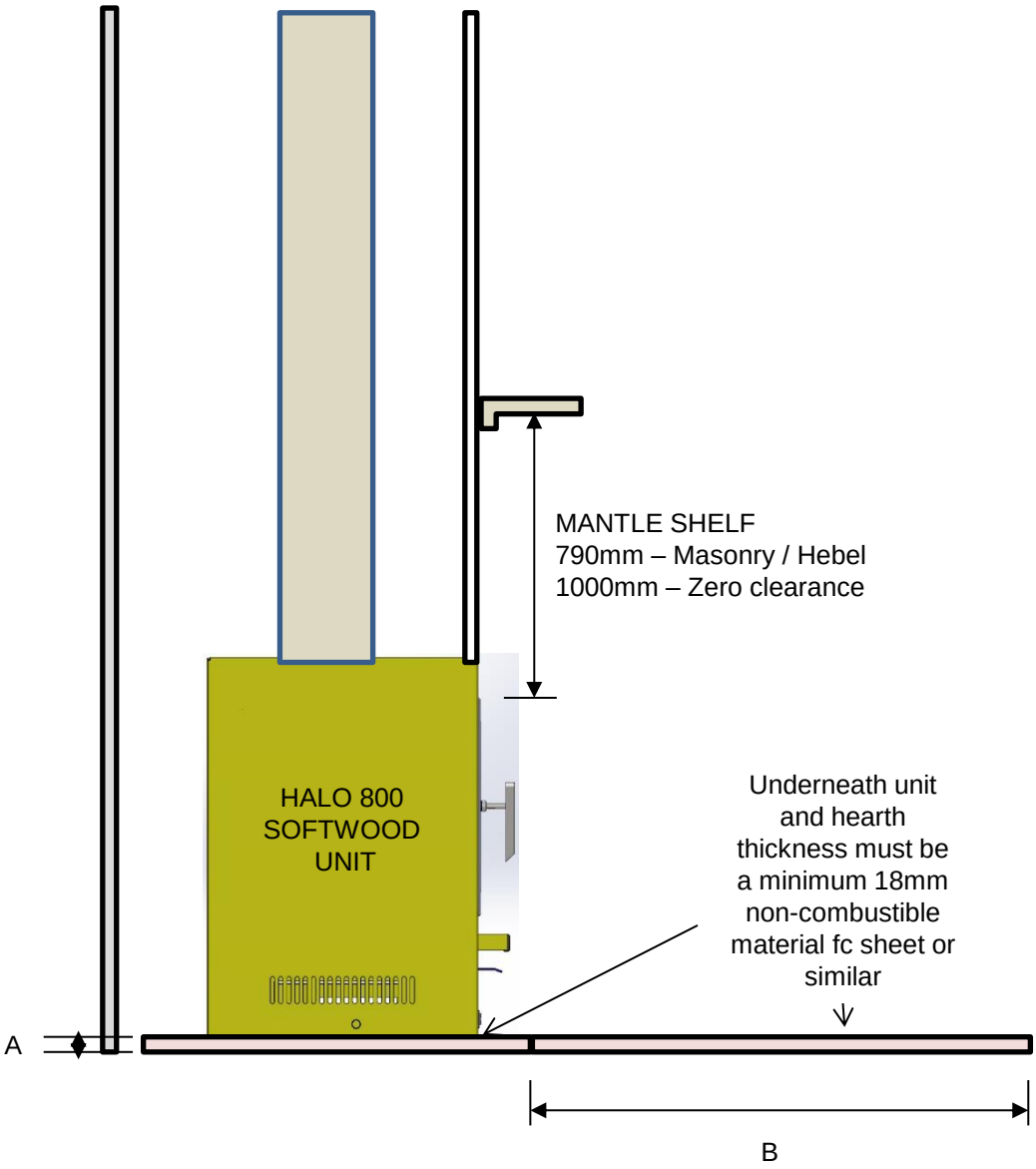
FLAT TRIM 3 SIDED 100mm



BACKING TRIM 3 SIDED 100mm

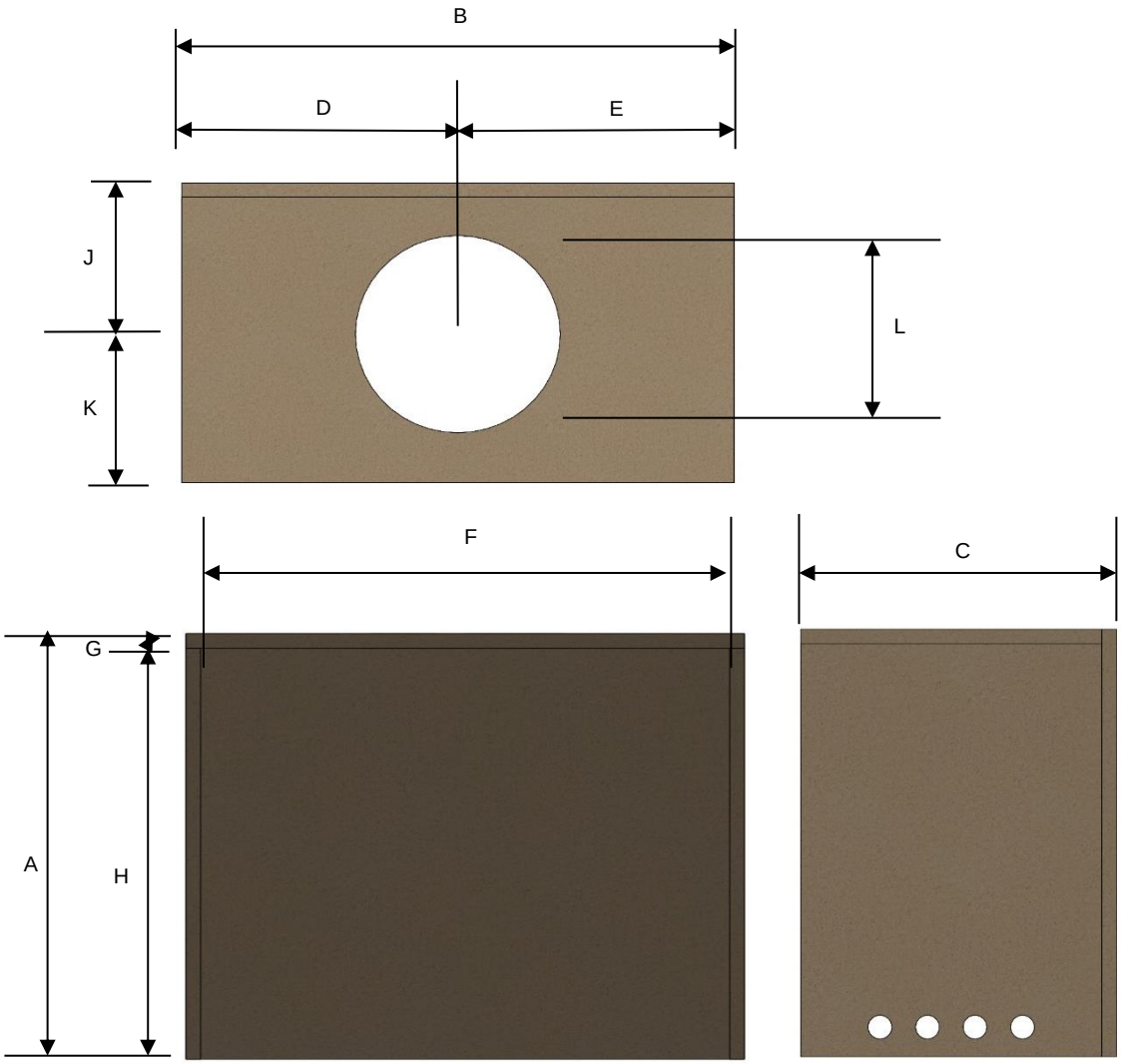


HALO 800 SOFTWOOD
HEARTH MEASUREMENT AND
COMBUSTIBLE MANTLE CLEARANCE



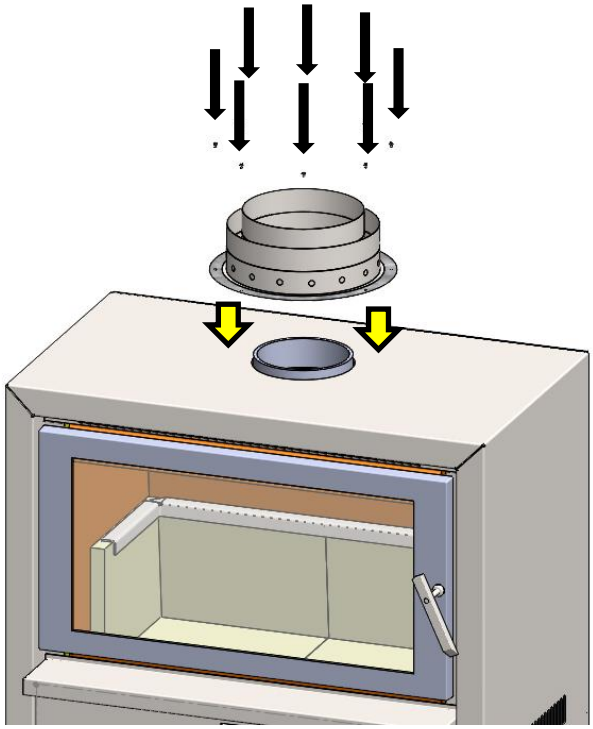
A.	UNIT HEIGHT ABOVE FLOOR (mm)	18	50	100	200	300	400
B.	HEARTH DIMENSION FORWARD OF UNIT (mm)	500	500	490	460	400	300

HALO 800 SOFTWOOD DIMENSIONS FOR PYROTECH BOARD ZERO CLEARANCE BOX AND CLEARANCES

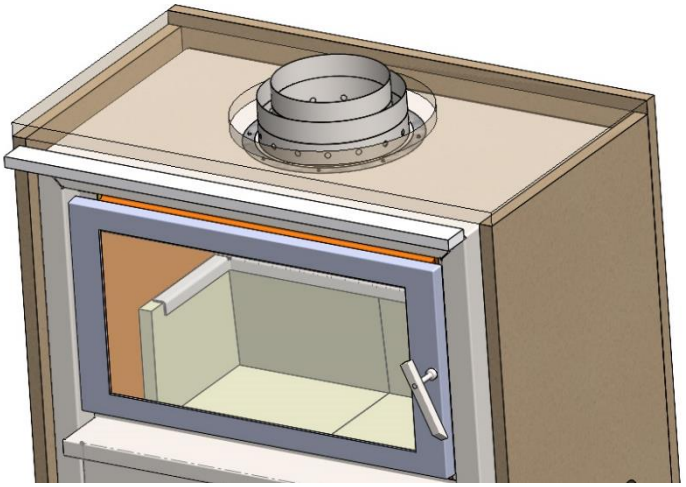


	A	B	C	D	E	F	G	H	J	K	L
HALO 800	720	944	532	472	472	894	25	695	268.5	263.5	350

HALO 800 8” - 10” SPIGOT ASSEMBLY INSTRUCTION



