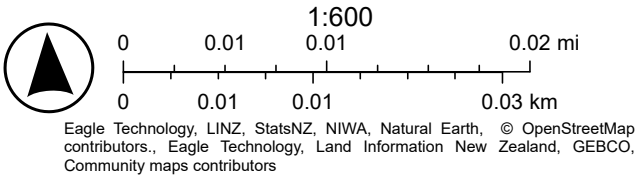


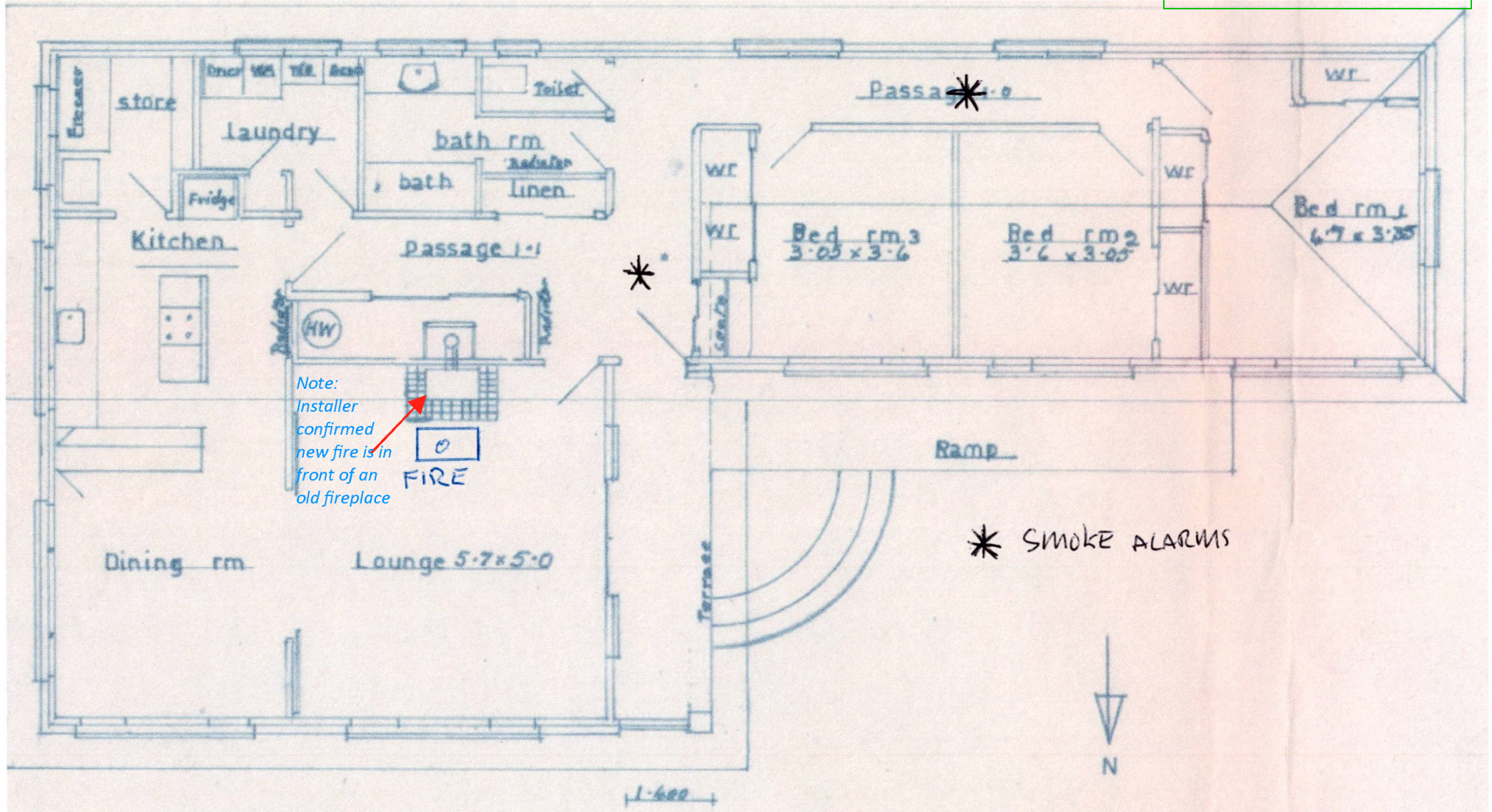
12 Kakapo Street

GORE DISTRICT COUNCIL
APPROVED
Building Consent # 211186
Date: 05 April 2024
Page: 1 of 24



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HURUNUI Ultra-low Emission Burner Installation & Operation Manual

**THIS MANUAL CONTAINS IMPORTANT INFORMATION.
PLEASE KEEP IT IN A SAFE PLACE FOR FUTURE REFERENCE.**

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*Glen Dimplex New Zealand Ltd reserves the right to change specifications, the content of this manual, or the design of its product without prior notice.

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1.0 Introduction

Congratulations!

You are the owner of a state-of-the-art Ultra Low Emission Burner “**Masport Hurunui**” designed and developed by Glen Dimplex, New Zealand. Thank you for purchasing a Masport appliance.

The **Hurunui ULEB** is a new generation wood fire designed to provide you with all the warmth and comfort of a fireplace while having ULTRA LOW emissions to dramatically reduce the impact on the environment. Environment Canterbury has approved the installation of this burner in all clean air zones that have been previously banned for the installation of a conventional wood burner. As it bears the Masport brand, it promises to provide you with the economy, safety, and efficiency.

To make the most of your appliance, installing, operating, and maintaining the burner correctly is important. Please read this installation and operations manual **carefully** before installing or operating your Hurunui ULEB. Please take the time to understand the basic principles of this new burner which uses the latest combustion technology.

Your Hurunui ULEB burns less fuel in comparison to a standard LEB while producing a more consistent heat than a conventional wood burner, producing fewer harmful emissions. The bricks fitted in this burner are ceramic that retains the invaluable heat and release towards the end of the burn cycle. The baffle is made of stainless steel, making it durable, and lowers costs in the long run.

1.1 Items supplied with the fire

- Hurunui ULEB
- 1 x St/St Main Baffle
- 5 x Full + 2 x Cut Ceramic Bricks
- 345mm x 345mm Ceiling plate
- Accessory Pack – which contains
 - 1 x Installation and Operations Manual
 - 1 x Specification Sheet
 - 1 x Brick & Baffle Layout
 - 1 x Door Handle

1.2 Handling and Transport

The Hurunui fire has a total weight of 130 kg.

Single person handling could cause injury; Glen Dimplex recommends suitable handling equipment and two persons while handling, both outside and inside the house. Removing bricks and loose items inside the firebox will help reduce weight and ease the burner's handling during installation.

All precautions have been taken during the design of packaging to avoid transport damage until the burner reaches the customer's house. In case any damage is found while opening the fire, please report it to your dealer immediately before installing the burner.

1.3 Warnings

- The installation of the Hurunui ULEB requires building consent before installation commences. Check with your local Building Authority whether there are any additional requirements before installing.
- The Hurunui burner and flue system shall be installed in accordance with AS/NZS 2918:2001 and appropriate requirements of the relevant local building codes.
- Glen Dimplex highly recommends NZHHA trained SFAIT (Solid Fuel Appliance Installation technician) installer to install Hurunui burner. Your dealer or heating specialist will be able to help with recommendations and advice on permits/consents required for the installation in your area.
- Please read carefully all the dimensions and recommendations provided in the technical specification section of this manual. The dimensions given comply with the required safety standard AS/NZS 2918:2001.
- The safety and emissions performance of Hurunui can be affected by altering the appliance; hence no modifications are allowed.
- Please ensure that only components approved by Glen Dimplex New Zealand are used for the installation, as substitutes may adversely affect performance and might nullify compliance with the requirements of AS/NZS 2918 safety standards.
- The Hurunui ULEB should be installed with a Masport flue system or a flue system that has been tested and comply with AS/NZS 918:2001 Appendix F.
- The Hurunui ULEB and flue system must be serviced at least once a year by a service agent trained and authorized by Glen Dimplex, New Zealand.

