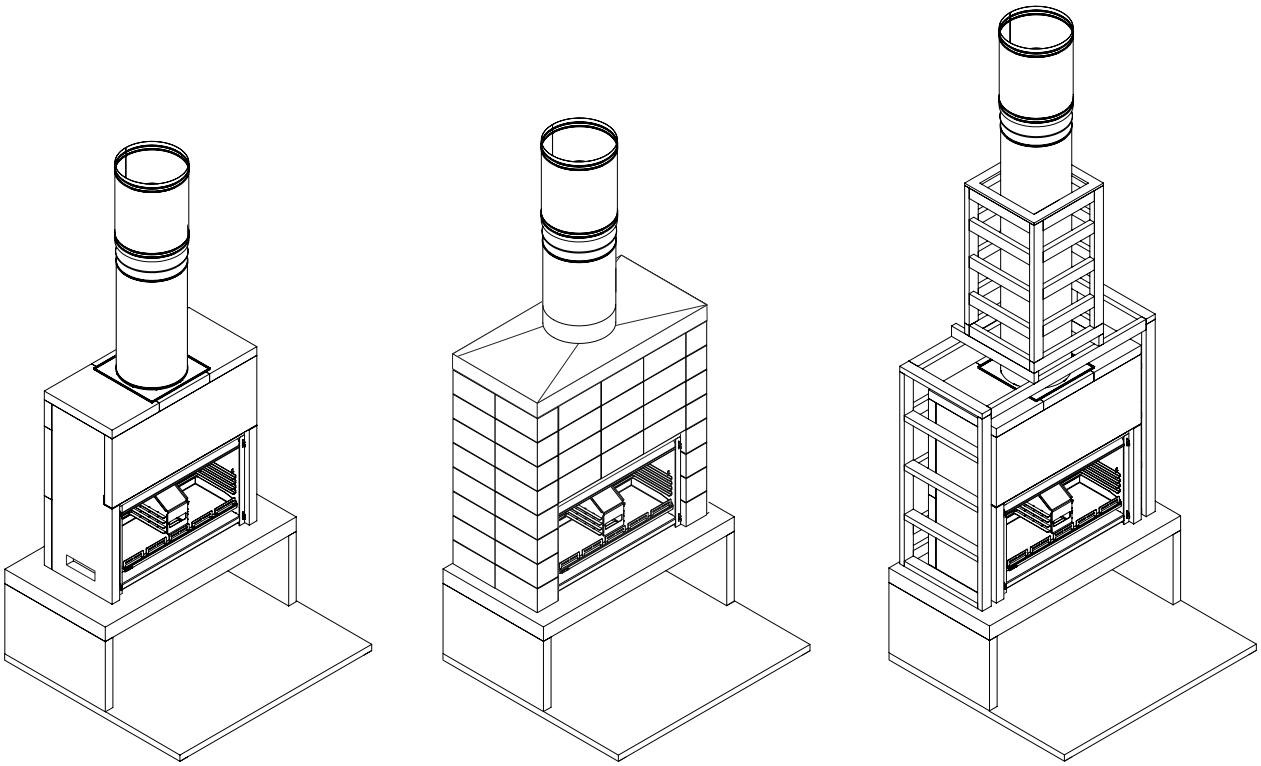
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metrofires

OUTDOOR 1200 INSERT

Outdoor fire installation and operation manual

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PIONEER MANUFACTURING LIMITED

19 Oropuriri Road, New Plymouth 4312
info@metrofires.co.nz | **www.metrofires.co.nz**

NZHHA New Zealand Home Heating Association Inc.

IMPORTANT INSTALLATION INFORMATION

⚠ WARNING! Important Information

WE HIGHLY RECOMMEND YOU READ THIS ENTIRE MANUAL AS INCORRECT OPERATION, MISUSE AND/OR LACK OF MAINTENANCE WILL VOID THE WARRANTY

- **The appliance and flue-system must be installed and operated in accordance with the detail contained within this manual and the appropriate requirements of the relevant building code(s)**
- **Any modification of the appliance that has not been approved in writing by the manufacturer is considered to be in breach of the warranty**
- **The appliance must be installed correctly. We recommend a competent and suitably qualified NZHHA installer**
- **DO NOT use your Outdoor 1200 for cooking purposes during the initial 2-3 burning cycles or after spraying with high temperature paint during regular maintenance**

⚠ CAUTION! Important Information

THE FIREPLACE MUST BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THIS MANUAL

- **Mixing of appliance or flue-system components from different sources or modifying the dimensional specification or components may result in hazardous conditions. Where such action is considered, the manufacturer should be consulted in the first instance**
- **DO NOT install a Metro Outdoor fire if there is any sign of visible damage to the product**
- **Use authorised Metro replacement parts only. The use of unauthorised parts may void the warranty**
- **This manual MUST be left with the home owner**

OUTDOOR 1200 INSERT

The Outdoor 1200 Insert is tek screwed to a wooden pallet. Having removed the external packaging and located this manual, please familiarise yourself with the illustration opposite and installation and operation details throughout this manual.

Your Outdoor 1200 is supplied partially assembled.

Packed inside the firebox is the following:

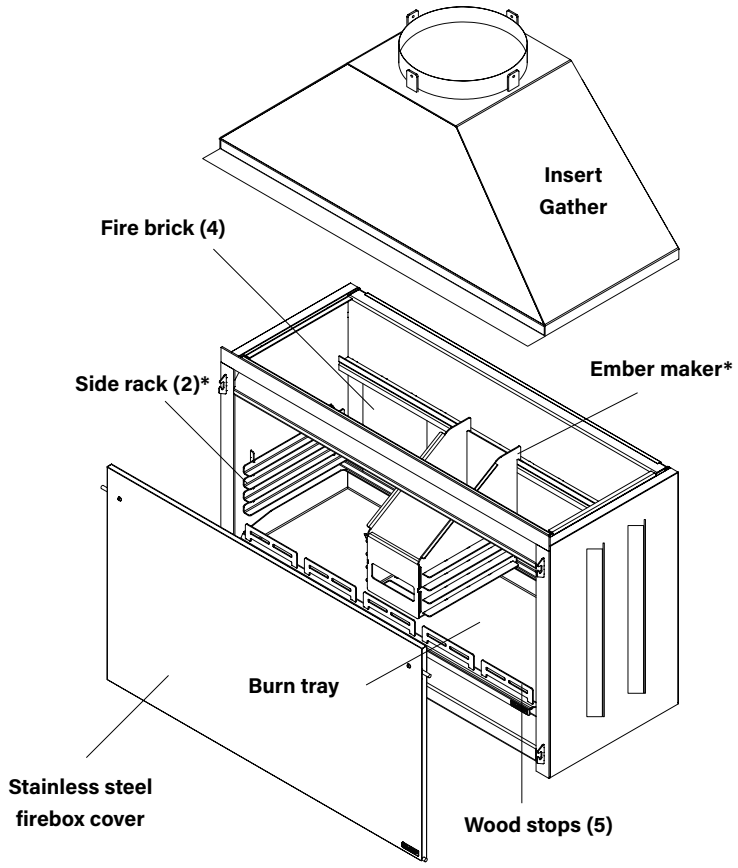
- 2x boxes of bricks (4x bricks)
- 1x ember tool and pair of fire mitts
- 5x burn tray wood stops
- 1x bolt bag of fastenings

+ the following cooking accessories if you have purchased the 1200 Braai Cooking Kit:

- 2x stainless steel side racks
- 2x stainless steel wire grills and 1x BBQ basket
- 1x stainless steel ember maker
- 1x cast iron cooking plate

You will also need the following tools (not included)

- 10mm ring spanner
- 8mm and 10mm socket ratchet
- Power drill and 3.2mm drill bit to suit rivet
- 4mm and 5mm Hex key
- Pop rivet gun
- 3.2mm multi grip stainless steel rivets
- Pioneer Fire Cement 300ml cartridge



* Items included with the 1200 Braai Cooking Kit.

INSTALLATION OPTIONS

⚠ WARNING! Important Information

- **The Outdoor 1200 is for outdoor use only and cannot be installed inside the home. Confirm with the local building authority or your Metro stockist for the outdoor fire regulations in your local area**
- **DO NOT install the Outdoor 1200 onto a timber or combustible base. Installation must be onto a non combustible base and secured by fixing points located in the base of the firebox.**
- **Confirm all safety clearances will be met prior to installation**
- **Prior to installing the flue system, take careful note to ensure there are no overhead power lines in close proximity.**

⚠ CAUTION! Important Information

- **DO NOT attempt to lift the fire by yourself. The Outdoor 1200 is extremely heavy weighing approximately 240kgs including the gather. Safe working practices and appropriate lifting equipment must be used to install this appliance to avoid accident or injury**
- **Please take care when lifting the Outdoor 1200 into place as point loading may damage and/or scratch surfaces. We recommend a multi-person lift only. Ensure you keep weight central to avoid topple over during assembly and/or movement of the fire**

Installation options

The Outdoor 1200 Insert and flue-system can be installed into a non-combustible masonry cavity/enclosure (e.g solid concrete, concrete block, brick, Autoclaved Aerated Concrete (AAC) block/panel etc) or into a timber framed cavity/enclosure using a non-combustible 'AAC heat cell' to insulate the firebox from combustible materials.

The installation of the 1200 Insert may require building consent before installation commencing. Check with your local building authority whether there are any additional requirements for installation.

We recommend an NZHHA trained SFAIT (Solid Fuel Appliance Installation technician) to install the Outdoor 1200 Insert. The installation must comply with the appropriate requirements of AS/NZS 2918 and the relevant local building code(s).

Masonry enclosure installation

The masonry enclosure must be free of all combustible materials.

Use minimum 75mm thick brick, Autoclaved Aerated Concrete (AAC) panels, or concrete blocks for building the masonry cavity. AAC Cell construction detail and panel sizes can be found on page 9. A minimum 5mm gap is required between the enclosure sides and firebox and the finished cavity opening needs to be maintained to allow for the expansion and contraction of the 1200 Insert.

All masonry construction and cladding must be constructed to suit an outdoor environment as per the NZ building code.

The masonry enclosure can be finished with plaster, tiles or similar non-combustible material. If using AAC panels/block, it is most common to plaster the AAC cell.

Please note: If plastering the completed structure, we recommend using a fibreglass mesh with a latex base solid plaster to minimise any chance of the plaster cracking. See your plasterer for the correct materials and application.

Timber framed enclosure installation

If the 1200 Insert is installed into a combustible structure (e.g timber framed cavity/enclosure) the firebox must first be installed into a AAC heat cell. 75mm thick AAC panels are used to construct a 'heat cell' around the firebox to insulate the firebox from the combustible structure.

The AAC heat cell requires venting to provide fresh air into, and heated air out of the heat cell. See 'Enclosure venting' on page 10.

Wall lining or finishes applied to the front face of the enclosure must be non-combustible material such as Promina, Eterpan (or equivalent). Lining or cladding to the sides of the enclosure can be a combustible material with an appropriate coating for weatherproofing.

Full AAC heat cell detail and panel sizes can be found on page 9.

Base/plinth construction

The 1200 Insert must be installed onto a completely non-combustible base only, with a minimum thickness of 125mm. The base must be designed and constructed with sufficient supports to bear the total weight of the firebox, flue kit, chimney cap and total weight of the AAC heat cell including the chosen finishing material (plaster, tile, stone etc).

For optimal operating height it is recommended to install the firebox at 735mm from floor level to the base of the cavity opening. A minimum clearance from the top of the firebox opening to a heat sensitive ceiling or roof above the installation is 1100mm as detailed on page 15.

Please note: A base opening dimension beneath the firebox of 1300mm wide with an internal depth of 750mm will allow you to fit door rails to the inside of the base to store the stainless steel door cover beneath the fireplace during operation.

Venting the enclosure

The 1200 Insert requires venting to both sides of the enclosure to the minimum requirements detailed on page 10. Venting of the enclosure is required irrespective of whether the enclosure is masonry or timber framed construction.