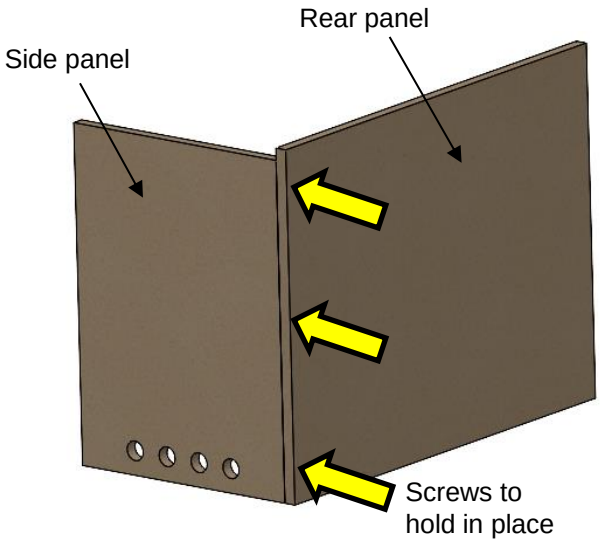
The 8” – 10” spigot will need to be fixed to the top of the appliance using the supplied Tek screws. Make sure the spigot is centrally located to the 6” active flue.



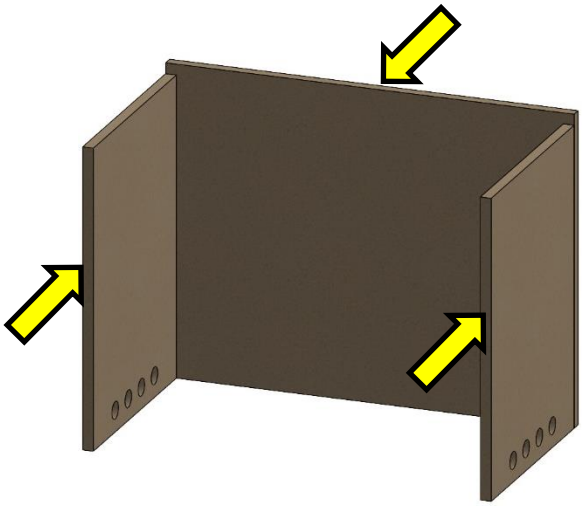
When using the 25mm zero clearance box, as an option, the 8” – 10” spigot can be installed on the appliance when the assembly is completed (space permitting). Otherwise refer to the default spigot assembly.

HALO 800 SOFTWOOD
ZERO CLEARANCE BOX ASSEMBLY INSTRUCTION

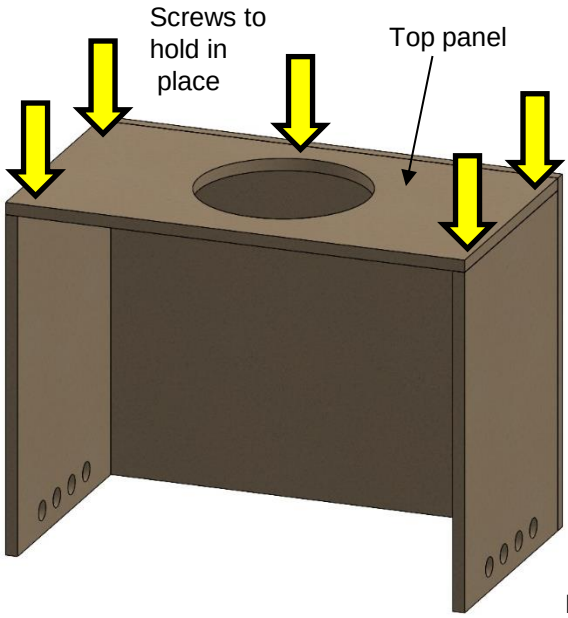
NOTE: Pre-drill holes prior to the assembly of boards.



