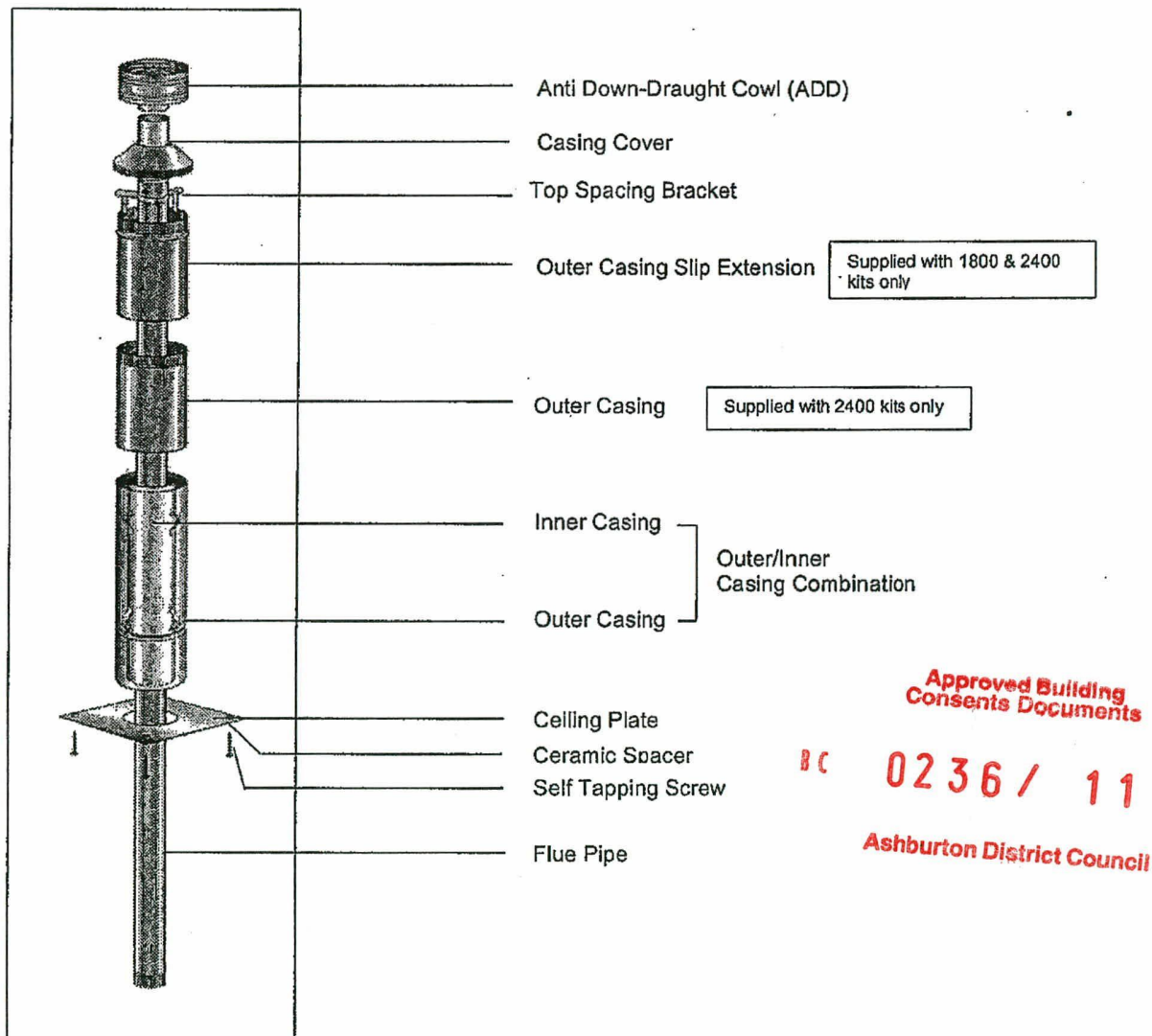




Sheetmetal Fabricated Products Ltd.

**150mm
Free Standing Wood Fire Flue Kit
Installation Instructions
Complies with AS/NZS 2918:2001**



Approved Building
Consents Documents
BC 0236 / 11
Ashburton District Council

150 FWFKI 1.4.4



Sheetmetal Fabricated Products Ltd.

150 MM FREE STANDING WOODFIRE FLUE KIT INSTALLATION INSTRUCTIONS

WARNING: THIS FLUE KIT HAS BEEN MANUFACTURED IN ACCORDANCE WITH AS/NZS 2918:2001 AND TESTED TO APPENDIX F. TO ENSURE SAFETY THIS FLUE KIT MUST BE INSTALLED AS OUTLINED IN THESE INSTRUCTIONS AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES. WOOD FIRE AND FLUE CLEARANCES FROM COMBUSTIBLE WALLS MUST BE IN ACCORDANCE WITH WOOD FIRE MANUFACTURER'S SPECIFICATIONS AND AS/NZS 2918:2001. THESE INSTALLATION INSTRUCTIONS ARE FOR TESTED APPLIANCES ONLY.

CAUTION: MIXING FLUE SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.

CAUTION: IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT THE INSTALLATION OF THIS FLUE KIT COMPLIES WITH AS/NZS 2918:2001, THE APPLIANCE MANUFACTURERS SPECIFICATIONS FOR FLUE PIPE SHIELD AND CEILING PLATE AND THAT THE RELEVANT BUILDING CODES ARE ADHERED TO.

BENDS AND EXTENSIONS TO THE LENGTH OF A FLUE SYSTEM ARE PERMITTED (AS/NZS 2918 2001 4.1)

- 1) Locate Wood Fire in its proposed position and mark a point on the ceiling that is directly above the centre of the Wood Fire's Flue Spigot. Check that the Wood Fire's location allows the OUTER CASING to clear all structural roof timbers.
- 2) Cut a 250mm square hole in ceiling. Directly above cut a hole in roof to accommodate OUTER CASING.
- 3) Fit timber nogs around ceiling. i.e. Nogs form a 250mm square aperture that allows air to circulate freely over the OUTER CASING surface.
- 4) Position the OUTER CASING so that it is flush with the underneath of the ceiling and protrudes through the roof the required height. Note that AS/NZS 2918:2001 4.9.1(a) states, "the FLUE PIPE shall extend not less than 4.6m above the top of the floor protector". Refer to diagram B.
 - a) If the FLUE PIPE is within 3 metres of the ridge, the FLUE PIPE must protrude at least 600mm above the ridge of the roof.
 - b) If the distance from the ridge is more than 3 metres, the FLUE PIPE must protrude at least 1000mm above roof penetration.
 - c) The FLUE PIPE must be more than 3 metres from any nearby structure. (Refer diagram C).

