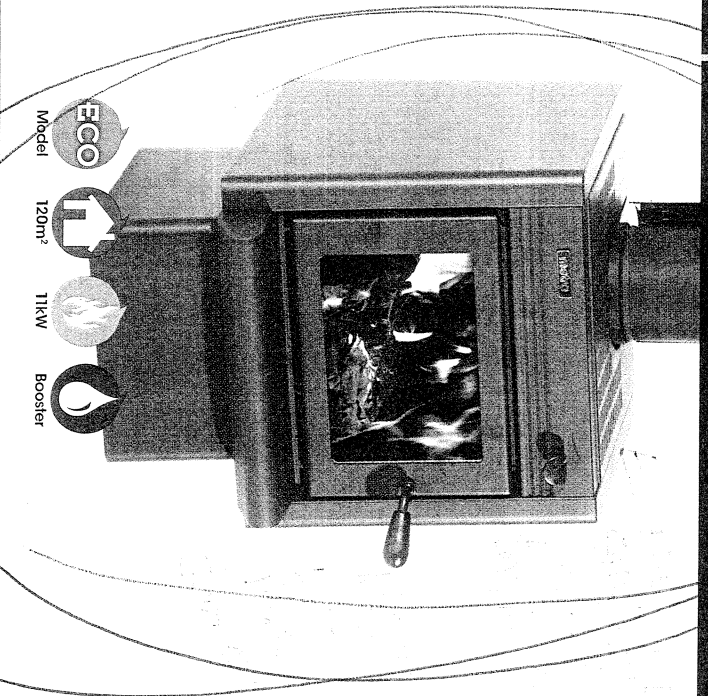


Tiny Series

metrofires

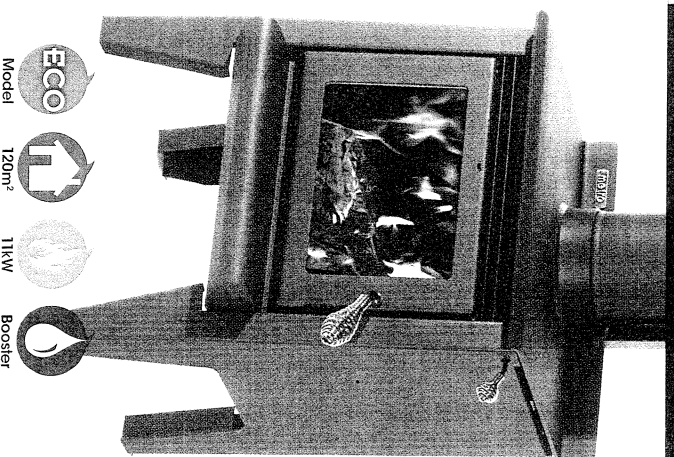
- Designed to heat open areas up to 120m²
- Compact with high performance, offering 11kW's of heat output
- Booster option, capable of heating your water needs
- Designed to last with 6mm carbon steel & fire brick lined

Metro Tiny Ped



Finished in metallic black
high temperature paint.

Metro Tiny Rad



Finished in metallic black
high temperature paint.

Installation Clearances & Specifications

Freestanding - Clearances & Dimensions (mm)