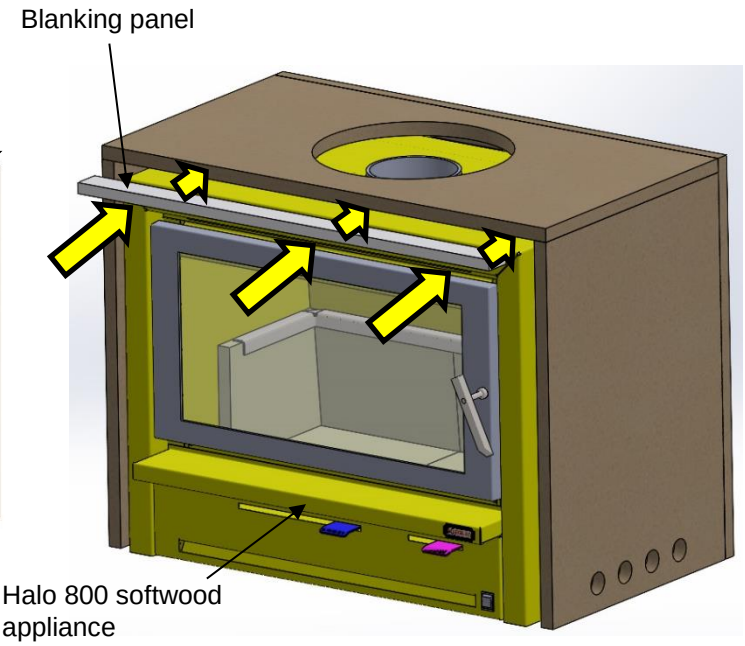
1. Align the edge of the rear panel to the face of the side panel. Use the supplied screws and fix the panels into place.



2. Repeat the process for the other side panel.

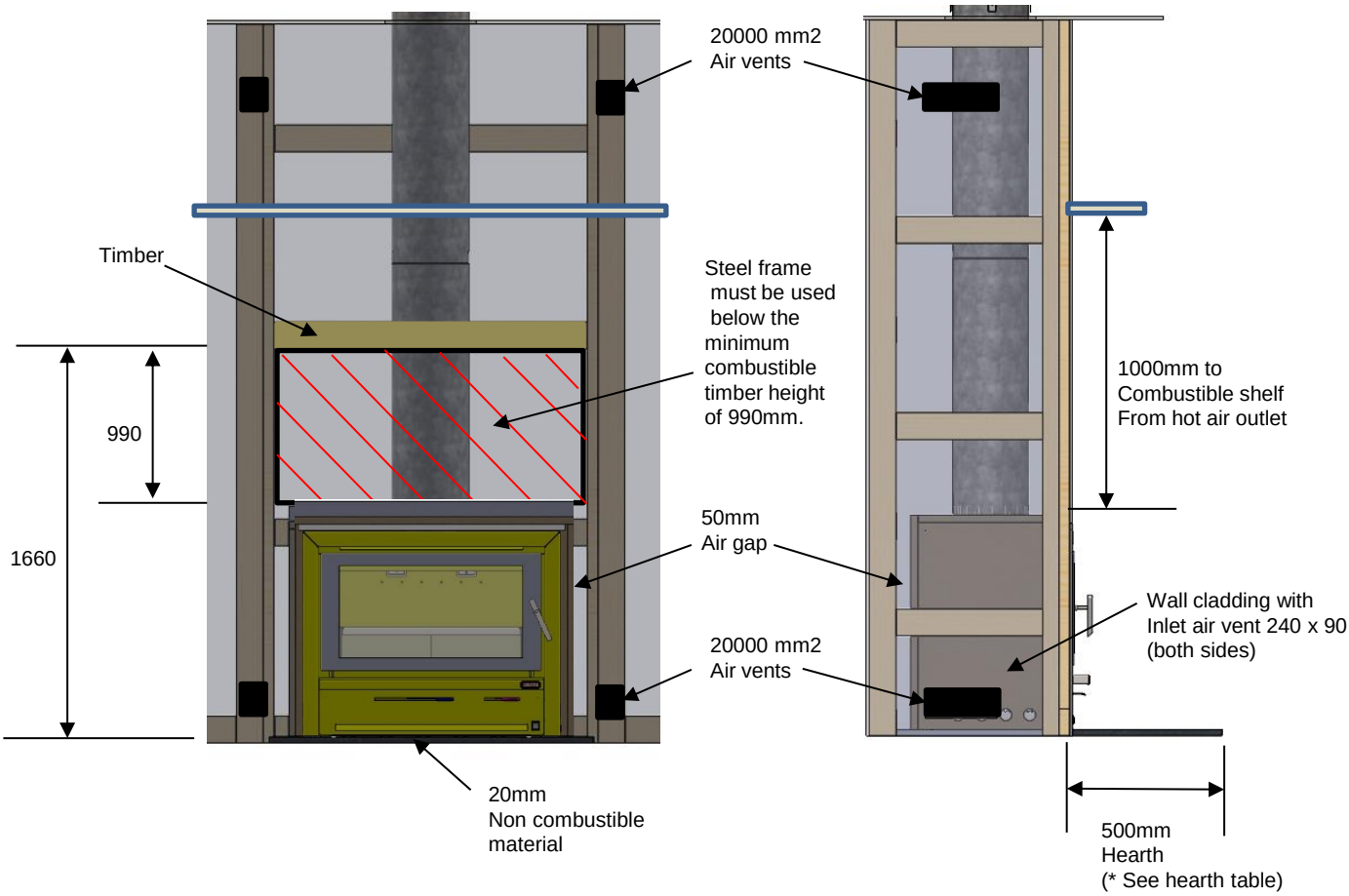


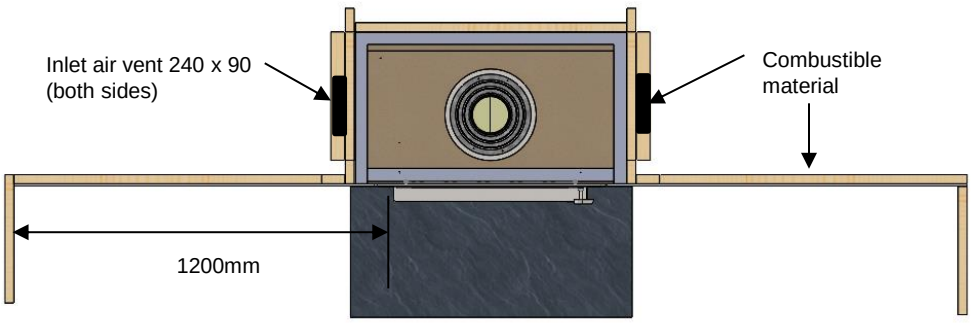
3. Attach the top panel as shown. Use the supplied screws. Make sure all edges are flushed and aligned.



4. Position the zero clearance assembly over the appliance. Make sure the appliance is centrally located. Slide the blanking panel in the gap between the underside of the top panel and top of the appliance until it is flush to the front of the box. This panel does not need to be fixed by screws. This will complete the assembly process.