Additional FLUE PIPE, OUTER CASING and/or INNER CASING may have to be added to ensure the following:

- I) The correct minimum roof penetration height.
- II) Sufficient overall height to encase the FLUE PIPE which must extend a minimum of 4.6 metres from the floor protector. Refer diagram B.

Note that the INNER CASING should extend 200mm above roof penetration.

150 FWFKI 1.4.4

NB: Do not secure the OUTER CASING SLIP EXTENSION onto the OUTER CASING, as final adjustment will be required when fitting cowl assembly. See Paragraph 11.

- 5) Fix an appropriate flashing around the OUTER CASING to seal onto the roofing material. Refer to the manufacturer's recommendations for correct fitting. NB: On iron roofs, fixings such as metal angle brackets (approximately 25mm x 25mm) can be fitted under the flashing to securely fix the roof to OUTER CASING.
- 6) Drill holes in ceiling plate for the fixing screws. Place CEILING PLATE over Wood Fire's Flue Spigot, ensuring the folded edges are facing the ceiling.
- 7) Position bottom length of FLUE PIPE (crimped end downwards) into Wood Fire Flue Spigot.

Refer to the supplier of the Wood Fire and use flue pipe sealant if recommended.

- 8) Assemble FLUE PIPES together ensuring seams are straight, offsetting the seams will ensure a neat fit. FLUE PIPES must be assembled with crimped ends down (towards Wood Fire). Secure each joint with a minimum of three Monel Steel rivets equally spaced around the joint. If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.
- 9) From the roof lower FLUE PIPE through OUTER CASING into the bottom FLUE PIPE securing with three monel rivets.
- 10) Check that the FLUE PIPE SPACING BRACKETS inside the INNER CASING are correctly positioned and then from the roof slide the INNER CASING into the OUTER CASING until the brackets rest on to the internal swage ring of the OUTER CASING, this will ensure the INNER CASING is the correct 12mm above ceiling level.

Check the INNER CASING when correctly positioned extends a minimum of 200mm above the roof penetration.

- 11) Before securing the OUTER CASING SLIP EXTENSION to the OUTER CASING with 3 rivets, ensure the FLUE PIPE extends above the top of the OUTER CASING SLIP EXTENSION 145mm. Adjust SLIP EXTENSION to obtain this measurement.
- 12) Fit TOP SPACER BRACKET to the FLUE PIPE making sure the lugs fit snugly inside OUTER CASING SLIP EXTENSION. Make sure TOP SPACER BRACKET fits hard down onto OUTER CASING SLIP EXTENSION.
- 13) Fit CASING COVER over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.
- 14) Fit COWL but do not secure, as removal for flue cleaning will be necessary. Deform or ovalise the stub of the COWL to ensure it is a tight friction fit.
- 15) Fasten CEILING PLATE to ceiling using screws and ceramic spacers provided. Ensure an even air gap around FLUE PIPE when fixing. Remove protective plastic from CEILING PLATE. N.B. 12mm air gap between ceiling plate and ceiling must be maintained.

- 16) Leave all installation and operating instructions with the owner.

Cleaning of Flue Pipes before lighting the fire.

Stainless Steel pipe should be wiped clean using a soft cloth and methylated spirits to remove finger marks and oils used to manufacture the flue pipe.

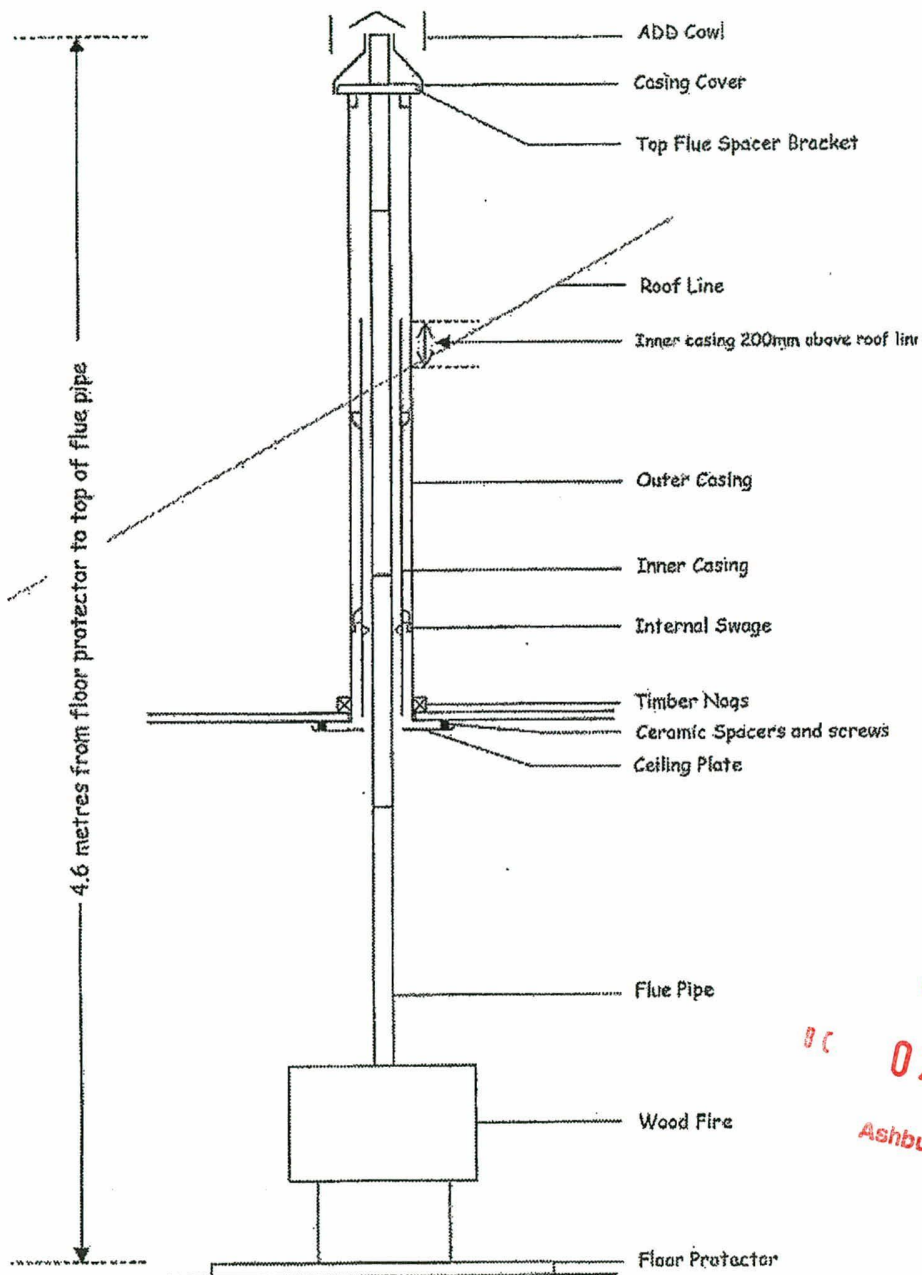
Enamelled flue pipes should be wiped with a soft cloth.