Venting will require suitable precautions to prevent rodents and debris from entering or restricting the air vents. If grilles are used, the minimum vent area must be maintained through the grille itself.

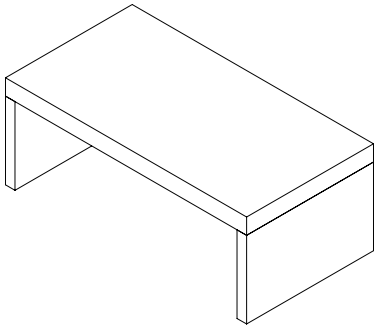
MASONRY ENCLOSURE INSTALLATION STAGES

⚠ CAUTION! Important Information

Installation of the Outdoor 1200 Insert needs to be completed in specific stages, so ensure you read this entire manual thoroughly to plan the installation (Pages 2-15).

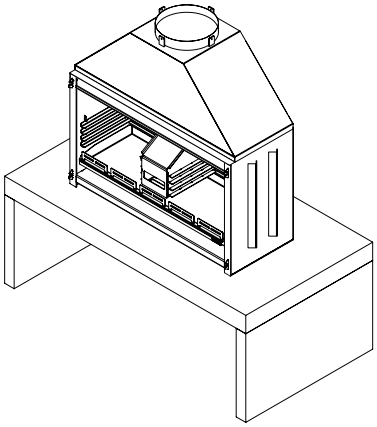
All masonry construction and cladding must be constructed to suit an outdoor environment as per the NZ building code.

Note: A custom made chimney cap is required to suit the finished size of your masonry structure (not included). Contact www.sfp.co.nz for chimney cap manufacture.



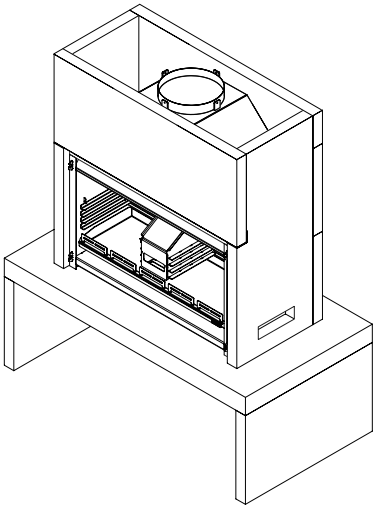
STAGE ONE

Construct a non-combustible base as detailed. Consider floor protector requirements.



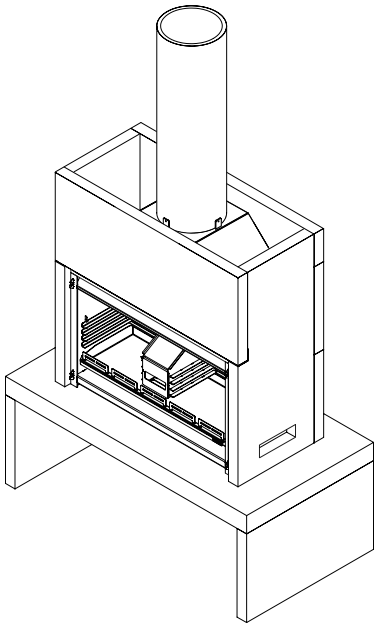
STAGE TWO

Lift the firebox onto the base and fit the gather. Fix seismic restraints through firebox into base.



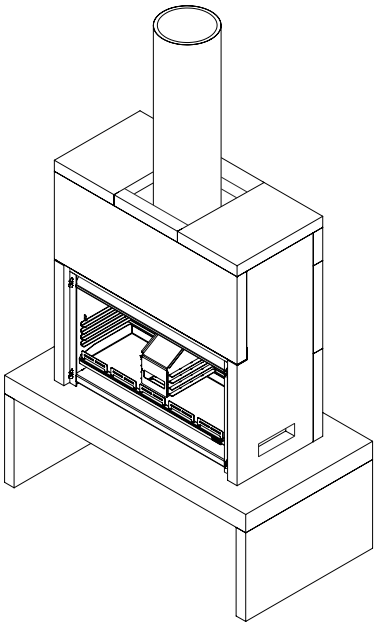
STAGE THREE

Construct the AAC panel/masonry enclosure around the firebox to the top of the gather.



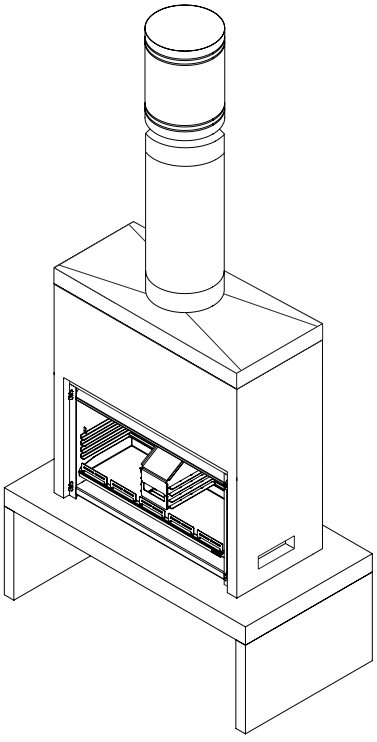
STAGE FOUR

Install the 350 fluepipe and fix the 400 flue liner to the firebox spigot.



STAGE FIVE

Complete the AAC panel/masonry enclosure, cladding/finish and venting requirements.



STAGE SIX

Fit your custom made chimney cap, final flue termination and floor protector.

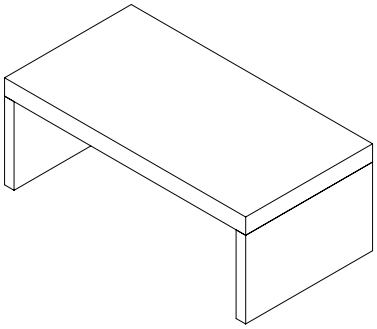
TIMBER ENCLOSURE/AAC HEAT CELL INSTALLATION STAGES

⚠ CAUTION! Important Information

Installation of the Outdoor 1200 Insert needs to be completed in specific stages, so ensure you read this entire manual thoroughly to plan the installation (Pages 2-15).

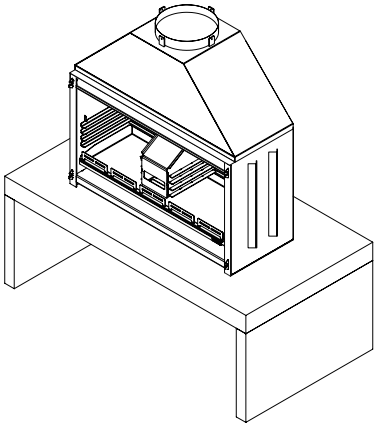
All timber construction and cladding must be constructed to suit an outdoor environment as per the NZ building code.

Note: The liner adaptor plate is available to purchase as an optional extra. SKU 300-0475



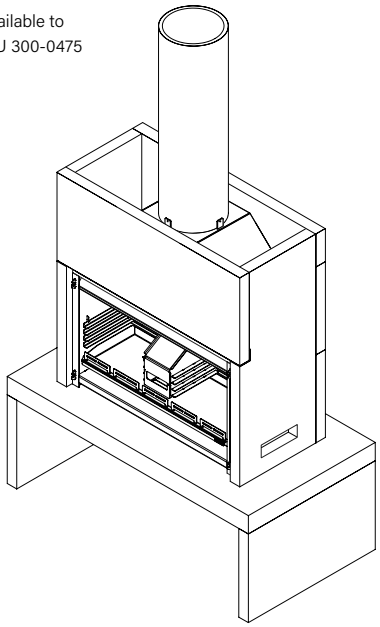
STAGE ONE

Construct a non-combustible base as detailed. Consider floor protector requirements.



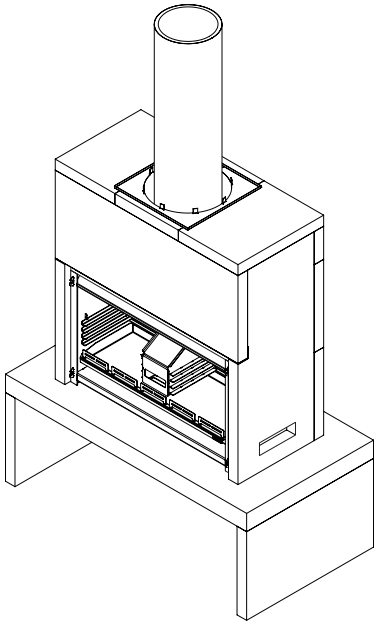
STAGE TWO

Lift the firebox onto the base and fit the gather. Fix seismic restraints through firebox into base.



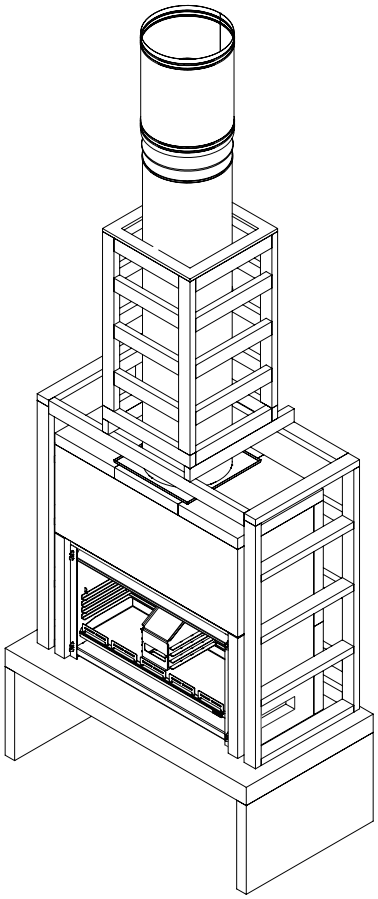
STAGE THREE

Construct the AAC enclosure around the firebox and install the 350 fluepipe and 400 flue liner.



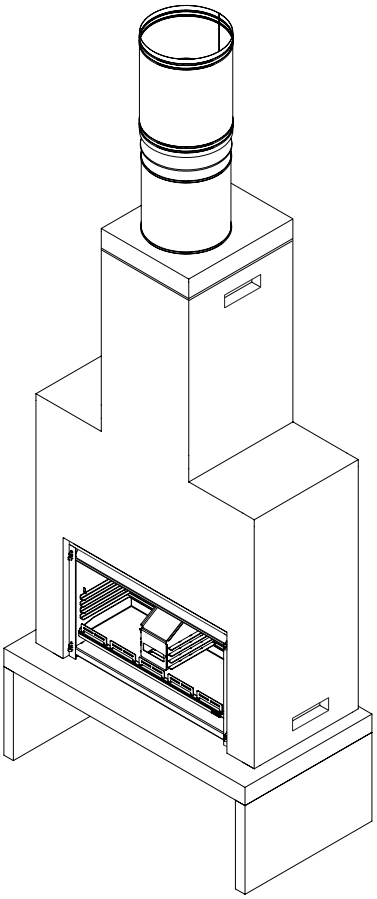
STAGE FOUR

Complete the AAC panel/masonry enclosure and fit the liner adaptor plate for the 500 liner.



STAGE FIVE

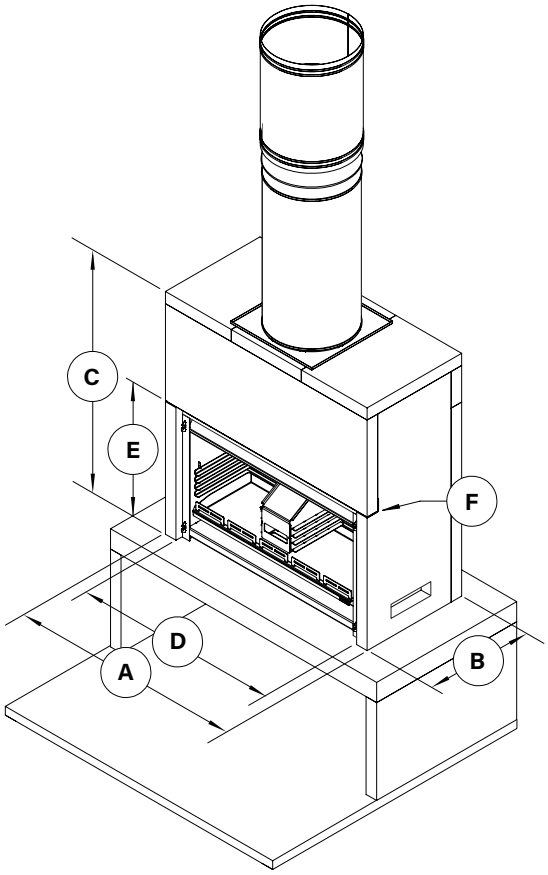
Construct the outer framing and install flue components as the height increases.