HALO 800 SOFTWOOD ZERO CLEARANCE BOX ENCLOSURE



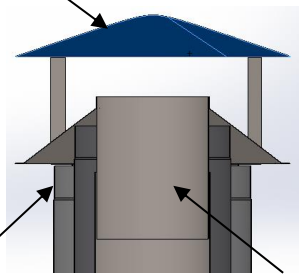


IMPORTANT: ANY APPENDIX “F” APPROVED FLUE KITS CAN BE USED ON THESE KEMLAN FIREPLACES

HALO 800 SOFTWOOD INSTRUCTION
FOR TIMBER CAVITY / ZERO CLEARANCE

IMPORTANT: ANY APPENDIX “F” APPROVED FLUE KITS CAN BE USED ON THESE KEMLAN FIREPLACES

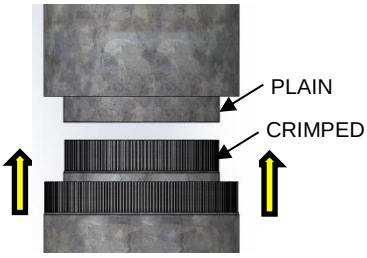
Stainless steel double Cone cowl



Pop rivet or screw Brackets to the outside of the outer casing

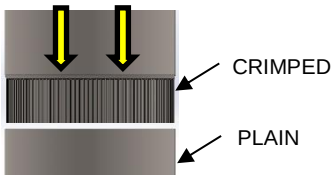
Short tube from the cowl fits into flue pipe. All flues should be trimmed level

DETAIL A



All 8”-10” assembled flues must have the Crimps Pointing upwards

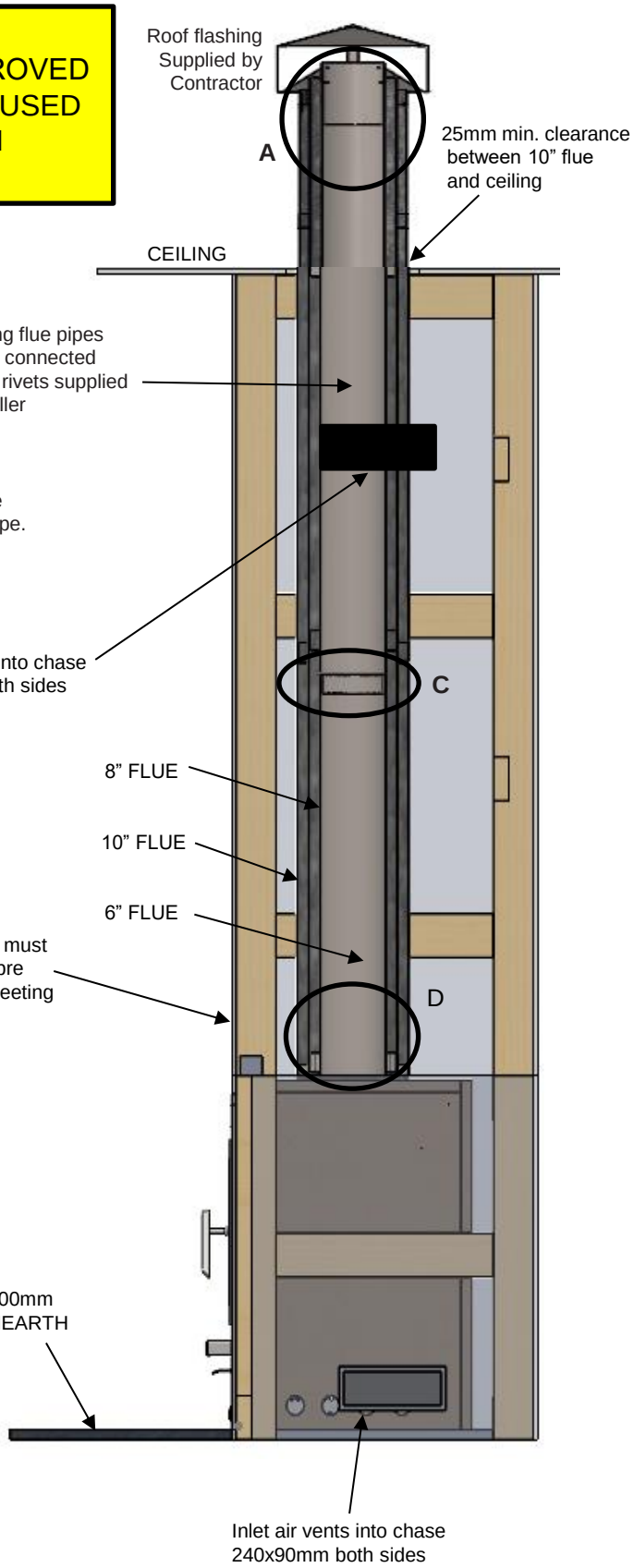
DETAIL C



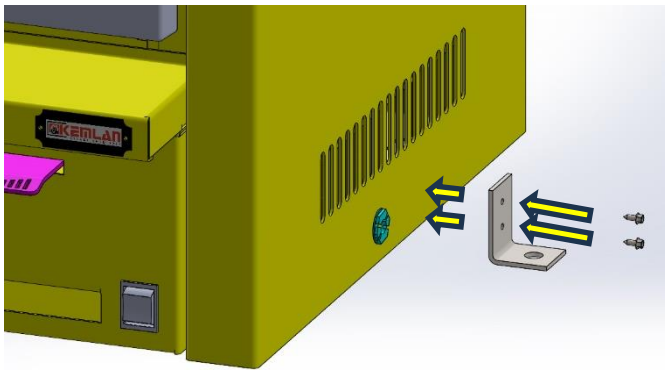
All 6” assembled flues must have the crimps pointing downwards

DETAIL D

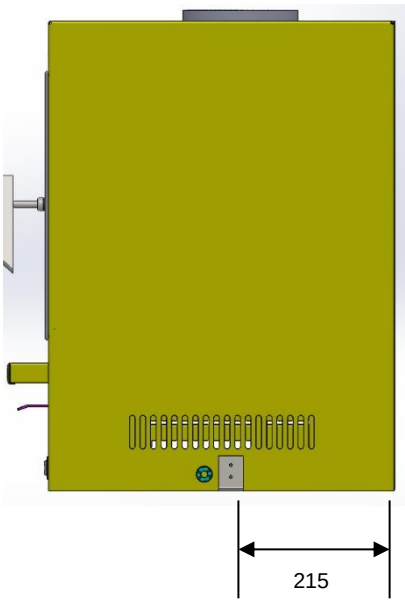
NOTE: IF 2 X 240x90mm VENTS CANNOT BE USED, CEILING MUST REMAIN OPEN TO ROOF SPACE MIN.333,800mm2 AIR FLOW



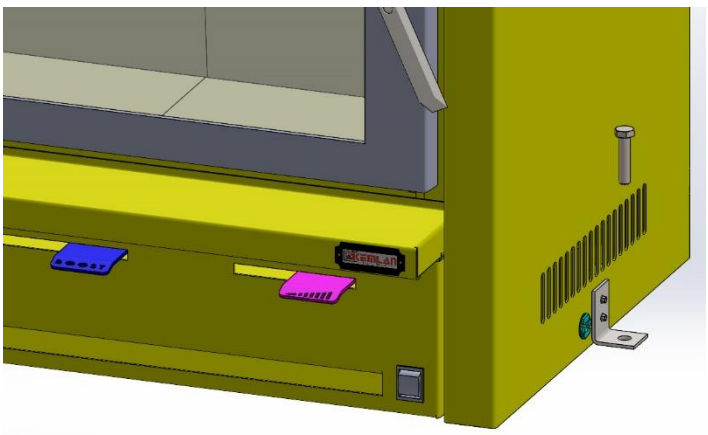
HALO 800 SOFTWOOD
INSTRUCTION
FOR SEISMIC RESTRAINTS



Use the supplied angle brackets and fix them to the side of the appliance. Use tek screws for this brackets on both sides



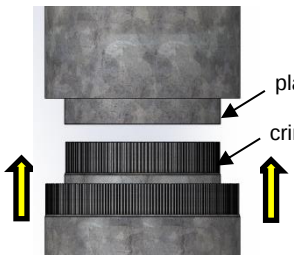
Use this measurement for the placement of the angle bracket. The bracket should be level with the base of the firebox.