Hi-Therm flue pipe can be touched up using only STOVE BRIGHT aerosol paint.

Approved Building
Consents Documents

BC 0236 / 11
Ashburton District Council

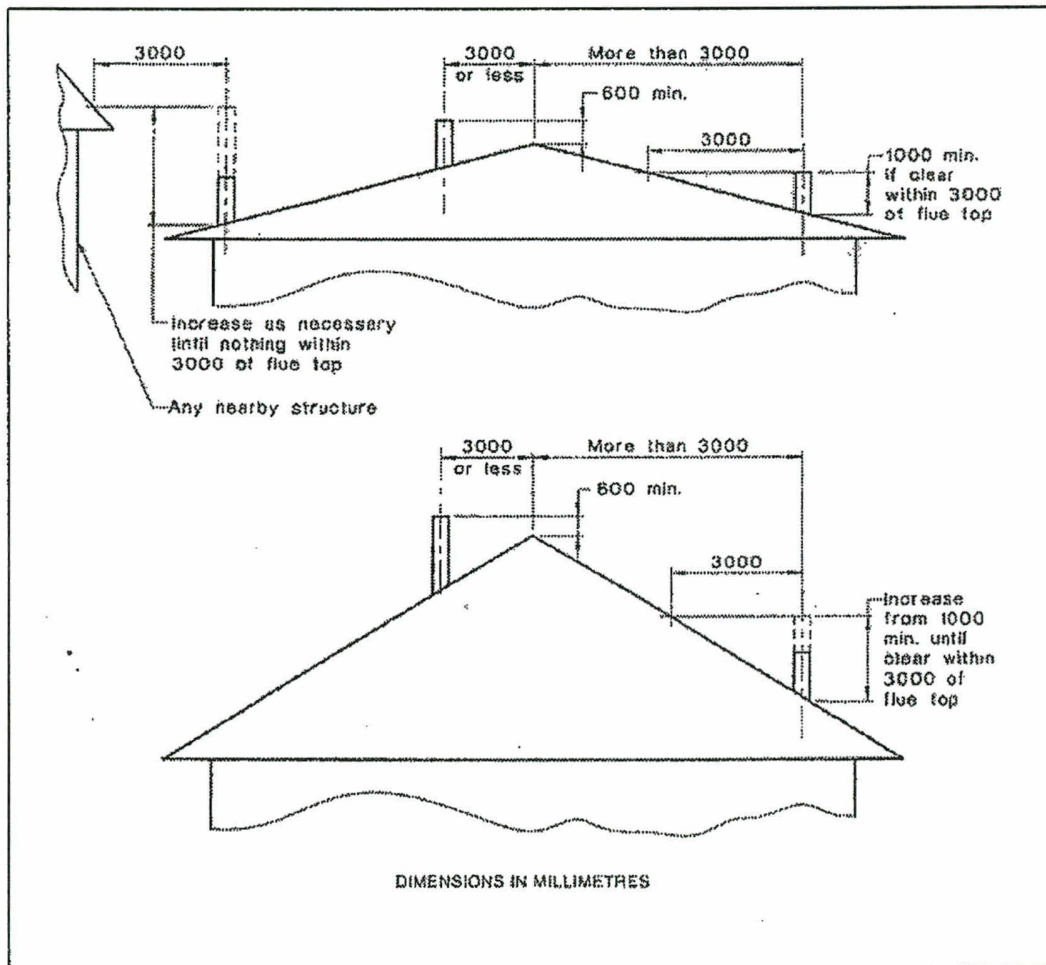
Diagram B



Approved Building
Consents Documents
BC 0236 / 11
Ashburton District Council

150 FW/HI 1.4.4

Diagram C AS/NZS 2918:2001 pg 37



Approved Building
Consents Documents

BC 0236 / 11
100 FWP/KI 1.4.4

Ashburton District Council

HI-THERM STAINLESS STEEL FLUE PIPE

- HI-THERM Flue Pipe is a high temperature, matt finish Flue Pipe designed for use on slow combustion, solid fuel heaters.
- HI-THERM Flue Pipe is ideal for heaters that have high flue temperatures and that also can be operated under circumstances that may produce creosoting of Flue Pipes for short periods of time, ie, on refuelling and with air control in shut or low position. Clean air guidelines must be observed.
- HI-THERM Flue Pipe is a **maintainable** product.

What is the difference between Vitreous Enamelled and Hi-Therm Flue Pipe?