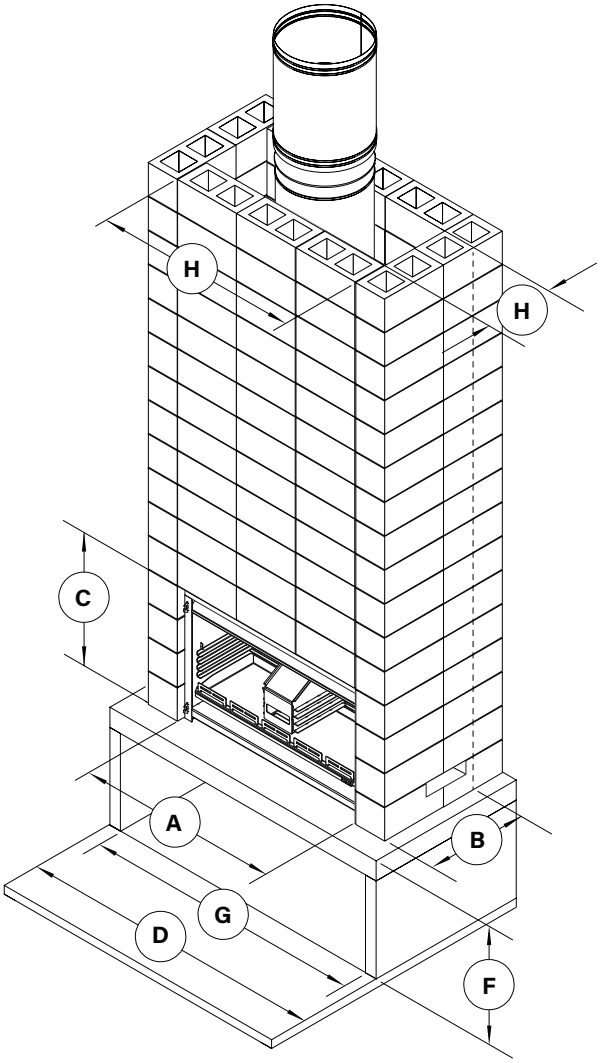


STAGE SIX

Finish the enclosure cladding, venting, floor protector and final flue termination.

AAC/MASONRY ENCLOSURE INSTALLATION





AAC ENCLOSURE SPECIFICATIONS (mm)

Item	Description	Dimension
A	Overall width	1440
B	Overall depth	675
C	Overall height	1500
D	Opening width	1290
E	Opening height	825
F	Steel lintel (4mm thickness)	1440x75x75

See page 9 for AAC heat cell specifications and construction.

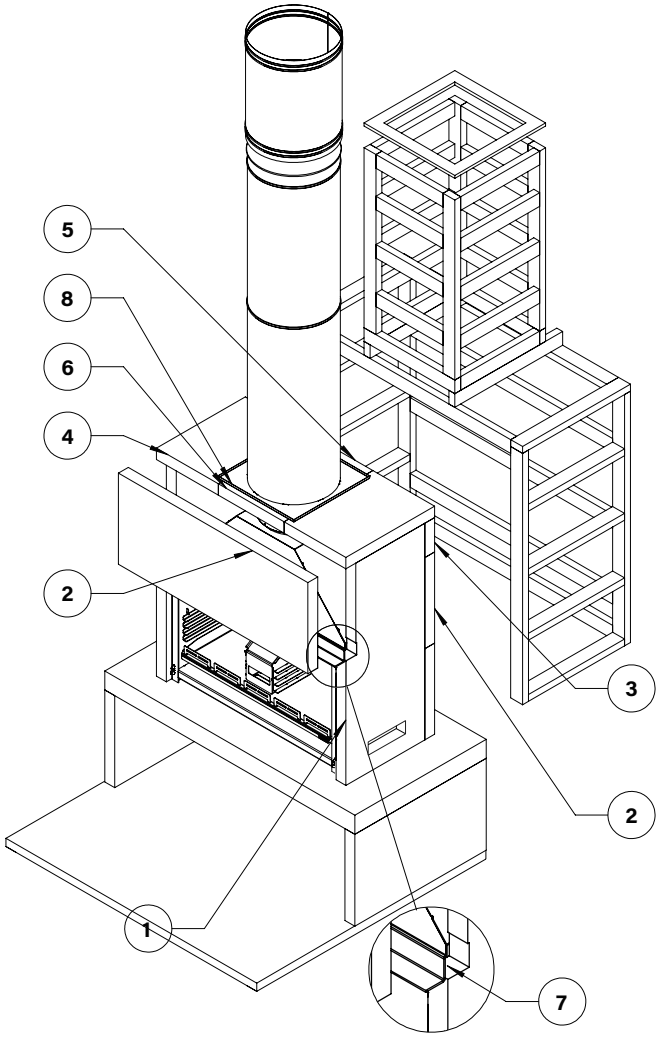
MASONRY ENCLOSURE SPECIFICATIONS (mm)

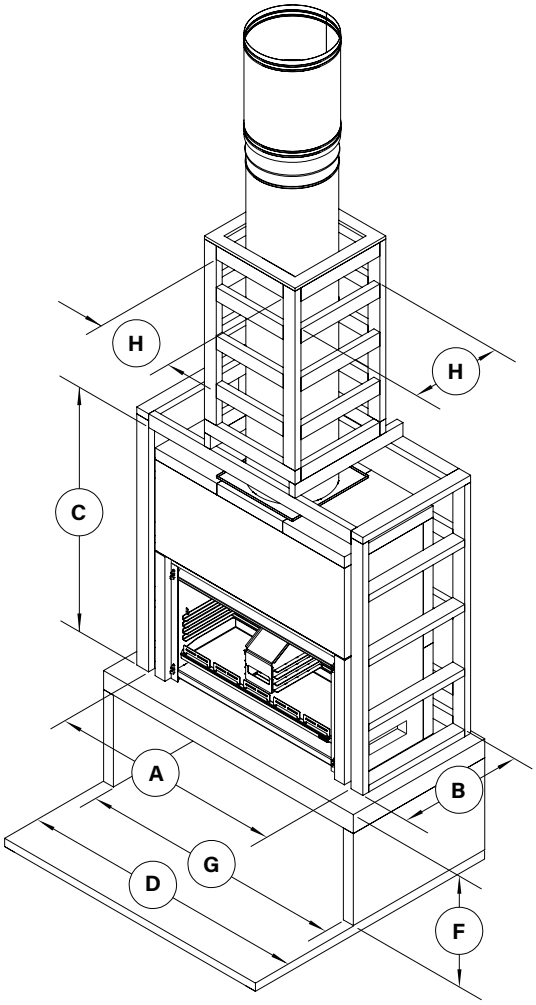
Item	Description	Dimension
A	Cavity opening width	1290
B	Cavity opening depth (minimum)	600
C	Cavity opening height	825
D	Hearth (floor protector width)	1880
E	Hearth (floor protector projection)	500 / 700
F	Recommended base/plinth height	735
G	Recommended base/plinth opening	1300w x 750d
H	Chimney chase minimum opening	550

⚠ CAUTION! Important Information

- **All enclosure dimensions are the minimum required and are internal cavity dimensions only**
- **The fireplace, flue system and masonry cavity construction must comply with this Installation manual, manufacturers specifications, local and national building code(s) and any relevant statutory regulations including AS/NZS 2918**
- **The Outdoor 1200 firebox is recessed 40mm into the AAC heat cell/masonry enclosure**
- **The AAC heat cell/masonry enclosure requires venting as detailed on page 10.**

TIMBER ENCLOSURE INSTALLATION





AAC HEAT CELL PANEL SIZES (mm)

Item	Description	Quantity
1	1425 x 600 x 75 AAC panel (75x600mm notch)	2
2	1440 x 600 x 75 AAC panel	3
3	720 x 226 x 75 AAC panel	2
4	675 x 470 x 75 AAC panel	2
5	500 x 95 x 75 AAC panel	1
6	500 x 75 x 75 AAC panel	1
7	1440 x 75 x 75 x 4 thick steel lintel	1
8	Liner adaptor plate (timber enclosure only)	1

MINIMUM FRAMING & HEAT CELL CLEARANCES (mm)

Item	Description	Dimension
A	Framed opening width	1490
B	Framed opening internal depth	750
C	Framed opening height	1630
D	Hearth (floor protector width)	1880
E	Hearth (floor protector projection)	500 / 700
F	Recommended base/plinth height	735
G	Recommended base/plinth opening	1300w x 750d
H	Chimney chase minimum opening	550

⚠ CAUTION! Important Information

- **All framing dimensions are the minimum required and are internal cavity dimensions only**
- **The fireplace, flue system and timber cavity construction must comply with this Installation manual, manufacturers specifications, local and national building code(s) and any relevant statutory regulations including AS/NZS 2918**
- **The Outdoor 1200 firebox is recessed 40mm into the AAC heat cell inside the timber framed enclosure**
- **A 25mm minimum clearance to all combustible material must be maintained at all times**
- **The AAC heat cell and timber framed enclosure require venting as detailed on page 10.**

FIREBOX ASSEMBLY AND INSTALLATION

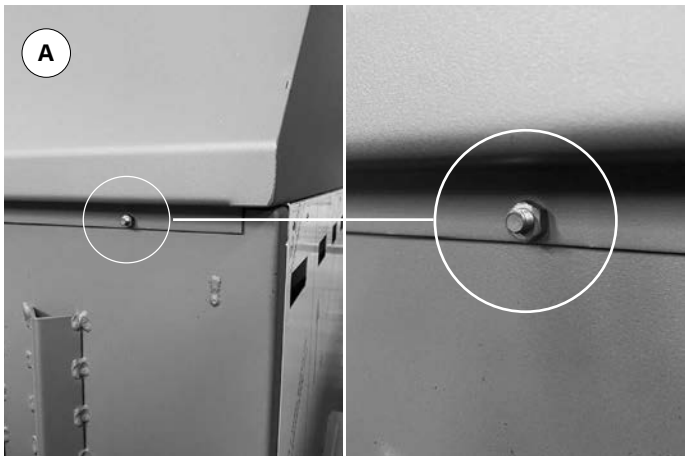
Installation location

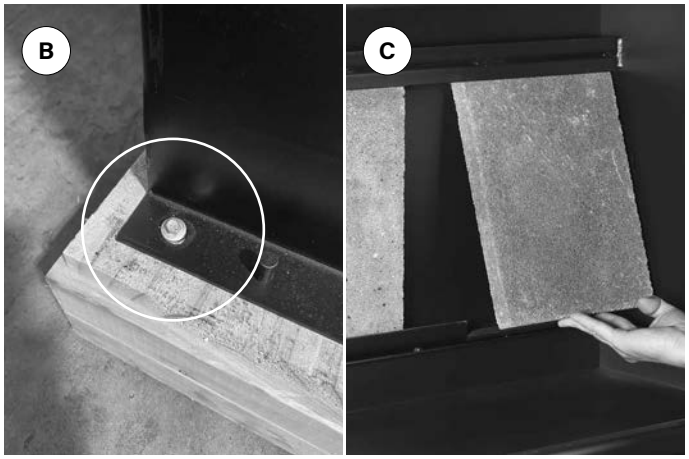
Evaluate the location for your outdoor fire, surroundings, and neighbouring properties. The land's topography will have a bearing on how the wind and overall environment may affect the fire and flue system.

