

Code Compliance Certificate

209368/1

Section 95, Building Act 2004



The Owner

Name of Owner: Carol Elizabeth McDowell & Eric Logan McDowell
Mailing address: 15 Cambridge Terrace
EAST GORE
GORE 9710

Business Phone:

Mobile:

Home Phone:

Facsimile number:

Email address:

Contact Details

Contact name: Southern Plumbing and Heating Ltd
Mailing address: PO Box 32
GORE 9740

Landline: 208 7560

Mobile:

Daytime:

After hours:

Facsimile number: 208 0526

Email address: goreoffice@sph.co.nz

The Building

Street address of building: 15 Cambridge Terrace EAST GORE
GORE
Legal description of land where building is located: PtL: 1 DP: 6942
Valuation number: 29760/301.00
Current, lawfully established, use: Detached Dwelling
Year Constructed: 1940

Building Work

Building Work: Remove existing burner and replace with Metro Wee Rad.
Building consent number: 209368/1
Issued by: Gore District Council

Code Compliance

The building consent authority named below is satisfied, on reasonable grounds, that —
(a) the building work complies with the building consent.

Gillian Bedwell

Regulatory - Assets Administrator on behalf of Gore District Council

Date: 31 July 2018

General Advisory Notes relating to Code Compliance Certificates

- This Code Compliance Certificate has been issued because the Gore District Council was satisfied, on reasonable grounds, that at the date of its issue, the building work was completed in accordance with the Building Code in force at the date of issuing the Building Consent, (and where applicable, any previously approved waiver or modification of the Building Code contained in the building consent for the work).
- Since the date the Building Consent was granted, the Building Code may have been amended. This certificate is not a representation that the building work meets the requirements of any amendments to the Building Code made since the Building Consent was issued.
- This Code Compliance Certificate is not a guarantee that the whole of the work has been completed in accordance with the Building Code or Building Consent, but that the Council was reasonably satisfied.
- The Code Compliance Certificate relates only to the state of the building work at the date of issue, and is not a statement that the building will remain sound throughout its life.
- Various types of building methods and materials do have specific requirements for ongoing inspection, cleaning & maintenance. The owner needs to be familiar with these standard practices, manufacturer's instructions, and warranty conditions which must be complied with in order to maintain the integrity of the building work. All materials and components will deteriorate over time.
- Regular Inspection and maintenance by the building owner is particularly important in the harsh environment and climate experienced in the Gore District. In some cases – complete replacement of building components will be a requirement where they have deteriorated, or have passed their manufacturer's warranty period – for example – sealants, waterproofing membranes, paint coatings.
- No representation is made as to the compliance of all items of building work on the specific site to which this Code Compliance Certificate pertains. This certificate relates solely to the building work specifically described in it. It does not relate to any other work. The Gore District Council cannot be held responsible for any other subsequent, or preceding building work, including maintenance, which has been done other than in accordance with an approved building consent.
- Nobody should rely solely upon this Code Compliance Certificate as representing that the building work is weather tight or otherwise sound, fit for its purpose and of acceptable quality. It is a snapshot only, which assesses the Building's compliance with the Building Consent, and Building Code on the date of issue. The soundness of the building will depend, among other things on its subsequent use and the ongoing maintenance performed.

FIELD/INSPECTION SHEET

Building Consent No: **209368 /1**

Date Applied: **22/06/2018**

Contractor:

Owner: **Carol Elizabeth McDowell & Eric Logan McDowell**

Project Description: **Remove existing burner and replace with Metro Wee Rad.**

Project Address: **15 Cambridge Terrace EAST GORE GORE**

Officer Name: *McEvoy*

Officer Signature: *McEvoy*

All building elements must be ticked (✓) either Y:Yes, N:No, or NA

General				Building Envelope			
Building Element	Y	N	NA	Building Interior	Y	N	NA
Have all previous inspections passed?			✓	Warning Systems / Smoke Alarms	✓		
Are there any outstanding requisitions?		✓		Personal Hygiene			✓
Have all energy certificates been received?			✓	Laundering			✓
Have all producer statements been received?			✓	Lighting			✓
Building Exterior				Seismic Restraints <i>2x to heater</i>	✓		
Gutters			✓	Waste Traps			✓
Down-pipes			✓	Wall and Ceiling Linings			✓
Surface water disposal			✓	Joinery			✓
Protection from flooding			✓	Glazing			✓
Access routes			✓	Slip Resistance			✓
Barriers/Handrails			✓	Barriers/Handrails			✓
Gully Traps			✓	Internal Moisture			✓
Venting			✓	Food Preparation			✓
Manholes			✓	Airborne and Impact Sound			✓
Silt-Traps			✓	Solid Fuel Heater	✓		
Wall Cladding			✓	Electricity			✓
Wall Flashing Details			✓	Energy Efficiency			✓
Wall Junction Details			✓	Gas			✓
Roof Covering			✓	Ventilation			✓
Roof Flashing Details			✓				
Misc Penetrations	✓						
Flat Roofing System			✓				

SITE INSPECTIONS REQUIRED					
CONSTRUCTION			PLUMBING / DRAINAGE		
Inspections	Signature	Date	Inspections	Signature	Date
☐ Siting			☐ Underfloor		
☐ Foundations/piles			☐ Prelining pipe		
☐ Pole holes (sheds)			☐ Waste and soil		
☐ Pre-floor Slab			☐ Foul water		
☐ Sub floor framing			☐ Stormwater		
☐ Blockwork			☐ Driveway sump		
☐ Cavity batten preline			☐ Water Heater / Wetback		
☐ Window flashings/tape			☐ Tempering valve		
☐ ½ height brick cavity			☐ Backflow preventor		
☐ Bracing fixings/screws			☐ Drainage plan		
☐ Pre-roof fixings/screws			☐ Effluent field		
☐ Moisture content			☐ Street/Road opening		
☐ Framing prelining			☒ FINAL		
☐ Insulation					
☐ Claddings					
☐ Disabled facilities					
☐ Fire ratings					
☒ Smoke alarms					
☒ Heating appliance					
☒ FINAL					

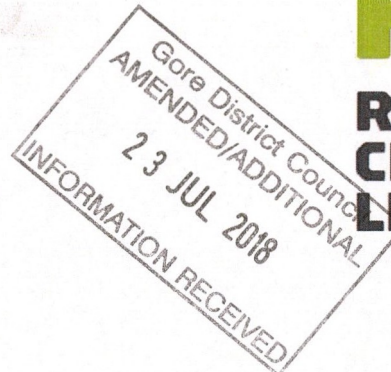
OTHER DETAILS		
☐ Compliance Schedule		
☐ Evacuation Scheme		
☐		
☐		
☐		

Date:	LBP names notified to BCA by owner	LBP No.	Licence Class	Written/ Verbal	Onsite Check	Initial

Comments: *no wet back confirmed*

Application for Code Compliance Certificate 209368/1

Section 92, Building Act 2004



Building Consent No: **209368/1**
 Issued by: **Gore District Council**
 Location: **15 Cambridge Terrace EAST GORE GORE**
 Description of work: **Remove existing burner and replace with Metro Wee Rad.**

Owners Name: Carol Elizabeth McDowell & Eric Logan
Postal Address: McDowell
 15 Cambridge Terrace
 EAST GORE
 GORE 9710

Landline:
Mobile:
Fax:

Contact Name: Southern Plumbing and Heating Ltd
Postal Address: PO Box 32
 GORE 9740

Landline: 208 7560
Mobile:
Fax: 208 0526
Email: goreoffice@sph.co.nz

The following evidence of ownership is attached to this application showing full name of legal owner(s) of the building:

- ☐ copy of certificate of title ☐ agreement for sale and purchase
☐ Lease ☐ other (specify)

Agent: (only complete this section if the application is being made on behalf of the owner)

Name of Agent: Southern Plumbing & Heating Ltd

Contact Person: Troy Wyatt

Mailing Address: PO Box 32 GORE

Street Address: 43 medway st GORE

Contact Phone: 03 2087560 Cell Phone: 0279331149

After Hours: Fax Number:

Email Address: Website:

Relationship to Owner:

First point of Contact:

The first point of contact with the Building Consent Authority (Gore District Council) regarding this consent is:

- ☐ Owner ☐ Contact Person detailed above

☐ Agent detailed above; or

☐ Other (specify)

Application:

All building work to be carried out under the above building consent was completed on:

The licensed building practitioner(s) (LBP's) who carried out or supervised the restricted building work is/are as follows:

Name	Licensing Class	Licensed building practitioner number (or registration number if treated as being licensed under Section 291 of Building Act 2004)	Particular work carried out or supervised

The personnel who carried out building work other than restricted building work are as follows:

.....
.....
.....

List names, address, phone numbers, and where relevant and if not provided above) licensed building practitioner numbers or Plumbers, Gasfitters, and Drainlayers Board registration numbers. Please continue on additional sheet if required.

The following specified systems are contained on the compliance schedule for the building and, in the opinion of the personnel who installed them, are capable of performing to the performance standards set out in the building consent: (List specified systems)

.....
.....

Please continue on additional sheet if required.

I request that you issue a code compliance certificate for this work under Section 95 of the Building Act 2004.

The code compliance certificate should be sent to: ☒ Owner;
☐ Agent detailed above; or
☐ Contact Person detailed above;
☐ Other (specify)

20 Butler
Signature of owner/agent

on behalf of and with the authority
of the owner (delete one)

Lance Butler
Name of Person
Signing

21-9-2018
Date

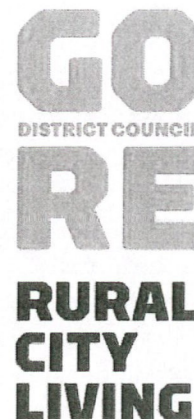
Attachments

The following documents are attached to this application (please tick):

- ☐ Memoranda (records of building work) from licensed building practitioner(s) stating what restricted building work they carried out or supervised.
- ☐ Other documents from the personnel who carried out the work.
- ☐ Evidence that specified systems are capable of performing to the performance standards set out in the building consent.

Building Consent No. 209368/1

Section 51, Building Act 2004



The Owner

Name of Owner: Carol Elizabeth McDowell & Eric Logan McDowell
Mailing address: 15 Cambridge Terrace
EAST GORE
GORE 9710

Business Phone:

Mobile:

Home Phone:

Facsimile number:

Email address:

Contact Details

Contact name: Southern Plumbing and Heating Ltd
Mailing address: PO Box 32
GORE 9740

Landline: 208 7560

Mobile:

Daytime:

After hours:

Facsimile number: 208 0526

Email address: goreoffice@sph.co.nz

The Building

Street address of building: 15 Cambridge Terrace EAST GORE GORE
Legal description of land where building is located: PtL: 1 DP: 6942
Valuation Number: 29760/301.00

Building Work

The following building work is authorised by this building consent:

Remove existing burner and replace with Metro Wee Rad.

This building consent is issued under section 51 of the Building Act 2004. This building consent does not relieve the owner of the building (or proposed building) of any duty or responsibility under any other Act relating to or affecting the building (or proposed building).

This building consent also does not permit the construction, alteration, demolition, or removal of the building (or proposed building) if that construction, alteration, demolition, or removal would be in breach of any other Act.

This building consent is subject to the following conditions:

nil

Compliance Schedule:

A compliance schedule is not required for the building.
nil

Attachments:

Copies of the following documents are attached to this building consent:

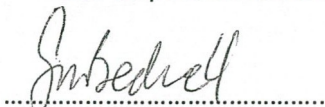
Project Information Memorandum: Not Requested

Additional Information to accompany Consent: Not Applicable

Development contribution notice: Not Applicable

Certificate attached to project information memorandum: Not Applicable

Site Inspection Record: 209368/1



Gillian Bedwell

Regulatory - Assets Administrator

On behalf of: **Gore District Council**

Date: **29 June 2018**

Please ensure that the signed and stamped documents are kept onsite during the construction process.

Advice Notes:

These Advice Notes shall be read in conjunction with this building consent.

- (1) Heating unit to be installed in accordance with consented details and manufacturers instructions. Ensure that you contact the Gore District Council when the heating unit is installed to arrange for an inspection. No heater is to be lit until an inspector has approved the installation. The ceiling plate **MUST** be down at the time of inspection to allow viewing.

CONSENT NO. 209368/1 **Gore District Council** **Building Consent Processing Checklist**

To be used as an aid, by the Building Control Officer, when processing Building Consents at the Processing table

- It is expected that there will be a tick in every line and that this will indicate that the BC application complies with the New Zealand Building Code. If it doesn't comply leave the line blank until it does. (The shaded areas are not to be filled in).
- This document is to be used for all Building Consent applications.

Owners Name: Carol Elizabeth McDowell & Eric Logan McDowell **Date:** 22/06/2018
Project Location: 15 Cambridge Terrace EAST GORE GORE
Proposed job: Remove existing burner and replace with Metro Wee Rad.

PIM INFORMATION DETAILS		BUILDING CATEGORIES			
Wind Zone	B01= Medium B02 = High B03 = Very High B04 = Extra High B05 = Specific Design		App	Ins	Date
Inundation		RES	1	1	28/06/18
Snow Loading	B06 = 5 B07 = 0/5kPa B08 = 1kPa B09 = Specific Design				Initial
Zoning	Z01 = Residential Z02 = Industrial Z03 = Commercial Z04 = Rural Z05 = Mixed Zone Z06 = Residential A Z07 = Residential B	COM			JS
Potential contamination		Compliance Schedule required: Y / ☒ N			
Location to mines or quarry's		New or amendment required Y / ☒ N			
Heritage information		Existing Compliance Schedule: Y / ☒ N			
Essential Services Information		RBW / LBP's involved? Y / ☒ N			
Vehicle access details	Roading R01 R02 R03 R04 R05 R06	Financial Contribution required: Y / N			
Planning requirements	Fire Fighting P12	Invoice generated: INV 520897 ☒ Y / ☒ N			

Documents to be contained on Property file with this consent:	YES	N/A
Form 2 – BC Application Form	☒	
Plans & Specifications (site specific, stamped and signed)	☒	
Producer Statements – design/design review		☒
Processing Check list/ notes	☒	
Correspondence / RFIs relevant to consent <i>Phone call</i>	☒	
PIM and/or Building Consent (once granted)	☒	
Other		☒
Field Sheet / inspection notes (include any notices to fix issued)	☒	
Energy Certificates		☒
Producer Statements - construction		☒
As Built Drainage Plans, photos stored		☒
Minor variation /BC Amendment		☒
Application for CCC – form 6 / form 6A	☒	
Copy of CCC - form 7 / Durability Modification	☒	

☒ YES, I am satisfied on reasonable grounds that the Building Consent documentation to be stamped "Site Documents" has been assessed to demonstrate compliance with the NZ Building Code, and this Building Consent is approved to be **Granted**, as per Section 49 of the Building Act 2004.

~~OR~~
~~NO, I am NOT satisfied that the Building Consent application documentation received demonstrates compliance with the Building Code, and the Building Consent is therefore recommended for Refusal under section 50 of the Building Act 2004~~

W. Kildes 28/06/18
 Processing Officers Signature Date

Reason(s) if refused: _____

Reviewed by BCM/BCO: *RP* Date: 28/6/18

Comments: _____

PIM and /or CONSTRUCTION Advice notes: (From Planning, 3Waters and Rooding departments)

Metro Wren Road F/S/3 Ecan 130815 as listed on Authored wood burner site

	Clause	Items	Alternative solution	N/A	Complies		Comments Including Endorsements, Conditions & construction requirements NOTE:- there must be comments as a means of recording the reason for decisions
					P & D	Build	
PIM	S31 - S39	Have you filled in PIM		✓			Yes / ☒ No <i>not applicable for</i>
	S71 - 74	Building on land subject to natural hazards (eg inundation)		✓			Yes / ☒ No <i>intromaps shows none</i>
	S75 - 83	Building on 2 or more allotments?		✓			Yes / ☒ No <i>sketch with own boundaries.</i>
	S112	Alterations to existing Buildings		✓		✓	☒ Yes / No <i>MOE - OK accessible - AT SH</i>
CS	S100 - 107	Is a compliance schedule required as a result of this work?		✓			Yes / ☒ No / existing CS to amend <i>SH heater only selected no features shown.</i>
	S114 - 116	Change of use		✓			Yes / ☒ No <i>SH - same as before.</i>
	S118	Access and Facilities - does the building need them		✓			Yes / ☒ No <i>existing SH unit</i>
EPB	S122	Is it an earthquake prone building?		✓			Yes / ☒ No / Not known <i>outside scope.</i>
	S222	Required inspections marked on site Inspection schedule			✓	✓	<i>no wet back confirmed</i>
B1	Structure	Foundations		✓			
		Floor & Sub-Floor				✓	<i>existing, insulating, health.</i>
		Wall Framing		✓			
		Roof Framing		✓			
		Trusses require a fully developed design		✓			
		Bracing elements, floor, wall, ceiling, roof		✓			
		Other (please specify)				✓	<i>Proprietary heater & flue system</i>
B2	Durability	Building materials, systems and components specified Plumbing and drainage materials, systems etc to be used				✓	<i>" " " " service history in R.J.</i>
C2	Prevention of fire occurring	C/VM1 Solid fuel appliances				✓	<i>Metro wren road - legs.</i>
		☒ AS/NZS 2918 ☐ AS1691 ☐ Other, state					<i>ECO Flue Kit confirmed installation details supplied</i>
C3	Fire affecting areas beyond fire source	C/AS1 Sleeping housing				✓	
		C/AS2 Sleeping					
C4	Movement to place of safety	C/AS3 Sleeping institutional				✓	
		C/AS4 Crowd					
C5	Access for safety for	C/AS5 Working business				✓	

	Clause	Items	Alternative solution	N/A	Complies		Comments Including Endorsements, Conditions & construction requirements NOTE:- there must be comments as a means of recording the reason for decisions
					P & D	Build	
	fire fighting operations	C/AS6 Working storage		✓			
Cb	Structural stability	C/AS7 Vehicle parking		✓			
		C/VM2 Specific fire design		✓			
BA 2005	S47	Does this application need to go to FENZ – Fire engineering unit?		✓			Yes / No <i>household unit</i>
D1	Access Routes	Disabled access		✓			} <i>SHIR no change - same as before.</i>
		Stairs, Handrails		✓			
		Slip resistant Surfaces		✓			
		Lift required?		✓			
J2	Mechanical Installations for Access	Producer Statement required		✓			<i>single level SH</i> <i>none shown.</i>
E1	Surface Water	Confirm FFL is min. 200mm above the 2% event level		✓			<i>no change to existing</i>
		Hard surface areas		✓			
		Drainage system		✓			
E2	External Moisture	Risk Matrix		✓			
		Cavities		✓			
		Materials		✓			<i>Deekite boot flashing for floor service history in area.</i>
		Penetrations/openings Flashings				✓	
3	Internal Moisture	Impervious, Overflow, Thermal resistance, Ventilation		✓			
F1	Hazardous Agents on site	MWH via the PIM		✓			<i>none known/shown</i>
F2	Hazardous Building Materials	Glazing - human impact safety Products containing asbestos				✓	<i>commonly used materials</i> <i>no banned materials shown</i>
F3	Hazardous Substances and Processes	HSNO storage and handling		✓			<i>no change</i>
		Trade waste?		✓			
		Gas, Solid, Liquid		✓			
F4	Safety from Falling	Deck / landing / stair barriers		✓			<i><1m</i>
		Window Restrictors?		✓			
F5	Construction & Demolition Hazards	PIM note (13) or schedule of proposed safety procedures				✓	<i>minor works local firm service history in our area single storey</i>
F6	Lighting for Emergency	Possible compliance schedule		✓			<i>no specific hazards</i> <i>SH unit</i>