- Enamelled Flue Pipe has a base metal of low carbon mild steel. The longevity of Enamelled Flue Pipe is dependent on the quality of the enamelled surface on the **inside of the Flue Pipe ONLY**.
- HI-THERM is a decorative finish only. The longevity is ensured by the Stainless Steel Flue Pipe.
- Enamelled Flue Pipe is very resistant to scratching, but may chip or craze. HI-THERM Flue Pipe is more readily scratched, but will not chip or craze.
- HI-THERM Flue Pipe is easily restored to original finish, Enamelled Flue Pipe cannot be restored.
- HI-THERM Flue Pipe may be cut or crimped without affecting the Flue Pipe longevity. Enamelled Flue Pipe **MUST NOT** be treated in any way that affects the inside enamelled surface.
- Enamelled Flue Pipe finish and longevity can be affected by a wide range of incorrect heater operation procedures.
- HI-THERM Flue Pipe finish may whiten with over-firing of the heater. Longevity of the Flue Pipe is not affected by the condition of HI-THERM paint finish.
- Enamelled Flue Pipe can be damaged internally by drilling or riveting.

Date of Installation:	
Woodfire Make:	
Woodfire Model:	
Serial No.:	
Installed By:	
Owners:	

Approved Building
Consents Documents

0236 / 11

160 /w/ki 1.4.4
Ashburton District Council

HI-THERM STAINLESS STEEL FLUE PIPES

CONDITIONS OF USE

- *The Wood Fire must be operated in accordance with the manufacturer's instructions. Clean air guidelines and regulations must be observed.*
- *HI-THERM Flue Pipe must be swept by mechanical means only. (We recommend mixed head or polypropylene brushes). Under NO circumstances should chemical flue cleaners, (soot destroyers) or steel chimney brushes be used.*
- *HI-THERM Flue Pipe should not be used on a Wood Fire burning treated or wet (unseasoned) wood. Only use newspaper when lighting the fire; never burn colour printed brochures or junk mail.*
- *HI-THERM Flue Pipes must be secured together with a minimum of three Monel Steel rivets equally spaced around the joint.*
- *The paint finish appearance may change, depending on Wood Fire operation and is designed to be a MAINTAINABLE finish. To maintain paint finish or touch up use only genuine STOVE BRIGHT Aerosol. (Refer label on packaging).*
- *HI-THERM Flue Pipe must be installed in accordance with SFP installation instructions, using flue componentry supplied by SFP. It is the responsibility of the installer to ensure no water leaks into the Hi-Therm Flue System.*
- *The Stainless Steel Flue Pipe used in "Hi-Therm Stainless Steel Flue Pipe" is warrantied for five years, providing the above conditions are met.*

**FAILURE TO OBSERVE THESE CONDITIONS
MAY NEGATE WARRANTIES**

Approved Building
Control Documents

0236 / 11

Ashburton District Council

150 fwhd 1.4.4

VITREOUS ENAMELLED FLUE PIPE

CONDITIONS OF USE

- *The Wood Fire must be operated in accordance with the manufacturer's instructions. Particularly the Wood Fire must not be operated in a manner, or wood burnt that causes creosote build up in Flue Pipe. Clean air guidelines and regulations must be observed.*
- *Enamelled Flue Pipe must not be cut or crimped.*
- *Enamelled Flue Pipe must be swept by mechanical means only. (We recommend mixed head or polypropylene brushes). Under NO circumstances should chemical flue cleaners, (soot destroyers) or steel chimney brushes be used.*
- *Enamelled Flue Pipe should not be used on a Wood Fire burning coal, treated or wet (unseasoned) wood. Only use newspaper when lighting the fire; never burn colour printed brochures or junk mail.*
- *Enamelled Flue Pipe should be sealed with Stovax Fire Cement or equivalent.*
- *Enamelled Flue Pipe **MUST** be installed in locations where the Flue Pipe is visible after installation is complete.*
- *Enamelled Flue Pipe must be installed in accordance with SFP installation instructions, using componentry supplied by SFP. It is the responsibility of the installer to ensure no water leaks into the Enamelled Flue System.*
- *Enamelled Flue Pipe will be warrantied for one year from time of installation providing the above conditions are met.*
- *Enamelled Flue Pipe may be joined without fasteners, however, three equally spaced Monel or Stainless Steel rivets should be used to secure Enamelled and Stainless Steel Flue Pipes together.*

**FAILURE TO OBSERVE THESE CONDITIONS
MAY NEGATE WARRANTIES**

Approved Building
Consents Documents

0236 / 11

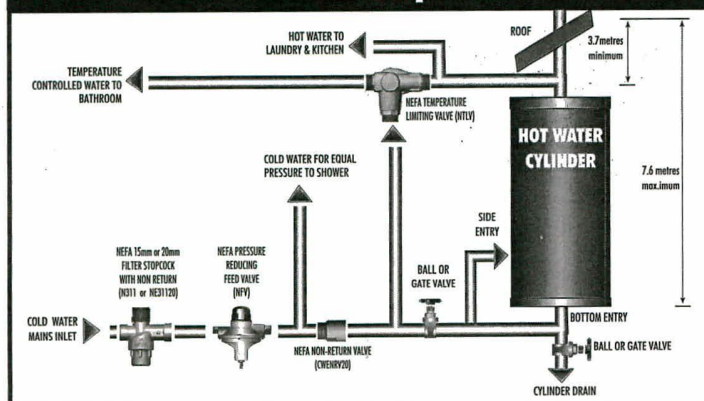
Ashburton District Council

150 fwBd 1.4.4

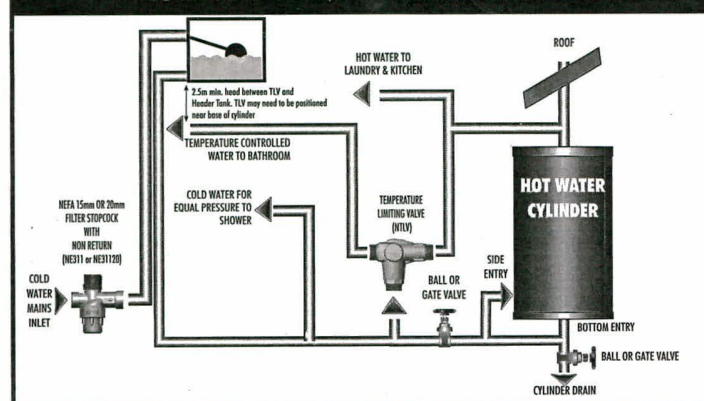
NEFA

NEFA

LOW PRESSURE - Open Vented



LOW PRESSURE - Header Tank



Diagrams for illustrative purposes only

METHVEN

Made in New Zealand by Methven Limited,
Private Bag 19996, Avondale, Auckland, NZ.