Model (Wood Fire)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Width	Depth	Height
Amble One	250	538	589	391	100	275	250	100	839	825	1142	960	427	350	540	577	464	717
Amble Plus	267	685	658	462	125	275	350	100	925	905	1317	1110	506	360	550	671	550	761
ECO Tiny Ped	210	430	580	290	25	200	185	60	790	650	990	875	250	280	470	490	530	665
ECO Tiny Rad	225	552	580	420	150	200	300	75	805	650	1165	925	250	280	470	505	530	665
ECO Wee Rad	260	525	580	385	80	200	220	110	840	825	1125	950	425	295	485	607	530	665
ECO Wee Ped	260	565	580	385	85	200	300	110	840	825	1120	950	425	295	485	590	530	665
ECO Wee Curve (DV)	300	555	580	405	100	200	250	150	880	825	1150	975	425	280	470	607	530	665
ECO Xtreme Ped (DV)	230	535	625	495	170	200	250	80	855	905	1325	1120	505	325	515	670	575	715
ECO Xtreme Rad (DV)	250	575	625	435	80	200	200	100	875	905	1240	1065	505	338	528	750	575	745
ECO Euro Rad (DV)	250	625	625	435	80	200	250	100	875	905	1240	1065	505	338	528	750	575	745
ECO Euro Ped (DV)	230	585	625	495	170	200	250	80	855	905	1325	1120	505	325	515	670	575	715
ECO Euro Trad (DV)	230	585	625	495	170	200	250	80	855	905	1325	1120	505	325	515	670	575	715
LTD Wee Rad	250	555	580	400	80	200	250	100	830	825	1145	950	425	295	485	607	530	665
LTD Wee Ped	250	595	580	400	85	200	300	100	830	825	1145	950	425	295	485	590	530	665
LTD Xtreme Ped	250	575	625	455	110	200	240	100	875	905	1265	1065	505	340	530	670	575	715
LTD Xtreme Rad	250	575	625	455	80	200	200	100	875	905	1265	1065	505	353	543	750	575	745
LTD Euro Ped	250	575	625	455	110	200	240	100	875	905	1265	1065	505	340	530	670	575	715
LTD Mega Rad	270	675	725	500	125	200	300	120	995	905	1425	1175	505	353	543	750	675	745
LTD Mega Ped	270	610	725	465	130	200	275	120	995	905	1400	1140	505	340	530	670	675	715

Insert & Built-In - Dimensions (mm)

Model (Firebox)	Width	Depth	Height
ECO Insert	560	500	550
ECO Smart Insert	560	495	550
LTD Insert	560	500	550
ECO Mega Smart Built-In	860	621	815

Model (Fascia)	Width	Depth	Height
ECO Trad	805/900	195	655/685
ECO Smart	890	30	672
ECO/LTD Trend	810	180	650
ECO Mega Smart Built-In	1057	30	825

Model Clearances

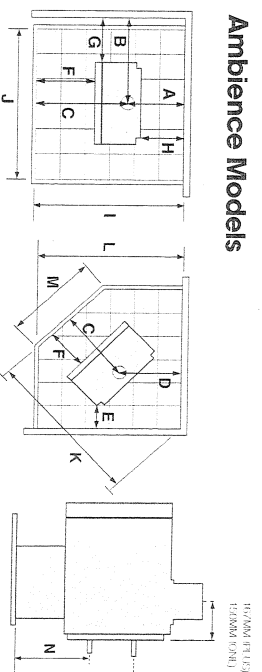
Minimum clearances shown are in mm, with a Pioneer double flue mounted shield fitted. All Metro wood fires comply with AS/NZS 2918:2001. Specifications were correct at the time of printing, but may alter and those detailed within should be used only as a guide. Refer to the installation and operation manual supplied with every Metro, or if in doubt, consult your Metro retailer.

Clearance Reductions

AS/NZS 2918:2001 allows for a reduction in minimum clearances as detailed in tables 3.1 and 3.2 of the standard which your Metro retailer will be able to advise you on. Pioneer has also tested certain model Metro's with "side extensions" fitted to the Pioneer double flue mounted shield, to achieve a reduction in clearances, details are:

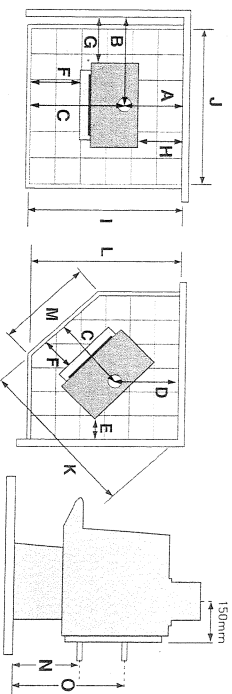
- The LTD Wee Ped installed with a Pioneer double flue mounted shield with side extensions fitted can have side clearances B and G reduced by 80mm if installed into an alcove which does not project forward of the Metro.
- The LTD Wee Rad and LTD Wee Ped rear clearance (H) and overall floor protector depth (I) can reduce by 50mm providing a wetback is not fitted and therefore maintenance access is not required.
- The ECO Euro Ped and ECO Xtreme Ped installed with a Pioneer double flue mounted shield with side extensions fitted reduces minimum corner clearance E from 170mm to 110mm. In this situation use the LTD Metro equivalent for measurements E, D, K & L. (i.e use LTD Euro Ped chart for ECO Euro Ped for E, D, K & L).

Ambience Models



Wetback connections for the Ambience models are 140mm left of the flue centre facing the Metro/wall.

ECO & LTD Models



Wetback connections for the Tiny models are 92mm left of the flue centre, all other Metro models are 140mm left of the flue centre facing the Metro/wall.