Consider surrounding trees, neighbouring property boundaries, buildings, or wooden fences. The Outdoor 1200 must be located a safe distance from any combustible objects as per the clearances detailed on pages 11 & 15.

Firebox assembly and installation

1. Carefully remove the packaging and check for any freight damage. If any damage to the product is found once the packaging is removed, DO NOT install and contact your Metro stockist immediately.
2. The Outdoor 1200 is fitted with a stainless steel door to protect the fire's interior when the appliance is not in operation. During operation, the door is easily removed and set aside.
3. The stainless steel door and rear heatshield are covered with a protective film for transit. This film must be removed from all panels prior to using the appliance.
4. Remove the door and place in a safe place taking care not to damage the stainless steel finish. (For transport purposes the door is fitted onto the outer face of the firebox facing inwards). Remove all the components from inside the firebox to make it easier to carry the firebox into position.
5. Using 2-4 people remove the gather from the top of the firebox and set aside. The gather is fixed to the firebox with 2x M6 bolts and nuts on opposing diagonal corners. (A)
6. The burn tray is held in place during transit using an R-clip located in the centre rear of the burn tray. Remove the R-clip to remove the burn tray from the firebox.
7. Remove the four tek screws located in the base feet of the firebox securing the fire to the wooden pallet (B) and using 4 people, carry the fire into position.
8. Fix down using 8mm dyna bolts or similar suitable fastening through the base feet where the 4x tek screws were removed from.
9. Using 2-4 people, lift the gather back into position on top of the firebox ensuring the 4 x attachment holes are lined up with the holes in the top of the firebox.
10. Using the 4 x M6 x 25mm bolts, nuts and washers supplied, fix through the gather and firebox and tighten.
11. Unbox the 4x fire bricks. These fit along the rear wall of the fire and sit in the horizontal track. Standing in front of the fire you will see a cut out on the right hand side of the brick track (C).
12. On an angle placing a brick under the upper track fit into position. Push the bottom of the brick against the rear wall of the fire and once the brick is sitting flush against the rear wall, slide the brick along to the left hand side of the firebox. Leave approximately a 90mm gap to the side wall of the fire box to the first brick.
13. Repeat until all four fire bricks are in position. Make sure all fire bricks are touching and centred along the rear wall of the firebox.
14. Re-fit the burn tray back into the firebox ensuring it is located correctly on the support lugs on each side of the firebox.





AAC HEAT CELL CONSTRUCTION

⚠ CAUTION! Important Information

- **The Outdoor 1200 Insert firebox is recessed 40mm into the AAC heat cell once construction is complete**
- **The AAC heat cell requires venting. Ensure that vents are cut into each side panel of the AAC heat cell to the minimum venting requirements detailed on page 10.**
- **The AAC heat cell is not designed to be load bearing**

The AAC heat cell for the Outdoor 1200 Insert is constructed using 5x AAC panels at 2400 x 600 x 75mm thick. The panel specification and cut sizes detailed below are the minimum requirements for the heat cell construction for the Outdoor 1200 Insert.

Please note: The AAC heat cell is not designed to be load bearing.

Cut and construct your AAC cell around the firebox and gather using the dimensional detail shown below. Ensure when gluing and screwing the AAC panels they are structurally sound and joints between panels are sealed. The panels must be mechanically and adhesive fixed following the manufacturers specifications.

The front panel of the AAC heat cell must be supported by a steel lintel measuring 75 x 75 x 4mm at 1440mm long (not supplied).

The AAC heat cell requires venting to provide fresh air into, and heated air out of the heat cell. Ensure side vents are cut into each side panel of the AAC cell to the minimum dimensions required (see page 10). Venting will require suitable precautions to prevent rodents and debris from entering or restricting the air vents. If grilles are used, the minimum vent area must be maintained through the grille itself.

Optional stainless steel vent covers (set of 2) are available from your Metro stockist for this purpose. (SKU 560-0220).

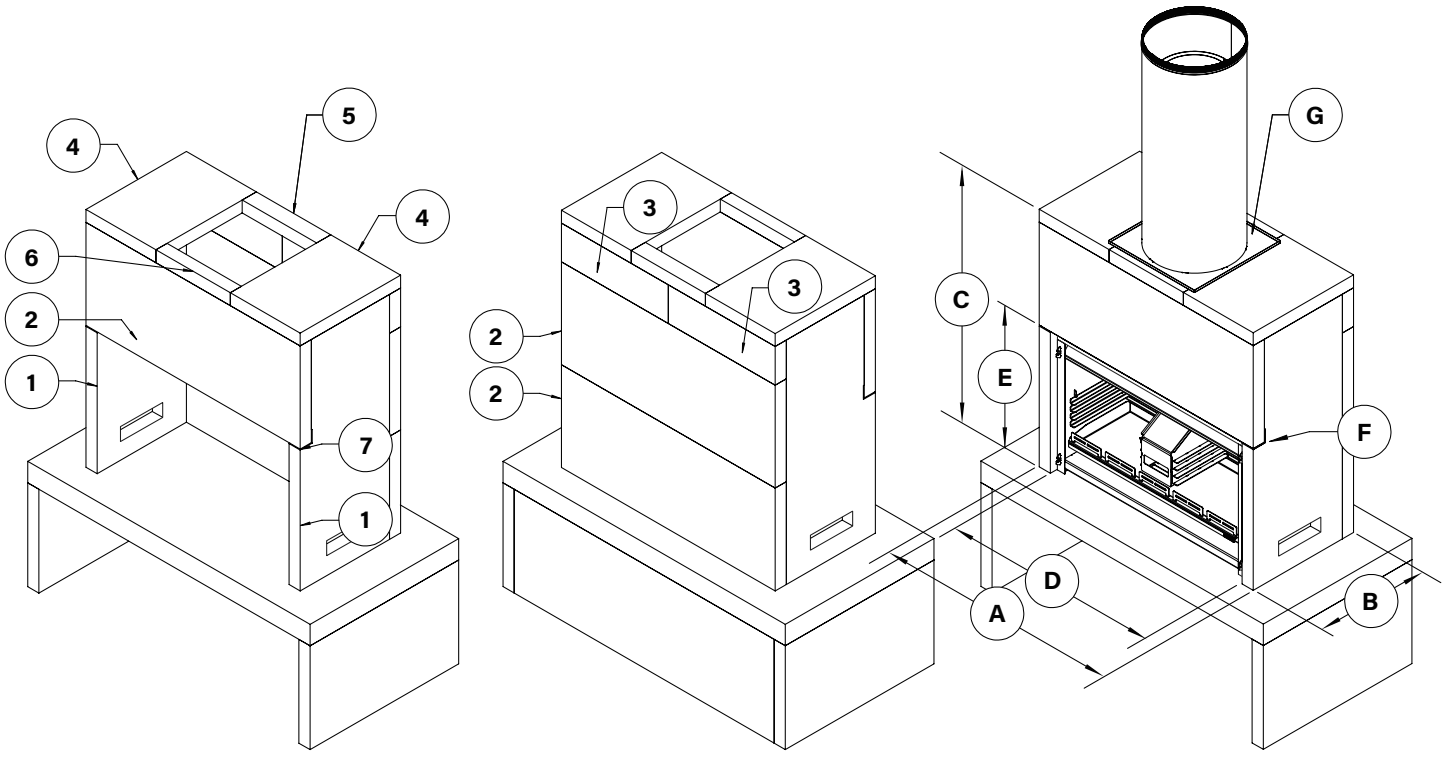
AAC HEAT CELL PANEL SIZES (mm)

Item	Description	Quantity
1	1425 x 600 x 75 AAC panel (75x600mm notch)	2
2	1440 x 600 x 75 AAC panel	3
3	720 x 226 x 75 AAC panel	2
4	675 x 470 x 75 AAC panel	2
5	500 x 95 x 75 AAC panel	1
6	500 x 75 x 75 AAC panel	1
7	1440 x 75 x 75 x 4 thick steel lintel	1

AAC ENCLOSURE SPECIFICATIONS (mm)

Item	Description	Dimension
A	Overall width	1440
B	Overall depth	675
C	Overall height	1500
D	Opening width	1290
E	Opening height	825
F	Steel lintel (4mm thickness)	1440x75x75
G	Liner adaptor plate (timber enclosure only)*	580x580

* The liner adaptor plate is not supplied with the Outdoor Insert flue system. It will be required to complete the AAC heat cell construction when the AAC heat cell is installed into a timber framed enclosure and can be supplied by your Metro stockist.



HEARTH (FLOOR PROTECTOR)

Floor protector requirements depend upon the elevation of the fire above floor level and the type of substrate beneath the installation.

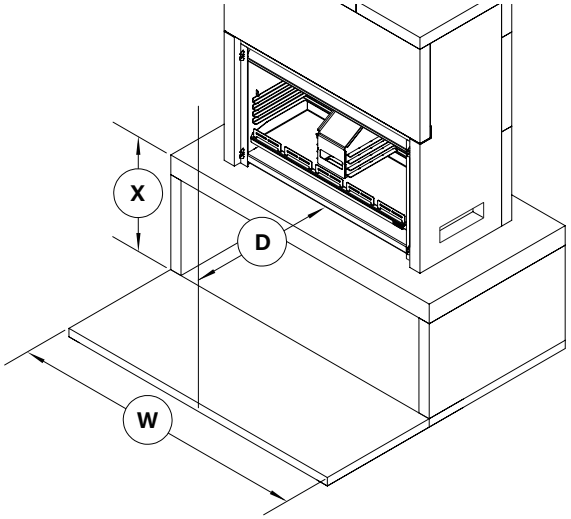
Firebox installation height >500mm (X)

Installation heights of 500mm or more above floor level only require an ash hearth floor protector which must project a minimum of 500mm out from the front face of the firebox (D).

Firebox installation height <500mm (X)

Installation heights below 500mm above floor level require a completely non-combustible insulated floor protector surface and structure and must project a minimum distance of 700mm out from the front face of the firebox (D). Refer to AS/NZS2918 Section 3.3 Floor Protectors for details.

All floor protectors for the Outdoor 1200 Insert must be a minimum width of 1880mm centred with the firebox opening (W).



ENCLOSURE VENTING

The Outdoor 1200 Insert requires venting to both sides of the enclosure to the minimum requirements detailed. All venting must comply with E2.

Venting will require suitable precautions to prevent rodents and debris from entering or restricting the air vents. If grilles are used, the minimum vent area must be maintained through the grille itself.

Optional stainless steel vent covers (set of 2) are available from your Metro stockist for this purpose. (SKU 560-0220).

Enclosure venting (base)

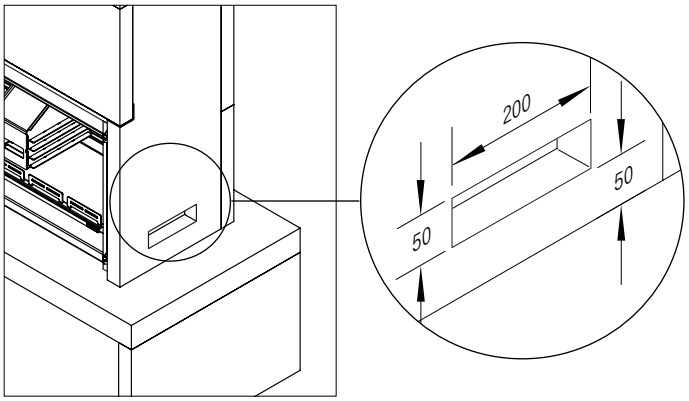
A minimum open unrestricted vent area of 5567mm^2 is required at the base of the enclosure to allow airflow around the firebox and flue liners. These vents must be positioned in both side walls as detailed below at a maximum height of 50mm above the base that firebox sits on.