For product assistance, technical and
sales enquiries contact Methven Limited
Ph: 0800 804 222
Fax: 0800 805 222

Part No: 285010 ISS D

Approved Building
Consents Documents

0236 / 11

Ashburton District Council



- Adjustable from 30°C to 65°C
- Fail Safe: Failure of cold water supply causes valve to shut down outlet
- Configured for easy installation
- Non-return fitted to stop thermosyphoning
- Serviceable
(valves manufactured after Feb '95)
- Cap fitted to prevent unauthorised temperature adjustment
- Complies with the requirements of BIA G12

RECEIVED
30 MAR 2011
BY:

TEMPERATURE
LIMITING
VALVE

SPECIFICATIONS

- Conforms to NZS:4617
- Connections: All 20mm (3/4 BSP) male
- Factory set outlet temp 55°C
- Adjustable 30°C to 65°C
- Minimum 20 l/min at 35kPa (3.5m head)
- Maximum hot water temp 99°C
- Service Kit part No. 782004

INSTALLATION

- Valves should always be fitted by a qualified plumber according to BIA G12
- This NEFA TLV is factory set to 55°C at an inlet hot and cold temperature of 15°C and 70°C respectively.
- If the inlet temperatures for the installation of this valve differ significantly from that of the above conditions it will be necessary to reset the outlet temperature to 55°C when the supply is re-connected.
- The Nefa TLV can be installed in any orientation but ensure the temperature adjusting screw is accessible
- Make up pipe runs to the Nefa TLV with 20mm copper pipe
- Ensure that the Nefa TLV is positioned a minimum of 350mm from the hot outlet of the water heater
- The Nefa TLV may be installed close to the outlet being serviced
- Ensure that hot and cold supply pressures to the inlet of the Nefa TLV are equal. (Note the Nefa Cold Water Expansion Valve has a 20mm port to allow a simple pipe run to the TLV)
- To adjust the outlet temperature turn the slotted screw located in the cover of the Nefa TLV. Adjustment is indicated by the arrow on the cover, turn anticlockwise to increase outlet temperature and clockwise to decrease outlet temperature

IMPORTANT

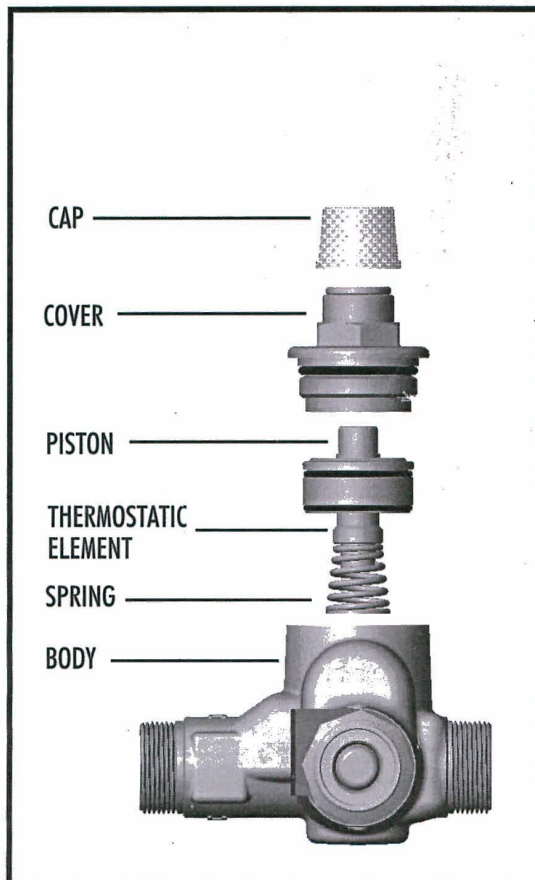
- Never install a Nefa TLV directly onto the outlet of the hot water cylinder
- The Nefa TLV must not obstruct the hot water cylinder vent or Nefa Relief Valve. In the event of high temperature the Nefa TLV will shut the hot supply and not allow the vent or Relief valve to relieve pressure in the cylinder
- In order to maintain the Nefa TLV's efficient function ensure a minimum 15°C differential between the TLV outlet temperature and the hot water supply.

Warranty

Where Methven valving is purchased for use or on-sale in the context of any business, Methven undertakes to either repair or replace (at its option) that valving, if it is discovered that such valving contains a material defect, which arose in the course of manufacture. This undertaking shall not apply if:

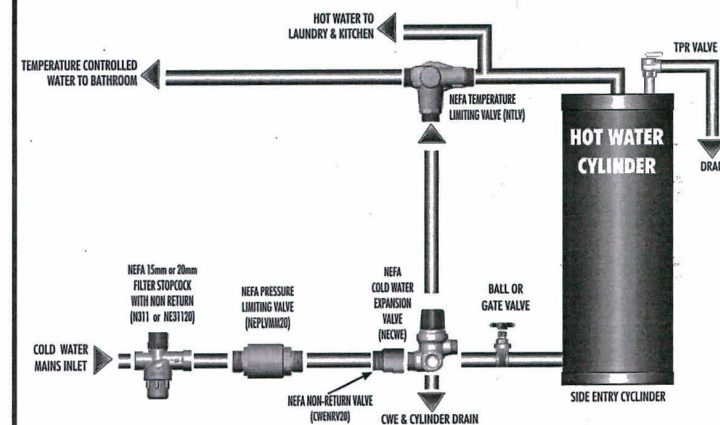
1. The defect is brought to Methven's attention later than 2 years after the date of purchase, where the defect relates to washers, "O" rings and powder coating, or 5 years where the defect relates to any other valving componentry. Proof of purchase will be required.
2. There is a failure by any person to follow Methven's installation instructions or the valving is used other than in accordance with Methven's specifications.
3. Evidence cannot be produced which confirms that the relevant valving was purchased from a Methven authorised distributor.
4. Repair work is performed on the relevant valving by a person other than Methven, its authorised service agents or any plumber who has no received authorisation prior to proceeding with the work.