ROTORUA

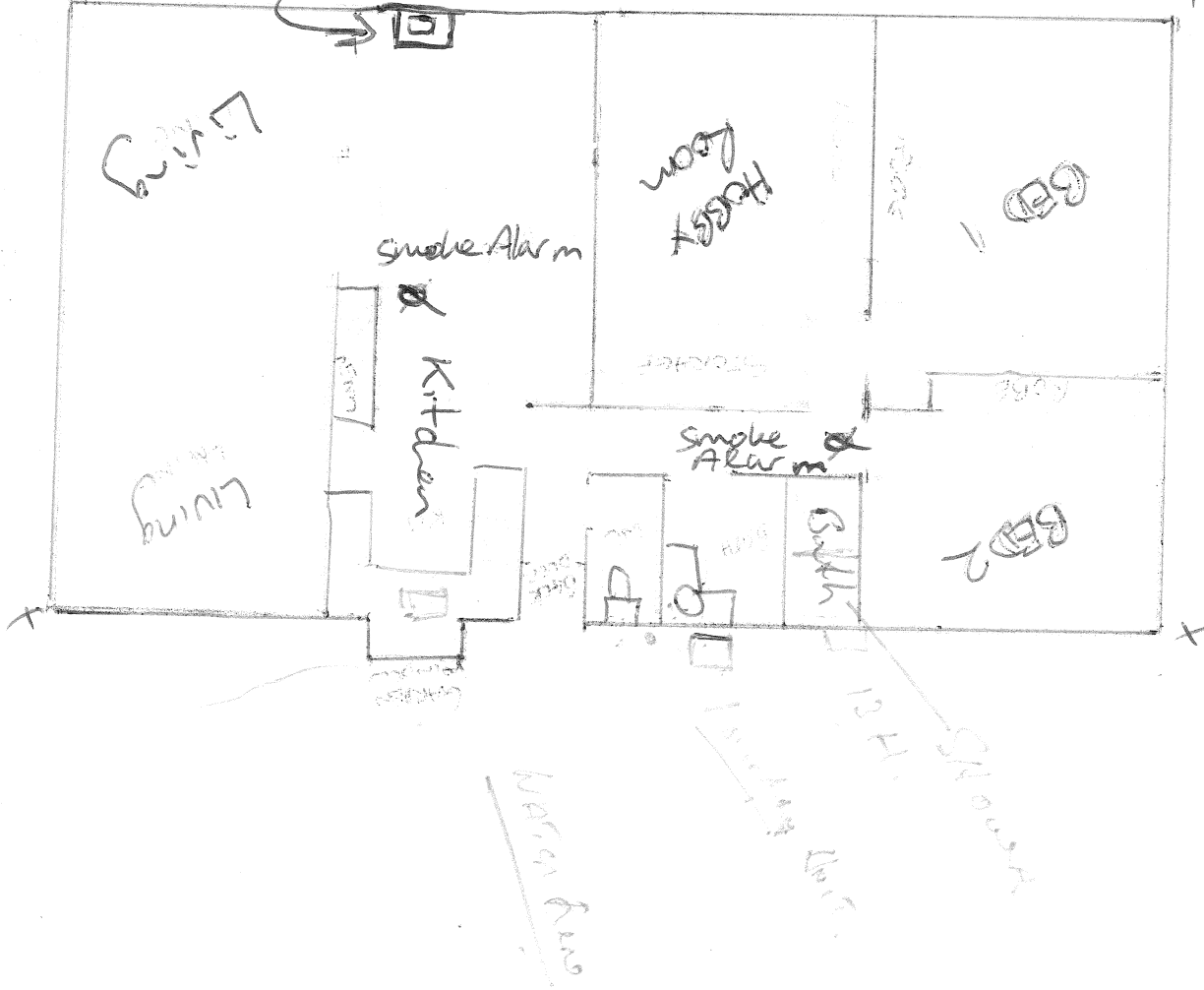
HEAT & GAS

CNR LAKE & FAIRY SPRINGS RD Rotorua
P.O. BOX 52, ROTORUA.
PH/FAX: 07 345-1111

Retailer stamp

Smoke Alarms $\otimes$ x 2

Proposed location of solid fuel wood fire:



Consent #20223
Neville Newland
1098 Baerens Rd
RD2
Whakareare

FAILURE TO OBSERVE THESE CONDITIONS
MAY NEGATE WARRANTIES

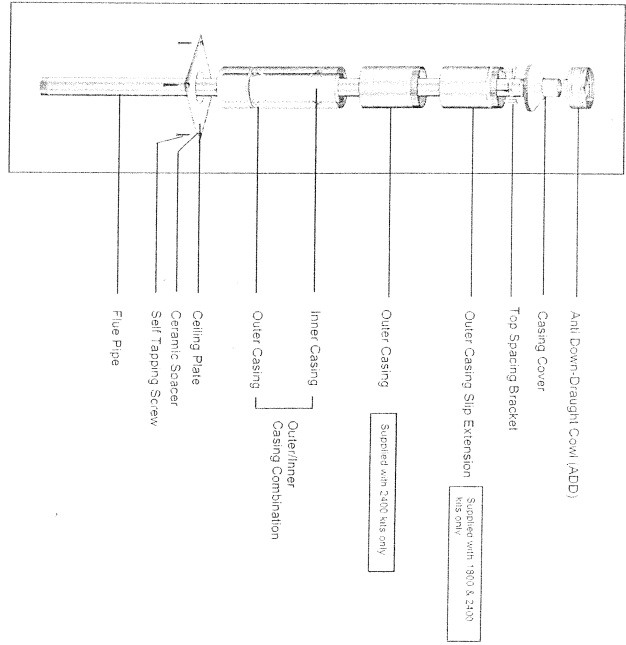
CONDITIONS OF USE

- 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 warranted 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.
- 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, i.e. 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, when 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:	



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

Sheetmetal Fabricated Products Ltd.
SFP

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 warranted for five years, providing the above conditions are met.

FAILURE TO OBSERVE THESE CONDITIONS
MAY NEGATE WARRANTIES

150 MM FREE STANDING WOODFIRE FLUE KIT INSTALLATION INSTRUCTIONS

WARNING: THIS USE KIT HAS BEEN MANUFACTURED IN ACCORDANCE WITH AS/NZS 2918:2001 AND INTENDED TO BE TESTED TO APPENDIX F. TO ENSURE SAFETY THIS FUELE KIT MUST BE INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS AND THE APPLICABLE REQUIREMENTS OF THE RELEVANT BUILDING CODES, FIRE CODES, WOOD FIRE AND FLOOR CLEARANCE FROM COMBUSTIBLE WALLS MUST BE IN ACCORDANCE WITH WOOD FIRE MANUFACTURERS 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 4.11)

1. Locate Wood Fire's fit 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 noggs 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 4.3.1(a) states, "the FLUE PIPE shall extend not less than 4mm 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.

750 5th Ave. N.