	Clause	Items	Alternative solution	N/A	Complies		Comments Including Endorsements, Conditions & construction requirements NOTE:- there must be comments as a means of recording the reason for decisions
					P & D	Build	
F7	Warning Systems	Possible compliance schedule		✓			
		Smoke alarm				✓	F4/AS1 confirmed check on site
F8	Signs	Fire exits, etc		✓			limit on application
F9	Means of restricting access to residential pools	AS1 – Barriers for pools AS2 – Covers for small heated pools		✓			none under this consent.
G1	Personal Hygiene	Number of fixtures ok?		✓			
		Location of fixtures ok?		✓			
		Type of fixtures appropriate?		✓			(Mens / Womens / Uni / Accessible)
G2	Laundering	Number of facilities ok?		✓			
G3	Food preparation and prevention of contamination	Kitchen surfaces, food storage, commercial food premises - Send to EHO		✓			
G4	Ventilation	Natural, Mechanical, gas- fuel appliances		✓			
G5	Interior Environment	Heating, Space and Accessibility requirements		✓			
G6	Airborne & Impact Sound	STC, IIC		✓			
G7	Natural Light	% of glass, Visual awareness		✓			
G8	Artificial Light	Access routes, Common spaces, exit s		✓			
G9	Electricity	Is it part of this BC application – PS1		✓			
G10	Piped Services	Fuel gas only – all others alternate solution		✓			
G11	Gas as an Energy Source	Is it part of this BC application. AS1 / NZS5261		✓			
G12	Water	Back flow prevention, supply		✓			
		Cold Water		✓			
		Hot Water		✓			
		Non-Potable		✓			
G13	Foul Water	Drainage		✓			
		Sanitary Plumbing		✓			
		Septic tank		✓			
G14	Industrial Liquid Waste	Containment, Disposal		✓			
		Trade waste		✓			

no change to existing – meet same as before.
no wet back confirmed
B1/2

	Clause	Items	Alternative solution	N/A	Complies		Comments Including Endorsements, Conditions & construction requirements NOTE:- there must be comments as a means of recording the reason for decisions
					P & D	Build	
G15	Solid Waste	Storage		✓			<i>no change was same as before.</i>
		Access		✓			
		Design		✓			
H1	Energy Efficiency	R – value building		✓			
		R – value plumbing		✓			

RFI - Request for further information

Date Requested	Details of Information Requested, and BC suspended	Date Received	Info Adequate		Date Re-requested	Officers Initials
			YES	NO		
28-06-18	Phone call to Troy Wyllie existing insulating hearth. in existing above clearances OK to rear, sides & above 1500mm mini no wet back. same position as existing heater.	28-06-18	✓			MS.

Producer Statements received from: (name)	Date Author Checked	Adequate		Officers Initials
		YES	NO	
NA				

PS Peer Review sent to/ received from :	Date sent	Date review received	Officers Initials

Building Consent Conditions : (These can only be the 5 prescribed conditions as allowed under the Building Act).

Conditions that apply to this BC are : Nil Sec 37 Sec 67 Sec 73 Sec 75 Sec 90 Sec 113

Specialised Systems that relate to this BC application are Nil or as listed:

SS 1 2 3 3.1 3.2 3.3 4 5 6 7 8.1 8.2 8.3 9 10 11 12.1 12.2 13.1 13.2 13.3 14.1 14.2 15.1 15.2 15.3 15.4 15.5 16 CS13 14 15 16

SH - no cable car.

BUILDING CONSENT Advice Notes: (from Building and Plumbing/Drainage)

B/D

Final Checklist prior to Granting and/or Refusal	Yes	No	N/A
Have all RFI items been satisfied ?	☒		
Have you stamped and signed both copies of the plans and specification?	☒		
Have all appropriate departments viewed this application?			☒
Have you signed the Form 2 application form?	☒		
Have you indicated which SS items apply to this BC?			☒
Have you included any advice notes that apply to this BC?	☒		
Have you included details of any B Act conditions that apply to this BC?			☒
Consent documents sorted ready for granting?	☒		
Have you signed/dated the front page of this form?	☒		
Have you <u>granted</u> /refused the BC in Authority?	☒		

Phone call

Form 2: Application for project information memorandum and/or building consent
Section 33 or 45, Building Act 2004

Gore District Council
PO Box 8
29 Bowler Avenue
Gore 9740
Phone 03 209 0330 | Fax 03 209 0357
Email info@goredc.govt.nz | Web goredc.govt.nz



1. THE BUILDING [Complete all applicable sections]

Street address of building: 15 Cambridge Tce
[If no street address – details of nearest intersection]
Legal description of land where building is located: Lot 1 DP 6942
Site area 511 (m²) Sec Block
Building name: Valuation Number 297601300.00
Location of building within site/block number: [Include nearest street access]
Number of levels: [Above & below ground] Level /Unit Number:
Floor area: 4 (m²) [Indicate area affected by the building work]
Current, lawfully established, use: Dwelling Year First Constructed: 1940
[Add no. of occupants per level and per use if more than 1]

OFFICE USE ONLY:

Consent Number: 209368/1
PIM Number:
Compliance Schedule No:
Date received:
RECEIVED
Gore District Council
22 JUN 2018

2. APPLICATION [Nominate as applicable]

I request that you issue a: (for the building work described in this application)

- ☐ Project Information Memorandum (PIM)
☐ Project Information Memorandum (PIM) and Building Consent (BC)
☒ Building Consent The existing PIM No [If applicable] is:
☐ Amendment to an existing Building Consent. The existing BC No is:
☐ Staged Consent – Being stage of stages

State the reference number if this application involves a National Multiple Use Approval:

Name: Troy Wyatt Signature: [Signature] Date: 22-6-18

The signature is that of the ☐ Owner OR ☒ the Agent on behalf of and with the approval of the Owner

☐ I/we acknowledge that some communications may be by email

3. THE PROJECT

DESCRIPTION OF BUILDING WORK: (Provide sufficient information below to enable scope of work to be fully understood)

Remove existing Borer and replace with
Metro Lee Rd & Flue

Current use of building: Home [E.g. Home, implement shed, office]

Will the building work result in a change of use of the building? ☐ Yes ☒ No. If Yes, provide details of the new use of the building:

Intended life of the building if less than 50 years: n/a [Years]

List Building Consents previously issued for this project (if any): n/a

Estimated value of the building work on which the building levy will be calculated (including goods and services tax):

\$ 5000 [State estimated value as defined in section 7 of the Building Act 2004]

Is prescribed energy work to be part of this Building Consent (tick if applicable) Gas ☐ Electricity ☐



4. OWNERName of Owner: Eric McDowell

Contact person:

Mailing address: 15 Cambridge TceGore

Street address/registered office:

Phone No.: Landline: 03 208274

Mobile:

Daytime:

After hours:

Facsimile:

Email:

Website:

THE FOLLOWING EVIDENCE OF OWNERSHIP IS ATTACHED:☐ Certificate of Title ☐ Lease Agreement☐ Agreement for Sale and Purchase ☐ Other document**5. AGENT** [Only required if application is being made on behalf of the owner]Name of Agent: Southern Plumbing & HeatingContact person: Troy WyattMail address: PO Box 32 GoreStreet address/registered office: 43 Medway St GorePhone No.: Landline: 032087560Mobile: 0279331149

Daytime:

After hours:

Facsimile:

Email: troy@sph.co.nz

Website:

Relationship to owner: [State details of the authorisation from the owner to make the application on the owner's behalf] Contractor**FIRST POINT OF CONTACT** for communications with the Council / Building Consent Authority: ☐ Owner ☒ Agent

Or: (If different to above details) Name: Email:

Mailing Address: Phone: Facsimile:

BILLING (PAYER) DETAILS: ☐ Owner ☐ Agent ☐ Other, (state name & mailing address)**6. RESTRICTED BUILDING WORK**Will the building work include any restricted building work? ☐ Yes ☒ No

If Yes, provide the following details of all licensed building practitioners who will be involved in carrying out or supervising the restricted building work (If these details are un-known at the time of the application, they must be supplied before the building work begins.):

Name	Licensing Class	Licensed Building Practitioner Number (or registration number if treated as being licensed under section 291 of the Building Act 2004)

Note: Continue on another page if necessary**7. PROJECT INFORMATION MEMORANDUM** [Do not fill in this section if the application is for a building consent only]

The following matters are involved in the project: [Nominate the matters relevant to the project]

- ☐ Subdivision
- ☐ Alterations to land contours [e.g. digging out the site for a building platform]
- ☐ New or altered connections to public utilities [e.g. Council sewer, storm water or water mains]
- ☐ New or altered locations and/or external dimensions of buildings
- ☐ New or altered access for vehicles
- ☐ Building work over or adjacent to any road or public place
- ☐ Disposal of stormwater and wastewater
- ☐ Building work over any existing drains or sewers or in close proximity to wells or water mains
- ☐ Other matters known to the applicant that may require authorisations from the Territorial Authority: [Specify]

8. BUILDING CONSENT

The following plans and specifications are attached to this application: (please enter these in section 10 over page)

THE BUILDING WORK WILL COMPLY WITH THE BUILDING CODE AS FOLLOWS:

Building Code Clause <i>Nominate relevant clauses</i>	Means of Compliance <i>Nominate relevant compliance path(s) for each clause selected.</i>				
	Acceptable Solution	NZS 4121 Accessible Design	Verification Method	Alternative Solution <i>Please complete Form SBCG 34.1</i>	Waiver/Modification <i>Please complete Form SBCG 23.1</i>
☐ B1 Structure	☐ B1/AS1 ☐ B1/AS3		☐ B1/VM1 ☐ B1/VM4	☐	☐
☒ B2 Durability	☒ B2/AS1		☐ B2/VM1	☐	☐
☒ C1-6 Protection from fire	☒ C/AS1 ☐ C/AS2 ☐ C/AS3 ☐ C/AS4 ☐ C/AS5 ☐ C/AS6 ☐ C/AS7		☐ C/VM1 ☐ C/VM2	☐	☐
☐ D1 Access routes	☐ D1/AS1	☐	☐ D1/VM1	☐	☐
☐ D2 Mechanical installation for access	☐ D2/AS1 ☐ D2/AS2 ☐ D2/AS3	☐		☐	☐
☐ E1 Surface water	☐ E1/AS1		☐ E1/VM1	☐	☐
☒ E2 External moisture	☒ E2/AS1 ☐ E2/AS2 ☐ E2/AS3		☐ E2/VM1	☒	☐
☐ E3 Internal moisture	☐ E3/AS1			☐	☐
☐ F1 Hazardous agents on site			☐ F1/VM1	☐	☐
☐ F2 Hazardous building materials	☐ F2/AS1			☐	☐
☐ F3 Hazardous substances and processes			☐ F3/VM1	☐	☐
☐ F4 Safety from falling	☐ F4/AS1			☐	☐
☒ F5 Construction and demolition hazards	☒ F5/AS1			☐	☐
☒ F6 Visibility in escape routes	☒ F6/AS1			☐	☐
☒ F7 Warning systems	☒ F7/AS1			☐	☐
☐ F8 Signs	☐ F8/AS1	☐		☐	☐
☐ F9 Restricting access to residential pools	☐ F9/AS1 ☐ F9/AS2				
☐ G1 Personal hygiene	☐ G1/AS1	☐		☐	☐
☐ G2 Laundering	☐ G2/AS1	☐		☐	☐
☐ G3 Food preparation and prevention of contamination	☐ G3/AS1	☐		☐	☐
☐ G4 Ventilation	☐ G4/AS1		☐ G4/VM1	☐	☐
☐ G5 Interior environment	☐ G5/AS1	☐		☐	☐
☐ G6 Airborne impact sound	☐ G6/AS1		☐ G6/VM1	☐	☐
☐ G7 Natural light	☐ G7/AS1		☐ G7/VM1	☐	☐
☐ G8 Artificial light	☐ G8/AS1		☐ G8/VM1	☐	☐
☐ G9 Electricity	☐ G9/AS1		☐ G9/VM1	☐	☐
☐ G10 Piped services	☐ G10/AS1		☐ G10/VM1	☐	☐
☐ G11 Gas as an energy source	☐ G11/AS1			☐	☐
☐ G12 Water supplies	☐ G12/AS1 ☐ G12/AS2		☐ G12/VM1	☐	☐
☐ G13 Foul water	☐ G13/AS1 ☐ G13/AS2 ☐ G13/AS3		☐ G13/VM1 ☐ G13/VM4	☐	☐
☐ G14 Industrial liquid waste	☐ G14/AS1		☐ G14/VM1	☐	☐
☐ G15 Solid waste	☐ G15/AS1			☐	☐
☐ H1 Energy efficiency	☐ H1/AS1		☐ H1/VM1	☐	☐
☐ B1-H1 Simple House Solution	☐ SH/AS1				
☐ B1-H1 Back Country Hut	☐ BCH/AS1				

9. COMPLIANCE SCHEDULE (specified systems are defined in regulations)

- ☐ The specified systems for the building are as follows:
- ☐ The following specified systems are being altered, added to, or removed in the course of the building work:
- or
- ☒ There are no specified systems in the building.

Please provide the details required by completing either form:

- SBCG27 Compliance Schedule Specified Systems (or)
- SBCG11 Application for amendment to Compliance Schedule

10. ATTACHMENTS

The following documents are attached to this application (All plans and specifications must meet the minimum requirements set out in the regulations or required by the building consent authority):

[Nominate as applicable]

- ☒ Plans and specifications (list) (or attach a list)
-
- ☐ Memoranda from licensed building practitioner(s) who carried out or supervised any design work that is restricted building work
- ☐ Project Information Memorandum ☐ Development contribution notice ☐ Certificate attached to Project Information Memorandum
- ☐ Other information relevant to this application: [Please specify]:
-
- ☐ Current Certificate of title provided

11. CONTACTS (involved in this project)

Designer

Name(s):

Postal Address:

.....

Mobile: Daytime:

Reg No: Email:

Engineer

Name(s):

Postal Address:

.....

Mobile: Daytime:

Reg No: Email:

Builder

Name(s):

Postal Address:

.....

Mobile: Daytime:

Reg No: Email:

Gasfitter

Name(s):

Postal Address:

.....

Mobile: Daytime:

Reg No: Email:

Drainlayer

Name(s):

Postal Address:

.....

Mobile: Daytime:

Reg No: Email:

Plumber

Name(s): Southern Plumbing and Heating

Postal Address: PO Box 32 Gore

.....

Mobile: 0279331149 Daytime:

Reg No: 25084 Email: troy@sph.co.nz

Electrician

Name(s):

Postal Address:

.....

Mobile: Daytime:

Reg No: Email:

Other

Name(s):

Postal Address:

.....

Mobile: Daytime:

Reg No: Email:

13. Applicant / Agent's Check

Tick if provided or note as N/A where not applicable

Landowners information

This information should match information found on the rates assessment or Certificate of Title

Certificate of Title provided

A Certificate of Title is mandatory for ALL new buildings, extension to buildings, building envelope change, change of use of building and some drainage works

Owners Agent information

This is only relevant when agent is working on behalf of the owner

Building Location

This information can be found on the rates assessment, Certificate of Title, or a Sales and Purchase Agreement

Description of Work

What is the building consent application for? Does the description of work accurately represent the work being undertaken?

Intended Use

This is the buildings use eg. dwelling

Building Code Clauses

Method of compliance with the Building Code

Value of Work

What is the value of work that is covered by the consent application

Application Form Signed

The application cannot be accepted if not signed

Memorandum – Certificate of Design Work

Has the designer provided the Form 2A for RBW

Licensed Building Practitioners identified (Form 2A)

Yes ☐ Some known ☐ Not yet identified ☐

Are the Designer and LBP's specified licensed for the RBW being undertaken

Registered Architect and CP-Engineer are deemed to be licensed Designers

14. Miscellaneous

Vehicle Access

Street Crossing New ☐ Existing ☐
Rural Access New ☐ Existing ☐
Rapid No. Required Yes ☐ No ☐
Street No. Required Yes ☐ No ☐

Note: All new or altered vehicle access require approval from the Roading Department prior to installation. Street numbers and RAPID numbers must be issued by Council's GIS Department – please do not allocate or assume numbers yourself.

Utilities

New Water Connection Yes ☐ No ☐
New Sewage Connection Yes ☐ No ☐
New Stormwater Connection Yes ☐ No ☐

Note: If a new water connection is required, there is a separate application form and fee payable. Please enquire at the reception area in the Regulatory Department.

Trade Waste

The Trade Waste Bylaw 2008 regulates the discharge of Trade Waste to Gore District Council's Sewerage Systems operated by or on behalf of the Council as Wastewater Authority.