The above undertaking from Methven shall also apply to any purchaser of Methven valving who is a "Consumer" under Consumer Guarantees Act 1993, in addition to any other right or remedy which such person may have under that Act. Methven shall in no way be liable to the purchaser or user of any valving, for any loss, damage (direct, indirect or



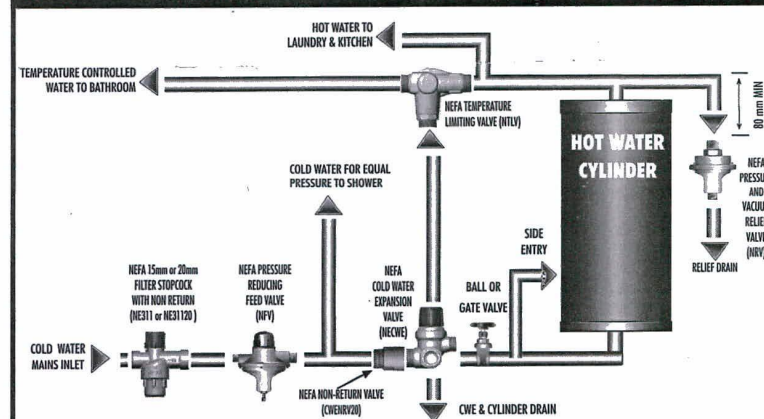
- On header tank and low pressure installations the Nefa TLV should be positioned as low as possible to increase performance.
- Do not braze or solder near the Nefa TLV
- When installing in a wetback situation try to install the Nefa TLV as far from the cylinder as possible to allow for cooling.
- Variation in TLV outlet temperature may occur with seasonal changes in cold water supply temperature.

MAINS PRESSURE - Valve Vented

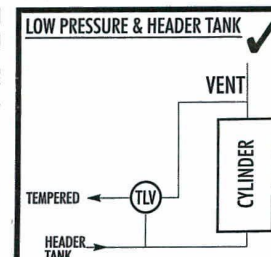
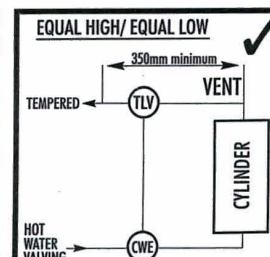
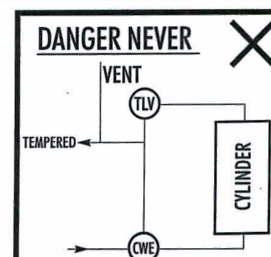


Diagrams for illustrative purposes only

LOW PRESSURE - Valve Vented

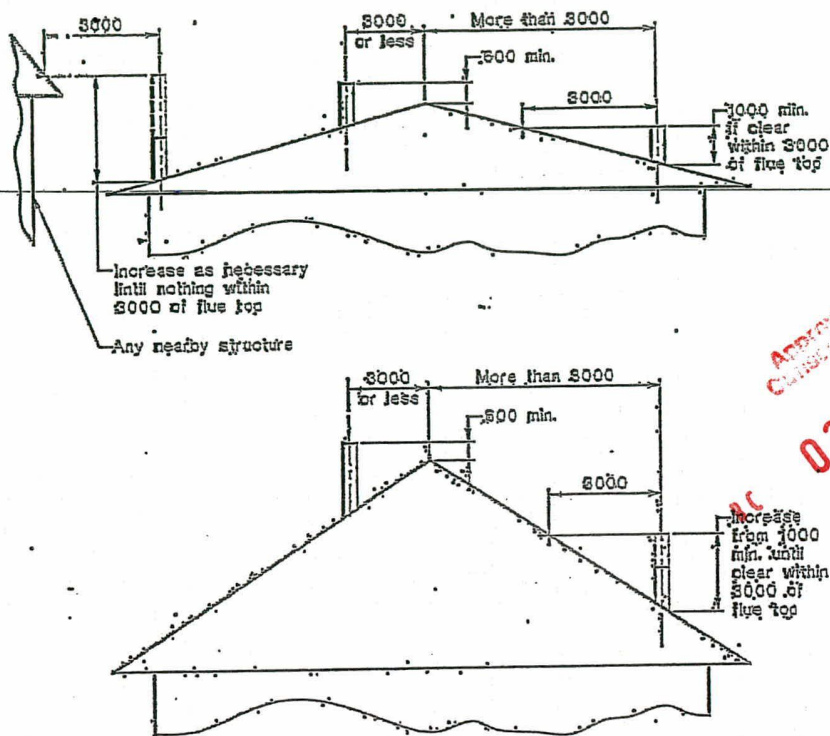


IMPORTANT - TLV INSTALLATION INSTRUCTIONS



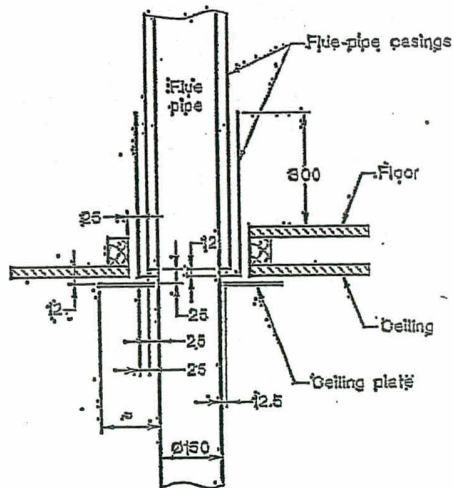
TYPICAL FLUE INSTALLATION AND POSITIONING

(per AS/NZS 2918:2001)