Use dyna bolts to fix the unit on a prepared surface. This will complete the seismic restraints assembly.

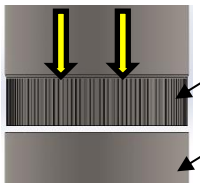
HALO 800 SOFTWOOD
MASONRY / HEBEL CONSTRUCTION

IMPORTANT: ANY APPENDIX “F” APPROVED FLUE KITS CAN BE USED ON THESE KEMLAN FIREPLACES



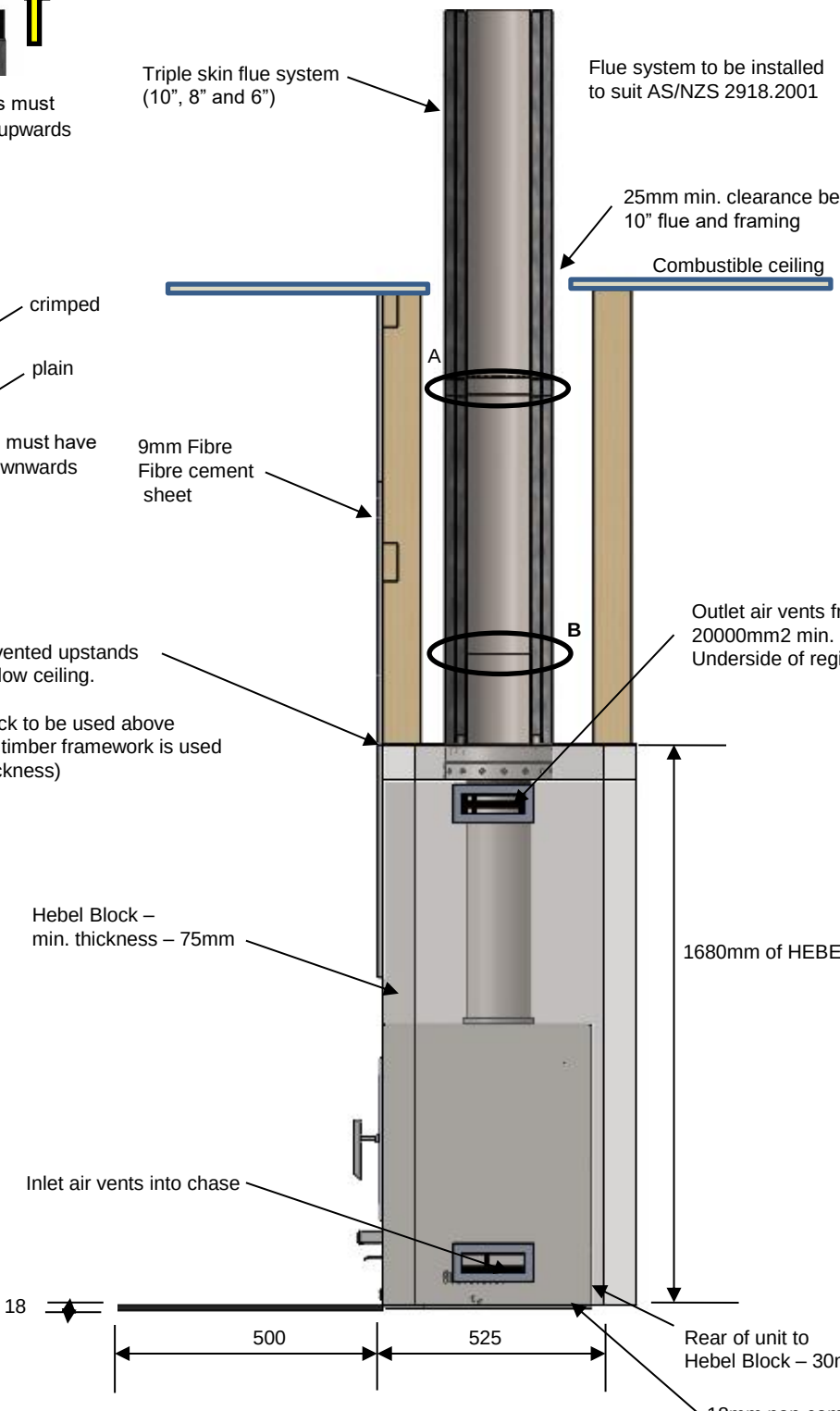
All 8”-10” assembled flues must have the crimps pointing upwards