Does this consent require:

Trade Waste to be considered? Yes ☐ No ☐
Has an application been lodged? Yes ☐ No ☐

Council Use Only

	Y	N/A
Application Form 2 Complete	☒	☐
Form 2A – Certificate of Design - RBW	☐	☒
Site Plan	☐	☒
Elevations	☐	☒
Floor Plan (existing, proposed, new)	☒	☐
Truss Details	☐	☒
Producer Statement	☐	☒
Specification (job specific)	☒	☐
Water Installation & Flue Details	☒	☐
Plumbing & Drainage Plans	☐	☒
2 Complete Sets of Documents (x 2)	☒	☐
PIM (transportable)	☐	☒
Certificate of Title provided	☐	☒

The above is satisfactory for this application to be accepted for processing: ☒ Y ☐ N Date: 26/6/2018

First Point of Contact

☐ Owner ☒ Agent

Consent posted to

☐ Owner ☒ Agent

Consent Fees

Building Consent \$ 290.00
Accreditation Levy \$ 0.00
BRANZ Levy \$
DBH Levy \$
Street Asset Deposit \$
Resource Consent \$
Other (CS, CT etc.) \$
Total Fee Payable \$ 295.00
Paid on application ☐ Yes ☒ To be invoiced
Receipt Number
Cash/Chq/Eftpos/FR
Invoice to: ☐ Owner ☒ Agent ☐ Other

Approvals

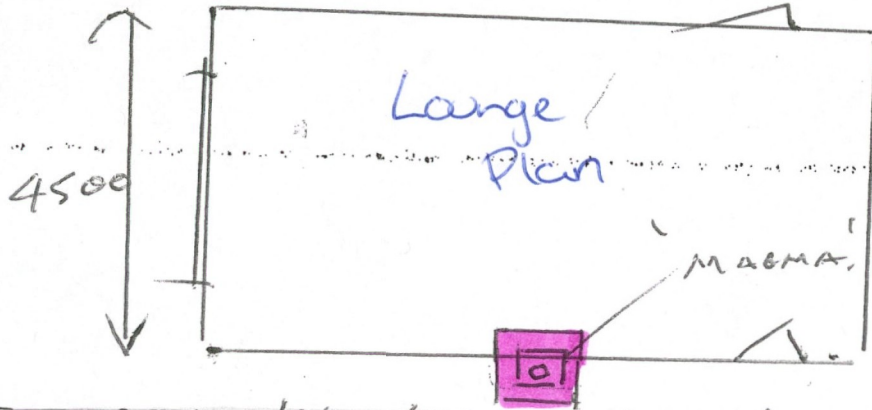
	Checked	Date	NA
Building	☒	28/06/18	
Plumbing			☒
Drainage			☒
Planning			
Roading			
Utilities			
Reserves			
Licensing			
Parking			
External Engineer			
NZ Fire Service			

	Yes	No
Compliance Schedule Required	☐	☒
Section 37 Notice Required	☐	☒
Section 72 - 75 Notice Required	☐	☒

Approved for Issue:

Officers Signature: [Signature] Date: 28-06-18

YOUR SITE PLAN



GORE DISTRICT COUNCIL		
Consent No.	209368/1	
Building	28-06-18	18.
Plumbing		
Drainage		
Planning		
Roading		
Utilities		
Reserves		
Licensing		
Parking		
	Date	Initials

F.-2d.

Roll. No.

PERMANENT

DATA

Type of Building:

S.F. RB.

Legal desc.: Sec 27 to 30

B/L XXV

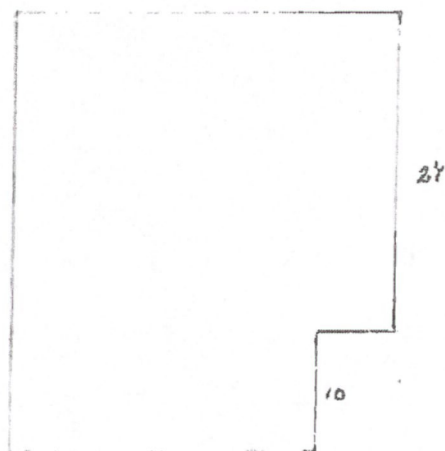
East York Council

Address: Railway Exp.

Date of Permit:

Date Occupied:

Cost:



2976/301

Name:

Date:

MATERIALS	Exterior	Fdns.: W/P	Floor area computations:
	Interior	Walls: W. Cement Roof: G.C.I.	
FITTINGS	Exterior	Walls: R.L.	32 x 27 864
	Interior	Ceilings: T & G. A.L. Floors:	25' 4" x 10 252 <u>716</u> 104 m ²
Kitchen: Range: L.S. Cupbds.: pers			
S.B.: W.C. 12"			
Bathrm.: Bath H. & L., Sh. over B.I.B.			
Laundry: Alt. Cupp. 12" H.W.S. Elec.			
Wardrobes: 2 F.P. Built.			
Design and Construction:			
23/- + f 500 - 20/-			

Type 7 – Automatic fire sprinkler system with smoke detectors and manual call points

1.2.9 A Type 7 system is a combined Type 6 and Type 4 alarm system (including a Type 2 system). Sprinkler installation shall comply with the requirements of a Type 6 system.

Comment:

Smoke detectors are used to gain an earlier warning to life-threatening situations than may be achieved from the response of sprinklers, particularly where a smouldering fire does not produce enough heat in its early stages to activate a sprinkler head.

1.3 Location of heat and smoke detectors

1.3.1 Acceptable Solutions C/AS1 to C/AS7 specify which fire alarm system shall be installed in each *risk group*. Detectors shall be installed throughout the *firecells* of that *risk group* as required by NZS 4512.

1.3.2 Every space shall have at least one detector (heat, smoke or sprinkler).

2.0 Requirements of fire alarm systems

2.1 Alerting the Fire Service

2.1.1 Where an alarm system is required by Acceptable Solutions C/AS1 to C/AS7, there shall be available a means of communication with the Fire Service.

2.1.2 The means of communication shall be either:

- a) A direct connection (approved by the Fire Service) between the alarm system and the Fire Service, or
- b) A '111' telephone call to the Fire Service from a continuously attended telephone with outside line access serving all *buildings* connected to the alarm system, and having the main *fire* alarm panel or mimic panel visible to the switchboard operator. A warning device shall be provided to alert the operator of a *fire* alarm in any *building* on the site, or

c) Where Paragraph 2.2.3 applies, a telephone (or telephone system) that is available within the *building* and readily accessible at all times to enable '111' calls to be made to the Fire Service.

2.1.3 Telephone communication using the '111' call system (given in Paragraph 2.1.2 c)) may be used only where specifically permitted by Acceptable Solutions C/AS1 to C/AS7.

3.0 Domestic smoke alarms

3.1 Scope

3.1.1 Smoke alarms shall be installed in every *household unit* of *risk groups* SH and SM where a Type 4 or Type 7 alarm system is not required by Acceptable Solutions C/AS1 to C/AS7.

3.1.2 The other paragraphs of this Acceptable Solution do not apply to the installation of domestic smoke alarms. Paragraphs 3.1 to 3.4 stand alone and only detail the requirements for domestic smoke alarms within *household units*.

3.2 Type 1 – Domestic Smoke Alarm System

3.2.1 A Type 1 system is based on one or more domestic type smoke alarms with integral alerting devices. Coverage shall be limited to selected parts of a single *firecell*, subject to Paragraphs 3.3 and 3.4.

3.2.2 Smoke alarms shall be manufactured to at least one of: AS 3786, ISO 12239 or BS EN 14604.

3.2.3 The smoke alarms shall be either hard wired or battery powered and are not required to be interconnected. In addition, they shall provide a hush facility, being a button that silences the alarm for a minimum duration of 60 seconds.

Comment:

A hush facility is a button on the smoke alarm which silences the alarm for a limited time after activation. This allows the cause of a nuisance alarm to be cleared without having to remove the battery to silence the smoke alarm.

3.2.4 Smoke alarms shall have an alarm test facility easily reached by the *building* occupants. This facility may be located on the smoke alarms.

3.3 Location of smoke alarms

3.3.1 Smoke alarms shall be located as follows:

- a) In multi-storey units, there shall be at least one smoke alarm on each level within the *household unit*.
- b) On levels containing the sleeping spaces, the smoke alarms shall be located either:
 - i) In every sleeping space, or
 - ii) Within 3.0 m of every sleeping space door. In this case, the smoke alarms must be audible to sleeping occupants on the other side of the closed doors.
- c) In all cases, so that the sound pressure level complies with that specified in NZS 4514.

Comment:

Smoke alarms also need to be located so that an alarm is given before the *escape route* from any bedroom becomes blocked by smoke. This includes those parts of *escape routes* on other floors. Although not required by this Acceptable Solution, the interconnection of individual smoke alarms should be considered if audibility is a problem.

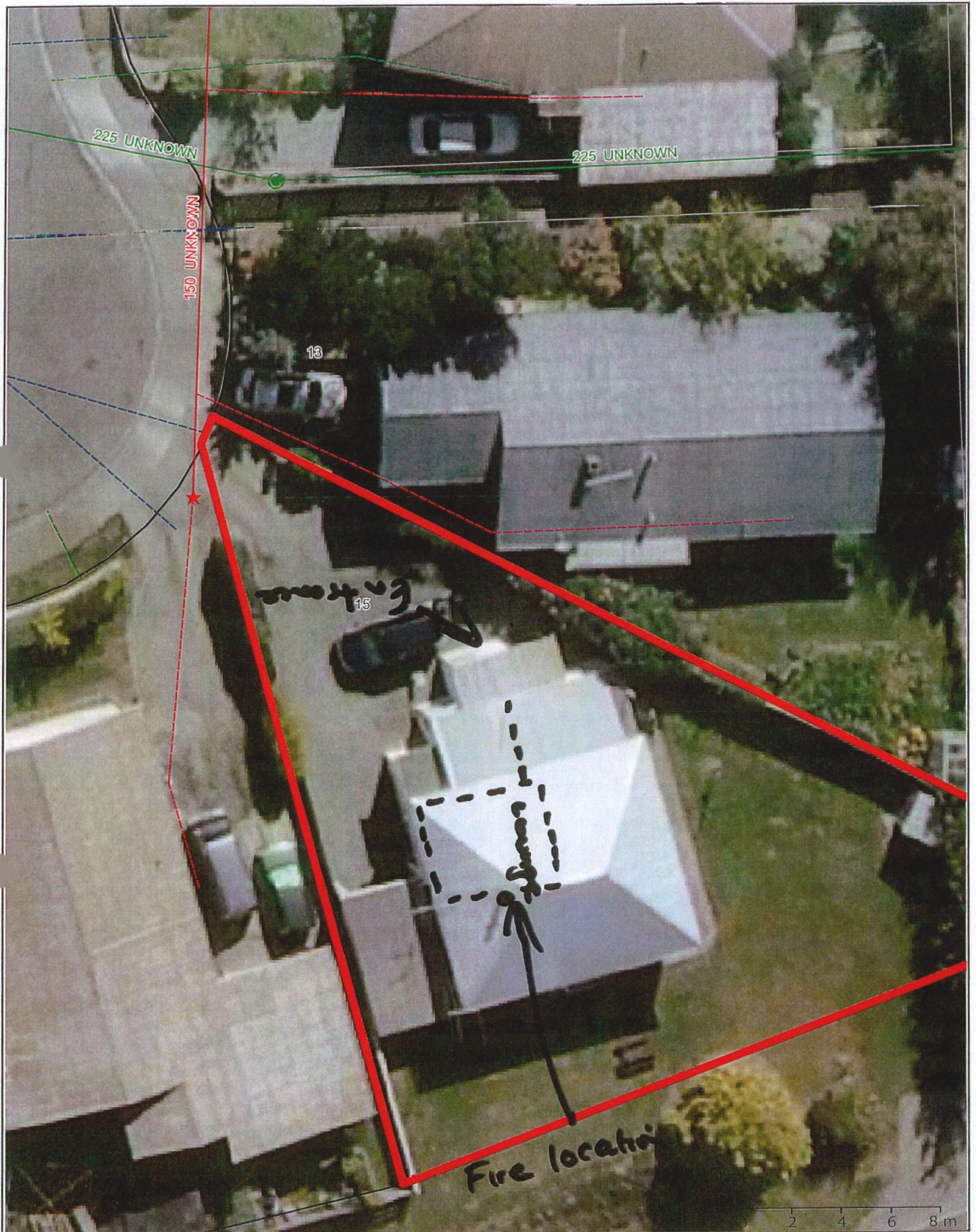
3.3.2 Smoke alarms shall be installed on or near the ceiling. The placement shall be in accordance with NZS 4514.

Comment:

NZS 4514 gives instructions for the physical location of smoke alarms. Smoke alarms need to be situated on (or near) the ceiling for optimum detection of smoke in a *fire* situation. Following manufacturer's instructions is important to ensure smoke alarms are physically mounted correctly. This information is usually device specific.

3.4 Maintenance

3.4.1 Smoke alarms shall be maintained in accordance with the maintenance requirements of NZS 4514.



15 Cambridge Terrace

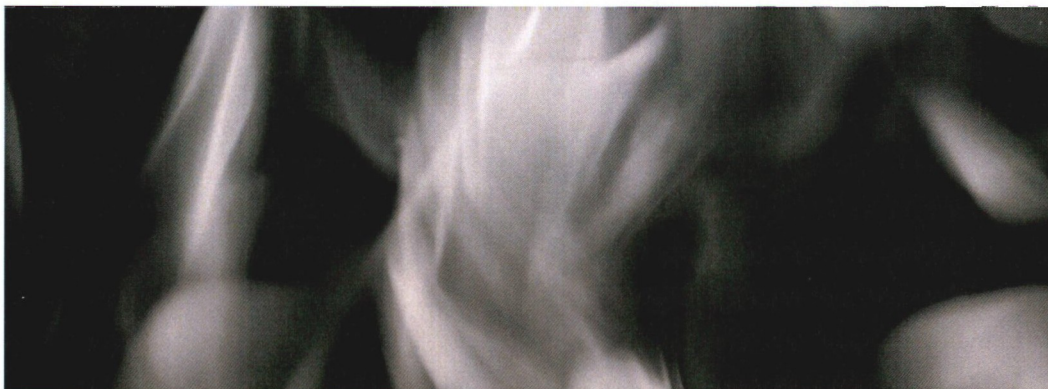
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 Print Date: 22/06/2018
 Print Time: 2:02 PM
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 Projection: NZGD2000 / New Zealand
 Transverse Mercator 2000
 Original Sheet Size A4



GO RURAL
 DISTRICT COUNCIL
RE CITY LIVING

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Wood Fire Installation & Owner's Operation Manual



metrofires

Freestanding Wood Fires

Important information.....	2	Optional wetbacks.....	9
Assembling your Metro fire.....	2	Getting to know your Metro fire.....	10
Floor protector	4	Operating your Metro fire.....	10
Flue installation.....	5	Cleaning and maintenance	11
Wetback installation	6	Troubleshooting	12
Clearances and specifications	7	Metro Fires warranty	13
Important operation information	8	Replacement parts	14-15
Where to install a Metro fire in your home.....	9	Heating accessories.....	16

⚠ 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 shall be installed in accordance with AS/NZS2918 and the appropriate requirements of the relevant building code or codes
- Any modification of the appliance that has not been approved in writing by the testing authority is considered to be in breach of the approval granted for compliance with AS/NZS4013 and will void the warranty
- The appliance must be installed correctly. We recommend a competent and suitably qualified NZHHA installer

⚠ 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
- Do not install a Metro fire if there is any sign of visible damage to the product
- This appliance must be regularly maintained.
- Use authorised Metro replacement parts only. The use of unauthorised parts may void the warranty
- This manual MUST be left with the home owner

All Metro wood fires comply with AS/NZS2918:2001 when installed in accordance with this manual. Please ensure you are fully conversant with the relevant standard and the contents of this manual. Correct installation is critical to the safe operation and performance of this wood fire.

Please take particular note of the following:

- It is recommended that Metro fires be installed with a Metro ECO flue system which has been developed to enhance the performance of Metro wood fires. Any alternative flue system must have a minimum flue pipe length of 4.2 metres of 150mm diameter flue pipe & have been tested to AS/NZS2918:2001
- The 150mm active flue pipe must be fully encased from the ceiling to the underside of the flashing cone at the top of the flue system, (i.e. there must not be any 150mm flue pipe exposed)
- All flue pipe joints must be sealed and riveted. The bottom of the flue pipe in particular MUST be fully sealed into the flue outlet of the Metro fire
- In New Zealand, the Metro fire must be bolted through the floor protector into the floor to comply with the seismic restraint provisions of AS/NZS2918:2001
- All Metro's are extremely heavy, varying in weight from 75kgs up to 185kgs. During the installation process do not lift the appliance by yourself, and take care not to damage the panel coating
- Please take care when lifting the Metro fire into place onto the hearth or floor protector as point loading may break tiles and/or scratch surfaces.

Assembling your Metro wood fire

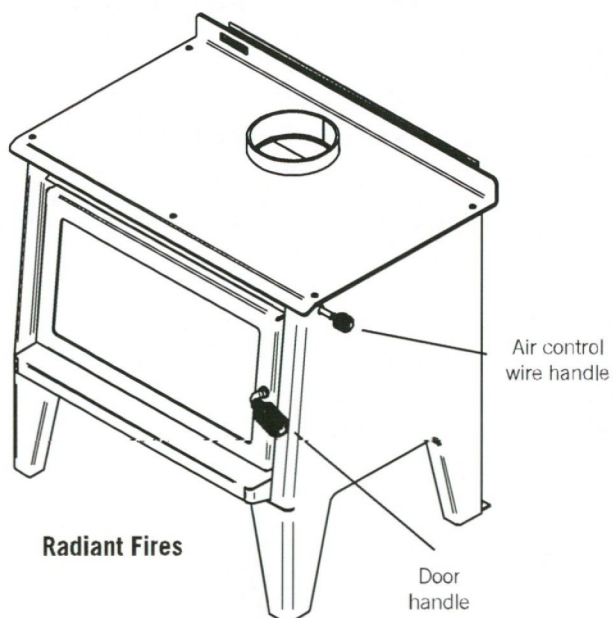
Please note: You should only assemble this wood fire if you are suitably experienced in wood fire assembly and installation. The Metro carton shows the model Metro you are about to install, enabling you to select the appropriate model's assembly instructions.

All Metro wood fires are packed in a single heavy-duty carton, and tek screwed to a wooden pallet. Having removed the packaging and located this manual, familiarise yourself with the illustrations on pages 2 & 3, and proceed as follows.

Metro radiant fires

These Metro's are supplied virtually fully assembled. Packed inside the firebox you will find bricks in a cardboard wrapper, a wire door handle and the air control wire handle.

- Remove the two tek screws located at the base of each rear leg which secure the Metro to the wooden pallet, and carefully 'walk' the Metro off the pallet
- Open the door fully and fit the side bricks to each side of the firebox. Location lugs are fitted to the base and rear wall of the firebox to retain the side bricks in position. Refer to Diagram 2
- Attach the door handle to the door latch assembly by screwing it on clockwise
- Attach the air control wire handle by screwing it on clockwise.



Assembling your Metro wood fire

Please note: You should only assemble this wood fire if you are suitably experienced in wood fire assembly and installation.

Metro pedestal and base model fires

To eliminate freight damage, the pedestal base has been packaged inside the firebox. To safely assemble your Metro, please proceed as follows:

- Lift off the top grill (convection models only) and place somewhere safe. Be careful not to chip the enamel coating or damage paint
- Open the door 45 degrees and lift the door off the hinge and place somewhere safe. Be careful not to damage the finish
- Remove the pedestal packed in a cardboard wrap
- Remove, rotate and re-fix the mount plate to the pedestal.

Note: The pedestal mount plate is fixed to the back of the pedestal base with 4x screws. This mounting plate must be removed, rotated and re-fixed to the pedestal as detailed on page 4 in diagrams 3 and 3A. The return fold must face back the opposite way to create the mount plate and fixing points for seismic restraint of the wood fire.

- Remove the pedestal heat shield

Note: For some models the pedestal heat shield may be taped to the rear heat shield. The ECO Tiny Ped's pedestal heat shield is pre-fitted.