DIMENSIONS IN MILLIMETRES

FIGURE 4.9 MINIMUM HEIGHT OF FLUE SYSTEM EXIT



DIMENSIONS AS DETERMINED BY TESTING

DIMENSIONS IN MILLIMETRES

FIGURE 4.4(b) TYPICAL EXAMPLE OF A CEILING PENETRATION FOR A TESTED FLUE SYSTEM

Approved Building
Consent Documents
0236 / 11
Ashburton District Council

BC 0236 / 11



NZHHA

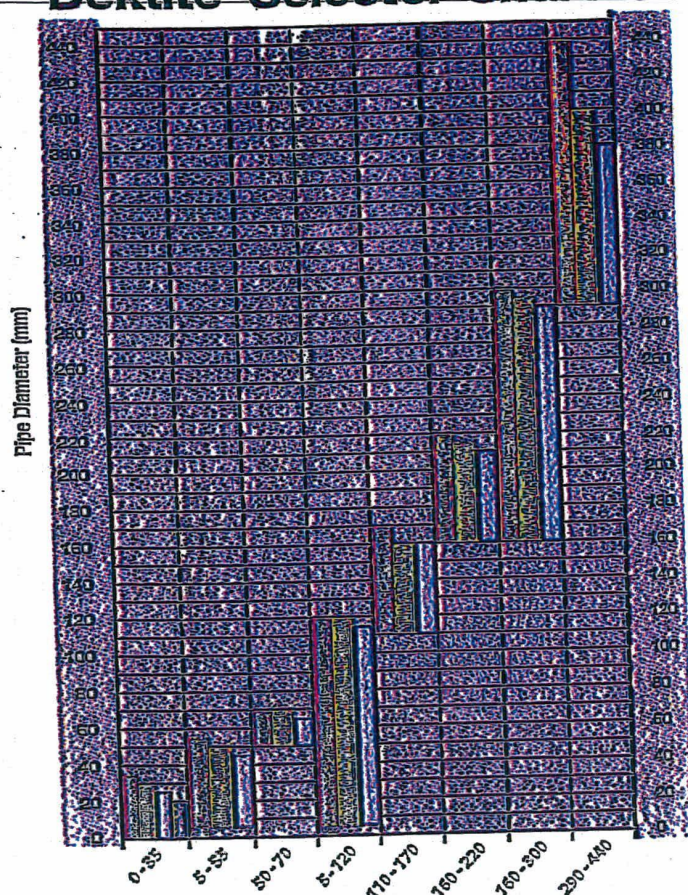
Auckland District Council

New Zealand Home Heating Association Inc.

Dektite®

INSTALLATION INSTRUCTIONS

Dektite® Selector Chart



Dektite® Code DB-Black DG-Gray

- From 0 to 30° pitch
- From 30 to 35° pitch
- From 35 to 45° pitch
- From 45 to 60° pitch (DFE 0-35 only)

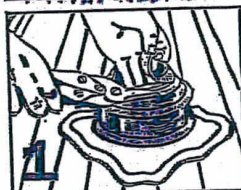
Step 1
Select the pitch of your roof and choose your colour

Step 2
Select the pipe diameter

Step 3
Read across until you reach your colour



For more effective drainage always fit the Dektite on the Diamond as shown.



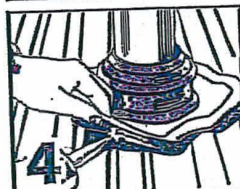
Cut a neat hole in roofing sheet with minimum clearance for pipe and insert pipe through hole. Trim the cone to suit pipe size using sharp tin snips. (Where necessary, support cut sections of sheet with additional timber framing).



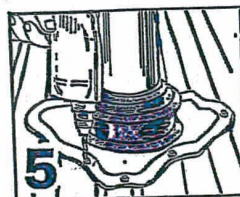
Slide Dektite® flashing down over pipe. Lubricating the pipe with water allows the pipe to slide snugly into position.



Press base to the roof profile by hand, smooth out any awkward creases. Don't fully extend to allow for vibration.



Apply a neutral cure silicone® sealant by turning back the flexible flange.



Fasten using class 4 coating washered screws. Fit fasteners progressively outward in opposing pairs to avoid gaps.

Silicone Sealants

Use only Neutral Cure, Alcohol free, Low Modulus Sealant (Silicone). Deks Industries have trialed the following silicone sealants and found them to provide a satisfactory seal between the EPDM and most commonly used roofing materials.

- OCI Roof and Gutter N-192, Silicone Sealant
- Selleys® Roof & Gutter Silicone Sealant
- Sikasil®-C Multipurpose Silicone Sealant
- Bostik Findley Roof & Gutter Silicone Sealant
- Dow Corning® 791 Silicone Weatherproofing Sealant



Dektite®

First and the Best!

NOTE: When flashing a metal pipe that has an exposed seam, using a neutral cure sealant, seal the seam from underside of cone to the top of Dektite® cone.

Guaranteed For 10 Years

As a sign of our commitment to quality all new Osburn fire boxes are guaranteed for 10 years. We guarantee our fire boxes to be free from defects in material or workmanship under normal use and service. The Warranty (on the firebox excluding attachments) is for 10 years from the date of purchase.*

* 1 Year warranty on all internal fire parts

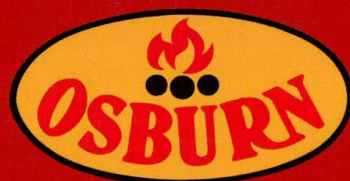
Installation

When installed in accordance with the manufacturers installation instructions your Osburn Fire will provide long term clean and energy efficient warmth. Glen Dimplex New Zealand recommends that all installation work should be undertaken by a NZHHA certified installation engineer.

Floor Protectors

Enhance your fire with a stylish floor protector available in a range of sizes and finishes. Consult your fire dealer today for the correct specification and a competitive price.

Your nearest Osburn dealer:



Glen Dimplex New Zealand Ltd
PO Box 58473, Greenmount, Auckland
www.glendimplex.co.nz

Glen Dimplex New Zealand Ltd's policy is one of continuous development. We reserve the right to change size and specifications without notice.
For confirmation of Osburn 1600 product details please refer to www.glendimplex.co.nz. Please refer to the installation and operation instructions before having your Osburn 1600 wood fire installed. A full set of these instructions are supplied with each fire.



Approved Building
Consents Document

Beyond fire... BC 0236 / 11

Ashburton District Council

OSBURN 1600

ENVIRONMENT FRIENDLY

WETBACK
APPROVED



THE OSBURN 1600 | TECHNICALLY SUPERIOR | SIMPLY THE BEST

You asked for a wood fire that's environmentally friendly, good looking, easy to operate and clean burning.

We're proud to introduce the outstanding Osburn 1600.