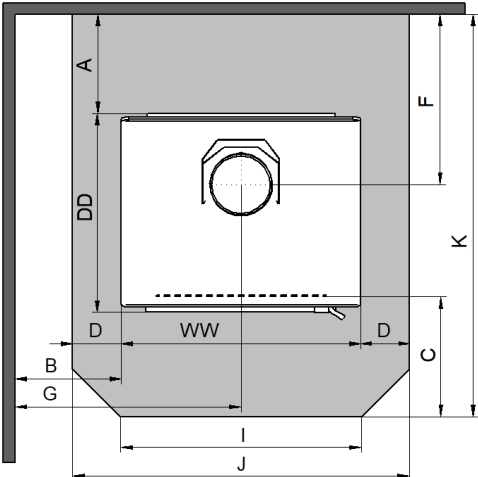
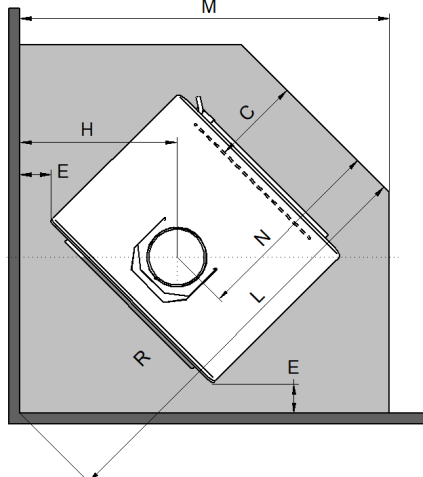
1.4 Caution

- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Do not leave children unattended near the alighted fire and keep them well away from the fire when in use. Supervise young children to ensure that they do not play with the appliance.
- Do not use flammable liquids or aerosols to start or rekindle the fire. Also, do not use such flammable materials near this appliance when operating.
- Always keep clothing, firewood, furnishing, and other combustible materials at a safe distance from the fire.
- Do not touch any part of the fire other than the door and the damper handle when in use, as all other parts can be extremely hot.
- Cracked/broken door glass makes the installation unsafe. Do not operate the fire with cracked glass.
- Do not attempt to clean or maintain the fire when in use or with hot embers in the combustion chamber. Ensure that embers and all other parts of the fire have cooled down completely before starting ash removal or other maintenance.
- Do not use the fire if there is a malfunction, a suspicion of breakage, or unusual noises. Contact your nearest Masport dealer or customer service team at Glen Dimplex, New Zealand.
- This appliance should always be operated & maintained as per instructions in this manual.

Failure to follow above warnings, cautionary measures and instruction given in this installation and operation manual will void the Masport warranty of this product.

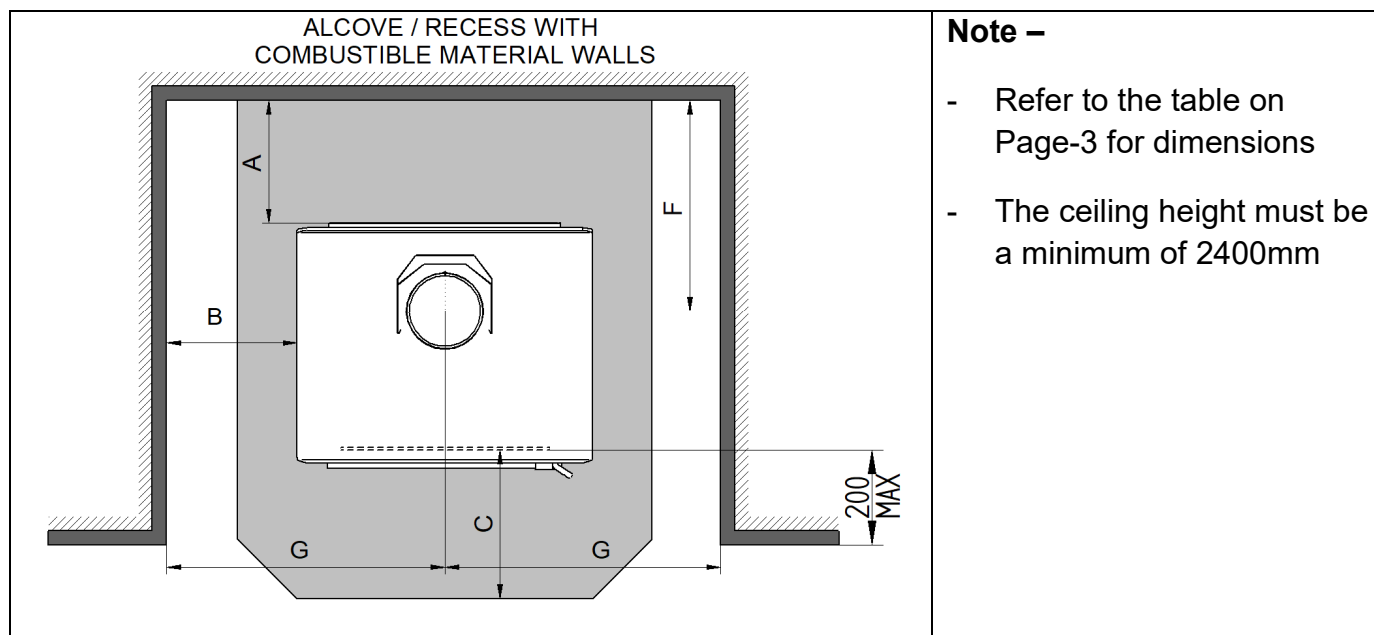
2.0 Masport Hurunui ULEB PED - Technical Specifications

(These instructions must be used in conjunction with the "Installation Instructions" for the Hurunui Fires)

Hurunui burner model has been tested and complies with the following standards & tests:				
Environment Canterbury's Real-life test - Canterbury test method CM1				
NZ National Environmental Test Standards - AS/NZS 4012:2014 and AS/NZS 4013:2014.				
NZ National Environmental Safety Test Standard - AS/NZS 2918:2001				
Overall Dimensions	700mm Wide x 594mm Deep x 809mm High			
Net Weight of the Burner	130 kg			
Test Method	Emissions mg/MJ	Emissions g/kg	Efficiency %	Authorization No
Real-Life Test Canterbury Method V1.6 (ULEB)	31 mg/MJ	-	-	CRC 222641
National Environment Standard AS/NZS 4012/13:2014	-	0.55 g/kg	65%	CRC 222643
Approx. Heating Capacity	Medium to Large Homes (3~4 Bedrooms)			
Flue Shield	900mm Long SS Double Flue Shield (Included in flue kit)			
Flue System	Std 4.2M Long, 150mm Flue System (GDFLU013M) or Flue System that has been tested to & comply with AS/NZS 2918:2001 Appendix F ** For installation in Canterbury & South of Canterbury, we recommend extending 200 outer casings within 250~300 from flue termination. Also, we recommend not to use Masport Opti or equivalent flue kits in this area, as they take ceiling or external cold air and cool the flue casings, leading to accelerated creosote build-up in the main flue pipe.			
Floor Protector Requirement	Ash Floor Protector or Steel Floor Protector Masport Steel Floor Protector – 998903-Parallel or 998904-Corner			
Minimum Clearances to Combustibles: Parallel, Corner & Alcove configurations				
Parallel Installation		Corner Installation		
				
A- Rear Panel to Rear Wall	110 mm	C- Glass to Floor Protector Front	300 mm	
B-Cooktop Edge to Side Wall	225 mm	E- Cooktop Corner to Wall	85 mm	
C- Glass to Floor Protector Front	300 mm	H- Flue Centre to Wall	441 mm	
D- Floor Protector Side	100 mm	L- Floor Protector Diagonal	1262 mm	
F- Flue Centre to Rear Wall	306 mm	M- Floor Protector Side	1104 mm	
G- Flue Centre to Side Wall	575 mm	N- Flue Centre to Floor Protector Front	638 mm	
I- Floor Protector Front Edge	600 mm	R- Flue Centre to Wall Corner	624 mm	
J- Floor Protector Width	900 mm	WW- Overall Width of Fire	700 mm	
K- Floor Protector Depth	944 mm	DD- Overall Depth of Fire	594 mm	
		HH- Overall Height of Fire	760 mm	
Seismic Restraint - In New Zealand, it is required that the wood burner and floor protector are secured to prevent shifting in the event of an earthquake. This is best done by fastening the wood burner right through the protector to the floor, using 8mm Dyna Bolts or 8mm coach screws or equivalent toggle fasteners for wooden floors of appropriate lengths. Seismic holes are at the rear of the burner.				