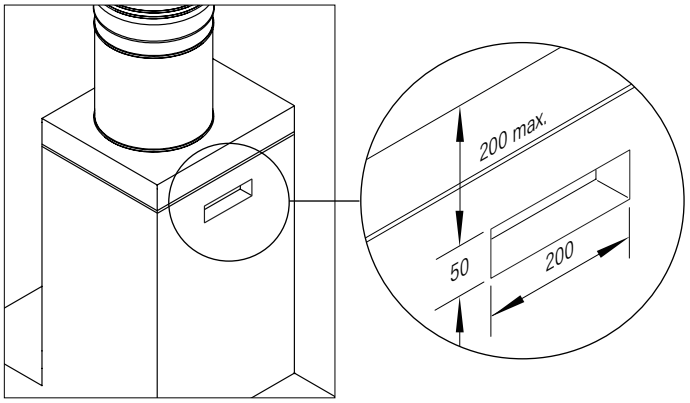
Please note: If installing into a AAC heat cell and timber framed enclosure, venting is required in both sides of the AAC heat cell and timber enclosure cladding as detailed. No timber work should align with vents as all venting must be kept clear from obstruction.

Enclosure venting (top)

A minimum open unrestricted vent area of 5567mm^2 is required at the top of the chimney chase. These vents must be positioned in both side walls of the enclosure as detailed below. The top of the vent outlet must be no more than 200mm from the top of the combustible chimney chase (not including the insulating board or chimney cap.

Please see page 14 for further information.





All measurements are detailed in millimetres (mm)

CLEARANCES AND SPECIFICATIONS

Installation clearances in the table below are for a freestanding enclosure to a combustible wall or fence to a maximum height of 2400mm. All clearances are measured from the following reference points as illustrated in the diagrams below:

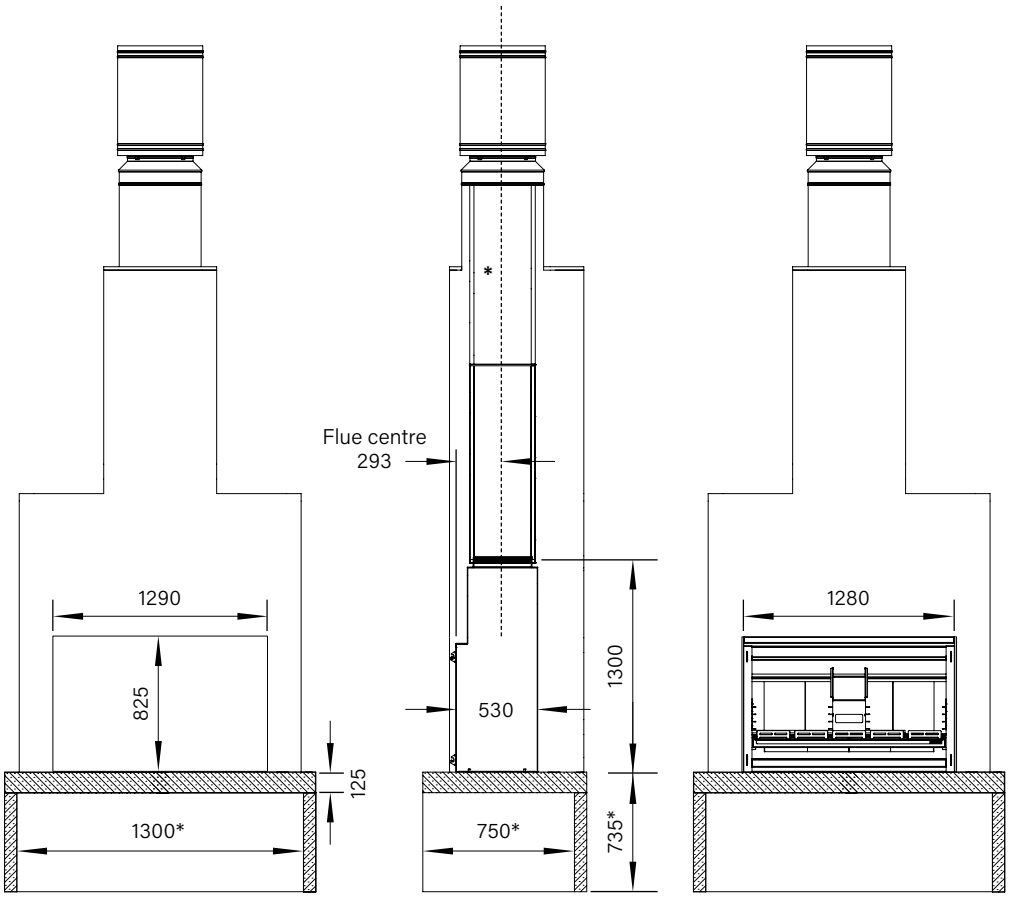
- The nearest combustible wall or surface (A, B, C, D)
- The edge of the ash floor protectors non-combustible surface (C, E)

When applying the minimum side clearance (B) to your installation, the adjacent combustible wall or surface must not project forward of the Outdoor 1200 firebox opening.

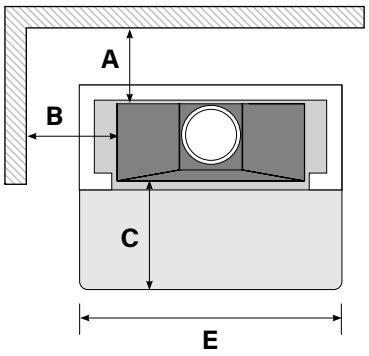
For installations into a masonry or timber framed enclosure beneath a roofed structure, please refer to the dimensions below and full specifications detailed throughout this manual.

⚠ WARNING! Important Information

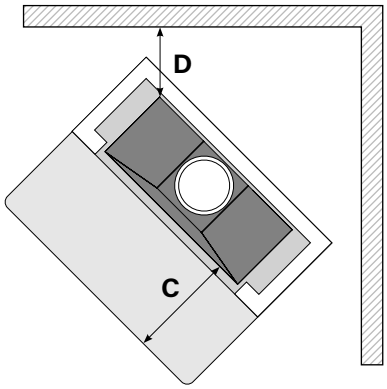
- **A minimum clearance of 25mm is required between the AAC heat cell and all combustible material**
- **The Outdoor 1200 Insert firebox is recessed approximately 40mm into the AAC heat cell when construction of the heat cell is complete**
- **The Outdoor 1200 Insert flue centre dimension of 293mm is measured from the front face of the Outdoor 1200 Insert firebox**



Wall installation



Corner installation



*Diagrams above show increased flue height using the optional 1200 Insert extension kit.

MINIMUM INSTALLATION CLEARANCES (mm)

A	B	C	D	E
250	500	500/700	250	1880

FIREBOX / GATHER

WIDTH	DEPTH	HEIGHT
1280	530	1300

RECOMMENDED BASE / PLINTH DIMENSIONS (mm)

MINIMUM THICKNESS	MINIMUM DEPTH	MINIMUM HEIGHT	INTERNAL WIDTH	INTERNAL DEPTH
125	530	735*	1300*	750*

CAVITY OPENING

WIDTH	DEPTH	HEIGHT
1290	600	825

* Minimum and recommended base/plinth dimensions are to suit storage of the stainless steel door/cover during operation of the Outdoor 1200.

Specifications were correct at the time of printing but may alter and those detailed within should be used only as a guide. Full assembly and installation instructions are detailed in the Outdoor Installation manuals available at metrofires.co.nz. If in doubt, please consult your local Metro Fires stockist or visit metrofires.co.nz.

FLUE KIT COMPONENTS

⚠ WARNING! Important Information

- **We strongly recommend using a qualified installer to assemble the fire and erect the flue system on your Outdoor 1200 insert**
- **Any modification to this flue system that has not been approved in writing by the manufacturer is considered to be in breach of all safety clearance approvals granted.**
- **Prior to installing the assembled flue pipe, take careful note to ensure there are no overhead power lines in close proximity**

⚠ CAUTION! Important Information

- **Mixing of appliance or flue-system components from different sources or modifying the dimensional specification or components may result in hazardous conditions. Where such action is considered, the manufacturer should be consulted in the first instance**
- **Please note the edges of the flue components are very sharp and care must be taken when handling them**

The Outdoor 1200 Insert has been tested with the Outdoor Insert flue kit only. For the Outdoor 1200 Insert to be installed with the minimum clearances as detailed, only the Outdoor Insert flue kit can be used. All other flue systems will invalidate the installation clearances.

We recommend that you use nitrile gloves to assemble the flue system. This is due to hand and finger marking showing on the flue after burning the fire. It will also pay to clean the flue system after assembly using a microfibre cloth and methylated spirits (ensure there is no methylated spirits contamination to the painted surfaces of the appliance).

Additional flue length may be required depending upon the installation location, the height of the enclosure, or to achieve sufficient flue draft.

If you have chosen to extend the flue system using the Outdoor Insert extension kit, this needs to be assembled / added below the 400mm vented liner (D), 500-400mm liner converter and short 350mm flue extension. An extended Outdoor flue system will be heavy and will require wind bracing support if exposed. Each extension flue join will need riveting at a minimum of 4 points around the circumference.

OUTDOOR 1200 INSERT FLUE KIT COMPONENTS

Item	Description	Quantity
A	670x525mm diameter s/steel pillar cowl housing	1
B	240x350mm diameter s/steel flue pipe extension	1
C	500-400mm diameter s/steel liner converter	1
D	175x400mm diameter s/steel vented liner	1
E	1200x500mm diameter s/steel outer liner	1
F	1200x400mm diameter s/steel inner liner	1
G	1200x350mm diameter s/steel flue pipe	1
+	Bolt bag	1

(+) Bolt bag contains: 4x M8x16 stainless steel dome head sockets, 4x 8mm flat washers and 8x 3.2mm stainless steel rivets

OUTDOOR 1200 INSERT FLUE EXTENSION KIT

Item	Description	Quantity
E	1200x500mm diameter s/steel outer liner	1
F	1200x400mm diameter s/steel inner liner	1
G	1200x350mm diameter s/steel flue pipe	1

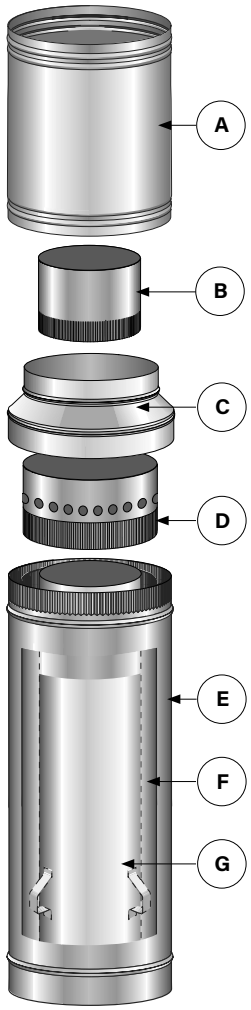
Flue termination must be in accordance with AS/NZS 2918 External Requirements and as detailed in the diagrams illustrated on page 15.

- All joints in the flue system should be sealed with Pioneer fire cement or a suitable high temperature sealant
- The flue termination may require a spark arrestor depending upon the local building authority rule.

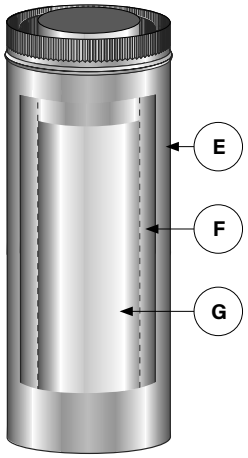
Note: Outdoor Insert 1.2m flue extension kits are available to extend the height of the Outdoor Insert flue system. Product Code: 300-0470

Note: A custom made chimney cap is required to suit the finished size of your non-combustible masonry structure (not included). Contact www.sfp.co.nz for custom made chimney cap manufacture.