NE: 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 over the roofing material. Refer to the manufacturer's recommendations for correct fitting. NB: On non roof-falls fittings such as retail outlet 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 (climbed end downwards) into Wood Fire's 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 clipped ends down (towards Wood Fire). Secure each joint with a minimum of three Monel Steel rivets equally spaced round the joint. If using HI-TEMP FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.
- 9) From the roof tower FLUE PIPE through OUTER CASING into the bottom FLUE PIPE securing with three metal 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 scribing ring of the OUTER CASING, this will ensure the INNER CASING is the correct 12mm above ceiling level.
- 11) Check the INNER CASING when correctly positioned extends a minimum of 200mm above the roof penetration.
- 12) 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.
- 13) 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.
- 14) Fit CASING COVER over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.
- 15) Fit CHIMNEY DOWNSIDE CAP over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.
- 16) Fit CHIMNEY DOWNSIDE CAP over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.
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- 100) Fit CHIMNEY DOWNSIDE CAP over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.

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.

Diagram B

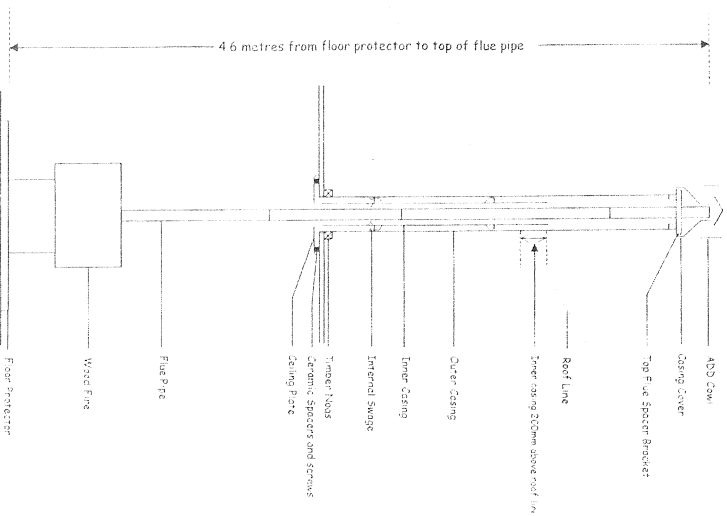
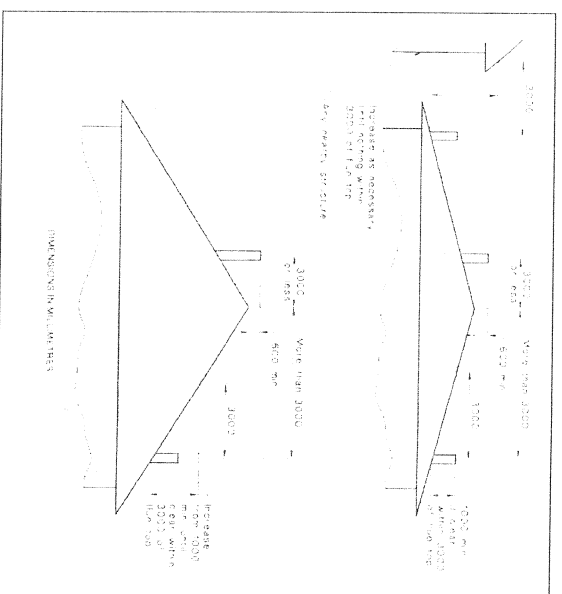