DETAIL A

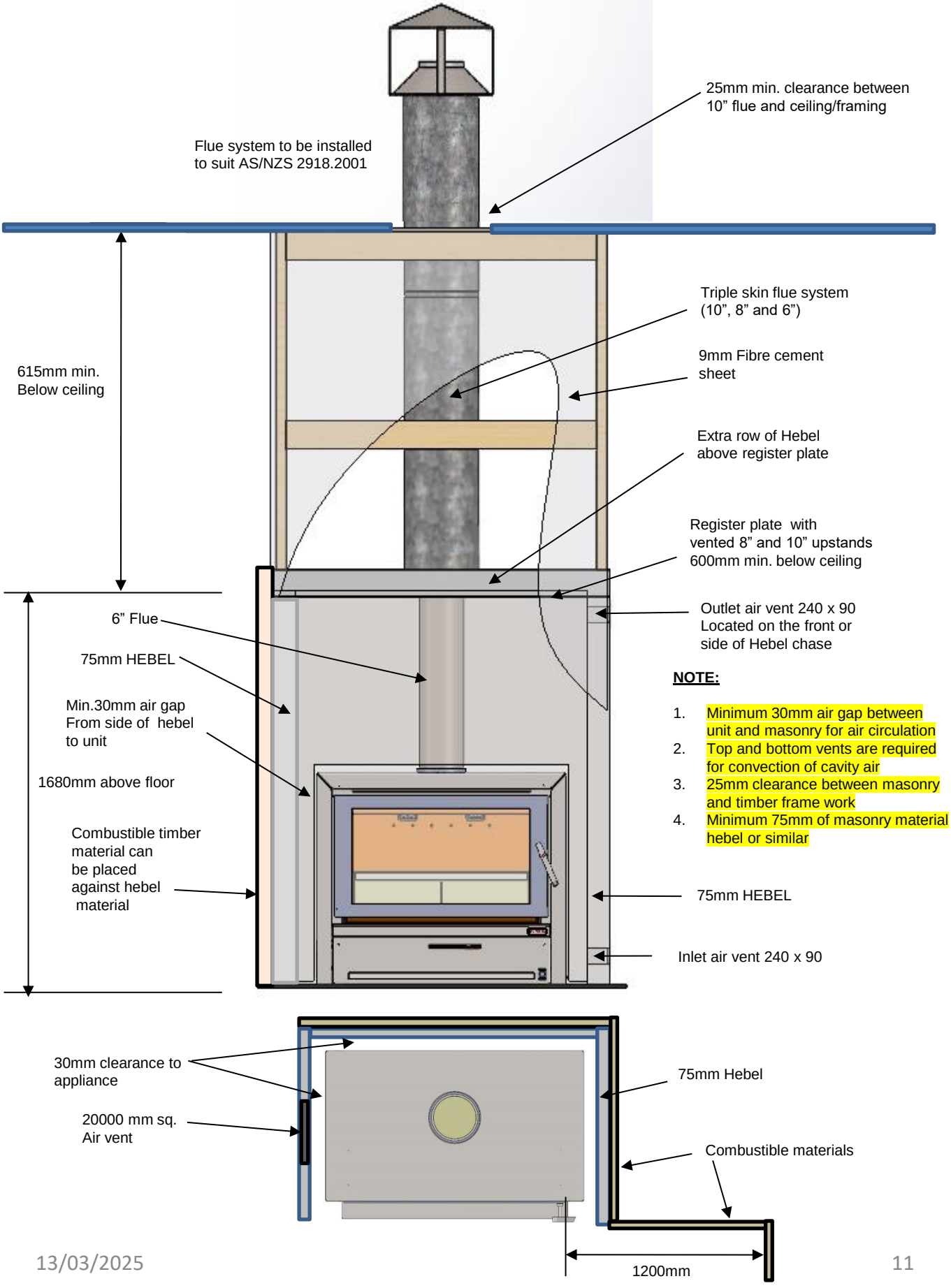


All 6” assembled flues must have the crimps pointing downwards

DETAIL B



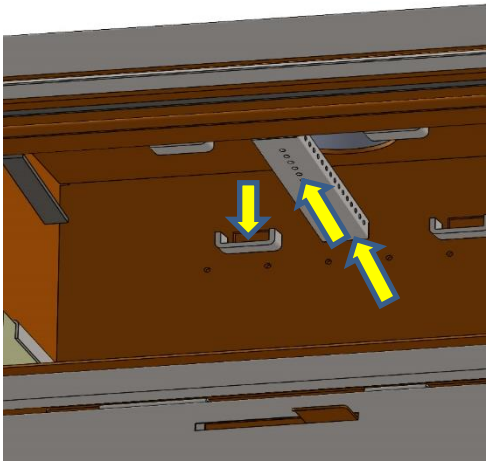
HALO 800 SOFTWOOD
MASONRY / HEBEL CONSTRUCTION



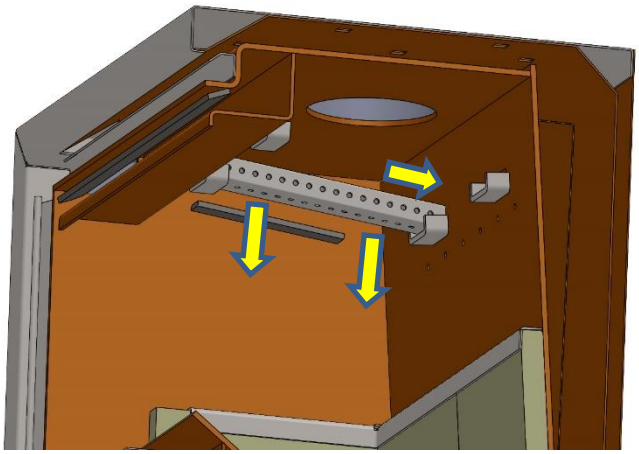
NOTE:

1. Minimum 30mm air gap between unit and masonry for air circulation
2. Top and bottom vents are required for convection of cavity air
3. 25mm clearance between masonry and timber frame work
4. Minimum 75mm of masonry material hebel or similar

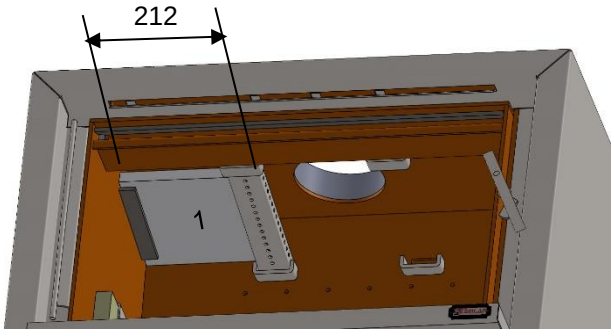
HALO 800 SOFTWOOD
BAFFLE PLATE / AIR TUBE
INSTALLATION INSTRUCTION



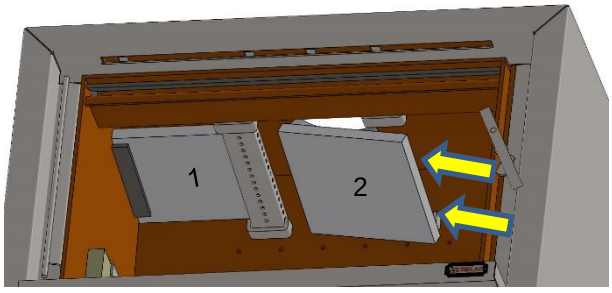
1. Install the first air tube by pushing it up, over and into the air tube holders. Make sure the air tube end with no cap is installed towards the back.



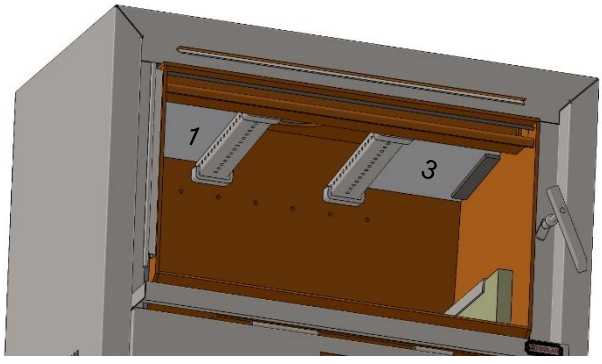
2. All air tube holes must point to sides and bottom of the appliance. Push the air tube as far back as possible.



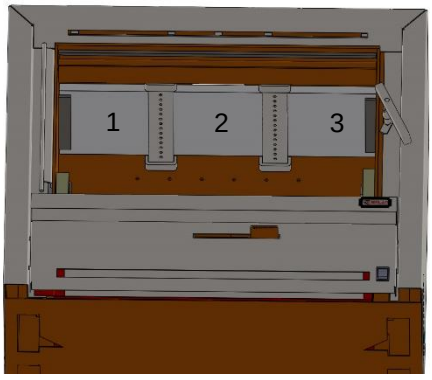
3. Place baffle plate (1) on top of the air tube, *212mm left to right, 222mm front to back*, push baffle plates as far back as possible



4. Position baffle plate (2) on top of baffle plate (1).



5. Install air tube and baffle plate (3) as per figure (3), this time install the baffle plates opposite side to the first one.