The 1600 boasts a winning list of features; most impressively of all it is wet back approved throughout New Zealand in accordance with the National Environmental Standard (NES) and Environment Canterbury (ECAN). The Osburn 1600 (dry model) is also clean air approved for Otago Regional Council Airshed 1.

Now that's clean burning!



Multi Purpose Radiant Cook Top

The Osburn 1600 not only heats your home but can also be used to cook your food. With a large 635mm cooking surface there's more than enough room to cook the heartiest of meals. Why pay for power when you can cook for FREE. You can be rest assured that when a power cut strikes the Osburn 1600 will provide all of your basic needs.



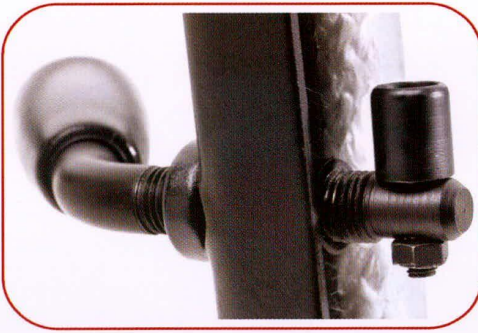
Self Cleaning Glass Door

Equipped with an air wash system the Osburn 1600 creates a rolling flame effect that burns off unwanted deposits for a clear view of the fire.



Built In Easy Clean Ash Pan

Fed up with the messy and time consuming procedure associated with ash removal? The Osburn 1600s removable ash pan with lid ensures cleanliness for you and your home every winter.



"Easy Roll" Door Lock

Simply the best door locking mechanism available. The roller door catch mechanism ensures a smooth and consistent door seal each and every time. As the door rope wears, a simple adjustment maintains a positive seal.



Minimal Clearances

The clearance distances required for the Osburn 1600 to combustible material are very reasonable making it an acceptable retrofit option for most New Zealand homes.



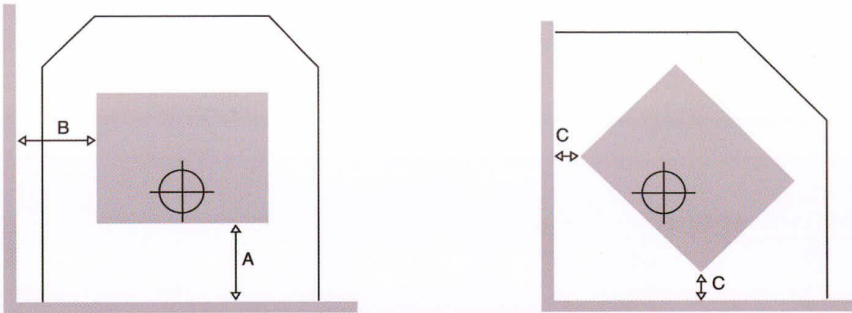
Standard Ash Hearth Requirement

The Osburn 1600 has a standard ash hearth requirement with no additional investment required.

TECHNICAL SPECIFICATIONS

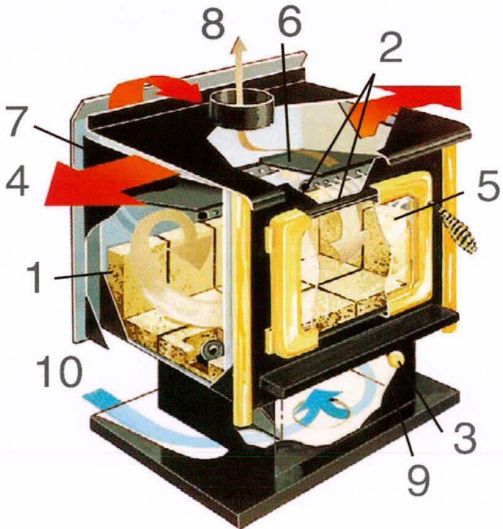
OSBURN 1600

"Our carefully crafted feature packed stove comfortably heats up to 210 square meters*. It has low clearance factors to combustible material plus an easy to use single air control handle that introduces pre heated air for an even cleaner burn. To top it all, its wet back approved. Here is everything you could ask for in a New Zealand manufactured wood fire".



Minimum Distance To:	A	B	C
Combustible Material	100 mm	360 mm	150 mm

1. Firebrick lining
2. Preheated Combustion air
3. Combustion air control
4. Hot convention air
5. Ceramic "super" glass
6. Baffle
7. Radiant surface
8. Flue gases
9. Ash pan
10. Cool air



MINIMUM HEARTH SIZE (mm)
Std - 800 (W) x 1000 (D) | Cnr - 1140 (W) x 1430 (D)

FIRE DIMENSIONS (mm)
745 (H) x 635 (W) x 675 (D)

WATER BOOSTER SPECIFICATIONS (mm)
Height to outlet - 480 | Height to inlet - 380

INTERNAL FIRE BOX DIMENSIONS (mm)
320 (H) x 458 (W) x 375 (D)

Easy to operate

All heating factors are controlled with a single air control handle.

Features

- Clean air approved wetback (ECAN & NES)
- Peak output 21.9kW**
- Maximum average output 19.8kW**
- Large flat radiant cook top
- Standard ash hearth requirement
- Ultra smooth door handle for easy opening/closing
- 320 mm height under baffle for large pieces of wood
- Clearance factors to combustible material suitable for most urban and rural retrofit installations
- Built in ash pan within pedestal for easy cleaning
- Heavy steel construction - 5mm firebox with 8mm top

Emissions

New Zealand 0.9g/kg (wet), 0.7g/kg (dry)

Efficiency

New Zealand 72% (wet), 70% (dry)

Approvals

- ECAN & NES approved with & without wetback
- Otago Regional Council Airshed 1 approved (dry only)

Warranty

10 year warranty on firebox
1 year warranty on all internal fire parts

* May vary subject to location in home, locality, heat loss factors, climate and fuels.
** For this laboratory test fuelling rate was determined as per AS/NZS 2918:2001

The Osburn 1600, Canadian designed for the coldest of winters. Manufactured in New Zealand for your pleasure & comfort.

NB: It is important to note that this dimension page is a guide only. Please refer to installation manual supplied for accurate manufacturer recommendations.