$$p \leq 10^{-10}$$

Diagram C AS/NZS 2918:2001 pg 37



● 日本経済新聞



Plumbing
Laser

Laser Plumbing Kawerau

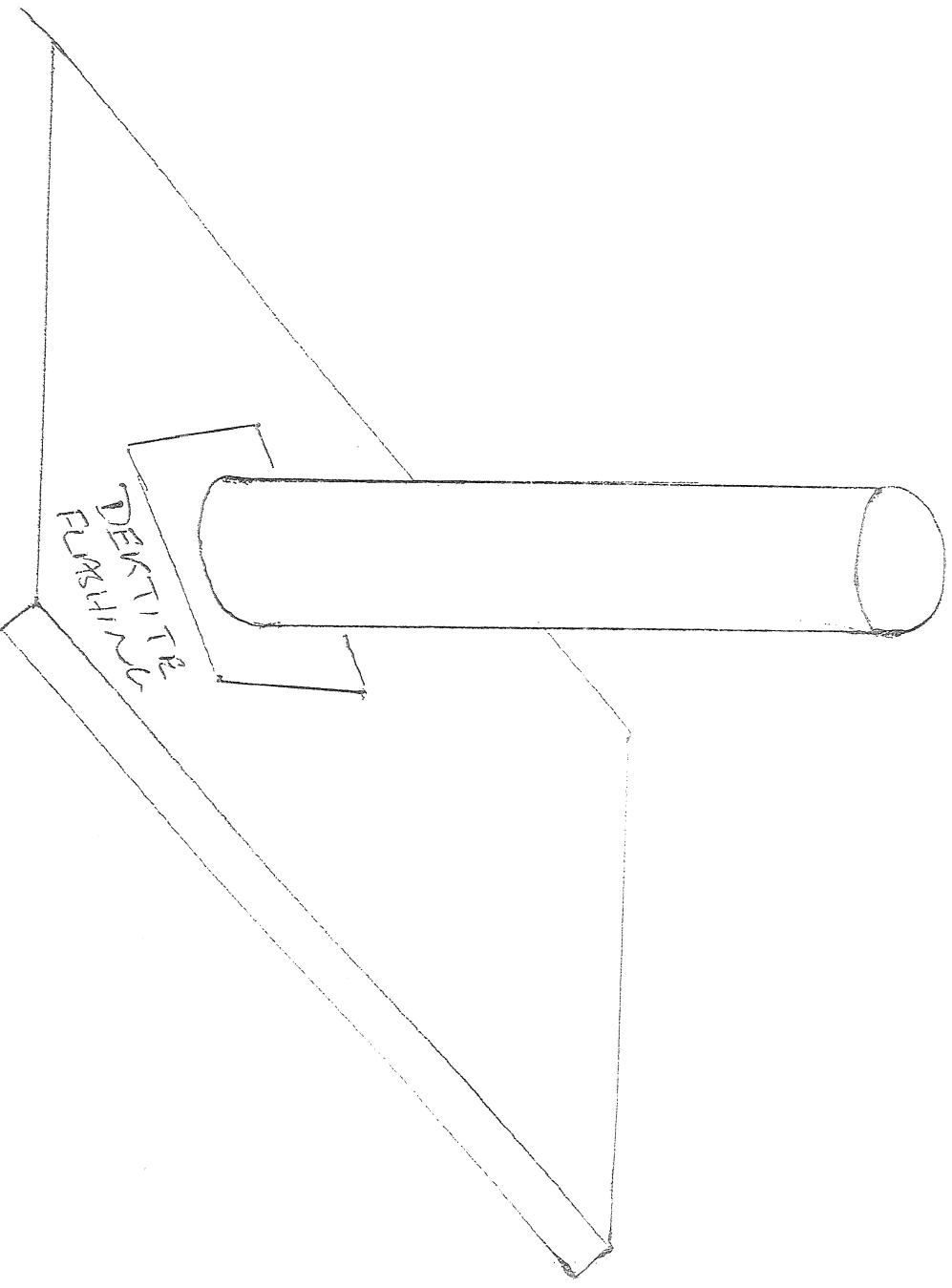
9 Liverpool Street
Kawerau 31 27

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Typical Soaker Flashing for a Metal profile roof penetration



Typical Soaker Flashing

Kawerau Plumbing 2007 Co. Ltd trading as Laser Plumbing Kawerau is independent to Laser Plumbing Group Limited. Laser Plumbing Kawerau uses the Laser name pursuant to a franchise agreement with Laser Plumbing Group Limited.