Hurunui Installation in Alcove/Recess situation

Hurunui burner models have been tested for alcove (recess) made of combustible material and comply as per safety standard AS/NZS 2918:2001



3.0 Installation of The Hurunui ULEB

3.1 Unpacking

Remove the shipping wooden crate and packing material around the burner. Remove the loose pieces from the firebox. Remove and discard the screws holding the wood fire to the shipping pallet. Using appropriate lifting equipment, move the burner close to its installation position. The installer should use correct lifting procedures to avoid injury while handling a Masport Hurunui burner.

3.2 Positioning

The Hurunui ULEB is tested to and complies with parallel, corner, and alcove (2.4m ceiling height) wall configurations, with minimum distances to heat-sensitive materials in accordance with the AS/NZ 2918:2001 safety test standard. Determine the installation position for your Hurunui fire only after considering the necessary clearances (See Technical Specifications on page 5 of this manual) and checking the practicability of installing the flue system. No wall or other fixed objects should be closer to the front of the Hurunui burner than two meters. Regard heat-resistant walls with heat-sensitive surface treatments (e.g., wallpaper or heat-sensitive paints) as heat-sensitive walls.

Any proposed deviation from the specified clearances or installation configurations should be discussed with a registered "NZHHA" approved installer or GDNZ's technical team to ensure that the variation complies with AS/NZ 2918:2001

3.3 Flue Requirements

A minimum 4.2M long, 150mm diameter Masport flue system or flue system that has been tested and complies with the current installation standard AS/NZS 2918:2001, Appendix F shall be used with the Hurunui burner along with the 900mm long, Masport St/St double skin flue shield. Clearances to combustible given on section 2.0 have been determined during a safety test, which was carried out with standard parallel and corner installation configuration with a minimum 2.4m high ceiling.

If a flue exits out of the roof within 3 meters from the ridge, the outer shield shall be not less than 600mm above the ridge. If the flue exits further than 3 meters out from the roof ridge, then it must project at least 1000mm above roof penetration. This dimension may need increasing to ensure that the top of the flue is at least 3 meters away from the roof or other obstruction when measured horizontally.

The flue pipe shall extend not less than 4.2m above the top of the burner. Due to factors such as roof pitch, predominant winds, nearby obstructions (i.e., trees, buildings), fire placement, flue lengths, and flue terminations/cowls may vary. (Refer to Figure 3.3.1) Additional components may be required to complete the installation and meet all AS/NZS 2918:2001 guidelines for flue termination.

Low flue gas temperature can create flue draft issues in the colder environment. It is highly recommended that the 200 inner casing of Masport flue system be extended within 250~300mm below the flue termination. This is particularly important for installation in the colder areas of Canterbury and south of the Canterbury region. (Refer to Figure 3.3.2. Depending upon installation, use the required length of additional flue pipes.

AS/NZS 2918:2001 guidelines should be followed for deviation from these standard configurations. **Detailed instructions for roof penetrations etc., are supplied along with the Masport flue kit.** These must be followed closely, including the minimum flue exit height from the top of the floor protector and the minimum exit height above the roofline or roof ridge as detailed in the instructions.

Flue installations other than strictly vertical ones are possible. See AS/NZS 2918:2001 for information on non-vertical flues and flues passing through walls and eaves.

The flue to the flue spigot and all other flue pipe joints should be sealed using firebox cement and Stainless-Steel Rivets. Sealing all the joints is important for achieving the desired performance of the Hurunui burner.

For flue heat shields other than the 900mm Masport Double Shield, the installation clearances will be in accordance with the guidelines specified in AS/NZS 2918:2001 for an untested flue installation.

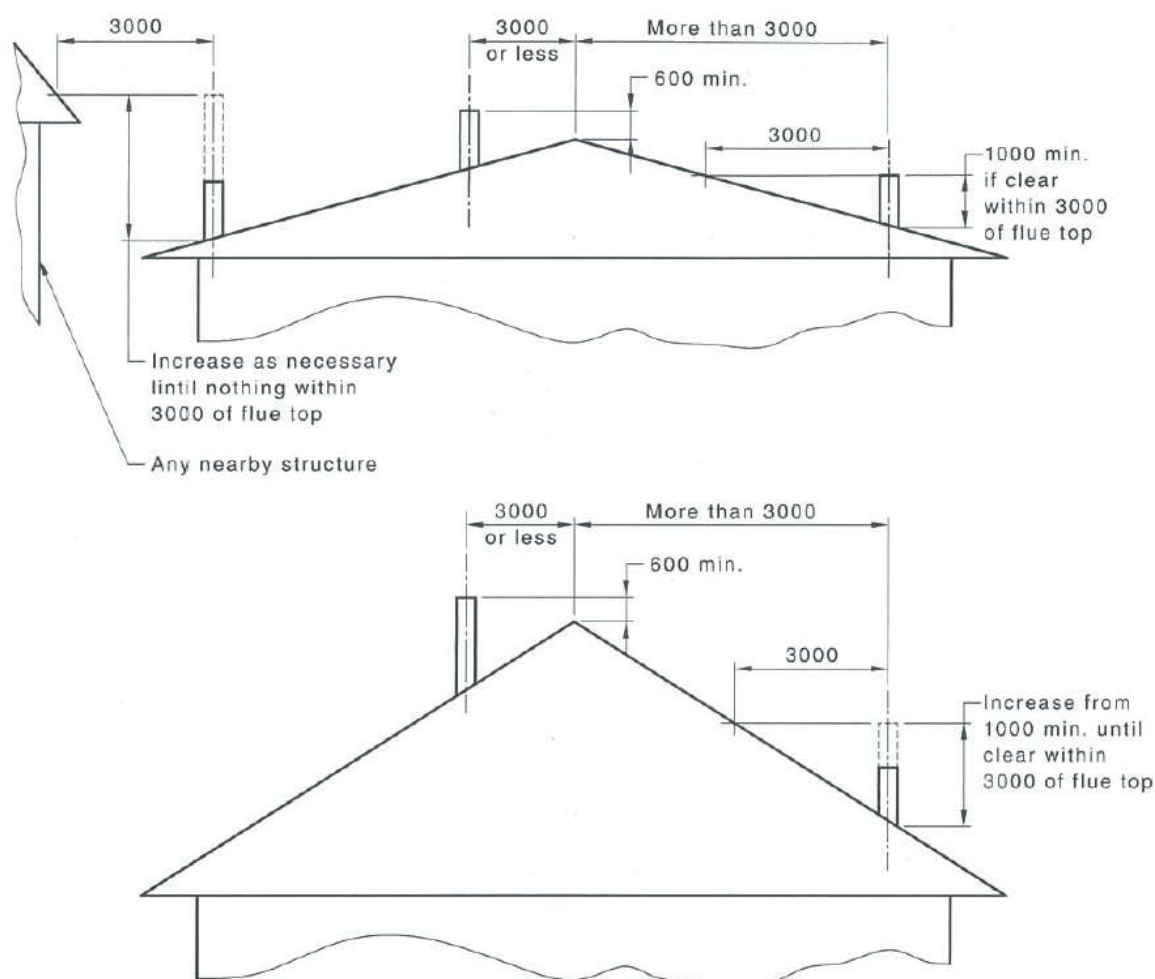


Figure 3.3.1

3.4 Floor Protector Requirements

The Hurunui burner can be installed on any non-combustible ash floor protector with minimum dimensions given on page 4 of this manual. Please note that the dimensions given are minimum, and we recommend using a slightly larger floor protector size.

Please note that the Hurunui burner is heavy, having a total weight of 130 Kg. The floor and the materials used as floor protectors should be strong enough to bear this load. The minimum requirements for material to be used as floor protectors on a combustible material are

- 6mm fibre cement board (e.g., Hardies Tile & Slate Underlay) plus 8mm ceramic tiles on a firm base.
- 4mm mild steel floor protector supplied by Glen Dimplex
- Or equivalent.

3.5 Reducing Clearances

The clearances to combustible specified in section 2.0 of this manual can be safely reduced by following guidelines specified in AS/NZS 2918:2001 table 3.1 & 3.2.