- Remove the side bricks, door handle and the bolt bag
- Remove the 2 tek screws at the base of the inside of the firebox that fix the wood fire to the pallet.

It is recommended that 2 people work together with the next step:

- Grab the underneath top of the firebox door opening with one hand, holding the flue spigot with the other, slowly lift the front of the wood fire all the way back and rest the wood fire on its rear heat shield on the floor. Remove the packaging pallet.
- Fit the pedestal heat shield over the 4 bolts as shown in Diagram 1, with the open edge facing the front of the Metro (up)
- Position the pedestal with its front facing over the 4 bolts and fit the washers and nuts supplied, check to ensure the pedestal is correctly aligned and securely tighten the nuts.

It is recommended that 2 people work together with the next step:

- Grab the flue spigot with one hand and the other hand underneath the top of the firebox door opening, lift upwards standing the wood fire onto its pedestal
- Fit the side bricks to each side of the fire box. Location lugs are fitted to the base and rear wall of the firebox to retain the side bricks in position. Refer to Diagram 2. (Classic Rad also features two side rear bricks).
- Re-fit the door and top grill (Convection models only)

All Metro models

Check to ensure the top baffle is in its correct position in the top chamber of the firebox. It should be resting on four support lugs (two on each side of the firebox). The baffle must be hard back against the rear of the firebox with the "promet extension" (white board) or return front steel edge of the baffle facing forward as illustrated in Diagram 2.

Note: Some models feature a two-piece top baffle.

Diagram 1

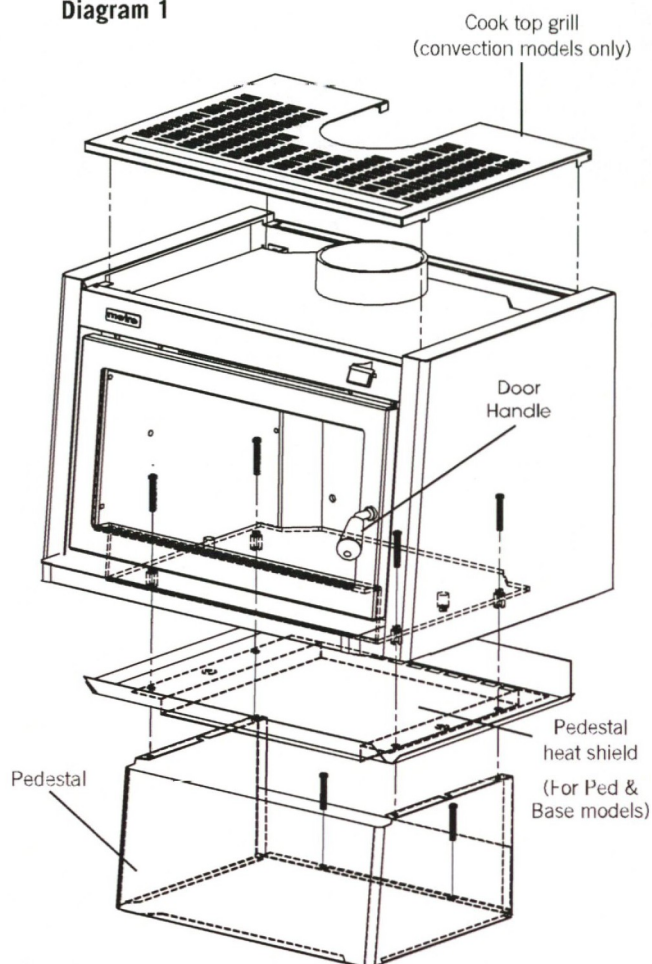
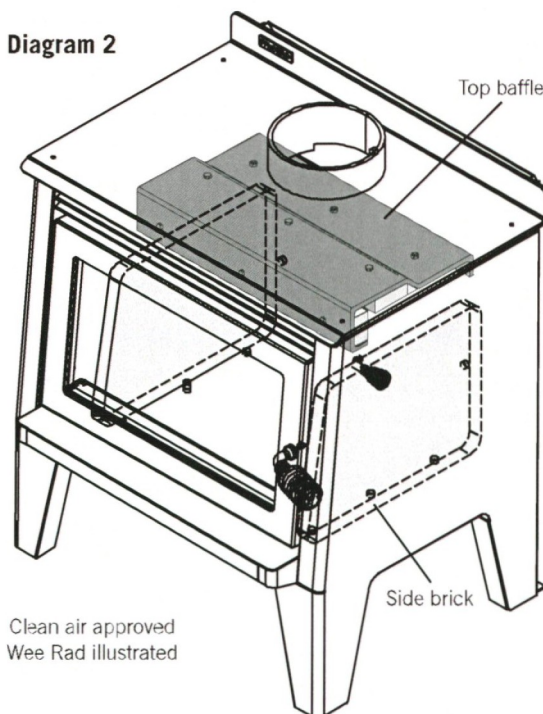


Diagram 2



Floor protector size, construction and fitting

Pioneer manufacture an extensive range of Pioneer 'Ash Floor Protectors' which comply with the minimum floor protector requirements of AS/NZS2918:2001, and can be installed with any freestanding Metro wood fire. Metro freestanding wood fires do not require an insulated floor protector as they comply with the minimum floor protector requirements of AS/NZS2918:2001. These minimum floor protector requirements are;

- They must be of adequate size to give appropriate wall, rear and front clearances/projections as detailed below and in the chart illustrated on page 7. Note;
- The floor protector must extend 200mm horizontally to the rear and each side directly below the door opening, and 300mm forward of the door opening
- The upper surface of the floor protector must be made of non-combustible material.

A suitable floor protector for a Metro freestanding wood fire is therefore any non-combustible material which could include;

- Ceramic tiles with grouted joints fixed directly to a hard base over timber flooring
- A sheet of toughened glass, panel steel etc. laid directly onto a wooden or other combustible floor.

Metro radiant fires

Lift the Metro fire onto the floor protector and using a suitable measuring device, ensure that the minimum wall clearances and front floor protector projections as detailed in the chart on page 7 are met or exceeded. Once the Metro's location on the floor protector is established and if the installation is within New Zealand, seismic restraint is required.

Using masonry anchors if the floor protector is on a concrete floor or coach bolts if a wooden floor, secure through the holes provided at the base, behind both rear legs.

Note: The anchors must pass through the floor protector and securely anchor the Metro to the floor.

Metro pedestal and base model fires

Prior to lifting the Metro fire onto the floor protector, ensure you have removed, rotated and re-assembled the mount plate from the back of the pedestal base as detailed in diagrams 3 & 3A above. This rear panel must be rotated with the return fold facing back the opposite way to create the mount plate and fixing points for seismic restraint of the wood fire.

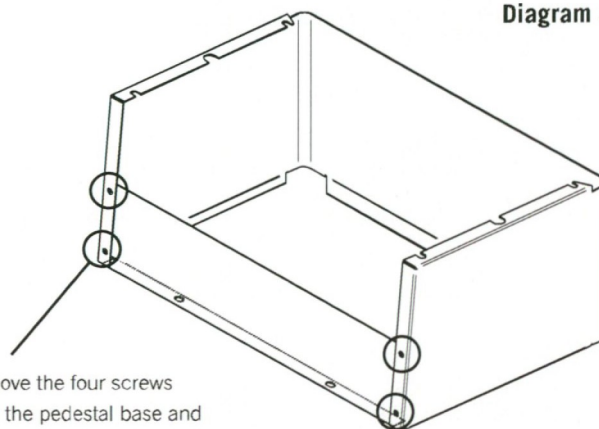
Lift the Metro fire onto the floor protector and using a suitable measuring device, ensure that the minimum wall clearances and front floor protector projections as detailed in the chart on page 7 are met or exceeded.

Once the location of the fire is established, you can then secure the Metro through the floor protector into the floor using the two seismic restraint holes in the rear edge of the mount plate. Use masonry anchors if the floor protector is on a concrete floor or coach bolts if a wooden floor

Note: The anchors must pass through the floor protector and securely anchor the Metro to the floor.

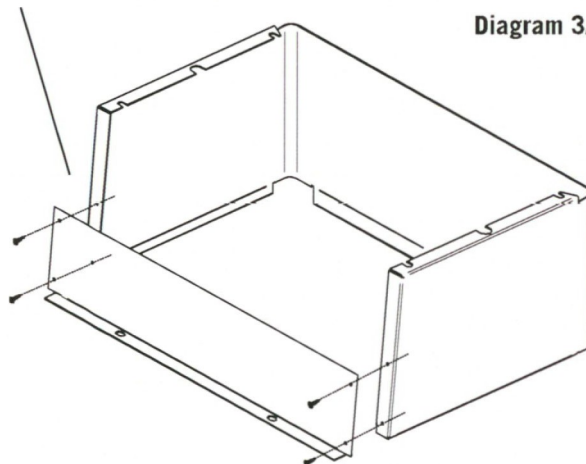
Preparing the mount plate

Diagram 3

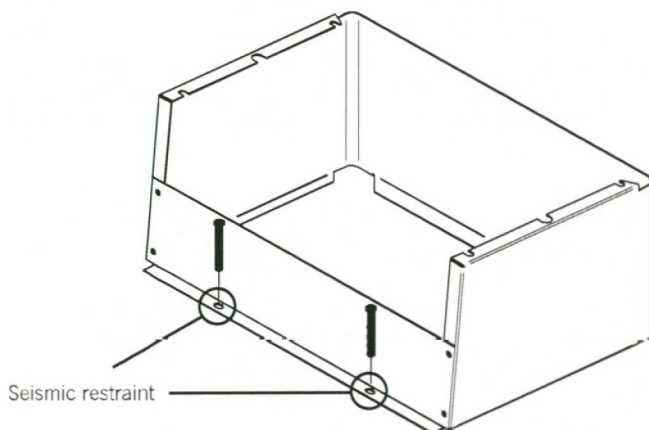


Remove the four screws from the pedestal base and rotate the mount plate so the return fold faces back the other way. Refix in place.

Diagram 3A



Correct mount plate position



Flue installation

It is recommended that all Metro freestanding wood fires be installed with the energy efficient ECO Flue System which comes complete with a detailed installation manual. This installation manual must be presented with your application to gain consent with your local council.

A copy of the ECO Flue System installation manual can be downloaded from metrofires.co.nz, or a copy can be obtained from your Metro retailer. Any alternative flue system must comply with and be installed as detailed in AS/NZS2918:2001, and a copy of the installation manual must also be presented with your application to gain consent with your local council.

All Metro fires require a 150mm diameter flue. Please note:

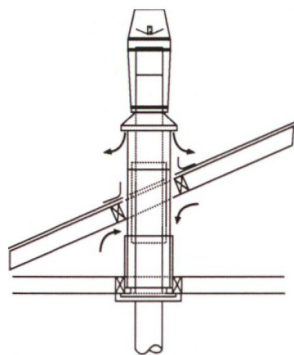
- Metro ECO flue systems must be installed to allow unrestricted air supply from either the ceiling cavity for an ECO Flue Kit, or above the roof line if the ECO Flue Kit and ECO Option Kits are both installed
- The ECO Flue system must be installed into a 'vented' flat ceiling cavity, or have an ECO Option Kit added to the flue system to provide an external air supply

- ECO Flue systems shall be installed in accordance with AS/NZS2918:2001 and the appropriate requirements of the relevant building codes
- Any modification to this flue system that has not been approved in writing by the testing authority is considered to be in breach of all approvals granted
- The flue systems 150mm diameter flue pipe must terminate a minimum of 4.6 metres above the top surface of the floor protector
- All joints in the flue pipe must be sealed with Pioneer fire cement (or similar) and riveted. The base of the flue pipe must also be sealed into the Metro fires flue outlet. This is critical for optimum operation.

All Metro fires have been tested with a Pioneer double flue shield. For the Metro fire to be installed with minimal clearances as the clearance table on page 7 states, only the Pioneer double flue shield can be used. All other flue shields will invalidate the installation.

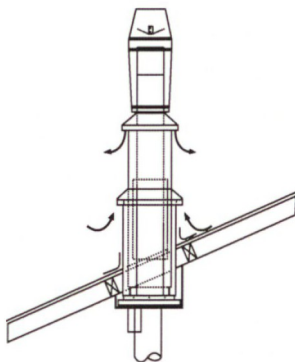
Detailed below are the more common installation methods for installing Metro ECO Flue Systems. To ensure a safe and efficient installation, this flue system must be installed as detailed below by either a registered installer, or someone competent in installing solid fuel appliances.

Single Storey Installations



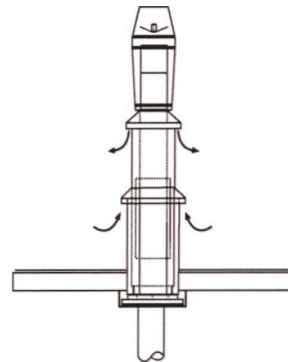
Flat Cavity Ceiling

ECO Flue Kit only required as air is drawn into the flue system direct from the ceiling cavity.



Sloping Ceiling

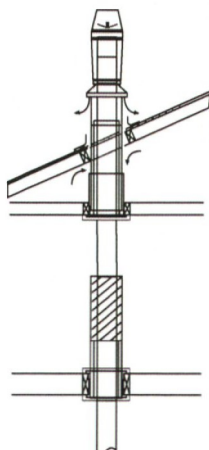
Both the ECO Flue Kit and ECO Option Kit are required to enable air to be drawn from outside the home.



Flat Ceiling/Roof

Requires both ECO Flue Kit and ECO Option Kit as per sloping ceiling unless a vented ceiling cavity exists.

Two Storey Installations



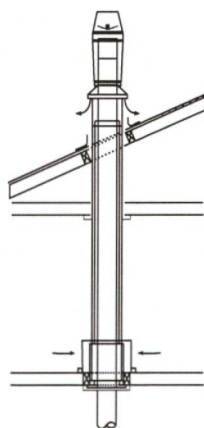
2nd Floor - Exposed Flue pipe

Requires an ECO Flue Kit only with additional lengths of flue pipe.

Additional components below are not supplied by Metrofires but are also required for this installation*

- A floor penetration kit
- 1x 1200mm long mesh/screen

*In accordance with AS/NZS2918:2001



2nd Floor - Enclosed Flue pipe

Requires an ECO Flue Kit only with additional lengths of flue pipe.

Additional components below are not supplied by Metrofires but are also required for this installation*

- 200mm & 250mm inner/outer combination liners.
- 2nd floor vent cover and an additional ceiling plate with a 250mm diameter hole

*In accordance with AS/NZS2918:2001

Wetback installation

WARNING! Important Information

- DO NOT connect to an unvented hot water system
- Install in accordance with AS 3500.4.1 or NZS 4603 and the appropriate requirements of the relevant building code or codes.

CAUTION! Important Information

- Wetbacks must be connected with water before operating the fire and available to the wetback while the fire is in operation
- Wetback systems are not suitable for use in locations where the water supply has lime content. Lime build up inside the coil will eventually block the coil causing the wetback to fail
- Rainwater collection tanks installed lower than the wetback that use a water pump to supply the home, can cause problems if the pump is not operational. In these situations either the type of wetback or a roof header tank should be considered

Wetback	Suitable for models:
2kW Wetback 	• ECO Tiny Rad • ECO Tiny Ped
Side Wetback 	• Tiny Rad Woody • Wee Rad Leg & Wee Rad Base • Wee Rad Woody • Wee Ped • Classic Rad
3kW Wetback 	• Xtreme Rad Leg & Xtreme Rad Base • Xtreme Rad Woody • Xtreme Ped • Mega Rad • All LTD rural models
4kW Wetback 	• All LTD rural models

The R1, R2 and Wee Rad V2 Base models cannot be fitted with a wetback.

Water heating is another key feature of your Metro wood fire; nearly all Metro models can be fitted with a wetback, which are designed to give maximum output with minimal effect on the operation of the fire. Only the Pioneer cast jacket wetback system should be fitted to your Metro; alternative wetbacks will void the Metro's emission approvals and may seriously affect the performance of the appliance and void its warranty.

Wetback connections are as follows, taken facing the Metro/wall; the return pipe connection is directly above the inlet connection. Heights for all models are illustrated and detailed opposite on page 7.

- ECO Tiny Ped and ECO Tiny Rad models are 92mm left of the flue centre
- The Tiny Rad Woody model is 184mm left of the flue centre
- Wee Series models are 226mm left of the flue centre
- The Classic Rad model is 184mm left of the flue centre
- All other models are 140mm left of the flue centre

All wetbacks are fitted to the inside rear wall of the firebox, with the exception of the Tiny Rad Woody, clean air Wee Series models and the Classic Rad model. Side wetback position for these models is to the outside left hand firebox wall. Please see the specific installation instructions in the 'Side Wetback' box for installation of a wetback into these appliances.

It is recommended the return pipe has a minimum rise of 1 in 12; performance will reduce as the distance to the storage cylinder increases.

To fit the wetback proceed as follows

1. Remove the rear panel of the Metro by removing the four pozi drive screws. Remove the two pre-punched knockouts from this panel.
 2. Two further knockouts will be visible on the inner rear heatshield, remove these also. Once these are removed 6mm nuts will be visible through the knockout holes.
 3. Open the Metro's door and locate two bolts securing the pressed washers which are visible on the left hand side of the firebox for both inlet and outlet connection points.
 4. A further three bolt heads will also be visible on the inside rear wall of the firebox; these are threaded into the 6mm thick firebox. Remove all three.
 5. Using the tube of sealant supplied with the wetback, apply a liberal bead of sealant around both the two connection pipes and also the outer circumference of the wetback which will face and press against the inside rear wall of the firebox. This will completely seal the wetback to the inside rear wall of the fire on installation.
- Ensure there is no gap between pipe and rear wall access holes. This cement must fully cure before appliance use.
6. Fit the wetback into the firebox and carefully pass the connection pipes through the holes in the rear of the firebox. Securely attach the wetback using the three bolts previously removed from the rear face of the firebox, fitting them through the slots provided in the wetback's jacket.
 7. The wetback is now ready for connection to the storage cylinder by a registered plumber.

Metro clearances and specifications (Minimum clearances shown are in mm, with a Pioneer double flue shield fitted)

Minimum clearances

All Metro wood fires comply with AS/NZS2918:2001. Minimum clearances shown below are detailed in millimetres, with a Pioneer double flue shield fitted to the appliance. Measurements are taken from the following reference points as illustrated:

- From the nearest combustible wall or surface (A, B, D, E, G, H)
- From the Metro's flue centre (A, B, C, D)
- From the Metro's cabinet/heatshield outermost point (E, F, G, H)
- To the edge of the ash floor protectors non-combustible surface (C, F, I, J, K, L, M)

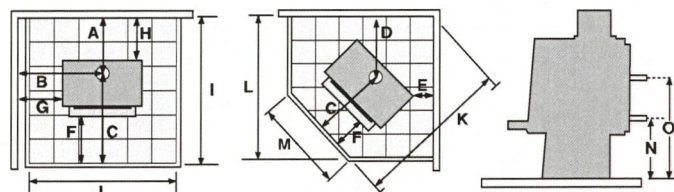
AS/NZS2918:2001 allows for a reduction in minimum clearances as detailed in Section 3, tables 3.1 and 3.2 of the standard.