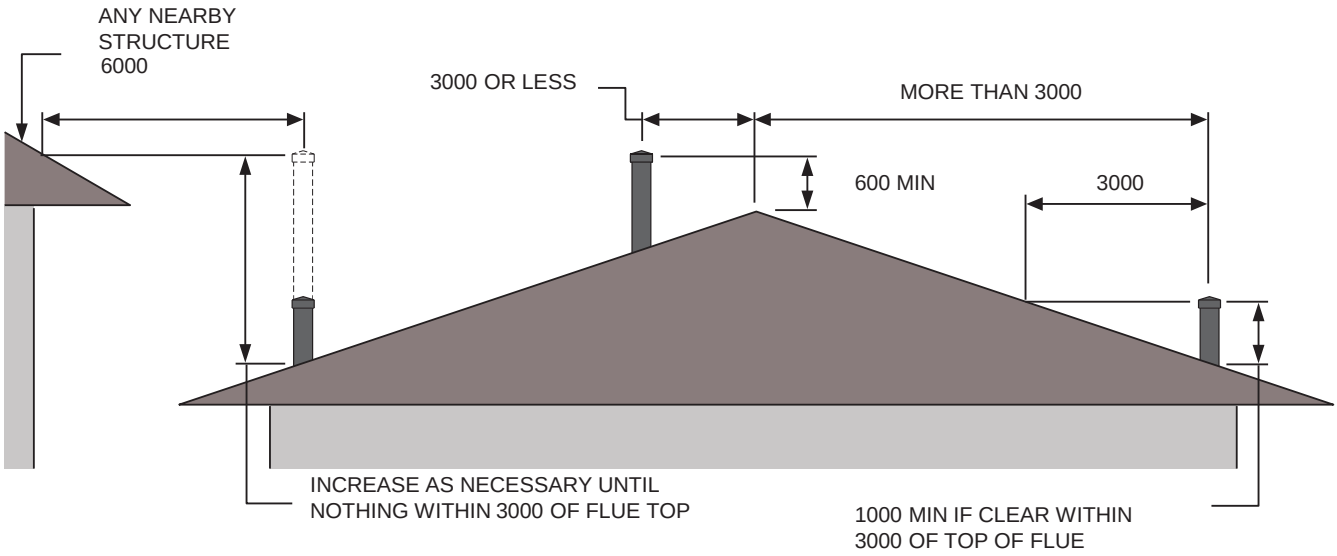
6. The final step is to install the baffle plate (2) that has been placed on top of baffle plate (1). Lower baffle plate (2) into the gap and push towards the back. The assembly is now complete.

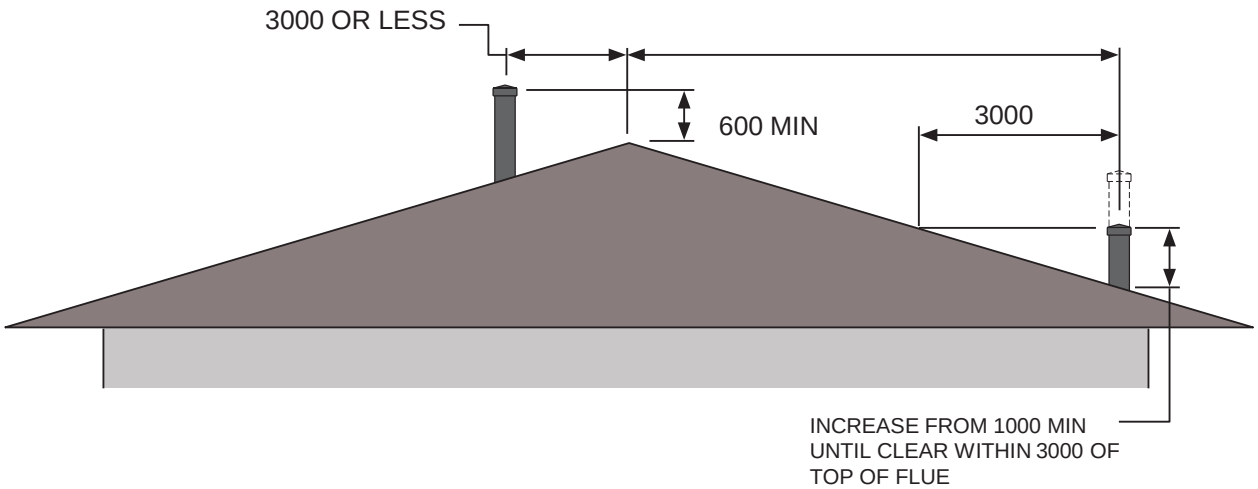
FUEL LOADING INSTRUCTION

Fuel type:	Softwood
Average Fuel Load:	8.8 Kg.
Fuel Size Average:	213mm x 80mm dia.
No. Of Pieces:	12
Method of Fuel Loading:	Front to back, 2 on 4 on 6

INSTALLATION INSTRUCTIONS

MINIMUM HEIGHT OF FLUE SYSTEM EXIT
INSTALLATION TO COMPLY WITH AS/NZS 2918





KEMLAN INDUSTRIES

NOTE:
The boost air slide (LHS) needs to be left open for the ***first 20 minutes*** of operation, in order to light the fire better. After this time, normal appliance operation will commence and the boost air slide will need to be shut for the duration of use.

Operating Instructions

Congratulations on the purchase of your Australian-made Kemlan slow-combustion wood fireplace.

We hope this serves you well, not just as a stunning feature; but as a functional tool for heating your home and keeping you and your family warm however cold the winters may get, because this is what Kemlan specialises in and has perfected, making fires in Brisbane QLD since 1969, 'Australian made for Australian conditions'.

Welcome to the Kemlan family.

I would like to share with you the correct way to operate your Kemlan wood fire giving the best results for both heating and useability.

Let's get started:

The First Burns –

Unfortunately, we have no control over how the fire is loaded nor do we have any control over what quality of fuel/timber is used, therefore we can only give recommendations, and this will be the difference in heat output and length of burn.

Softwood should always be used as the main fuel source in all Kemlan wood heaters at a moisture level of between 12% - 20% (always have a moisture meter).

If the timber is too dry it will burn faster, if the timber is too wet it will struggle to burn at all and give very little heat.

The first few burns in a wood fire are commonly referred to as 'curing burns', this is when you are getting heat into the appliances' steel and paint for the first time.

What we are trying to achieve here is 3-fold:

The **first** goal it to get heat into the white ceramic baffles and the steel flue system, getting these 2 things hot will create the 'draw' of the fireplace this is the process in which the smoke is drawn out of the fireplace chamber through the flue system.

The **second** goal is to lay a bed of ash in the base of the fire, The ash in the bottom of the fire is essential to the performance of the fireplace, the optimal thickness of ash is 2-3 Inches (25mm – 75mm).

Having this bed of ash will assist the fuel to light easier creating an air layer under the timber, it will also assist in a longer hotter burn as the ash holds a large amount of the heat while the timber above is burning. So ***DO NOT*** clean your ash out until you have to, you should never see the firebricks in the base of your fire.

The **third** goal of the initial burns is to cure the paint on the fireplace casing, Kemlan fires are painted with a high-temperature paint. When first applied at our factory, the paint is very soft, we place all finished fireplaces under heat lamps to start the 'curing' process but because of the time it takes and

the temperature the casing needs to stay at to complete this process we need YOU to finish this cure in your home by lighting your new fire! So, let's do it!.....

Building your fire –

Whether you have purchased a small, medium or large chamber fireplace the set-up is the same.

Kemlan introduces more primary air into the chamber of the fireplace than most other brands on the market, this makes it very easy to light the fire from a cold start, it also makes it easy for you the user of the fireplace to load the paper or firelighters, kindling (small pieces of softwood) and softwood into the chamber straight away.