- Heatshield should be made of non-combustible material like metal or masonry.
- Installed between the burner and the combustible wall
- With an air gap behind it and vented top and bottom
- The shield should extend a minimum of 450mm beyond the top of the appliance and extend width-wise so that unshielded rear clearance is maintained

Clearance factors for heat shield which is within 45 degrees of the vertical

Heat Shield Construction	Minimum Air Gap Dimension	Clearance Factor
Single-layer of continuous material	12mm	0.4
Single-layer of continuous material	25mm	0.3
Two spaced layers of continuous material	12mm+12mm	0.2

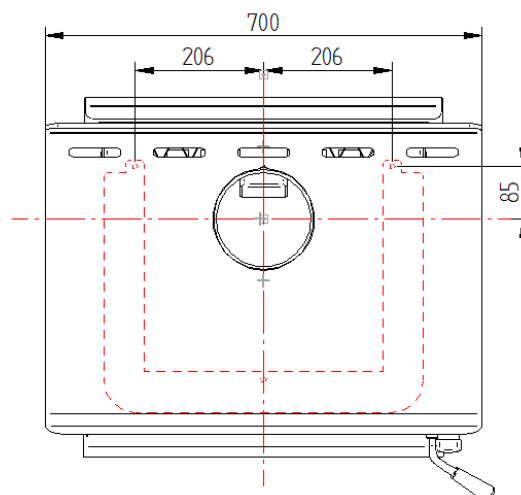
Clearance factors for heat shield which is more than 45 degrees off the vertical

Heat Shield Construction	Minimum Air Gap Dimension	Clearance Factor
Single-layer of continuous material	12mm	0.8
Single-layer of continuous material	25mm	0.6

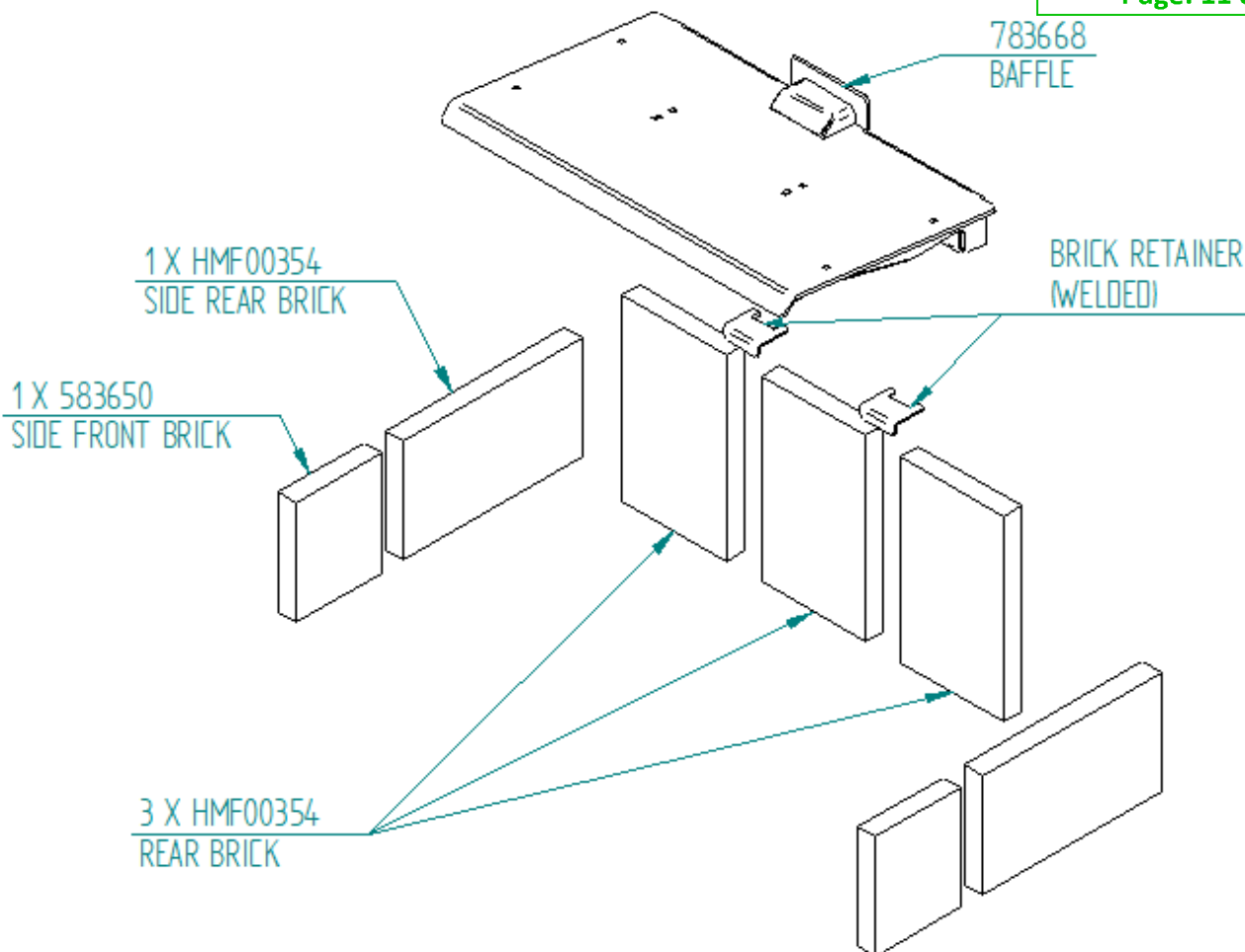
Ensure that all such installations meet the local rules and are approved by the local building authorities before the installation process begins,

3.6 Seismic Restraint

The Hurunui ULEB must be seismically restrained, including the floor protector. The figure below gives the holes that can be pre-drilled on the floor protector with respect to the flue centre. We recommend a minimum size of 8mm Dyna Bolts on the concrete floor or 8mm coach screws or toggle fasteners for wooden floors of appropriate length. Two holes are located at the rear of the burner.



3.7 Brick and Baffle Layout



4.0 Operational Instructions for The Hurunui ULEB

Before the first light-up, ensure that the burner is correctly installed and signed off by an approved installer. All local council's wood fire permission or permit requirements have been completed satisfactorily.

4.1 Preparing the Burner for First Light-up

Ensure that the St/St Baffle and the 7x ceramic bricks are placed properly as per the brick baffle layout document 583717, which comes with the fire.

4.2 Permitted Fuels

The quality of the firewood you burn can considerably affect the performance of the Hurunui ULEB. Moisture content, tree species, and log size are the main factors affecting the emissions produced by any wood burner. The Hurunui ULEB is designed to burn wood fuel that meets the following criteria:

- Less than 25% moisture content
- Has not been treated with preservatives or impregnated with chemicals or glue
- Is not chipboard, particleboard, or laminated board
- Is not painted, stained, or oiled
- Is not driftwood or other salt impregnated wood

Burning materials that do not meet the above criteria can damage the firebox and put you at the risk of voiding the warranty of the Hurunui ULEB.

In NZ, radiata pine or macrocarpa is the most commonly available softwood species suitable as firewood. Other hardwood species like eucalyptus (bluegum) can also be mixed with softwood to achieve longer burns.

If you are cutting your firewood, only wood that has been air-dried in a sheltered, well-ventilated stack, preferably for at least 12 months, may be burned in the Hurunui ULEB. To ensure that the wood has a 25% or less moisture content, store it under a roof and protect against heavy rain. If you purchase firewood, buy firewood that is well seasoned and has a moisture level below 25%. We recommend "Good Wood" merchants approved by your local council.

Do not burn coal, driftwood, treated or painted wood, highly resinous wood, such as "Old Man's Pine," plastic, plywood, chipboard, garbage, flammable fluids such as gasoline, naphtha, engine oil, refuse, milk cartons, colored or printed paper. The combustion of such materials can emit toxic, corrosive, and hazardous fumes that will pollute the environment.

4.3 Testing Wood Moisture

There are several ways to confirm if the wood is dry enough.

- The wood moisture meter is the best way to check the moisture content of the wood fuel. Split a piece of wood and then press the metering prongs firmly into the long side of a split piece to test moisture content. 15-20% percent of moisture content is ideal.
- If you purchase firewood, ask for dry seasoned wood and get it checked from your wood merchant.
- Dry wood weighs much less than wet wood.
- Wet wood is hard to light and will emit moisture from the ends while burning.
- Two dry pieces banged together sound hollow, and wet pieces sound solid and dull.