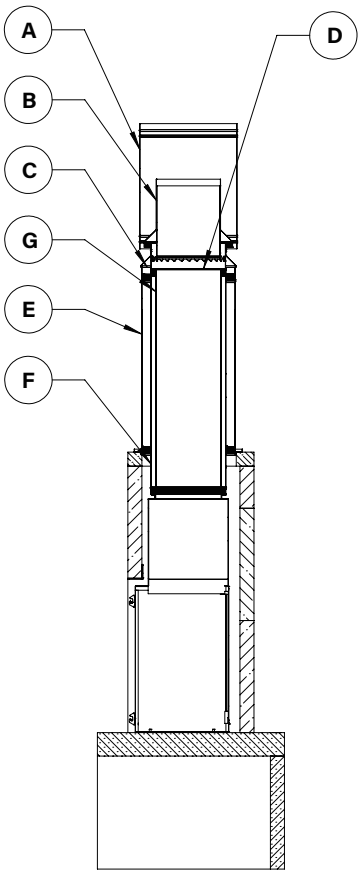
Insert flue kit



Insert extension kit*



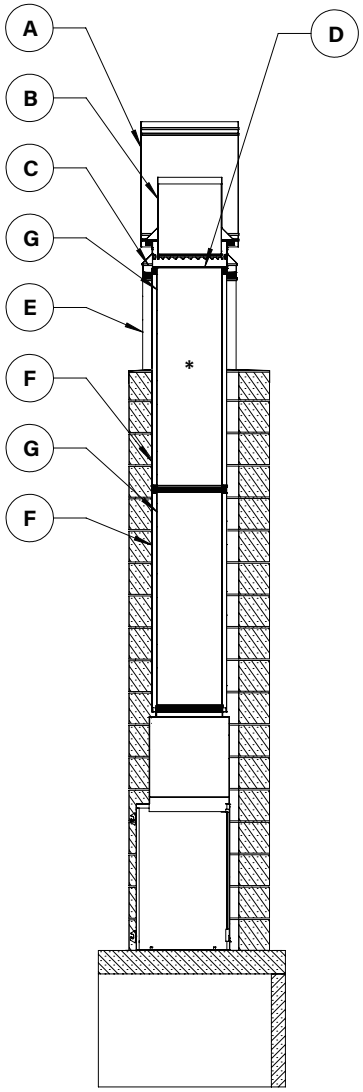
FLUE INSTALLATION OPTIONS



AAC enclosure flue installation

This installation requires the Outdoor 1200 Insert flue kit. The AAC enclosure can be constructed as detailed on page 9 with the top of the enclosure finished with a custom made chimney cap that complies with the relevant building code(s) for durability and weathertightness.

Note: Additional lengths of 350mm, 400mm and 500mm diameter flue pipe/liners may be required depending upon the installation location, the finished height of the AAC enclosure, or to achieve sufficient flue draft.

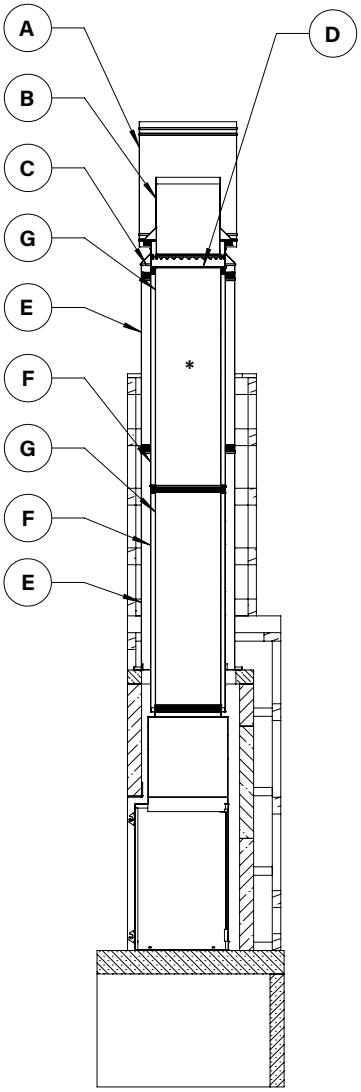


Masonry enclosure flue installation

This installation requires the Outdoor 1200 Insert flue kit. The top of the enclosure must be finished with a custom made chimney cap that complies with the relevant building code(s) for durability and weathertightness.

Note: Additional lengths of 350mm, 400mm and 500mm diameter flue pipe/liners may be required depending upon the installation location, the finished height of the masonry enclosure, or to achieve sufficient flue draft.

*Diagram above shows increased flue height using the optional 1200 Insert extension kit.



Timber enclosure flue installation

This installation requires the Outdoor 1200 Insert flue kit and flue spigot adaptor plate. The top of the enclosure must be finished with an insulating board and custom made chimney cap that complies with the relevant building code(s) for durability and weathertightness.

Note: Additional lengths of 350mm, 400mm and 500mm diameter flue pipe/liners may be required depending upon the installation location, the finished height of the masonry enclosure, or to achieve sufficient flue draft.

*Diagram above shows increased flue height using the optional 1200 Insert extension kit.

FLUE INSTALLATION

Flue penetration - Chimney chase

This installation involves the construction of an 'enclosure' extending through the roof line finished with a custom made chimney cap flashing to suit the finished size of the chimney chase.

A minimum 25mm clearance must be maintained between the outer liner and all combustible material within the chimney chase. An insulating board (minimum 12mm Promina, Eterpan or equivalent) must be installed between the timber framing and chimney cap flashing. The chimney cap flashing must comply with the relevant building code(s) for durability and weathertightness.

The size of the chimney cap spigot must fit internally into the 500mm diameter outer liner supplied with the Outdoor Insert flue kit. Ensure the central position of the chimney cap spigot will line up with the flue centre of the Outdoor 1200 Insert firebox spigot.

Flue penetration - Roof flashing

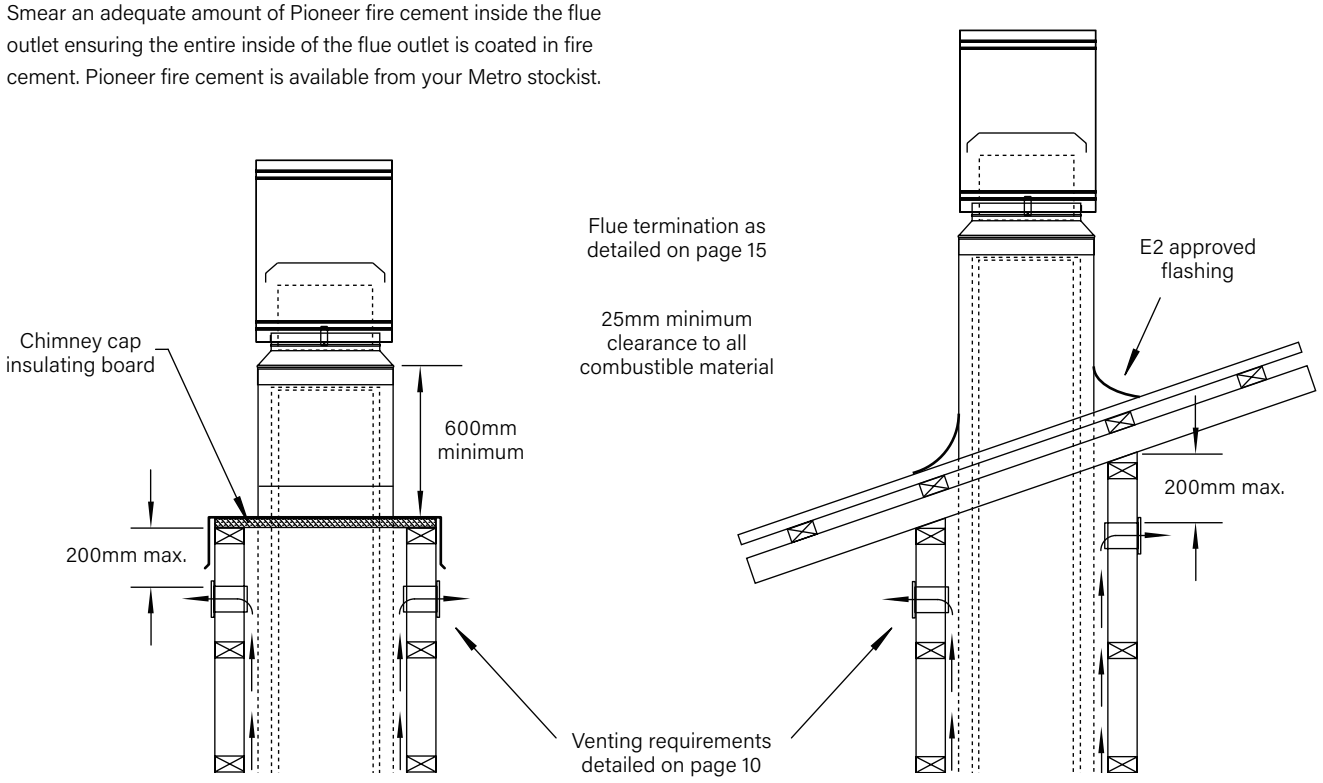
This installation involves the 'enclosure' terminating at the underside of the roof line and incorporating the use of a custom roof or rubber boot flashing to the roof/flue junction.

Flue installation

Having positioned your Outdoor 1200 Insert in the desired location, check to ensure the fire and floor protector (if applicable) have adequate clearances and projections, and that the flue system is clear of all combustible surfaces and materials as detailed on page 11.

1. Unbox the 350mm flue with 4 x spacer tabs (G), 400mm inner liner (F) (support liner) and the pillar cowl (A).
2. Place the 350mm flue pipe inside the 400mm inner liner. Ensure the safe edge and the swage on the 350mm flue are at the same end.
3. When lifting the flue system vertically the 350mm will drop down (but not out) so that approximately 75mm protrudes making it easy to line up with the 350mm flue outlet on the firebox gather.
4. Smear an adequate amount of Pioneer fire cement inside the flue outlet ensuring the entire inside of the flue outlet is coated in fire cement. Pioneer fire cement is available from your Metro stockist.
5. Place the 350mm flue into the flue outlet then lower the 400mm liner down over the top of the 4 x threaded tabs. Line up the fixing holes and attach using the 4 x M8x16mm stainless dome headed sockets and flat washers and tighten.
6. Construct the masonry enclosure/AAC heat cell around the firebox making sure when gluing and screwing the AAC panels that it is structurally sound and the manufacturers instructions are followed. Ensure you allow for installation of the side vents as required.
7. Plaster/finish the masonry enclosure/AAC heat cell if necessary.
8. Fit the side vent covers.
9. Fit your custom made chimney cap (flashing cap).
10. You will need to cut the plain end of the 500mm outer liner so once fitted to the chimney cap the 400mm and 500mm liners terminate at the same height and fit into place on top of the chimney cap.
11. Fit the short 400mm vented extension (D) to the 400mm inner liner (F) and rivet together using 4mm stainless rivets in 4x places.
12. Fit the short 350mm diameter flue extension (B).
13. Fit the 500-400mm liner converter (C) to the top of the 500mm liner (E) and rivet in 4x places using 4mm stainless rivets (not supplied).
14. Make sure the top of the 400mm vented extension, the 500-400mm converter and 350mm flue pipe all terminate at the same height.
15. Fix the cowl to the top of the flue system and using the supplied 8 x stainless steel 3.2mm multi grip rivets in the four cowl attachment tabs. Making sure the rivets fix through the cowl tabs and the 500-400mm liner converter and into the 400mm vented extension.