Some Metro models have undergone additional testing which allows for reduced clearances. Please see the footnotes below the clearance table for the applicable models.

Wetback connections (taken facing the Metro/wall)

- ECO Tiny Ped and ECO Tiny Rad models are 92mm left of the flue centre
- The Tiny Rad Woody model is 184mm left of the flue centre
- Wee Series models are 226mm left of the flue centre
- The Classic Rad model is 184mm left of the flue centre
- All other models are 140mm left of the flue centre

Specifications were correct at the time of printing, but may alter and those detailed within should be used only as a guide. If in doubt, please consult your Metro retailer or metrofires.co.nz.



	Minimum installation clearances with a Pioneer double flueshield fitted (mm)													Wetback		Dimensions		
Clean air models	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Width	Depth	Height
ECO Tiny Ped	210	430	580	290	25	230	185	60	790	650	990	875	250	280	470	490	500	665
ECO Tiny Rad	225	552	580	420	150	230	300	75	805	650	1165	925	250	280	470	505	500	665
Tiny Rad Woody	251	568	580	382	110	230	310	100	831	650	1120	880	250	365	555	515	498	758
R1	243	774	586	554	280	244	530	100	829	825	1370	1118	425	N/A	N/A	488	485	668
R2	246	858	626	582	275	235	570	100	872	905	1449	1203	505	N/A	N/A	575	537	690
Wee Rad - Leg ¹	251	568	580	455	150	230	260	100	831	825	1224	1015	425	295	485	615	501	688
Wee Rad - Base	271	678	580	489	180	230	370	120	851	825	1270	1049	425	295	485	615	501	691
Wee Rad - Woody	271	708	580	509	200	230	400	120	851	825	1285	1069	425	365	555	615	501	758
Wee Rad V2 - Base	318	768	580	586	250	230	460	150	898	825	1408	1146	425	N/A	N/A	615	518	691
Wee Ped ²	263	651	580	490	170	230	350	110	843	825	1274	1050	425	295	485	602	503	665
Classic Rad ³	257	695	780	500	220	229	430	100	1037	728	1487	1168	328	393	583	530	707	680
Xtreme Ped	251	624	630	441	110	227	280	100	881	907	1254	1065	507	312	502	688	554	721
Xtreme Rad - Leg	251	650	630	458	100	227	280	100	881	907	1277	1077	507	312	502	740	554	743
Xtreme Rad - Base	251	650	630	458	100	227	280	100	881	907	1277	1077	507	312	502	740	554	743
Xtreme Rad - Woody	251	680	630	478	120	227	310	100	881	907	1292	1097	507	382	572	740	554	813
Mega Rad	285	720	728	497	100	224	300	130	1013	1006	1431	1227	606	300	490	840	659	744
LTD rural models	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Width	Depth	Height
LTD Wee Rad - Leg	251	548	580	425	120	230	240	100	831	825	1180	985	425	295	485	615	501	688
LTD Wee Rad - Base	251	658	580	489	180	230	350	100	831	825	1270	1049	425	300	490	615	501	691
LTD Wee Rad - Woody	271	708	580	509	200	230	400	120	851	825	1285	1069	425	360	550	615	501	758
LTD Xtreme Rad - Leg	251	650	630	458	100	227	280	100	881	907	1277	1081	507	350	540	740	554	743
LTD Xtreme Rad - Base	251	650	630	458	100	227	280	100	881	907	1277	1081	507	350	540	740	554	743
LTD Xtreme Rad - Woody	251	680	630	478	120	227	310	100	881	907	1292	1097	507	420	610	740	554	813
LTD Mega Rad	285	720	728	497	100	224	300	130	1013	1006	1431	1227	606	300	490	840	659	744

The Wee Rad installed with a Pioneer double flue shield with the Wee Rad corner wing shields fitted allows for reduced clearances as follows:

¹ Wee Rad - Leg corner clearance (E) can be reduced to 120mm. This in turn also reduces clearances (D) to 425mm, (K) to 1180mm and (L) to 985mm. When fitting the corner wing shields, the Wee Rad - Leg itself must be installed to a corner clearance (E) of 120mm. The corner wing shields are then fitted which gives a wall to shield corner clearance of 100mm.

The following models installed with a Pioneer double flue shield with the side extensions fitted allows for reduced clearances as follows:

² Wee Ped corner clearance (E) can be reduced to 115mm. This in turn also reduces clearances (D) to 436mm, (K) to 1197mm and (L) to 996mm.

³ Classic Rad corner clearance (E) can be reduced to 180mm. This in turn also reduces clearances (D) to 460mm, (K) to 1430mm and (L) to 1127mm.

WARNING! Important Information

- **WE HIGHLY RECOMMEND YOU READ THIS ENTIRE MANUAL AS INCORRECT OPERATION, MISUSE AND/OR LACK OF MAINTENANCE WILL VOID THE WARRANTY**
- Any modification of the appliance that has not been approved in writing by the testing authority is considered as breaching AS/NZS 4013 and will void the warranty
- Do not use flammable liquids or aerosols in the vicinity of this appliance when it is operating
- Never operate your Metro with the top grill removed
- Do not dry clothes on or near this appliance
- Do not use flammable liquids or aerosols to start or rekindle the fire OR store fuel within the Metro's specified installation clearances
- Never operate your Metro with the door ajar, except on initial start up
- Open the air control fully before opening the Metro's door.

CAUTION! Important Information

- This appliance should be maintained & operated at all times in accordance with this instruction manual
- This appliance should not be operated with cracked door glass, over worn, faulty or missing door seals
- 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
- Burning unseasoned (wet) fuel or incorrect operation on extended low burn cycles will cause excessive creosote to form. Creosote is very corrosive and excessive buildups will result in the flue pipe, flue spigot and upper burn chamber failing. Failure of the appliance and/or flue system due to creosote damage is not covered under warranty. The formation of such is not an appliance issue it is a fuel and operational issue
- This appliance must be regularly maintained and replacement parts must be authorised Metro parts only
- Do not empty ash into a combustible container.

Congratulations on the purchase of your Metro wood fire

This slow combustion appliance is designed to give you many years of warmth and service, subject to the following key factors. These key factors, if not adhered to are the major causes of unsafe installation, poor performance and flue blockages and potential product failure.

1. Your Metro wood fire must be installed correctly. Metro recommend a competent and suitably qualified NZHHA installer.
2. 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
3. The appliance shall be operated at all times in accordance with the "Installation and Operating Instructions" supplied with each appliance.
4. It is preferable that Metro wood fires should be installed with a Metro ECO Flue System.
5. Coal must not be used as a fuel.

Please also note the following important points:

- In New Zealand a building consent is required from your local building authority. The homeowner is responsible for obtaining this consent
- As correct installation is critical to the performance and safe operation of your Metro, it is recommended your Metro be installed by a NZHHA registered installer or a person suitably qualified in the installation of wood fires. Your Metro retailer will be able to arrange professional installation for you
- During the very first fire your Metro will give off an odour and fumes as the firebox paint cures. Do not be alarmed; open all windows and externally opening doors in that room and close any internally opening doors. This curing process will last for approximately one hour and is likely to happen this one time

- Properly seasoned (dry) timber is necessary for the Metro to operate efficiently; firewood that contains a high moisture content will result in flue pipe blockages, reduce 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 air circulation. Unseasoned wood stored in a closed woodshed without air circulation will still be unseasoned 12 months later.

- It is critical that the fire not be operated with over worn, faulty or missing door seals. Door seals will harden over time and become over-worn (3-4 year's) this will cause air to leak into the fire, causing the appliance to 'over fire'
- It is critical that the fire not be operated with over worn, faulty or missing bricks, baffle plate, promet extension (white board on the baffle plate)
- It is critical that the fire not be operated with cracked or broken door glass.

Please note, the above 3 points require regular inspection/maintenance (every time the ash bed is cleaned out, generally 3-5 times a season) and if not maintained will void the firebox warranty. A glowing firebox or lower fluepipe is just one sign you are over firing your appliance. Please ensure you keep your proof of purchase/receipt on any parts you purchase.

- 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
- A small hot fire loaded frequently is more efficient than a large fire burning on a low setting
- Your Metro is covered by a full unconditional 12 month warranty on replacement parts, and a 10 year firebox warranty.

Where to install a Metro wood fire in your home

Wood fires are usually installed in the main living area, which is the section of the home that is usually kept the warmest, being the area in the home most frequently occupied. However, before deciding on the best location for your Metro wood fire you may wish to consider:

- Water heating. If you are intending to have a wetback it is important that the wood fire is as close as practically possible to the water storage cylinder
- Split level homes are best heated when the wood fire is installed on the lower level, as the heated air will rise to the higher levels
- Building construction is another consideration. Specified clearances from walls, curtains etc must be maintained and you need to ensure no structural beams or internal gutters etc are directly above your preferred site. If you have a two storey dwelling you need to consider the second storey to ensure you don't have the flue directly outside a second storey window.

Generally, you can install your Metro in your home anywhere that suits you; Pioneer offer various fan systems to transfer heat to other sections of the home that are not heated sufficiently. It is necessary if using a fan system that the Metro you have purchased has sufficient output to heat the total area you wish to heat. Your Metro retailer or installer will be able to advise if you are uncertain.

Optional wetbacks

Water heating is another key feature of your Metro wood fire; nearly all Metro models can be fitted with a wetback, which are designed to give maximum output with minimal effect on the operation of the fire. Only the Pioneer cast jacket wetback system should be fitted to your Metro; alternative wetbacks will void the Metro's emission approvals and may seriously affect the performance of the appliance and void its warranty.

Other considerations are:

- Distance from your Metro to the storage cylinder will affect the amount of hot water produced
- Your climate & the manner in which you will 'fire' your Metro will determine the amount of hot water produced.

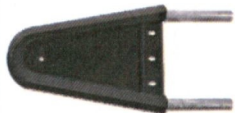
Note: Wetbacks are not suitable for use in locations where the water supply has lime content. Lime build up inside the coil will eventually block the coil causing the wetback to fail.

Cost Savings

Wetbacks can enable substantial power savings, dependent on the climate in the area in which you live. If you live in a cold climate you are likely to use your Metro for many months of the year, in which case a Pioneer wetback will reduce or even eliminate your water heating costs over those months. If however you live in a warmer climate and use your Metro for only a few hours a day over the colder months, electricity savings will be considerably less.

Water Pressure

A common misconception is that you must have a low-pressure system to have a wetback; this is not true. You must have a 'vented' system and high-pressure cylinders are usually not vented. However you can install an 'indirect' cylinder which contains a secondary coil inside the storage cylinder, enabling you to have a wetback while retaining a high-pressure system.

Wetback	Suitable for models:
2kW Wetback 	• ECO Tiny Rad • ECO Tiny Ped
Side Wetback 	• Tiny Rad Woody • Wee Rad Leg & Wee Rad Base • Wee Rad Woody • Wee Ped • Classic Rad
3kW Wetback 	• Xtreme Rad Leg & Xtreme Rad Base • Xtreme Rad Woody • Xtreme Ped • Mega Rad • All LTD rural models
4kW Wetback 	• All LTD rural models

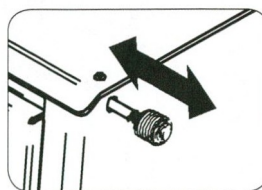
The R1, R2 and Wee Rad V2 Base models cannot be fitted with a wetback.

Getting to know your Metro wood fire

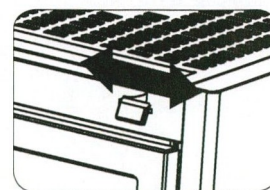
Operating your Metro fire is simple and you will quickly learn how to get the best from it. First take a minute to familiarise yourself with your new Metro.

- Raise the door handle anti-clockwise until the latch releases, and then slowly pull the door open. You will note that if you let the door go before it is at 90° to the appliance, it will fall closed. This is a safety feature that ensures the door cannot fall open if it is not latched securely. For the door to remain open, you must open it fully
- There is a single air control making your Metro fire easy to adjust. This control moves from left to right, which is 'low to high'.

All Metro radiant fires have a wire air control handle located at the upper right hand side of the appliance. Simply pull out to increase burn rate or push in to reduce burn rate.



Radiant fires air control



All other fires air control

All other Metro fires have an air control knob located on the upper front panel of the appliance.

Slide this control knob gently from right to left until you reach a stop. This is a pre-set 'low' position. Your Metro fire must not be operated at a lower burn rate than this pre-set low allows.

Operating your Metro wood fire

If your Metro has only been installed within the past few days, the fire cement seal at the base of the flue will not be fully cured. To ensure the cement sets without blistering it is recommended you burn 2-3 sheets of loosely crumpled newspaper at a time, approximately once every hour over a 6-8 hour period.

During the very first fire your Metro will give off an odour and fumes as the firebox paint cures. Do not be alarmed. Open all windows and externally opening doors in that room and close any internally opening doors. This curing process will last for approximately one hour and is likely to happen this one time.

Start up

Place a quantity of loosely crumpled newspaper on the base of the firebox until it is approximately half full of paper, or place firelighters on the base of the firebox. Add dry kindling and move the air control knob fully to the right, being the 'full open' position.

Light the paper at two or three locations across the front of the door opening and leave the door slightly ajar resting on the latch pin if necessary for a few minutes while the fire establishes. Once the kindling is burning well, open the door and add 2-3 small logs at a time until you have a well-established fire. Usually this will take approximately 30 minutes, during which time the air control should be set on "high" and the door should be closed, except for the initial few minutes and when fuel is being added.

Normal operation

Once the fire is well established, regulate the air control to achieve the desired burn rate and heat output. As you move the air control to the right, burn rate, firebox temperature and heat output will increase, if you move the control to the left they will decrease. Please note:

- Always open the air control fully prior to opening the door, then open the door slowly. Every time you refuel, leave the air control on 'high' for a minimum of 20-25 minutes
- 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
- Never use the door to force wood into the firebox, as this is likely to break the glass.

Extended burning (rural models only)

It is most important if your Metro is to be refuelled and turned down for an extended period, such as an overnight burn that you operate it correctly:

- The wood used as fuel for extended burning **MUST BE FULLY SEASONED (DRY)**. Once the fuel is loaded, the appliance must be operated on high for a period of at least 20 minutes to drive out residual moisture from the fuel (dry wood is usually 20% water content) and ensure surface area combustion.
- Do not turn the air control down lower than you need to, if you want the Metro to burn overnight, endeavour to obtain an 8 hour burn time, not 12 hours. It will take a few burns to find the correct location of your Metro's air control setting to achieve the length of burn cycle you desire as this setting is affected by several variables including fuel density, flue length and outside wind velocity.
- A smouldering fire over a long time frame is likely to deposit corrosive elements into your system which could be detrimental to your Metro.

CAUTION! Important Information

- If not operated correctly on extended burn cycles, your Metro is likely to incur flue blockages, corrosion of the upper baffle, lower flue pipe and firebox flue spigot. As these are not covered under warranty if they fail through improper use, it is important you operate your Metro correctly.

Cooking

All Metro's are designed to enable cooking of soups, stews and casseroles etc, and your Metro will easily boil a flat bottom stainless steel kettle. The Radiant Series have a dedicated cooking top enabling large pots to be placed on the cook top, while all other models have a lift-off grill.

Note: Metro's supplied with a lift-off top grill have this feature to enable the grill to be removed for cleaning if you have a spill. The lift-off top grill must be left on when cooking, because if removed the wall temperatures next to the appliance may become excessive and the top of the firebox is generally too hot to cook on directly.

Cleaning and maintenance for your Metro wood fire

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

The Metro radiant fires are painted wood fires and coated with 'Pioneer Metallic Black' high temperature paint and will require periodic repainting to keep them looking their best.

All other Metro fires are coated with vitreous enamel. Vitreous enamel is extremely durable and designed to last the life of the appliance. As vitreous enamel is glass, a solid or heavy object dropped or banged against a panel could chip the enamel surface.

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

Door glass

Providing your fuel is properly seasoned, under normal operating conditions the air-wash design of the Metro's firebox will keep the door glass clear. If the glass requires cleaning you may use either a razor blade scraper or crumpled wetted newspaper dipped in wood ash rubbed over the glass.

If your door glass breaks it must be replaced with 5mm thick ceramic glass which is available from your local Metro retailer.

Door seals

Over time, usually 3-4 years, the door and glass seals will become hard and cause air to leak into the firebox, causing the appliance to 'over fire'. Your Metro retailer stocks replacement woven fibreglass door and glass seals, which need replacing when they become hard and over worn.

The door of your Metro is easily removed. Hold it in both hands and lift the hinge end of the door up and over the top hinge pin, then lower the door from the bottom hinge pin.

Side bricks

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

Door adjustment

Provision is available on both sides of the door for adjustment.

To adjust the hinge end of the door, open the door fully, loosen the top hinge nut and slightly lift the latch end of the door; you will see the hinge assembly move back 1-2mm which will usually be sufficient. Retighten, then repeat by loosening the lower hinge nut, this time applying a slight downwards pressure onto the door to move the lower hinge assembly back a similar distance, then retighten.

The door latch is also adjustable, as the latch pin on the right side of the firebox is fitted through a slot which enables the latch pin to be loosened, moved back and re-tightened.

Ash removal

Over a period of time ash will build up in the base of the Metro's firebox and require removal. The time this build-up takes depends on the density and cleanliness of your fuel.

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

- Open the door, and 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.
- You must leave a bed of ash in the base of the firebox approximately 10mm deep; this insulates the base of the firebox and improves combustion.

Top baffle

This is a 'sacrificial' wear part of the firebox and should be checked monthly. Usually only the promet (white board) front/underneath section needs to be replaced when it starts to disintegrate.

Note: Cracks in the promet are not uncommon and have no adverse effect on the operation of your Metro. These cracks are the result of intense heat coupled with expansion and contraction. Burning wood which is not properly seasoned, i.e. 25% moisture content or more, will over time cause the promet to disintegrate and require replacement.

Flue systems

Should be checked annually, particularly the bottom end of the lower flue section at its rear lock formed joint. If deterioration is noticed contact your Metro retailer or installer.

The flue pipe should also be swept a minimum of once a year, or as required during the winter season. If smoke enters the room when you open the Metro's door this usually indicates the flue pipe is becoming restricted and needs cleaning. 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.