4.4 Recommended Log Sizes & Fire Starters

- A packet of matches or lighter
- A packet of firelighters. We recommend green firelighters made of wood waste
- Seasoned firewood about 300~325mm long in various sizes
 - o (3.2A) For kindling - 18-20 finely split, dry softwood (total 1.5 kg approximately)
 - o (3.2B) For intermediate 1 load – 5 pieces (total 1.5 kg, 375 g each approximately)
 - o (3.2C) For intermediate 2 load – 4 pieces (total 3.0 kg, 750 g each approximately)
 - o (3.2D) For main load – 3 or more pieces (Total 4.0 kg, 1.3 kg each approximately)

3.2A	3.2B	3.2C	3.2D
			
Using well-seasoned firewood is key to maintaining and improving the life of the Hurunui Firebox			

5.0 Operational Sequence

5.1 Before First Light-up

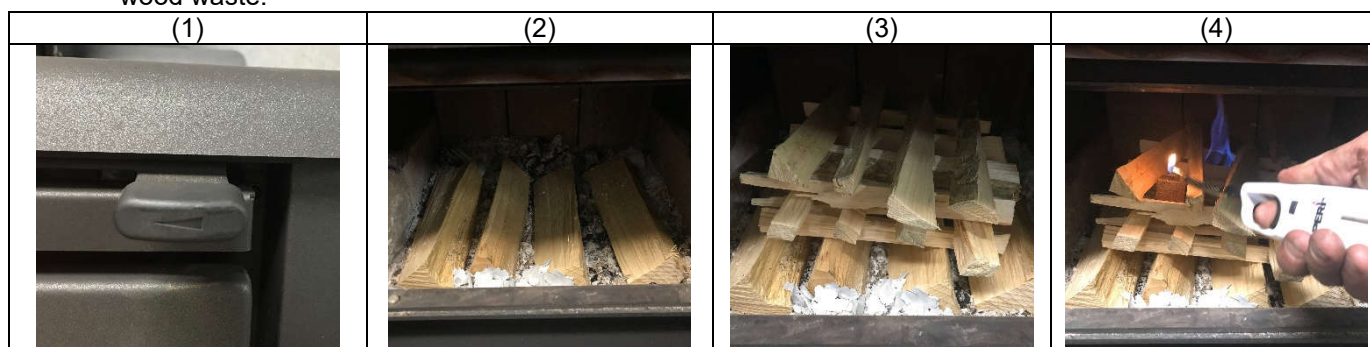
- Ensure that all the packing material has been removed from the combustion chamber.
- Make sure the St/St baffle and ceramic bricks are installed correctly and the baffle is pushed back.

Please note that the special high-temperature paint used on the heater will go through a curing process; as the paint heats up, it will firstly soften and can be easily marked; after 2-3 burn cycles, the paint will lightly dull, and this will indicate that it is now cured and hard. The paint will give off smoke and an odor that can irritate some people during this process. Please ensure during the curing phase that adequate ventilation is used to open as many doors and windows as possible to ventilate the area. Once cured, there should be no more smoke or odor.

5.2 Cold Startup

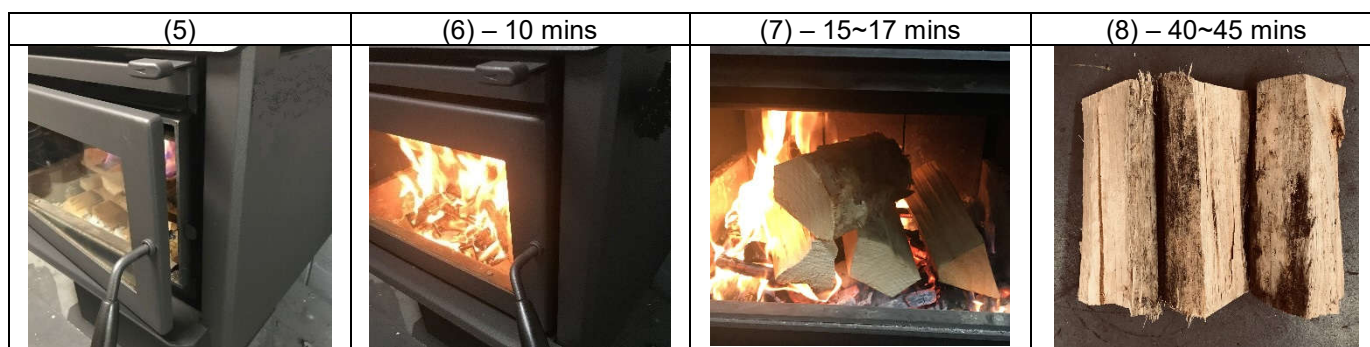
5.2.1 Initial light-up with kindling and intermediate load

1. Slide the air slide control to the "HIGH" position.
2. Stack intermediate load, i.e., 4 x small size logs at the base of the firebox.
3. Stack around 18-20 very small kindling pieces on top of these logs. This is the "Top-Down Start-Up" method, which considerably reduces particle emission during the start-up phase.
4. Place the firelighters on top of the kindling and light the fire. We recommend green firelighters made of wood waste.



5.2.2 Intermediate load 2




5. Keep the door ajar slightly. Use the start-up latch to keep the door ajar in a controlled fashion
6. Close the door approximately **after 10 mins** making sure that the kindling is well alight. Do not change the air slide position at this stage.
7. **After 15~17 mins**, once the small logs are more than 50% burnt, open the door to add a 2nd intermediate load, i.e., 4 pieces of medium fire logs. Close the door and continue to lite the fire on the "HIGH" air slide setting.



DO NOT LEAVE BURNER UNATTENDED DURING THIS INITIAL LIGHT-UP PERIOD

5.2.3 Main load and controlling output

8. Around 40~45 mins, when the intermediate load 2 is burnt more than 50%, open the main fuel loading door.
9. Add 3 large size logs and close the main fuel loading door.
10. Once the large size logs are fully alight, the burner is ready to adjust the output by operating the air slide.
11. Adjust the air slide to the medium or low position to control the output.

(9) – 40+mins	(10) – 50+ mins	(11) – 70+ mins	
			
<p>Always open the door in two stages:</p> <ol style="list-style-type: none"> 1. Unlatch the door and keep it slightly ajar for 15~20 seconds 2. Then open the door fully. <p>Always switch the air slide knob gently and gradually.</p> <p>This practice is essential to avoid puffs of smoke coming into the room.</p>			

5.2.4 Refueling and Turning down

12. Before opening the door for reloading, ensure that the air slide is on the **"HIGH"** setting for approx. 5 mins. This will increase the flue temp and reduce the risk of smoke back into the room. Reloading should be done when there is a good ember bed and minimal flames. Do not reload when the heater still has a large amount of wood and flames; this is an inefficient operation and can cause smoke to enter the room.
13. After reloading, keep the air slide to the **"HIGH"** position till logs are fully alight.
To turn the burner down, allow the wood to be well alight, then turn the slide approx. 50% down, wait for 5 mins, and then fully turn down.
Note: When refueling, make sure the air slide has been moved up to the high setting for approx. 5 mins.

- **DO NOT EVER USE THE BURNER WITH A CRACKED GLASS**
- **DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE BURNER**
- **ALWAYS MOVE THE AIR CONTROL TO THE OPEN POSITION (TO THE RIGHT) BEFORE OPENING THE BURNER DOOR**

Note – The timing given for various steps of the light-up process may vary slightly depending upon wood log length. After a couple of burns, the user will be able to judge for themselves.