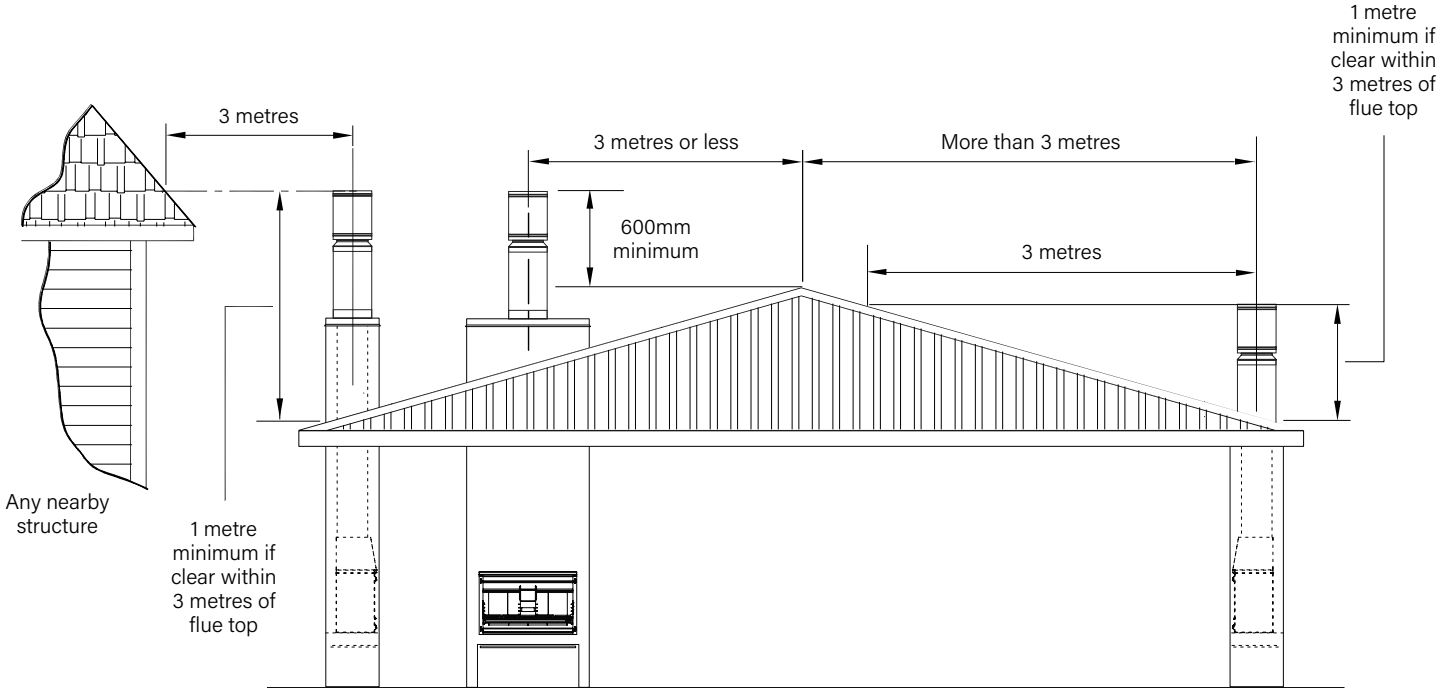
If you have chosen to extend the flue system using the Outdoor Insert extension kit, this needs to be assembled / added below the 400mm vented liner, 500-400mm converter and short 350mm flue extension. An extended Outdoor flue system will be heavy and will require wind bracing support if exposed. Each extension flue join will need riveting at a minimum of 4 points around the circumference.

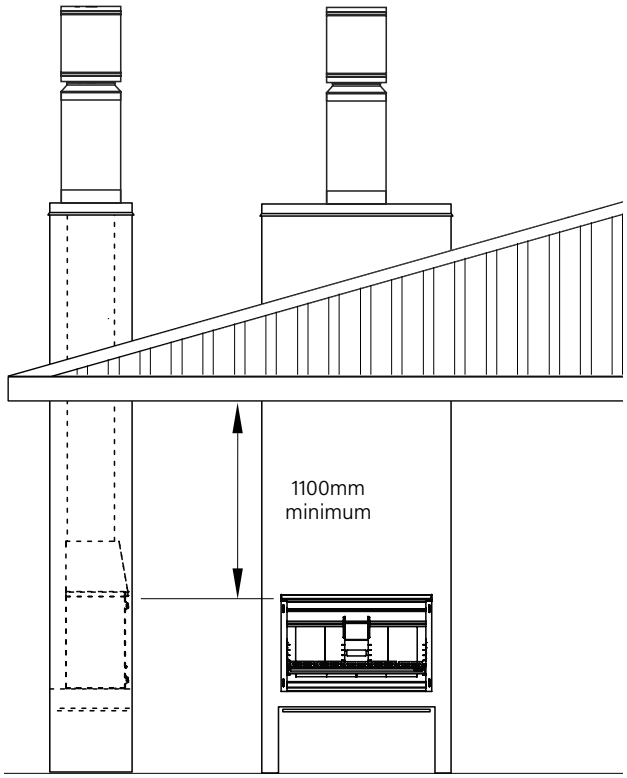


FLUE CLEARANCES

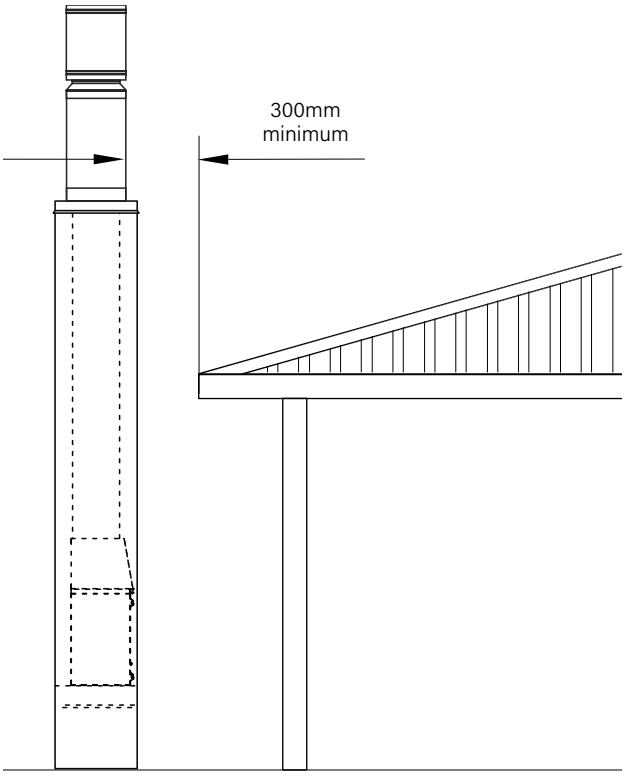
External structures and the proximity of other buildings will differ for every installation so before lighting your appliance, make sure your Outdoor 1200 is located away from buildings, structures, vegetation, and any other combustible objects by the minimum clearances detailed.

Flue termination must be in accordance with AS/NZS 2918 External Requirements and as detailed in the diagrams below.





1100mm minimum clearance to a combustible ceiling. Clearance is measured from the underside of the firebox opening.



300mm minimum clearance from any nearby structure to the outer flue liner of the Outdoor 1200 Insert Flue System*

Specifications were correct at the time of printing but may alter and those detailed within should be used only as a guide. Full assembly and installation instructions are detailed in the Outdoor Installation manuals available at metrofires.co.nz. If in doubt, please consult your local Metro Fires stockist or visit metrofires.co.nz.

⚠ WARNING! Important Information

WE HIGHLY RECOMMEND YOU READ THIS ENTIRE MANUAL AS INCORRECT OPERATION, MISUSE AND/OR LACK OF MAINTENANCE WILL VOID THE WARRANTY

- **DO NOT leave the appliance unattended during operation**
- **DO NOT use flammable liquids or aerosols in the vicinity of this appliance when it is operating**
- **DO NOT use flammable liquids or aerosols to start or rekindle the fire or store fuel within the specified installation clearances**
- **DO NOT close off the front air vent at the base of the firebox beneath the burn tray**
- **DO NOT dry clothes on or near this appliance**
- **DO NOT operate the fire with the stainless steel door in place**
- **DO NOT burn the 1200 as a fireplace with the ember maker in place. You will damage the ember maker.**
- **Be aware of small children near the fire during operation. We recommend a child guard for safety protection and use of the Outdoor mitts provided while the unit is in operation.**

⚠ CAUTION! Important Information

THE FIREPLACE MUST BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THIS MANUAL

- **DO NOT use driftwood, treated or unseasoned (wet) fuel. The use of most types of preservative treated wood as fuel can be hazardous and will damage your appliance**
- **This fire must be regularly maintained and replacement parts must be authorised Metro Outdoor parts only**
- **DO NOT use your Outdoor 1200 for cooking purposes during the initial burning cycles or after spraying with high temperature paint during regular maintenance**
- **DO NOT fit the stainless steel door to the appliance until the fire has completely cooled down**
- **Panels may move and distort slightly at peak temperatures**
- **The use of alcohol, may impair the consumers ability to use this appliance in a safe manner.**

IMPORTANT OPERATION INFORMATION

The Outdoor 1200 is designed to give you many years of warmth and enjoyment, subject to the following key factors. These key factors, if not adhered to are the major causes of unsafe installation, poor performance, flue blockages and potential product failure.

Please note the following important points:

- Your fire must be installed and operated correctly.
- The only fuel to be used in this appliance shall be wood 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, particle board, or laminated board,
  - Is not painted, stained or oiled
  - Is not driftwood or other salt impregnated wood
- DO NOT use coal as a fuel.
- The appliance shall be operated at all times in accordance with the 'Installation and operation manual' supplied with each appliance.
- During the very first fire your Outdoor 1200 will give off an odour and fumes as the firebox paint cures. DO NOT be alarmed; this curing process will last for approximately one hour and is likely to happen this one time. Ensure the first firing is a moderate burn only as over firing during the first burn can damage the uncured paint finish
- Properly seasoned (dry) timber is necessary for the fire to operate efficiently; firewood that contains a high moisture content will result in flue pipe blockages, poor heat output and create other issues.

Note: Once split, Softwood usually takes 12 months to season - Hardwood can take up to 24 months to season - Wood must be stored in a location that enables constant air circulation. Unseasoned wood stored in a closed woodshed without air circulation will still be unseasoned 12 months later.

- For optimum performance, fuel must be loaded so the logs lay 'front to rear' in preference to laying across the width of the firebox. Spaces should be left between the logs to enable oxygen to get to as much of the surface of the fuel as possible
- The Outdoor 1200 firebox is covered by a 3 year warranty against defective materials and workmanship. The flue system, panel coatings, fire bricks and all other internal parts and accessories are covered by a 12 month warranty.

Note: The above points require regular inspection/maintenance (every time the burn tray is cleaned out) and if not maintained will void the firebox warranty. A glowing firebox or fluepipe parts is just one sign you are over firing your appliance. Please ensure you keep your proof of purchase/receipt on any parts you purchase.

Please note before initial lighting:

1. Ensure that all packaging material is removed from inside and outside the firebox assembly prior to lighting the appliance
2. Check and confirm that all internal components that were removed during installation are put back into the firebox and located correctly
3. The high temperature paint finish is not fully cured until your first fire. Therefore please take care handling your appliance so as not to damage the coating. To fully cure the paint, light a moderate fire only. Over firing during the first lighting will damage the paint adhesion. Use a Pioneer Satin Black aerosol for touch ups and any surface maintenance over time.

OUTDOOR 1200 OPERATION

⚠ WARNING! Important Information

ALL SURFACES WILL GET VERY HOT. DO NOT TOUCH OR PLACE ANY COMBUSTIBLE COMPONENTS ON OR AGAINST THE FIREPLACE DURING OPERATION.

- **DO NOT use the fire without the burn tray in place. Ensure it is always in the factory position sitting on top of the 4 side pins. Maintain regular checks to ensure the burn tray is in good working order (no holes etc) prior to operation**
- **DO NOT let embers overflow the burn tray as this may overheat the firebox sides causing permanent damage**
- **DO NOT light a fire directly in the base of the fire box structure as this will cause damage and void any warranty**
- **DO NOT operate the fire with worn or missing fire bricks**

Prior to lighting, setup your Outdoor 1200 for cooking or using as a fireplace only, as detailed below:

Start up - Fireplace only

1. Remove the stainless steel door. The door can be slid (face up) under the fire onto door storage runners if fitted.
2. Ensure the wood stops are fitted to the front edge of the burn tray.
3. Stack around 20-30 pieces of kindling in 2-3 piles across the burn tray, placing firelighters under the kindling and light the fire.
4. Add large size logs gradually and keep building the fire. When loading logs, place them end-on, 'front to back'; air spaces should be left between the logs to enable oxygen to get to as much of the surface of the fuel as possible.
5. Ensure the burn tray is not overloaded during operation to prevent any firewood from spilling out. DO NOT load firewood above the top of the wood stops.