Your goal should be to fill the fireplace chamber front to back, side to side to make sure heat is evenly distributed throughout the entire firebox.
We don't want to have to keep tending to the fireplace slowly adding pieces of timber and constantly opening the door, one full load of timber is far better.

Scan the QR code below to access the 'How to stack and light your Kemlan wood fire' video.

Please take some time to watch to see if your process is the same.

Now your Kemlan fire is up and running make sure to keep the primary air slide fully open, this will ensure maximum oxygen is getting to the fuel and this will create quicker heat into the fireplace box, baffle, flue, and of course your home.

The air slide can move from extreme left (fully open) to extreme right (fully closed).

Think of this slide like an accelerator and brake on a car. Fully open would be putting your foot down on your car's accelerator, fully closed is like putting the brakes on in the car.

When we want energy into the room (KW) we want the slide open, As the room gets to the desired temperature the air slide can be moved towards the right-hand side reducing the air to the chamber and slowing the energy output and fuel consumption.

The air slide should only be moved half to ¾ of the way across while you can still tend to the fire, closing it completely or starving the fire should only be done when you cannot tend to the fire for long periods of time (e.g. going to bed) when your only goal is for the length of burn.

Remember no matter whether it is a curing burn or an everyday use, heat is key, never light a small fire! A small fire in a large, chambered firebox will not produce any heat in the components of the fireplace or in your room. Choose the fire that best suits your living and heating requirements.

Reloading your Kemlan fire –

When it is time to add timber to your fireplace firstly make sure the underside of your white baffles is actually white, if they are still black this will mean the softwood has not fully caught alight. If this is the case wait, you will notice as the fire heats up and your seasoned softwood is fully lit the baffle plates will return to the original white condition, this means the fire drawing correctly through the flue system and burning cleanly with the secondary air in full swing.

You can now open the air slide fully, crack the door slightly allowing the air pressure to equal then carefully fully open the door.

Have the timber you are going to load in the chamber ready to immediately reload, be prepared, don't open the door and then go looking for the optimal pieces of timber, the longer you wait the colder the chamber will get and the higher the chance of smoke coming back into the room.

Overnight burns –

All medium and large size Kemlan fireplaces have what is called an 'overnight burn' but what does this mean??

Like we have touched on above, the air slide should only be shut down fully when you want extended length of burn, as soon as you starve the firebox of air the fire will burn dirtier and heat output will be greatly reduced, in some instances the glass will blacken due to the lack of air movement inside the chamber. The black creosote will burn off the glass when the fires air control is back up to high with a new load of timber.

Generally, a Kemlan medium to large chamber will burn between 8 – 12 hours depending on the quality of fuel/timber and how full you stack the chamber. For maximum burn time you would fill the chamber up to 50mm below the secondary air tubes underneath the white baffle plate. The larger the pieces of timber the better!

After the 8-12 hours you should still have glowing embers in the base of the fire, a small amount of kindling and medium size pieces of softwood can then be re-loaded making sure the air control has been moved back to 'full left' introducing maximum primary air again.

If you follow these simple steps, you will find your Kemlan fireplace is one of the best investments you have made to your home.

From everyone in Kemlan we thank you for your business and wish you a lifetime of warmth and enjoyment.

IMPORTANT:

UNDER NO CIRCUMSTANCES SHOULD ANY SOLVENTS SUCH AS METHYLATED SPIRITS, PETROL, MINERAL TURPENTINE ETC OR DETERGENTS, BE ALLOWED TO COME IN CONTACT WITH THE PAINTED SURFACE OF THE HEATER AS DAMAGE TO THE FINISH WILL RESULT. IF AN ACCIDENT DOES OCCUR, SPRAY CAN PAINT IS AVAILABLE FROM YOUR NEAREST KEMLAN DEALER.

AUSTRALIAN SOLID FUEL TESTING
ASFT

Certificate of Compliance

for

SOLID FUEL HEATERS

This is to certify that the appliance stated on this certificate has been tested for Heat Output, Thermal Efficiency and Particulate Emissions in accordance with the Australian / New Zealand Standard(s) detailed below

Manufacturer	**Kemlan Industries Pty Ltd**
Make	**Kemlan**
Model	**Halo 800**
Type	**Insert/Inbuilt/Free-Standing**
Category	**Slow Combustion Wood Heater**
Fuel Type	**Softwood**
Test Report No's:	**ASFT22095-1 ASFT23004-1 ASFT22043-1 ASFT22047-1 ASFT23005-1**
Maximum Avg Heat Output	**12.8kW**
Overall Avg Efficiency	**68%**
Particulate Emissions Factor	**0.8g/kg**
National Standards	**AS/NZS 4012 (2014)** **AS/NZS 4013 (2014)** **AS/NZS 2918 (2018)**

ASFT hereby grants to:

Kemlan Industries Pty Ltd

of

13 French Avenue, Brendale, Queensland, Australia 4500

Certificate No.: **ASFT23C016e** Certified Date: **14 July 2023**

Issue Date: **27 February 2025** Expiry Date: **27 February 2026**

Steve Marland

Managing Director of ASFT

ASFT performs compliance testing of Solid Fuel Appliances to the relevant Australian/New Zealand standards. This certification is subject to the conditions set forth in the characteristics above and is not to be construed as any recommendation, assurance or guarantee by ASFT of the product acceptance by Authorities having jurisdiction.

Australian Solid Fuel Testing, 3 Garden Street, Morwell, Victoria, Australia 3840
ABN 46 610 154 768

ver.5

WARRANTY

1. Kemlan wood heaters carry a warranty on the 6mm firebox for a period of ten (10) years.

2. This warranty also covers other components of the heater for a period of one (1) year. These components include the baffle plate, handle assembly and secondary air tubes.

3. Kemlan's warranty covers the wood heaters against defects in materials and manufacture.

4. THIS WARRANTY DOES NOT COVER –

4.1 Failure to comply with manufacturer's operation instructions.

4.2 Normal wear and tear or damage caused by incorrect installation.

4.3 Any form of rust and/or corrosion to the painted finish of the heater.

4.4 Damage to the glass in the door, if the damage is caused by impact or misuse.

4.5 The cost of collection and delivery of the wood heater and/or parts.

4.6 Damage caused by water ingress.

4.7 Cost of removal of defective heater or re-installation of replacement heater.

4.8 Failure to use fireplace components supplied by Kemlan Industries Pty Ltd.

4.9 Cost of inspection for damaged heater.

5. CLAIMS –

5.1 (I) Kemlan will provide a full replacement of the heater in the first five years after installation.

(ii) Replacement in the subsequent five years (i.e. sixth to tenth year after installation will be on the following basis.
Owner will pay fifty percent of the current retail price, if the claim is made in the sixth year – tenth year after purchase.

5.2 Replacement of heater subject to all conditions in section four of warranty.

5.3 Should any defects occur, contact the Kemlan distributor from whom you purchased the heater.

5.4 Under this warranty the defective parts will be repaired or replaced, free of charge.

6. The fireplace installation must comply with the relevant local statutes, ordinances, regulations and by-laws.

7. THIS WARRANTY IS VOID IF:

7.1 The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plated or tubes, rust coloured cast iron, bubbling, cracking and discolouration of steel or enamel finishes.

PLEASE COMPLETE AND RETAIN THIS SECTION FOR YOUR RECORDS

Purchased from: .....
Address: .....
Date of Purchase: .....

NOTES