6.0 Operating Hints for Clean Burning and Best Efficiency

- Always use good quality wood fuel. Refer to section 4.2 for details of wood logs that can be used.
- Add fuel reasonably often. A large fuel load placed on a dying fire can drop combustion temperatures undesirably. The best time to refuel is when there is a minimal flame in the combustion chamber.
- Avoid large smouldering fires. A small intense fire is more efficient.
- Move the heat control to a "HIGH" setting for a minute before opening the door on a low burning fire. This will clear away any fumes in the firebox.
- Always open the door SLOWLY, and close and latch it shut securely again as soon as possible after re-loading.
- When loading fuel, place the pieces of wood in a Front-to-Back direction to ensure proper air access and the cleanest possible burning. This will give you the overall emission and room heating efficiency that the fire was designed and tested to achieve.
- While loading fuel, take care to avoid damage to the firebricks or top baffle. Do not throw logs into the fire.
- If smoke wafts into the room from a fully established fire while the door is open, the first check that make-up air can flow freely into the room to replace the air passing up the flue. Make-up air is the replacement air used by fire for combustion, which needs to come into the room from external sources (see box below).
- Check that the flue is not obstructed in any way, particularly by the rain cap being too close to the end of the flue. Check flue is sealed correctly. (See the flue cleaning requirements in the maintenance section 9.2. If these checks do not uncover the fault, you may need to add an extra length of flue and casings (with bracing, if necessary) to counteract the down draught effects caused by roof shape, nearby buildings, hills, or trees. Consult experienced wood fire installer for solutions.
- After a season, adjust the door to eliminate any minor leakage if required.



For the fire to draw correctly, air must be able to enter the room where your Hurunui ULEB burner is installed. You may have to leave a room door slightly open and perhaps a window elsewhere in the house if your home is of modern airtight construction. This is particularly important if an air extraction fan operates somewhere in the house. Leaving the door open will help spread warmth through the rest of your home.

7.0 Maintenance of The Hurunui ULEB

Further sections will describe the systematic process of regular and periodic maintenance and servicing of different parts of the firebox and flue. Replace parts only with genuine GLEN DIMPLEX spare components:

7.1 Ash Removal

Ash removal is necessary when the ash level is up to the lower door opening. Before carrying out ash removal, make sure that the burner is cold and there are no hot embers in the firebox. Simply shovel out any excess, leaving a 15-20mm bed of ash in the firebox. Place the removed ashes in a non-combustible container with a tightly fitting lid, and move the container outdoors immediately to a place clear of combustible materials.

7.2 Cleaning the Glass

A good hot fire will burn away any deposits left from a long slow burn. A dampened newspaper with ash or a non-caustic oven cleaner can be used to clean the glass.

7.3 Cleaning the External & Internal Fire Panels

A soft cloth is sufficient to clean and maintain the finish of the panels, cooktop, and the pedestal foot of the Hurunui fire. The household detergent may damage painted panels or give bad odors while running the fire.

Under no circumstances should a wet cloth or similar be used in the cleaning process of any external or internal panel or parts of the fire, as it will erode the painted finish.

7.4 Adjusting the Door Latch

- Open the main fuel loading door
- Remove the grub screw pin from the bush, which is on the inner side of the door, just above the door spindle.
- This screw stops the full rotation of the handle.
- Wind the door handle in or out depending upon whether you want to loosen or tighten the door seal.
- Sandwich a piece of paper between the firebox edge and the door seal to check the door seal.
- Close the door and try to pull the piece of paper.
- The paper will be jammed or slide with effort when the seal is good or sufficient.
- Carry out this test on all four sides of the door to ensure the seal is even on all sides.

7.5 Door and Door Glass Seals

Door seals of the main door should be checked and, if required, will need replacement periodically depending upon the usage of the Hurunui burner. Over the period, the door and glass seals will become hard and cause air to leak into the firebox. This excess air can lead to the 'over-firing' of the burner and damage the burner parts. If any part of the burner or flue system is glowing, the burner is over-fired.

7.6 Heat Output Control (Air Slide)

If the air slide does not move freely, have an installer inspect the unit and apply a small amount of heat resistant air slide lubricant available from Glen Dimplex

7.7 Firebox Ceramic Bricks

The ceramic bricks in your Hurunui burner are essential to achieving a clean and efficient burn. These bricks are likely to degrade with time and will need replacement periodically. The life of the bricks will depend upon usage, type of fuel burnt, and care taken during operations and maintenance. The bricks are held in place using the brackets welded to the firebox sides and the rear. Due to the high temperature in the firebox, the bricks may crack with use, and this is normal. If the bricks crack but remain in place, it will not affect the performance of the fire and subsequently can continue to be used. The bricks should be replaced only when they are damaged enough in place and cannot perform their intended task. Refer to Fig in section 3.7 for the location and sequence of assembly of bricks in the firebox of the Hurunui burner.

7.8 Firebox Baffle

- The stainless steel baffle used in Hurunui ULEB is made of thick gauge stainless steel and, hence, is heavy to handle. It has a rear air intake chute, which needs to be fitted properly into the slot on the back wall of the fire. For flue cleaning, this baffle must be removed as described below.
- First, pull forward the front baffle slightly to disengage the rear chute from the slot on the rear wall. Then push it to one side so that the baffle is off the other side's support. Keep dropping and tilting the other side to dislodge it entirely from the supports and then manoeuvre the baffle out of the firebox.
- For replacing the baffle, reverse the steps mentioned above.
- Check that the baffle is locked and hard up against the rear wall of the firebox.

7.9 Flue Inspection & Cleaning

The flue system should be checked at least once a year depending upon usage and, if needed, be swept by a professional chimney sweep. Do not use chemical chimney cleaners. Check the flue sections nearest the firebox. If a flue system is becoming excessively blocked or needs frequent cleaning, investigate the installation, fuel, and operation of the burner with the help of a professional.

First, remove all the ceramic bricks and the baffle. This will enable to drop and collect all the chimney dirt into the firebox without removing the main flue pipe. Once the chimney sweep operation is complete, clean the firebox chamber properly and put back both the front & rear baffle, both the air tubes and the bricks.

8.0 Hurunui Replacement Parts

Some parts of the Hurunui burner are considered consumable. These parts will wear out or degrade over time. The life of these parts will vary upon

- How frequently fire is used
- Type of fuel. Some species of wood fuel are harsher than others.

Following items are considered as operational consumables:

- Bricks - Set of ceramic bricks for the main combustion chamber or firebox.
- Stainless Steel Baffle
- Front Air Deflector.
- Seals - Main Door Seal and Door Glass Seal
- Door Glass - Main Door Glass
- Door locking mechanism and start-up latch

These consumable parts should be replaced as soon as they show signs of wear. Running your burner with worn or broken parts may result in reduced output, an increase in fuel consumption, and even damage the burner's firebox or other vital parts. We highly recommend a frequent visual check of these consumables and other parts of the burner.

9.0 Common Issues and Problem Solving

1. **Blackening of the door glass** - Blacking of the glass can be caused due to wood that is not seasoned, wet, or running the heater on low for long periods. Very resinous wood may also cause this issue. Poor seals on the door may also be a factor. Ensure only dry seasoned wood is used.

To remove the dirty film, try the following:

- a. Burn the fire hot with the full load and air slide on a high setting for 30 minutes.
- b. Try to clean glass with damp newspaper and ash when the fire has completely cooled down
- c. Try using non-caustic oven cleaner

Caution: Do not scrub using steel products or abrasive material, as it can leave scratch marks on the glass or damage printing on the glass.

As per the new air plan, it is an offense in the Environment Canterbury region to burn wood with greater than 25% moisture.

2. **Paint discoloration, paint damage** - The paint on your heater will dull off over time, and this is a normal process. Painted surfaces will get scratched, and paint lifting will occur due to vigorous cleaning or the use of cleaning products.

A soft rag is sufficient to clean and maintain the finish of the panels, cooktop, and the pedestal foot of the Hurunui fire. The household detergent may damage painted panels or give bad odors while running the fire. **Under no circumstances should a wet cloth or similar be used in the cleaning process of any external or internal panel or parts of the fire, as it will result in corrosion of the painted finish.**

General dulling of the paint can be resolved with light sanding and a re-spraying using the Stove Bright P22 metallic spray can.

3. **Smoke into the room** - Smoke entering the room when the door has been opened can result from negative pressure in the home. This can occur due to heat transfer kits, extractor fans, well-sealed homes not allowing the heater to draw combustion air, environmental pressures due to terrain large trees nearby, and/or pressures caused by roof pitch and staggered roof levels.

To prevent this extreme negative pressure, open a window approximately 6mm to allow combustion air to enter the room. Adding a vent in the ceiling will enable air to enter the room, reducing negative pressure and can help with air starvation.

4. Performance issues - Several things can influence the lack of performance. The various factors can be wood with high moisture content (Masport recommends this be between 16-20%), negative room pressure/air starvation, running the heater on a lower air setting for prolonged periods, blocked flue pipe, or incorrect wood species.