To clean the flue pipe of your Metro, proceed as follows:-

- Open the Metro's door fully, reach inside with the palm of your hand face-up and extended, lift the top baffle approximately 20mm, then lift it forward out through the door opening, placing it on a sheet of newspaper you have placed on the front of the floor protector. To prevent jamming, removal and replacement of the top baffle is best performed using both hands.

Note: Some appliances have a two piece top baffle.

- Close the door and slide the air control to the left.
- Once on the roof, remove the cowl from the top of flue system and sweep the flue pipe using a 150mm-diameter flue pipe brush as detailed in the instructions provided with the fluebrush.
- Once the flue pipe is clear, clean and refit the cowl. Remove the excess soot which has fallen into the firebox, leaving a layer of ash 10mm deep on the base of the firebox, then refit the top baffle.

Note: The baffle must be fitted so its rear is touching the back of the firebox; if uncertain refer to page 3 in the installation section at the front of this manual, which shows illustrations of the baffle location.

Troubleshooting your Metro wood fire

If your Metro is installed correctly, your fuel is dry and you operate your fire correctly, you will find it to be a pleasure to use. Metro's many years of experience within the wood heating industry has shown that dissatisfaction is mainly due to:

- unseasoned fuel
- faulty installation
- operational error
- or a combination of the above 3 points.

Correct operation

Modern day wood fires need to be operated hard and fast, more so than low and lazy to ensure the firebox and flue pipe runs hot and efficiently. If the fire and flue pipe is up to temperature it will perform extremely well, the smoke will draw up the flue pipe with ease, and the fire will produce good amounts of heat.

If the fire is operated on low a lot of the time, the door glass will run black, the flue pipe will tend to block up more frequently and the fire will end up smoking into the room when reloading. It's better to have a small fire running hard and fast, rather than a big fire running low and lazy.

The following may be of assistance if you are experiencing any problems with the operation of your Metro Fire.

Smoke enters the room when the Metro's door is ajar

(possible reasons and solutions)

Check flue pipe joins

If the flue pipe joins are not sealed correctly, the flue pipe will not draw as well as it should. The flue pipe join connecting into the flue spigot on top of the Metro is most critical, if this is not sealed correctly, smoke will enter the room when the door is ajar. To check this join is sealed correctly, run a match or lighter flame around the join. If the flame is sucked into the spigot then it is not sealed correctly. This check needs to be done when the fire is not going. Ensure you check the rear of the flue pipe/spigot join, as due to the seam in the flue pipe, this is the most common area for not being sealed correctly.

Ensure the fuel you are using is correctly seasoned

If you are burning unseasoned fuel (wet), the fire will cause nothing but problems. The Metro won't deliver much heat, it will be lazy, smoke will enter the room when the door is ajar, and the door glass will run black. Unseasoned fuel is the main contributor to excessive creosote deposits which can be corrosive to your appliance and flue system.

Flue pipe length is too short

Add more flue pipe as the longer the flue system, the better the draw of the flue pipe. Please note, if you did not purchase the Metro ECO Flue System, you will not have the ECO Cowl which increases draw. We highly recommend the Metro ECO Cowl is fitted as this will increase the draw. If you already have an ECO Cowl and smoke is still entering the room, please add another 600mm length of flue pipe.

Downdraft/Turbulence blockage

If you have checked all of the previous factors and the fire is still smoking into the room, it's possible there may be a down draft issue. Down draft is environmental and can be caused by many variables, and it is purely trial and error to ascertain the cause.

Air turbulence and/or negative air pressure influences around the flue termination can be caused by too close or overhanging trees or natural/artificial ridges etc. Address these where possible or look to extend the flue above the roofline.

Other options may be:

- 'H' Cowl, designed purely for downdraft issues, but if you have an ECO Cowl fitted as standard, you will also need to add another 600mm of flue pipe to compensate as the H Cowl is shorter in length
- Directional Cowl, designed for high wind areas.

Air control setting

Ensure the air control setting is on high before opening the door to reload, as this increases the draw up the flue pipe. Open the door slowly.

If your Metro did not smoke, but its starting too and is getting worse:

The flue pipe is in need of a clean. It is recommended that the flue pipe be cleaned every season, however if you are burning the fire on low a lot, or are using unseasoned fuel, flue pipe cleans will be required more frequently.

Other issues you may experience

I can smell smoke in the room after a low burn cycle

The smell is creosote that will be seeping through the flue pipe join or out of the flue spigot onto an external surface, thus creating the smell in your room. The cause will be either unseasoned fuel, fuel mass too large, incorrect operation on low burn cycles or a combination. Creosote is very corrosive and excessive buildups will result in the flue pipe and potentially the flue spigot and upper burn chamber failing. The formation of excessive creosote is not an appliance issue, it is a fuel and operational issue. Failure of flue pipe or firebox due to creosote build up is not covered under warranty as excessive creosote build up is only possible from either unseasoned fuel or incorrect operation.

The Metro is noisy as it heats up and cools down

There will always be some expansion and contraction noise as the Metro heats and cools. This can usually be reduced by loosening three nuts at the rear of the appliance. To remedy, locate the 25mm deep cavity at the rear of your Metro between the 'rear panel' and the 'inner rear heat shield'. You will see a 6mm nut and two 6mm bolt heads in this cavity. Using a 10mm ring or open ended spanner, loosen all three so they are finger tight only.

On all Metro freestanding fires the air channel that allows the combustion air to enter the fire is fitted to the top underneath of the door opening. It is fitted with two M6 bolts. Slightly loosen both of these bolts.

The Metro won't turn down as much as it did

The door itself may need readjusting, the hinge and latch is slotted and allows for movement. Loosening the hinge and moving it back a few mm will make the door seal tighter and stop air leaking into the fire. The door and glass seals may be in need of replacing, which is generally required every 3-4 years.

Familiarise yourself with the instructions on page 10 before proceeding with this maintenance.

Warranty details for your Metro wood fire

Metro wood fires are manufactured in New Zealand, using the highest quality of materials, workmanship and the latest manufacturing techniques, which is why we offer a full 10 year firebox warranty and a 1 year parts warranty for your peace of mind.

Metro Warranty

(NZ Consumer laws apply to this warranty)

Pioneer Manufacturing Limited (Pioneer) warrants the 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 10 years.

Components including panel coating, door retainers, door seals, glass, trim, baffle & bricks are warranted for a period of 1 year from the date of original purchase for normal domestic use against defective materials and workmanship.

All associated accessories including, but not limited to, fans, flue systems, flue shields, wetbacks, tool sets, ash pots etc, are covered by a 1 year warranty against defective materials and workmanship.

It is recommended, but not a condition of this warranty, that a full service/inspection of the Metro fire be carried out at the end of each winter season.

Warranty Conditions

- The Metro fire must be installed, operated and maintained strictly in accordance with the building code and this installation and operation manual
- The Metro fire must be installed and used in a domestic 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
- Your Metro fire must be regularly maintained and we recommended 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 Metro wood fire has been neglected, by not being regularly maintained and serviced, warranty may be declined

CAUTION! Important Information

Note: The following 3 points require regular inspection/maintenance (every time the ash bed is cleaned out, generally 3-5 times a season) and if not maintained will void the firebox warranty. Please ensure you keep your proof of purchase/receipt on any parts you buy.

- It is critical the fire not be operated with over worn, faulty or missing door seals. Door seals will harden over time and become over-worn (3-4 year's) and will cause air to leak into the fire, causing the appliance to 'over fire'. Do not operate the fire with cracked, or broken door glass
- It is critical the fire not be operated with over worn, faulty or missing bricks, baffle plate or baffle extension (white board on or under the baffle plate)
- A claim under this warranty should be directed to the retailer who supplied the Metro fire. If this is not possible write directly to the manufacturer stating details of fault, model, serial number of your Metro, 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 (i.e. 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 – This will result in distortion of the firebox)
- Defects 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.

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.

IMPORTANT! Complete and retain these details at time of purchase:

Purchase Date

Serial Number

Model

Colour

Retailer



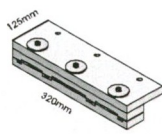
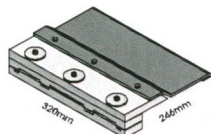
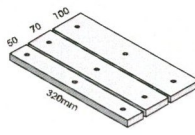
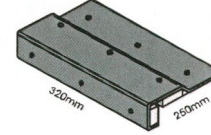
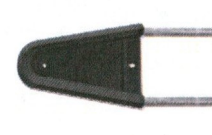
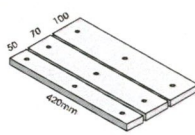
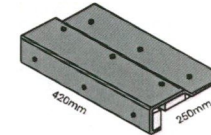
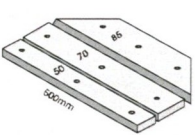
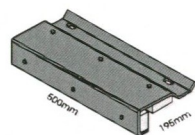
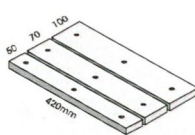
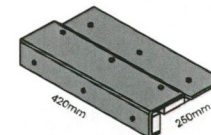
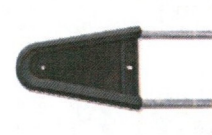
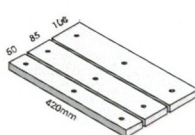
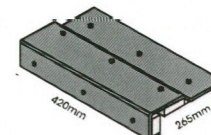
Parts guide for your Metro – Promet, baffles and wetback options

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

Listed below are the parts and product codes for your Metro wood fire. The promet/baffle should be regularly checked and must always be in place during the operation of your fire.

The baffle should be resting on four support lugs (two on each side of the firebox). It must be hard back against the rear of the firebox with the 'promet extension' (white board) or return front steel edge of the baffle facing forward.

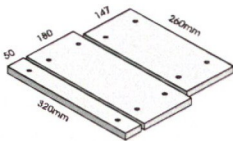
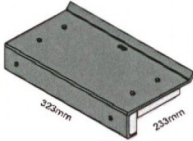
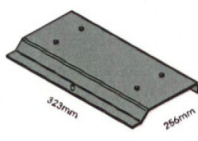
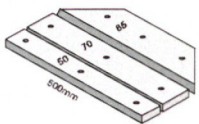
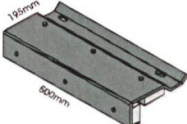
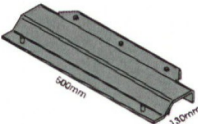
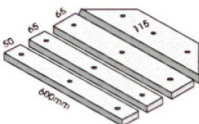
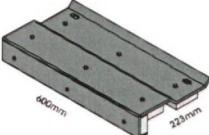
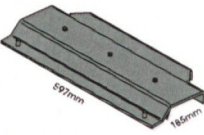
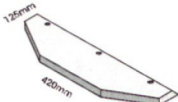
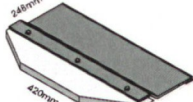
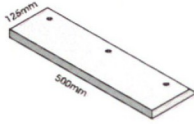
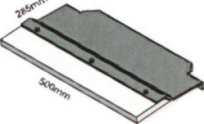
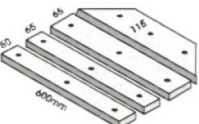
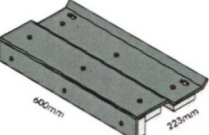
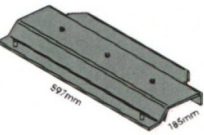
Model	Type of promet required / Type of steel baffle(s) required			Wetback options
- ECO Tiny Ped - ECO Tiny Rad	ECO Tiny Promet 500-1550 	ECO Tiny Baffle 500-2050 	ECO 2kW Booster 450-0050 	
Tiny Rad Woody	Tiny Woody Promet Set 500-2004 	Tiny Woody Baffle 500-2504 	Side Wetback 450-0275 	
R1	Wee/R1 Promet Set 500-2005 	Wee/R1 Baffle 500-2505 	No wetback can be fitted to this appliance	
R2	Xtreme/R2 Promet Set 500-2010 	Xtreme/R2 Front Baffle 500-2510 	Xtreme/R2 Rear Baffle 500-2515 	No wetback can be fitted to this appliance
- Wee Rad Base - Wee Rad Leg - Wee Rad Woody - Wee Ped	Wee/R1 Promet Set 500-2005 	Wee/R1 Baffle 500-2505 	Side Wetback 450-0275 	
Wee Rad V2 Base	Wee V2 Promet Set 500-2006 	Wee V2 Baffle 500-2506 	No wetback can be fitted to this appliance	

Parts guide for your Metro – Promet, baffles and wetback options

Hairline cracks in the promet extension are not uncommon and will have no adverse effect on the operation and performance of your Metro wood fire. These cracks are the result of intense heat coupled with expansion and contraction and is normal wear and tear.

If the promet extension starts to break up and pieces fall into the firebox it must be replaced.

Note: Impact damage when loading wood and burning wood which is not properly seasoned, i.e. 25% moisture content or more, will cause the promet to disintegrate and require replacement. Always burn dry well seasoned wood and take care when loading wood into the firebox.

Model	Type of promet required / Type of steel baffle(s) required			Wetback options
• Classic Rad	Classic Rad Promet Set 500-2015 	Classic Rad Front Baffle 500-2520 	Classic Rad Rear Baffle 500-2525 	Side Wetback 450-0275 
• Xtreme Rad Base • Xtreme Rad Leg • Xtreme Rad Woody • Xtreme Ped	Xtreme/R2 Promet Set 500-2010 	Xtreme/R2 Front Baffle 500-2510 	Xtreme/R2 Rear Baffle 500-2515 	3kW Wetback 450-0100 
• Mega Rad	Mega Rad Promet Set 500-2020 	Mega Rad Front Baffle 500-2530 	Mega Rad Rear Baffle 500-2535 	3kW Wetback 450-0100 
• LTD Wee Rad Base • LTD Wee Rad Leg • LTD Wee Rad Woody		LTD Small Promet 500-1700 	LTD Small Baffle 500-2600 	3kW Wetback 450-0100 or 4kW Wetback 450-0150 
• LTD Xtreme Rad Base • LTD Xtreme Rad Leg • LTD Xtreme Rad Woody		LTD Large Promet 500-1850 	LTD Large Baffle 500-2650 	3kW Wetback 450-0100 or 4kW Wetback 450-0150 
• LTD Mega Rad	Mega Rad Promet Set 500-2020 	Mega Rad Front Baffle 500-2530 	Mega Rad Rear Baffle 500-2535 	3kW Wetback 450-0100 or 4kW Wetback 450-0150 

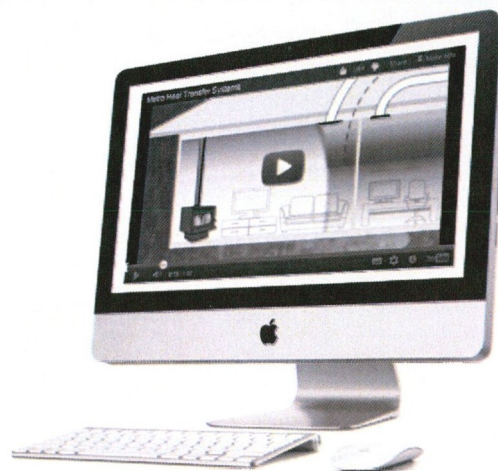
Metro - Visit us online today www.metrofires.co.nz

Metro wood fire specifications

Metro have a Specifications Brochure available which details relevant compliance data for every model. This brochure is updated annually and details the minimum clearances and specifications for all models, which is generally required when applying for a building consent. See your Metro retailer to obtain a copy, or visit www.metrofires.co.nz

metrofires.co.nz

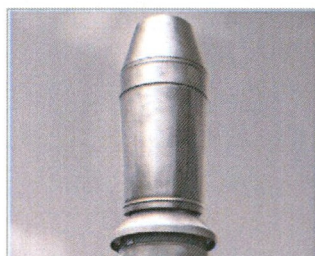
Visit the Metro website: metrofires.co.nz to view Metro's 'video demos' showing the latest in wood fire technology energy saving options. You can view the entire Metro product range, find out where your nearest Metro retailer is located or simply check out the latest specifications, installation requirements and emission and efficiency data for the Metro of your choice.



Pioneer heating accessories

Pioneer/Metro Fires offer a range of heating accessories designed to compliment your Metro wood fire. See below for some of the products within our heating accessory range. The range of accessories includes floor

protectors, heat transfer systems, child guards, baffles, bricks and more. For further details ask your Metro retailer for a copy of the Pioneer/Metro Fires heating accessories brochure, or visit www.metrofires.co.nz



Eco Flue Systems



Flashrites and Versatiles



Wetbacks



High Temperature Paint



Child Guards



Heat Transfer Systems



Universal Door Seal Kits



Fire Cement And Silicone



Corner and Wall Floor Protectors



Glass Tape

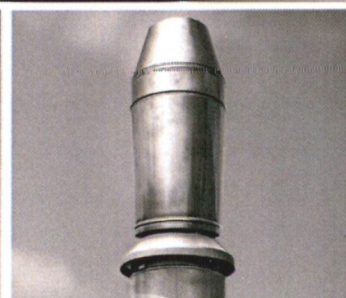
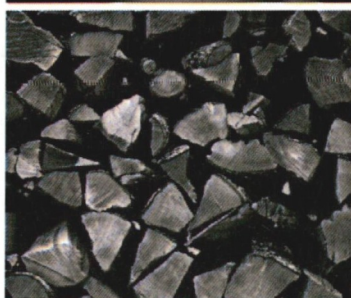
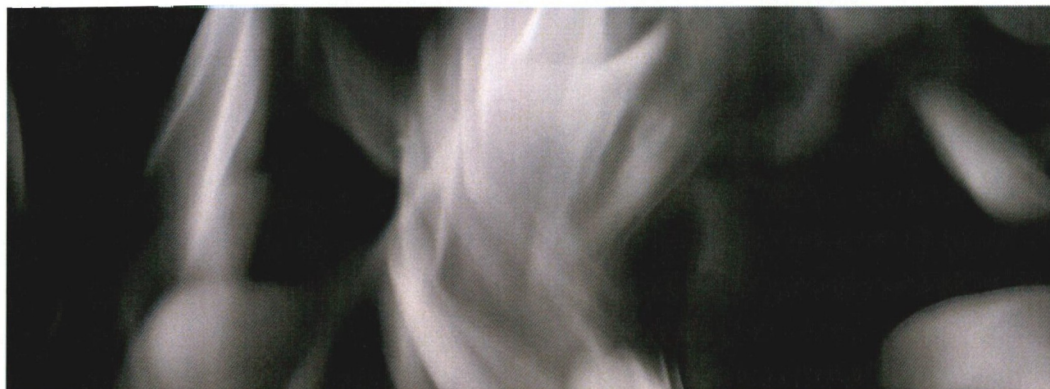


Door Seal Rope



Chubb Smoke Detectors

ECO Flue System Installation Manual



metrofires

ECO Flue Systems

Freestanding Flue Systems

ECO Flue System Installation Options	2
ECO Flue Kit / ECO Option Kit	3
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ECO Option Kit Installation.....	5-6

Insert Flue Systems

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ECO Flue System Minimum Heights	8

⚠ **WARNING!** Important Information

- Metro ECO Flue Systems must be installed to allow unrestricted air supply from either the ceiling cavity for an ECO Flue Kit, or above the roof line if the ECO Flue & ECO Option Kits are both installed. Please read these instructions and familiarise yourself with the installation options and various components of the ECO Flue Systems
- The ECO Flue Kit must be installed into a 'vented' flat ceiling cavity, or have an ECO Option Kit added to the flue system to provide an external air supply
- The ECO Flue Systems shall be installed in accordance with AS/NZS2918:2001 and the appropriate requirements of the relevant building codes
- Any modification to this flue system that has not been approved in writing by the testing authority is considered to be in breach of all approvals granted

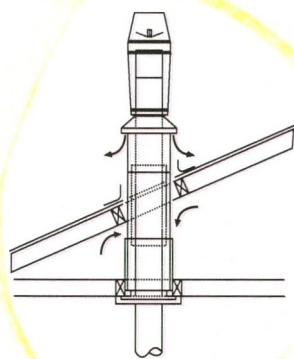
⚠ **CAUTION!** Important Information

- Mixing of 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.
- Prior to installing the assembled flue pipe into a masonry chimney cavity, take careful note to ensure there are no overhead power lines in close proximity.