Start up - Cooking operation

The 1200 Braai Cooking Kit comes standard with 2x stainless steel side racks and cast iron cooking plate for using the ember maker in the centre of the firebox. Ensure the ember maker is located correctly prior to use.

You can also place the ember maker to the left or right hand side of the firebox if using the large stainless steel grill and support bracket (optional extra). See cooking setup options detailed opposite.

1. Using hard wood (Pohutakawa, Puriri etc) cut dry kindling pieces 200-300mm long and place vertically in the ember maker. To help start the hardwood place 2-3 pieces of pine cut to a similar size and place in the ember maker with the hardwood.
2. Using a few fire lighters placed onto a piece of fuel, you can slide this into the burn tray under the ember maker and light. Within 10 minutes the fuel in the ember pot should be entirely ablaze.
3. After 30 minutes, embers will start falling through the bottom of the ember maker into the burn tray.
4. The fuel and embers can be broken up and spread around the burn tray using the ember tool provided. Moving the burning fuel within the ember maker will also help the embers fall.
5. Keep loading fuel into the ember maker until you reach the desired ember level in the burn tray for your cooking. You can continue to run the ember maker throughout the cooking process to continually top up the ember base.



1200 Braai Cooking Kit
(SKU 280-0845) Sold separately

The side racks, ember maker and cooking grills are easily fitted to use the 1200 Braai Cooking Kit.

Ensure you take care when removing the hot cooking grills from the fire and place them onto a non-combustible surface well out of harms way.

Re-fit the wood stops to the front of the burn tray to contain firewood during operation.



Cooking setup (standard)

The ember maker is located in the centre of the Outdoor 1200 to allow the stainless steel cooking grills and cast iron cookplate to be placed on each side.

The side racks and ember maker offer a range of grill heights so you can cook a variety of different food at the same time.



Cooking setup (optional)

The ember maker can be easily located to either side of the Outdoor 1200 for the optional large grill to be used.

An additional support bracket is included with this grill which simply locates between the two centre fire bricks on the rear wall of the firebox (see below).

Stainless steel large grill
(SKU 560-0205) Sold separately



Support bracket placement

To use the optional large grill, you will need to fit the additional support bracket supplied.

Spread the two central rear fire bricks enough to access the slots in the firebox rear wall and insert the grill support into these.

Push the fire bricks back against each side of the bracket and lift the optional large grill into place.

CLEANING AND MAINTENANCE

⚠ CAUTION! Important Information

- **DO NOT attempt to clean or maintain the fire when in use or with hot embers in the firebox. Ensure that embers and all other parts of the fire have cooled down completely before starting ash removal or any other maintenance**
- **DO NOT empty or store ashes in a combustible container**
- **DO NOT use Stove Black, Cast Iron Stove Polish or similar based products to refurbish your Outdoor 1200. Pioneer Satin Black high temperature paint is the ONLY product suitable for revitalising the paint finish**
- **DO NOT use the Outdoor 1200 Braai Cooking Kit during the initial burning cycles or immediately after spraying with high temperature paint during regular maintenance.**

Your Outdoor 1200 will give you many years of efficient service with minimal maintenance if operated correctly using seasoned fuel. Your Outdoor 1200 must be regularly maintained and replacement parts must be authorised Metro fires parts only.

The Outdoor 1200 is finished with high temperature paint formulated for outdoor use to provide a high level of corrosion resistance. The Outdoor 1200 will require periodic repainting to keep it looking its best.

Your Outdoor 1200 is manufactured from Corten steel and will oxidise to a natural patina if you prefer this look.

All surfaces can be cleaned with a soft cloth when the appliance is not in operation.

- Always use the stainless steel door to protect the fire's interior when the appliance is not running. The stainless steel door should only be put on when the fire has completely cooled down
- Depending on usage we recommend cleaning the interior of the fire every couple of months or around every 3-4 burns
- Remove excess ash from the burn tray (see details below)

Fire bricks

Hair-line cracks are not uncommon and are a result of the intense heat within the Outdoor 1200 firebox, coupled with mechanical damage caused by accidental impact when fuel is being loaded. However if the fire bricks become cracked to the extent that they start to break up and fall into the burn tray, they must be replaced.

Ash removal

Depending on the amount of use, over a period of time ash will build up in the burn tray and require removal. The time this build-up takes depends on the density and cleanliness of your fuel.

To remove the excess ash your fire should not be operating.

- Using a hearth shovel or similar, empty the excess ash directly into a steel or non-combustible container
- If the ash is not disposed of immediately, be careful where you store it, as the ash can retain heat for many days and become a fire hazard
- The burn tray is easily removed by lifting off the tray lugs which are located on both left and right hand sides at the front of the burn tray.

Replacement parts

Your Outdoor 1200 must be regularly maintained and we recommended it is also serviced annually. If a wood fire is not regularly maintained and serviced, the life span will be reduced.

If your Outdoor 1200 has been neglected by not being regularly maintained and serviced with authorised Metro parts replaced as required, your warranty may be declined.

Sacrifical wear parts should be replaced as soon as they show signs of wear. Operating your Outdoor 1200 with worn or broken parts may result in damage to the firebox. We recommend a regular check of all these parts and other parts of the fire.

The following parts of the Outdoor 1200 are considered consumables. These parts will wear out or degrade over time. These items are considered as operational consumables:

- Fire bricks
- Stainless steel wire cooking grills and side brackets
- Stainless steel ember pot/maker
- Burn tray

The burn tray is designed as a sacrificial base inside the firebox and will deteriorate over time. It must be used when the fire is in operation. Once it deteriorates to the point where it can no longer contains ash and/or embers (e.g has holes burnt through it) it must be replaced. See your Metro stockist for a replacement (SKU 560-0207).

Flue system

The flue pipe should be checked at least once a year or as required depending on amount of use and noticeable deposits. The frequency of flue pipe cleans depends on many factors, with the main variables being:

- The seasoning of the wood. If not properly seasoned you will require frequent flue pipe cleans
- The density of the wood. Softwoods generally result in more deposits building up in the flue pipe

Check the flue sections nearest the firebox and if the flue system is becoming excessively blocked or requires frequent cleaning, check the flue installation, fuel quality and/or operation with a qualified service agent.

Surface Renovations

The Outdoor 1200 is made from Corten steel and stainless steel and finished with high temperature paint. All these attributes contribute to extending the life of your Outdoor 1200.

To maintain the cosmetic appearance you will need to regularly maintain the surface. The extent of necessary maintenance will be determined by the time between renovations, length of time the appliance remains outside and the vicinity of salt laden air to the appliance (coastal installations).

You can easily prepare the surface of the Corten steel prior to repainting by either sanding or using a mild anti-oxidisation agent to remove surface rust or staining.

The firebox, gather and burn tray are all coated in Pioneer high temperature paint which is available in an aerosol from your Metro stockist.

DO NOT use Stove Black, Cast Iron Stove Polish or similar based products to refurbish your Outdoor 1200. Pioneer Satin Black high temperature paint is the ONLY product suitable for revitalising the paint finish.

WARRANTY

⚠ CAUTION! Important Information

Your Outdoor fire must be regularly maintained and we recommend it is also serviced annually. Proof of servicing may be required. If your fire is not regularly maintained and serviced, the life span will be reduced. If your fire has been neglected by not being regularly maintained and serviced, a warranty claim may be declined.

Metro Outdoor 1200 fires are manufactured using the highest quality of materials, workmanship and the latest manufacturing techniques, which is why we offer a full 3 year firebox warranty and a 12 month parts warranty for your peace of mind.

Metro Warranty
(NZ Consumer laws apply to this warranty)

Pioneer Manufacturing Limited (Pioneer) warrants the Corten steel firebox against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 3 years.

Components including flue systems, panel coatings, fire bricks and all other internal parts and accessories are warranted for a period of 12 months from the date of original purchase for normal domestic use against defective materials and workmanship.

Please ensure you retain your proof of purchase/receipt for the appliance and any parts you purchase.

Warranty Conditions

- The Outdoor 1200 must be installed, operated and maintained strictly in accordance with this installation/operation manual
- The Outdoor 1200 must be installed and used in a domestic outdoor application
- This warranty covers appliance like for like replacement or repair at the manufacturer's discretion but excludes freight, travel, installation, labour and/or any other associated costs
- Pioneer or their agents are not liable for any loss or expense direct or indirect arising from the failure of any part or operation of the appliance
- Operation of this appliance in violation of the warnings in this operation and installation manual will void this warranty
- The Outdoor 1200 must be regularly maintained and we recommend it is also serviced annually. Proof of servicing may be required. If a wood fire is not regularly maintained and serviced, the life span will be reduced. If your Outdoor 1200 has been neglected, by not being regularly maintained and serviced, a warranty claim may be declined
- It is critical the Outdoor fire not be operated with over worn, faulty or missing parts, fire bricks or burn tray
- A claim under this warranty should be directed to the retailer who supplied the Outdoor 1200. If this is not possible, write directly to the manufacturer stating details of fault, model, dated proof of purchase and name of retailer purchased from.

Warranty Exclusions
(This manufacturer's warranty does not cover)

- Service calls which are not related to any defect in the product (for example: operational, installation or fuel issues). The cost of a service call will be charged if the problem is not found to be a product fault
- Defects caused by factors other than normal domestic use or use in accordance with the product's operation manual
- Defects caused through the product being operated in an 'over-fired' manner resulting in sections of the firebox operating excessively hot to the point that sections glow red.

Note – Overfiring your appliance will result in distortion of the firebox

- Defects and damage to the product caused by accident, neglect, misuse or act of God
- The cost of repairs carried out by non-authorised repairers or the cost of correcting such unauthorised repairs
- Required maintenance as set out in this manual
- Surface oxidisation is not a warrantable issue for outdoor appliance installations. This includes any damage caused by abnormally corrosive environments (for example: coastal environments) and any rust damage, discoloration, or corrosion in any part of the fire over the life of the appliance

Service under this manufacturer's warranty must be provided by a repairer authorised by Pioneer Manufacturing Ltd. Such service shall be provided during normal business hours.

Warranty	**Complete and retain these details at the time of purchase**
Purchase date:	
Model:	
Retailer:	
Installer:	
Installation date:	

OUTDOOR PARTS AND ACCESSORIES

	1200 Braai Cooking Kit	280-0845		Cast Iron Skillet Set (200 & 300mm)	290-0014
	1200 Braai Pizza Kit	560-0072		Paint Aerosol (Satin Black)	550-0760
	1200 Spark Screen	560-0074		1200 Spark Arrestor	300-0480
	1200 Battery Powered Rotisserie	280-0840		1200 Insert Vent Covers (Pair)	560-0220
	1200 Braai Large Cooking Grill (Includes support bracket)	560-0205		1200 Insert Liner Adaptor Plate	300-0475
	BBQ Basket (Basket size 420 x 335mm)	560-0210		1200 Insert Extension Kit	300-0470
	Cast Iron Potjie Pot - 7.8ltr	290-0006			

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Visit the Metro website to view the full product range, find your nearest Metro stockist or simply check out the latest specifications, installation requirements and technical data.

- FREESTANDING FIRES
- INSERT & BUILT-IN FIRES
- ULTRA FIRES
- OUTDOOR FIRES
- ECO FLUES
- REPLACEMENT PARTS
- HEATING ACCESSORIES
- WETBACK SYSTEMS
- CATALOGUES AND INSTALLATION MANUALS
- NES TEST CERTIFICATES
- MAINTENANCE AND SERVICING
- PRODUCT VIDEOS AND HOW-TO GUIDES
- TROUBLESHOOTING
- FAQ'S

NZHHA
New Zealand Home Heating Association Inc.

metrofires

PIONEER
MANUFACTURING LIMITED

19 Oropuriri Road, New Plymouth 4312
info@metrofires.co.nz | **www.metrofires.co.nz**