Using appropriate wood fuel and operating the fire as per sections 5.0 and 6.0 will help tackle the performance issues. Opening a window or adding a vent in the ceiling will allow air to enter the room, reducing negative pressure and can help with the air starvation issue.

5. Consumable components - Several components are considered consumable, as mentioned in section 8 of this manual. Please check the warranty for specific details on these. Operational consumables should be replaced as soon as they show of wear.
6. Rust issues - Rust will only form when there is moisture present; please note that the stove bright paint is porous and will allow moisture through to the steel underneath it. Masport does not recommend cleaning your heater with damp/wet clothes or cleaning agents. Only the use of dry lint-free cloth is advised. If rust does form, please have the unit inspected by your local dealer/installer, and they can best advise how to remedy this. Heavy rust may indicate a leak, possibly from the installation.
7. Noise induced by the environment - sometimes high winds, terrain, roof pitches, and surrounding trees can affect the flue system. This can result in adverse conditions creating noise within the heater and on the flue pipes. Expansion noise in the firebox and flue system is normal, but excessive noise could indicate a possible fault with the installation.

In most cases, the noise occurs when the fire is not running. Using the start-up latch and keeping the door slightly ajar in a controlled fashion help eliminate this noise issue. Contact an experienced installer to check the installation thoroughly if the noise occurs when the fire is running.

GLEN DIMPLEX WARRANTY REGISTRATION **HURUNUI ULTRA LOW EMISSION BURNER**

Thank you for purchasing a Masport Fire. We ask you to complete the following information and return it to the Glen Dimplex Warranty Registration Department at the following address:

New Zealand : P O Box 58473, Botany, Manukau 2163, Auckland

Mr / Mrs / Miss / Ms Name: _____

Address: _____

Post Code: _____

Telephone: _____ Fax: _____

Email _____

Model: _____ Serial Number: _____

Retailer: _____ Purchase Date: _____

Price: _____

Installed By: _____ Date Installed: _____

We at Glen Dimplex strive to provide you with quality products and have a continuous product development program. To help achieve our objectives to our mutual benefit, we would welcome your feedback on the following questionnaire.

Question	Please tick appropriate remark			
1.General presentation of Product	<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Ok	<input type="checkbox"/> Needs to Improve
2.Styling and Looks	<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Ok	<input type="checkbox"/> Needs to Improve
3.Packaging	<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Ok	<input type="checkbox"/> Needs to Improve
4.Is documentation easy to follow and informative?	<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Ok	<input type="checkbox"/> Needs to Improve
5.Fixtures & Fittings (Loose parts)	<input type="checkbox"/> In order	<input type="checkbox"/> Items missing	<input type="checkbox"/> Needs to Improve	
6.Do you currently own Masport or Dimplex product?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Which? -	
7.Why did you decide on Masport? (tick one or more options)	<input type="checkbox"/> Knew this brand		<input type="checkbox"/> Suggested by Friend	
	<input type="checkbox"/> Dealer recommended		<input type="checkbox"/> Better Price	
	<input type="checkbox"/> Performance		<input type="checkbox"/> Features	
8.Other Comments	_____			

Privacy Act Notice: the owner named on the Warranty Registration consents and agrees that Glen Dimplex may retain and use the information in this warranty card, including details about the owner, for marketing and development purposes. The owner also agrees that Glen Dimplex also may share for purposes with [intended recipients of such information]. In accordance with the New Zealand Privacy Act 1993 and the Australian Privacy Act 1988, the owner shall have the right to request the correction of, as well as inspect, all personal information held by Glen Dimplex on that owner.

Please cut and mail this completed form within 30 days of installation to your Glen Dimplex Warranty Registration Department at the above address



WARRANTY FOR MASPORT HURUNUI ULTRA-LOW EMISSION BURNER

This warranty is provided in New Zealand by Glen Dimplex New Zealand Ltd and in Australia by Glen Dimplex Australia Pty Ltd. (together referred to as “Glen Dimplex”) This warranty is provided to the first domestic purchaser of a Masport Hurunui Ultra-Low Emission Burner. It applies from the date of purchase from or through an authorized Masport Fire Distributor in relation to each product or component for the period below.

TYPE OF PART	WARRANTY (In Years)	
	PARTS	LABOUR
BURNER'S STEEL FIRE BOX	15	5
STAINLESS STEEL BAFFLE	2	2
CERAMIC BRICKS	2	2
DOOR GLASS & SEAL	2	2
DOOR LOCKING MECHANISM PARTS	1	1
INTERNAL & EXTERNAL PAINT FINISH	1	1
GLEN DIMPLEX FLUE SYSTEM	1	1

During the warranty period, Glen Dimplex will repair or replace (at its option) any Masport Wood Fire which is found to be defective in materials or workmanship. Repairs will be carried out by an approved Masport Heating Service Agent.

What is covered under this warranty?

- Repair or replacement of parts
- Labour costs relating to the Wood Burner
- Reasonable transport or travel costs.

Consumers may have additional rights under the Consumer Guarantees Act 1993 (New Zealand) or the Australian Trade Practices Act 1974 including the Australian Consumer Law.

Conditions

This warranty does not apply and will be void where:

- The Wood Burner is not installed in accordance with AS/NZS2918/:2001 or any building code or consent;
- The Wood Burner is not installed by a qualified specialist installer;
- Any electrical work has not been carried out by a Registered Electrician;
- The Wood Burner has been moved and reinstalled, or has been modified in a manner that is not consistent with the Installation Guide or the Owner's Manual;
- The Wood Burner has not been installed, operated, or maintained according to the Installation and Operations Manual;
- The Wood Burner is acquired for business use in any way.

What is not covered?

- Wear and tear, including wear and tear through normal use on Multi-fuel fire grates and cast-iron firebox liners.
- Labour costs relating exclusively to components not manufactured by Glen Dimplex.
- Damage caused by incorrect use or the burning of treated or painted wood, driftwood or other fuels which are not recommended;
- Travel costs for a distance greater than 50 km from the nearest approved Masport Heating Service Agent. (The location of the Wood Fire must be advised to Glen Dimplex or its sales agents at the time of purchase or using warranty registration form)
- Defects, malfunctions, or failures caused by incorrect installation, poor installation, normal wear and tear, misuse, neglect, accidental damage, or failure to follow operating instructions in the Owner's Manual (including fuel selection, product operation and maintenance instructions), repairs or modifications by persons not authorised by Glen Dimplex, use of parts not supplied by Glen Dimplex, or damage or other events which have occurred since the product left the control of Glen Dimplex.
- Direct, indirect, or consequential losses or special damages of any kind (including costs of collection and delivery) other than repair or replacement of products or components under this warranty, where any goods are acquired or used for the purposes of a business;
- Performance issues due to site environmental conditions such as insufficient or excessive draught, down draft. Issues created due to such conditions are noise from the fire, smoke spillage into the room

How to obtain warranty service?

- Completed Warranty registration form (previous page) needs to be mailed within 30 days of installation to your Glen Dimplex Warranty Registration Department.
- Warranty Claims must be made at the place of purchase.
- Reasonable proof of purchase date is required to make a warranty claim. You should keep your purchase receipt.
- Warranty repair will be completed according to the normal work practices of the service agent.
- Make the faulty part(s) available to Glen Dimplex for inspection so that the validity of the claim can be established by them.