ECO Flue Systems Installation Options

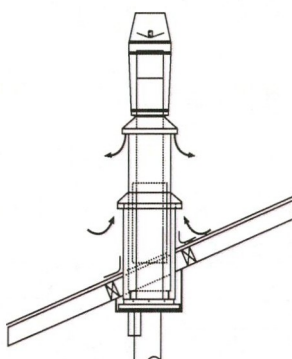
Detailed below are the more common installation methods for installing Metro ECO Flue Systems. To ensure a safe and efficient installation, this flue system must be installed as detailed below by either a registered installer, or someone competent in installing solid fuel appliances.

Single Storey Installations



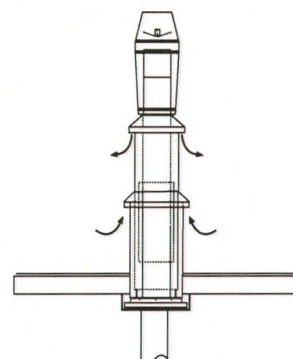
Flat Cavity Ceiling

ECO Flue Kit only required as air is drawn into the flue system direct from the ceiling cavity.



Sloping Ceiling

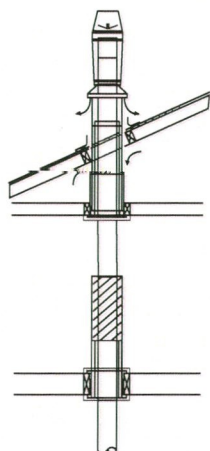
Both the ECO Flue Kit and ECO Option Kit are required to enable air to be drawn from outside the home.



Flat Ceiling/Roof

Requires both ECO Flue Kit and ECO Option Kit as per sloping ceiling unless a vented ceiling cavity exists.

Two Storey Installations



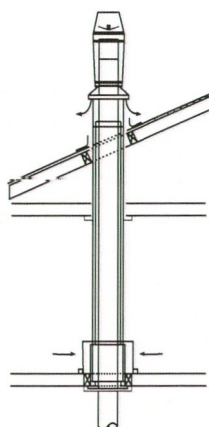
2nd Floor - Exposed Flue pipe

Requires an ECO Flue Kit only with additional lengths of flue pipe.

Additional components below are not supplied by Metrofires but are also required for this installation*

- A floor penetration kit
- 1x 1200mm long mesh/screen

*In accordance with AS/NZS2918:2001



2nd Floor - Enclosed Flue pipe

Requires an ECO Flue Kit only with additional lengths of flue pipe.

Additional components below are not supplied by Metrofires but are also required for this installation*

- 200mm & 250mm inner/outer combination liners.
- 2nd floor vent cover and an additional ceiling plate with a 250mm diameter hole

*In accordance with AS/NZS2918:2001

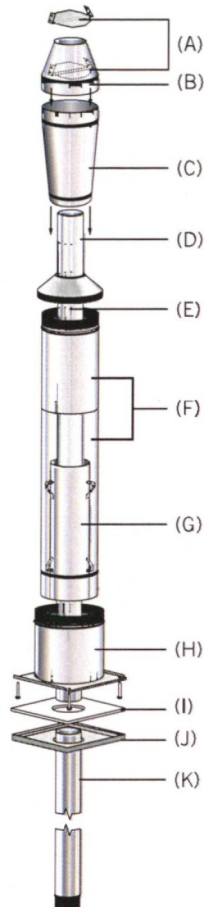
ECO Flue Kit & ECO Option Kit Component Checklist

ECO Flue Kit

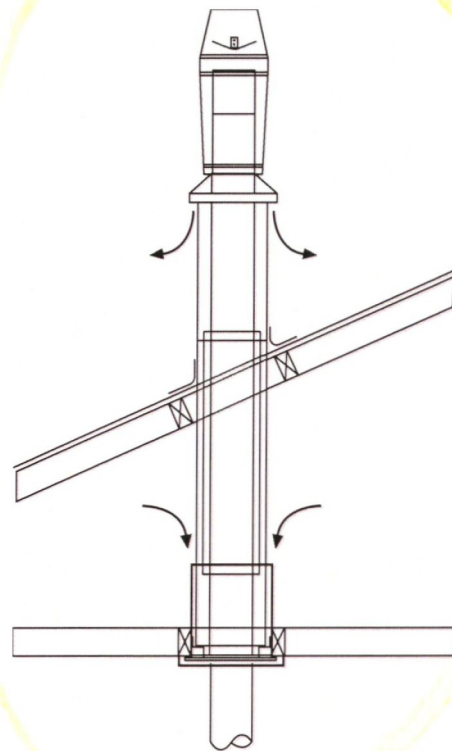
The ECO Flue Kit is designed for installation into a building that has a 'ceiling cavity' with unrestricted air supply as is the case with conventional homes. A vented ceiling cavity is required as the ECO Flue Kit draws its cooling air from within the ceiling cavity.

ECO Flue Kit components

- (A) 1 x Stainless steel weather butterfly
- (B) 1 x Stainless steel ECO Cowl top
- (C) 1 x 420mm x 240mm diameter stainless steel ECO Cowl housing
- (D) 1 x 480mm long stainless steel flue pipe extension with flashing cone
- (E) 1 x 1200mm x 150mm diameter stainless steel flue pipe
- (F) 1 x 1200mm x 250mm diameter galvanised outer casing with 750mm long slip section
- (G) 1 x 800mm x 200mm diameter galvanised inner casing
- (H) 1 x Galvanised mounting plate with brackets and 300mm long x 300mm diameter casing attached
- (I) 1 x insulation gasket
- (J) 1 x black clip-on ceiling plate
- (K) 2 x 1200mm lengths of 150mm diameter stainless steel flue pipe painted metallic black
- (+) 1 x Plastic bag of assembly bolts



ECO Flue Kit assembled

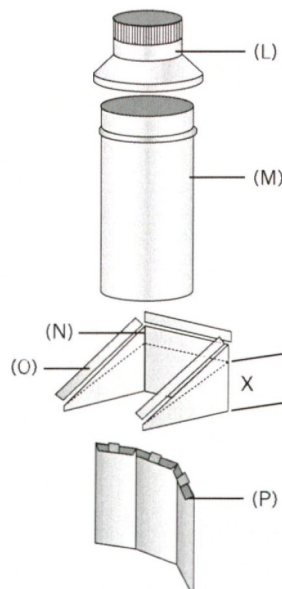


ECO Option Kit

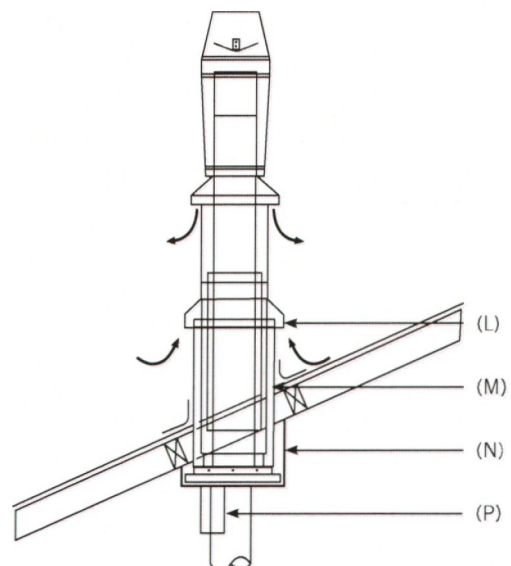
The ECO Option Kit is designed to be 'added to' the ECO Flue Kit for installations that do not have a vented ceiling cavity and require the flue systems cooling air to be drawn in from above the roofline (outside the building).

ECO Option Kit components

- (L) External intake flashing cone
- (M) 1x 780mm x 300mm diameter outer liner extension
- (N) Drop box infill panel
- (O) Drop box edge covers
- (P) Ceiling plate mounted heat shield



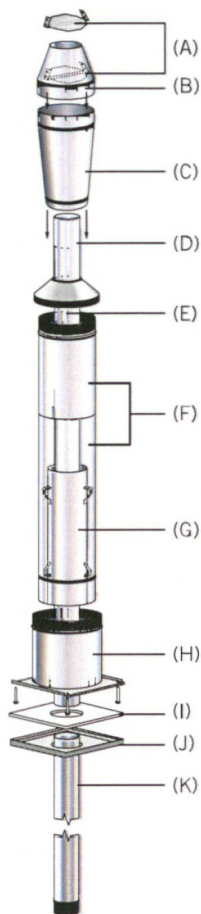
ECO Flue Kit & ECO Option Kit assembled



ECO Flue Kit Installation Instructions

ECO Flue Kit components

- (A) 1 x Stainless steel weather butterfly
- (B) 1 x Stainless steel ECO Cowl top
- (C) 1 x 420mm x 240mm diameter stainless steel ECO Cowl housing
- (D) 1 x 480mm long stainless steel flue pipe extension with flashing cone
- (E) 1 x 1200mm x 150mm diameter stainless steel flue pipe
- (F) 1 x 1200mm x 250mm diameter galvanised outer casing with 750mm long slip section
- (G) 1 x 800mm x 200mm diameter galvanised inner casing
- (H) 1 x Galvanised mounting plate with brackets and 300mm long x 300mm diameter casing attached
- (I) 1 x insulation gasket
- (J) 1 x black clip-on ceiling plate
- (K) 2 x 1200mm lengths of 150mm diameter stainless steel flue pipe painted metallic black
- (L) 1 x Plastic bag of assembly bolts



Having positioned the wood fire in the desired location, check to ensure the wood fire and floor protector have adequate clearances/projections, and that the flue system is clear of ceiling joists, trusses etc. (refer to the Wood Fire Installation and Operation Manual).

Note: ECO Flue Systems use stainless steel brackets enabling movement due to expansion, while centralising flue pipes and casings. These brackets may require resetting after transport, if they are too loose or tight during assembly;

1. At a point directly above the wood fires flue centre, cut a 300mm square hole through the ceiling and a 250mm diameter hole through the outer roof lining providing it is non combustible (iron, tiles etc) otherwise cut a 250mm square hole through the roof lining. 'Trim out' the top face of the ceiling using timber nog's creating a square aperture measuring 300mm internally.

Note: Certain flashing manufacturers detail specific size and shape of the aperture to be cut for their flashing, which must be adhered to.

2. Fit mounting plate (H) into the ceiling by sliding the 300mm diameter casing attached to the mounting plate up into the ceiling until the two upturned edges rest against the under side of the ceiling. Square the mounting plate to the wall and secure it in location with the four coach screws supplied, into the nogs just fitted. To further improve the rigidity of the installation, nail through the 300mm diameter casing at 4 points into the timber nogs.
3. Moving onto the roof with the 1200mm x 250mm diameter galvanised outer casing (F) with 750mm long slip section fitted, lower the slotted end of this casing (F) into the roof cavity until it locates inside the

brackets on the top face of the mounting plate. Return back into the room and using the 3 x 6mm bolts and washers supplied, securely bolt the base of the 250mm diameter outer casing into the rivet nuts pre-fitted into the mounting plate brackets.

Note: As there are three bolts, the outer casing can be rotated to ensure the lock-form seam is sheltered as much as possible from the prevailing weather direction.

4. Return back onto the roof and using a suitable flashing, weather proof the joint where the 250mm diameter outer casing penetrates the roof. Ensure the flashing used is compatible with the roofing material, and if fitting instructions are supplied with the flashing, these must be adhered to. Prior to fitting the flashing, by fitting stays securing the outer casing (F) to the roof material will further improve rigidity of the installation.
5. While on the roof fit the 800mm x 200mm diameter galvanised inner casing (G).

Note: This inner casing has a top and bottom, the bottom end has both internal and external brackets while the top end has external only. Fit the bottom end of this inner casing (G) down into the 250mm diameter outer casing (F) until the casings lower external brackets locate on the internal swadge of the outer casing.

WARNING! Important Information

- If there is timber or combustibles within 25mm of the outer casing (F) in a zone 'above the top end of the inner casing (G) and below the roof line' an additional 200mm inner casing must be fitted.

6. Moving back into the home, remove the plastic film from the ceiling plate (J) and place it black side down over the flue outlet of the wood fire. Using a high temperature black aerosol, spray around the hole in the centre of the white insulation gasket, and when dry lay this centrally on the ceiling plate.
7. Unwrap the two painted flue pipes (K) taking care not to mark the painted surface (use a metallic black Pioneer aerosol for touch ups) and proceed to assemble the three flue pipe sections as described below;
 - Smear an adequate amount of Pioneer fire cement inside the 'top/un-crimped' end of both painted flue pipes (K).
 - Taking the unpainted stainless steel flue pipe (E) insert its top 'un-crimped' end up through the mounting plate (H) and up into the casings until its bottom 'crimped' end is 1250mm above the top of the wood fire.
 - Take one of the two painted stainless steel flue pipes (K) and fit its lower 'crimped' end into the Metro wood fires flue outlet. Now lower the unpainted stainless steel flue (E) which is protruding down from the mounting plate so that it fully connects into the lower painted flue pipe (K). Ensure these two flue pipe sections are firmly connected and aligned, then secure with three stainless steel or monel rivets spaced equally around the joint.
 - Lift the two assembled flue pipe sections so the bottom of the lower section is 1250mm above the top of the wood fire, and repeat the above procedure to fit the remaining painted flue pipe (K).

ECO Flue Kit Installation Instructions - continued

- With all three flue pipe sections securely joined, lift this three section assembly out of the wood fires flue outlet, then move it slightly off centre and lower the flue pipe assembly 'on top' of the wood fires flue outlet. Smear an adequate amount of Pioneer fire cement inside the wood fires flue outlet (move the flue pipe assembly as required to ensure the entire flue outlet is coated in fire cement) then lower the flue pipe back into the wood fires flue outlet, with the vertical flue seam facing the rear.
- 8. Taking the ceiling plate (J) with insulation gasket (I) fitted which are laying on top of the wood fire, with the flue pipe passing through them. Carefully lift them up the flue pipe trying not to mark the painted flue, and clip the ceiling plate onto the mounting plate.
- 9. While still on the ground, assemble the ECO Cowl as follows;
 - Take the stainless steel weather butterfly (A) so the angled sections are facing up.
 - With both arms and angled sections of the stainless steel weather butterfly (A) facing up, fit it into the stainless steel ECO Cowl top (B), and secure in position through the holes provided with stainless steel rivets.

NOTE – Once fitted the weather butterfly will be slightly angled within the cowl housing.

- Fit the ECO Cowl top (B) into the ECO Cowl housing (C). Push both sections together until the swage ring on (B) rests completely on the open end of the cowl housing (C). Drill through the two pre-punched holes in the ECO Cowl housing and secure these two sections together with stainless steel rivets.

The removable section of the ECO Cowl is now fully assembled.

10. Making your way back onto the roof, slide the 750mm long slip section of the outer casing (F) until the top of this slip section is 'level' **(+ or -10mm)** with the top of the 150mm stainless steel flue pipe, then secure this slip section of the outer casing with rivets.
11. Fit the 480mm long flue pipe extension/flushing cone (D), with the flashing cone at the bottom, fit its short flue section inside the top of the already installed 150mm diameter flue pipe. Ensure the three brackets extended below the flashing cone fit 'outside' the outer casing slip section. Drill through the pre-punched hole in all three brackets into the outer casing slip and secure with rivets.
12. Taking the removable section of the ECO Cowl, position it over the top of the stainless steel flue pipe extension, and slide it down fully. This removable section does not require riveting and enables easy removal for future flue cleaning.

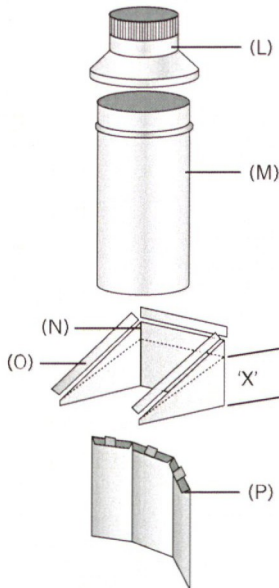
Installation Instructions with the ECO Option Kit

ECO Option Kit

The ECO Option Kit is designed to be 'added to' the ECO Flue Kit for installations that do not have a vented ceiling cavity and require the flue systems cooling air to be drawn in from above the roofline (outside the building).

ECO Option Kit components

- (L) External intake flashing cone
- (M) 1x 780mm x 300mm diameter outer liner extension
- (N) Drop box infill panel
- (O) Drop box edge covers
- (P) Ceiling plate mounted heat shield



Dependent on whether you are installing into a flat roof/ ceiling or sloping ceiling situation as detailed on page 2, will determine if you require all the components of the ECO Option Kit. If installing into a flat ceiling/roof you will not require the drop box or drop box edge covers.

Note: The 300mm diameter outer liner extension (M) supplied with the ECO Option Kit is supplied at the maximum length it has been tested, and must not be extended.

1. Slip the 300mm outer extension liner supplied with the ECO Option Kit over the 300mm outer liner 'stub' attached to the mounting plate (H) supplied with the ECO Flue Kit. Permanently secure these two components together by drilling four evenly spaced holes around the circumference and rivet with stainless steel rivets.
2. At a point directly above the wood fires flue centre, cut a 300mm square hole through the ceiling and a 300mm diameter hole through the outer roof lining providing it is non combustible (iron, tiles etc) otherwise cut a 300mm square hole through the roof lining. 'Trim out' the top face of the ceiling using timber nog's creating a square aperture measuring 300mm internally.

Note: Certain flashing manufacturers detail specific size and shape of the aperture to be cut for their flashing, which must be adhered to.