Manufactured in New Zealand by:

GLEN DIMPLEX NEW ZEALAND LTD

NZ Registration No – 1506305

P.O. Box 58473, Botany,

Manukau, Auckland 2163

Phone: 0800 666 2824

Fax : 09 274 8472

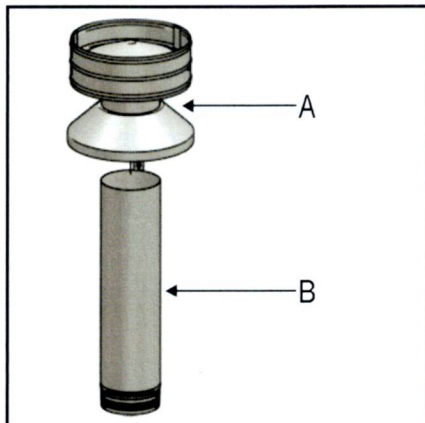
Email : sales@glendimplex.co.nz

Web : www.glendimplex.co.nz

GDFLU013M

Free Standing Flue Kit 150 With Combination Cowl
(with 1200mm long Outer Slip Extension & 900mm Long Double Flue Shield)

ROOF TERMINATION KIT 951909



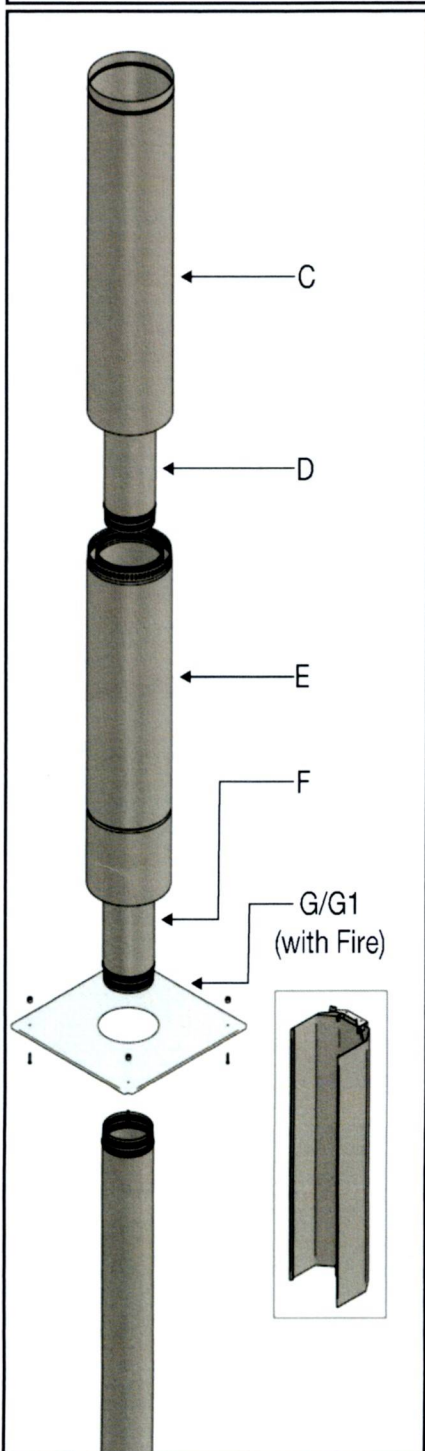
- | | | |
|------------|------------------------------------------------------|------------------|
| A | 1 X 150 Anti Down Draft Combination | 951916 |
| B | 1 X Flue 150mm x 600mm - 50mm to Swage, SS | 951208 |
| C | 1 X Outer Shield Case - 1200mm OD 253mm | 951222 |
| D | 1 X Flue 150 x 1200 -50mm to Swage- SS | 951200 |
| E | 1 X Comb. Casing - 200/250/1200, Galv. | 951903 |
| F | 2 X Flue 150 x 1200 - S/S - VHT | 951252V02 |
| G* | 1 X Ceiling Plate 504X504 SS (supplied with fire) OR | 983585 |
| G1* | 1 X Ceiling Plate 345X345 SS (supplied with fire) | 951515 |
| | 4 X Ceiling Plate Ceramic Spacers | 551207 |
| | 4 X Screw 10GX1-1/2" PAN POZI ZP | 521651 |
| | Flue Shield Installation Instruction | MFI00739 |
| | 150 4.2m Free Standing Install Instruction | 591224 |

983580 - 900 Long Double Flue Shield
(Can be ordered separately)

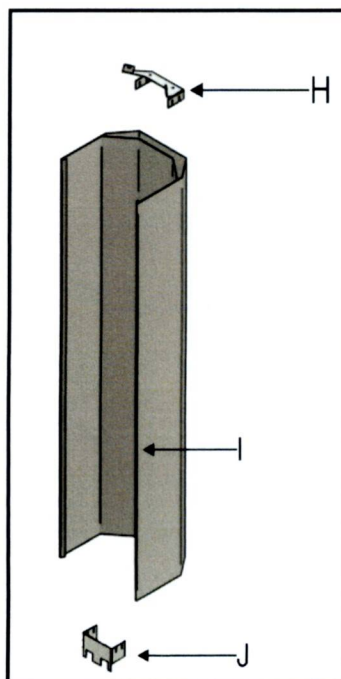
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|----------|------------------------------------|-----------------|
| H | 1 X MFI Flue Shield Top Bracket | MFI00097 |
| I | 1 X DD Double Flue Shield 900mm | 983981 |
| J | 1 X MFI Flue Shield Bottom Bracket | MFI00099 |

- G*** Used For R10000 Mackenzie
G1* Used For R1200, R3000, N15, N65, Rakaia, Waimakariri & Kronos MF Models

STARTER PACK 951910

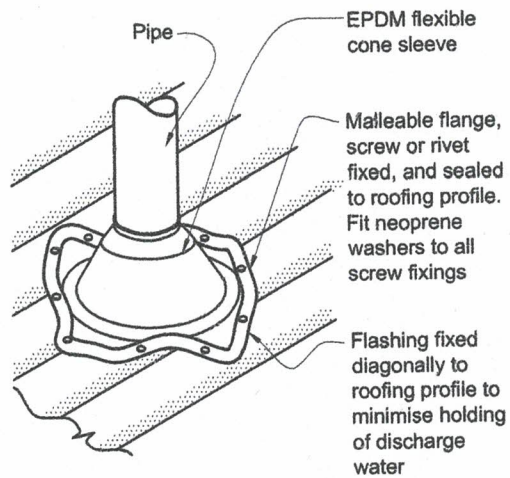


983580



This flue kit has been tested and complies to AS/NZS 2918:2001, Appendix F test.

Figure 53: Flashing for small pipes
 Paragraphs 8.3.10, 8.4.17, 9.6.8.5
 and 9.6.9.6



NOTE:

- (1) Max. roof pitch for this flashing 45°, minimum pitch 10° if base of flange covers one or more complete troughs.
 (2) For pipes up to 85 mm diameter.

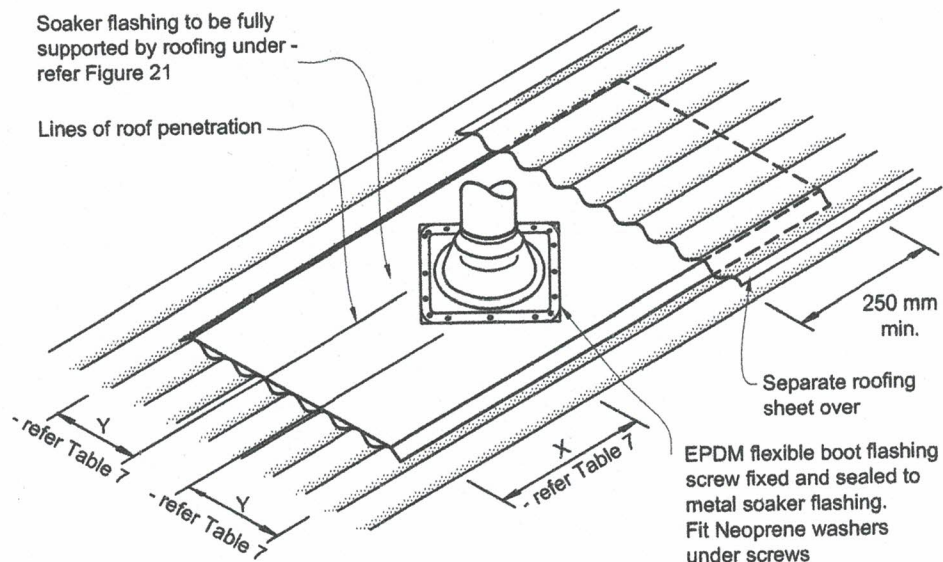
Amend 5
 Aug 2011

Figure 54: Soaker flashing for pipe penetrations
 Paragraph 8.4.17

- NOTE:** (1) Suitable for pipes from 86 mm to 500 mm diameter.
 (2) Suitable only for roof pitches of 10° or more.

Soaker flashing to be fully supported by roofing under - refer Figure 21

Lines of roof penetration



Errata 2
 Dec 2011

Amend 2
 Jul 2005

Amend 2
 Jul 2005

Amend 5
 Aug 2011