3. Fit mounting plate (H) into the ceiling by sliding the 300mm diameter casing attached to the mounting plate up into the ceiling until the two upturned edges rest against the under side of the ceiling. Square the mounting plate to the wall and secure it in location with the four coach screws supplied, into the nogs just fitted. To further improve the rigidity of the installation, nail through the 300mm diameter casing at 4 points into the timber nogs.
- **If the ceiling is angled**, it is critical that the mounting plate is correctly positioned so the drop box in-fill panel can be fitted. Ensure the two 'upturned folds' on the mounting plate are aligned parallel to the roof joists, i.e pointing towards the apex.

You will only be able to use two of the securing holes provided in the mounting plate. To give additional support to the installation nail through the 300mm diameter outer liner into the timber framing, access is through the 200mm hole in the base of the mounting plate.

Installation Instructions with ECO Option Kit - continued

4. Moving onto the roof with the 1200mm x 250mm diameter galvanised outer casing (F) with 750mm long slip section fitted, lower the slotted end of this casing (F) into the roof cavity until it locates inside the brackets on the top face of the mounting plate. Return back into the room and using the 3 x 6mm bolts and washers supplied, securely bolt the base of the 250mm diameter outer casing into the rivet nuts pre-fitted into the mounting plate brackets. Return back onto the roof and using a suitable flashing, weather proof the joint where the 300mm diameter outer casing penetrates the roof. Ensure the flashing used is compatible with the roofing material, and if fitting instructions are supplied with the flashing, these must be adhered to.

Prior to fitting the flashing, by fitting brackets securing the outer casing (F) to the roof material will further improve rigidity of the installation.

Note: As there are three bolts, the outer casing can be rotated to ensure the lock-form seam is sheltered as much as possible from the prevailing weather direction.

5. Fit the external 'intake' flashing cone supplied with the Option Kit as illustrated, and secure it to the top of the 300mm diameter extension liner through the 4 x brackets which protrude below the base of the external 'intake' flashing cone.
6. While on the roof fit the 800mm x 200mm diameter galvanised inner casing (G).

Note: This inner casing has a top and bottom, the bottom end has both internal and external brackets while the top end has external only. Fit the bottom end of this inner casing (G) down into the 250mm diameter outer casing (F) until the casings lower external brackets locate on the internal swadge of the outer casing.

WARNING! Important Information

- If there is timber or combustibles within 25mm of the outer casing (F) in a zone 'above the top end of the inner casing (G) and below the roof line' an additional 200mm inner casing must be fitted.

7. Moving back into the home, remove the plastic film from the ceiling plate (J) and place it black side down over the flue outlet of the wood fire. Using a high temperature black aerosol, spray around the hole in the centre of the white insulation gasket, and when dry lay this centrally on the ceiling plate.
8. Unwrap the two painted flue pipes (K) taking care not to mark the painted surface (use a metallic black Pioneer aerosol for touch ups) and proceed to assemble the three flue pipe sections as described below;
 - Smear an adequate amount of Pioneer fire cement inside the 'top/un-crimped' end of both painted flue pipes (K)
 - Taking the unpainted stainless steel flue pipe (E) insert its top 'un-crimped' end up through the mounting plate (H) and up into the casings until its bottom 'crimped' end is 1250mm above the top of the wood fire.
 - Take one of the two painted stainless steel flue pipes (K) and fit its lower 'crimped' end into the Metro wood fires flue outlet. Now lower the unpainted stainless steel flue (E) which is protruding down from

the mounting plate so that it fully connects into the lower painted flue pipe (K). Ensure these two flue pipe sections are firmly connected and aligned, then secure with three stainless steel or monel rivets spaced equally around the joint.

- Lift the two assembled flue pipe sections so the bottom of the lower section is 1250mm above the top of the wood fire, and repeat the above procedure to fit the remaining painted flue pipe (K).
- With all three flue pipe sections securely joined, lift this three section assembly out of the wood fires flue outlet, then move it slightly off centre and lower the flue pipe assembly 'on top' of the wood fires flue outlet. Smear an adequate amount of Pioneer fire cement inside the wood fires flue outlet (move the flue pipe assembly as required to ensure the entire flue outlet is coated in fire cement) then lower the flue pipe back into the wood fires flue outlet, with the vertical flue seam facing the rear.

9. Taking the ceiling plate (J) with insulation gasket (I) fitted which are laying on top of the wood fire, with the flue pipe passing through them. Carefully lift them up the flue pipe trying not to mark the painted flue, and clip the ceiling plate onto the mounting plate.

10. While still on the ground, assemble the ECO Cowl as follows;

- Take the stainless steel weather butterfly (A) so the angled sections are facing up.
- With both arms and angled sections of the stainless steel weather butterfly (A) facing up, fit it into the stainless steel ECO Cowl top (B), and secure in position through the holes provided with stainless steel rivets.

NOTE – Once fitted the weather butterfly will be slightly angled within the cowl housing.

- Fit the ECO Cowl top (B) into the ECO Cowl housing (C). Push both sections together until the swage ring on (B) rests completely on the open end of the cowl housing (C). Drill through the two pre-punched holes in the ECO Cowl housing and secure these two sections together with stainless steel rivets.

The removable section of the ECO Cowl is now fully assembled.

11. Measure dimension 'X' as shown on page 3 and transfer this measurement to the drop box in-fill panel as shown.

- Cut the in-fill panel to the correct size and fit the 3 x edge covers.

Note: The side edge covers will require trimming on the ends to suit the angle of the ceiling.

- Secure the in-fill panel in position by fitting three rivets to each side through the holes provided.

12. Back in the room, lift the ceiling plate then attach the 'ceiling plate mounted heat shield' to the lower face of the ceiling plate so that it acts as a deflector shield between the flue pipe and the lower side of the ceiling (refer assembled diagram on page 3). This heat shield has three tabs on its top face enabling it to be 'clipped' into the 160mm diameter hole in the ceiling plate. Attach the ceiling plate by clipping it onto the mount plate and the installation is now complete.

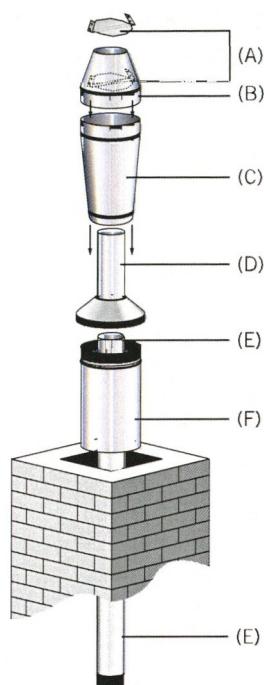
ECO Insert Kit Installation Instructions & Component Checklist

Please read these instructions fully prior to installation of the ECO Insert Kit and familiarise yourself with all the various components illustrated right and listed below.

Note: Rivets, fire cement and chimney cap or flashing plate are not included as they are supplied by the installer.

ECO Insert Kit components

- (A) 1 x Stainless steel weather butterfly
- (B) 1 x Stainless steel ECO Cowl top
- (C) 1 x 420mm x 240mm diameter stainless steel ECO Cowl housing
- (D) 1 x 480mm long stainless steel flue pipe extension with flashing cone
- (E) 3 x 1200mm x 150mm diameter stainless steel flue pipe
- (F) 1 x 600mm x 250mm diameter galvanised outer casing



This flue kit has been manufactured and complies with AS/NZS2918:2001. To ensure a safe and efficient installation, this flue kit must be installed as detailed below by either a registered installer, or someone competent in installing solid fuel appliances.

1. Check the masonry chimney for structural soundness and make any repairs that are necessary.

Note: Most councils require the masonry chimney to be inspected prior to installation. The masonry chimney cavity must also be swept prior to installation.

2. Once the fireplace insert has been installed correctly as per the manufacturers instructions, look directly down the chimney to ensure the wood fire flue spigot is in line with the masonry chimney. (A torch will be required).
3. If you cannot see the flue spigot, a flue pipe offset will be required. If so, install the flue pipe offset so the top of it can be clearly seen from the top of the masonry chimney.
4. If an offset is required, an adjustable telescopic type is recommended. Measure the amount of offset required and adjust the telescopic offset to suit, after smearing an adequate amount of Pioneer fire cement onto the slip section of the offset to ensure a good seal, then rivet the offset in three locations around its circumference. (If the offset is used in its fully compressed form, it will be necessary to modify the end of the female slip section otherwise it will restrict the internal diameter) Apply a liberal amount of Pioneer fire cement into the flue outlet of the fireplace insert, and fit the lower crimped end of the offset into position inside the flue outlet, and bolt into position.

Note: In some installations where it is not possible to fit offsets or rigid flue pipe due to the shape of the masonry chimney cavity, 'Flexi flue' may be used.

5. Secure the flue pipes together and ensure the flue seams are in line. Flue pipe joints must be fully compressed with a considerable amount of fire cement to ensure a good seal, and then riveted together at three even points around the flue joint. Prior to installing the assembled flue pipe into the masonry chimney cavity, take careful note to ensure there are no overhead power lines in close proximity.
6. Lower the flue pipe into the masonry chimney, with the crimped end fitting into the fireplace insert flue outlet/offset, and securely attach with three rivets (offset/bend must be riveted to the flue pipe). For installations where extra lengths of flue pipe are required, or when the weather is poor, it will be easier to assemble the flue pipe lengths as they are lowered into the masonry chimney.

7. Secure the outer casing to the masonry chimney with suitable fasteners. A masonry chimney flashing plate will be required to weatherproof/seal the masonry chimney top. Note: The top of the outer casing must be 'level' (+ or - 10mm) with the top of the 150mm stainless steel flue pipe.

8. Assemble the ECO Cowl as follows;

- Take the stainless steel weather butterfly (A) so the angled sections are facing up.
- With both arms and angled sections of the stainless steel weather butterfly (A) facing up, fit it into the stainless steel ECO Cowl top (B), and secure in position through the holes provided with stainless steel rivets

NOTE – Once fitted the weather butterfly will be slightly angled within the cowl housing.

- Fit the ECO Cowl top (B) into the ECO Cowl housing (C). Push both sections together until the swage ring on (B) rests completely on the open end of the cowl housing (C). Drill through the two pre-punched holes in the ECO Cowl housing and secure these two sections together with stainless steel rivets.

The removable section of the ECO Cowl is now fully assembled.

9. Making your way back onto the roof, fit the 480mm long flue pipe extension/flashing cone (D), with the flashing cone at the bottom. Fit the short flue section inside the top of the already installed 150mm diameter flue pipe. Ensure the three brackets extended below the flashing cone fit 'outside' the outer casing slip section. Drill through the pre-punched hole in all three brackets into the outer casing slip and secure with rivets.
10. Taking the 'removable section of the ECO Cowl' assembled in section (8) above, position it over the top of the stainless steel flue pipe extension, and slide it down fully. This removable section does not require riveting and therefore enables easy removal for future flue cleaning.

Minimum Heights for all Metro Flue Systems In compliance with AS/NZS2918:2001

The Metro ECO Flue Systems comply with AS/NZS2918:2001 and its 4.6 metre height requirement (4.6 metre minimum from the top of the floor protector to the top of the flue pipe). However as external structures and the proximity of other buildings will differ for every installation, some situations will require additional flue height to comply with the standard.

Refer to Diagrams 3 and 4 below. (All measurements in mm).

Note: AS/NZS2918:2001 Section 4, details flue system installation requirements in full.

Diagram 3

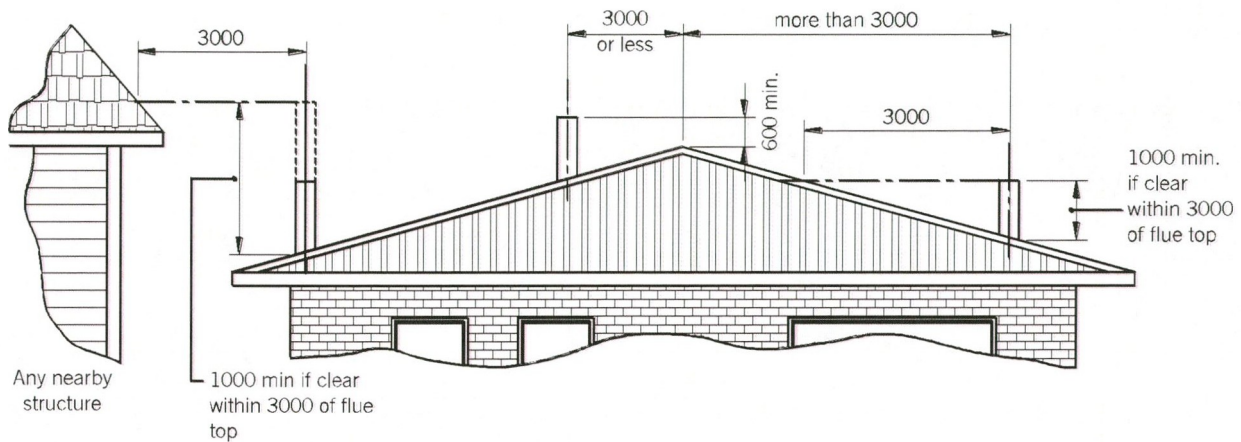
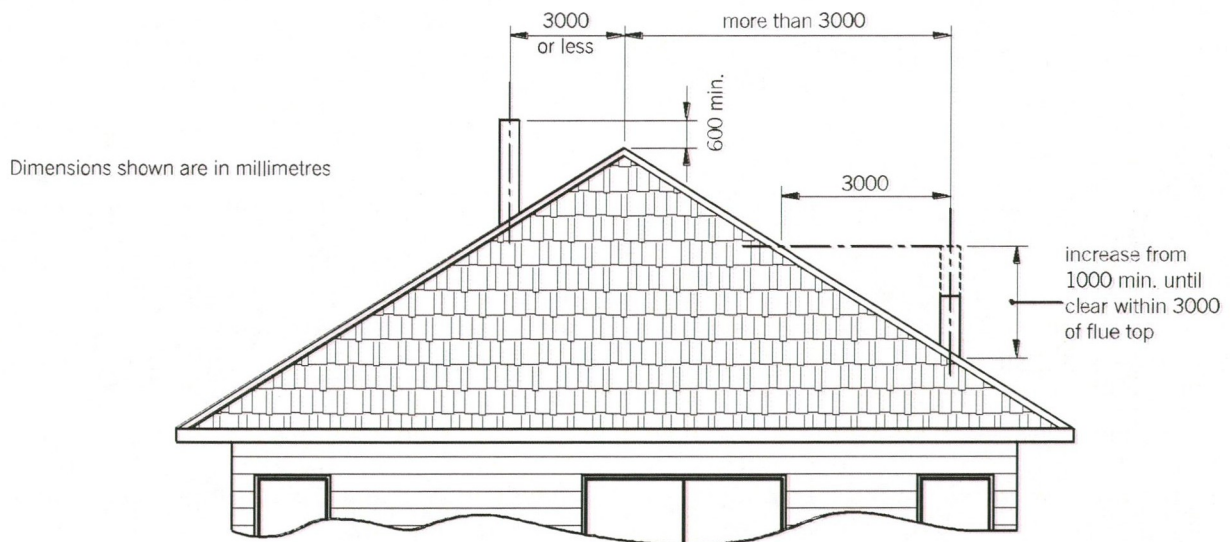
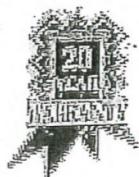


Diagram 4





design features



Dektite®

First and the Best!

To develop a product that is universally accepted as the best on the market Deks consider every aspect of the Dektite® design: installation, functionality and materials.

Success in this is proven by the performance of the Dektite®. The ingenious shoulder moulding, results in less distortion, which reduces stress on the material, and eliminates ponding with complete water run-off in every situation. The low profile not only looks good but provides a generous internal clearance, so even the steepest roofs are handled with ease.

Installation is easier with the Dektite®.

- The large base area provides more coverage and greater latitude in cut-out size.
- The cone has clearly marked cut lines for different pipe diameters.
- Around the base of the cone a flexible bead reduces stress on the flashing membrane (to which an aluminium flange is bonded), as it is formed over the roof profile.
- Underneath, moulded ribbing increases sealant retention to ensure an effective, weatherproof seal.

FLEXIBLE CONE SLEEVE

Dektite® cone shape eliminates seal breakdown due to vibration or expansion and contraction, while isolation of pipe from sheeting dampens noise levels.

EASILY IDENTIFIED SIZING

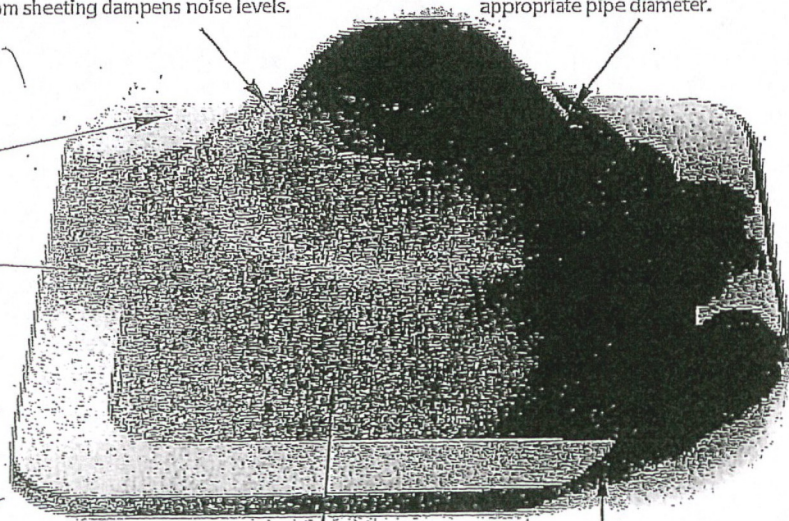
Pipe diameter rings are clearly marked on the cone sleeve (metric and imperial) for cutting to match the appropriate pipe diameter.

LOW PROFILE DESIGN

Sleek, unobtrusive shape is designed to minimise silhouette on roofline, while managing to provide generous internal clearance for steep, angular installations.

STRESS ISOLATION POINTS

Unique to Dektite® two flexible shoulders absorb distortion and stop transfer of stresses from base to cone, as unit is formed over roofing profile.



BONDED ALUMINIUM FLANGE

Corrosion-resistant, malleable flange, evenly distributes fastening pressure and allows ease of hand-shaping on most sheet profiles.

INTEGRITY OF FLASHING SHAPE

Minimal distortion after installation, maintains natural flashing shape and seal around pipe, while water run-off is improved and 'ponding' eliminated.

LARGE BASE AREA

For better coverage of penetration cut-out and improved performance over steep roof pitches and a wider variety of cladding profiles.

IMPROVED WATERPROOFING

Designed to strengthen sealant bond and improve waterproofing, the ribbed base has an angled skirting edge to help shed moisture and contribute to a superior waterproof seal. For even more efficient water run off the Dektite® can be fitted on the Diamond.