



## **Tasman District Council**

189 Queen Street, Richmond 7020

[building.support@tasman.govt.nz](mailto:building.support@tasman.govt.nz)

03 543 8400

**BC170849**

Alpha ID: 170849

Application Type: Building Consent

Site Address: 210 Whitby Road, Wakefield

Project Description: Install Metro Wee Rad Freestanding Log Burner with Wetback

Project Status: Code Compliance Certificate Issued

# Table of Contents

## File Notes

File Notes Log

1

**Blog ID:** 80088

**Author:** System

**Created:** 2017-10-18 00:00:00

**Notes:** Fire Free-standing Final [Fail - Re-inspection required at next inspection no fee] Kevan Vickers | 18 October 2017 - Wednesday SUMMARY: 26 Final Inspection: Fire Free-standing -- Final inspection. CCC application form collected from site and attached. The following requires to be attended to before the CCC can be issued: 1. An additional smoke detector is required to the front lobby that serves the front bedroom. Photo O.K.[Pass] Make and Model &mdash; Kevan Vickers[Pass] Hearth correct clearance &mdash; Kevan Vickers[Pass] Wetback installed by - plumber &mdash; Kevan Vickers[Pass] Flue shield fitted &mdash; Kevan Vickers[Pass] Inner flue secure in place and riveted SS &mdash; Kevan Vickers[Pass] Framing in roof correct &mdash; Kevan Vickers[Fail - Re-inspection required at next inspection no fee] Hush-type smoke detectors installed - An additional smoke detector is required to the front lobby that serves the front bedroom. Photo O.K. &mdash; Kevan Vickers[Pass] Inspector completed a visual risk assessment for &mdash; Kevan Vickers

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**Blog ID:** 80089

**Author:** System

**Created:** 2017-11-13 00:00:00

**Notes:** [Not Applicable] Kevan Vickers | 13 November 2017 - Monday SUMMARY: 99 Check CCC documentation -- Insufficient time to deal with.[Not Applicable] Insufficient time to deal with. &mdash; Kevan Vickers

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**Blog ID:** 80090

**Author:** System

**Created:** 2017-11-20 00:00:00

**Notes:** [Pass] Kevan Vickers | 20 November 2017 - Monday SUMMARY: 23 Additional Inspection -- Outstanding items addressed. Please therefore issue the CCC.[Pass] Outstanding items addressed. Please therefore issue the CCC. &mdash; Kevan Vickers

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**Blog ID:** 179158

**Author:** System

**Created:** 2020-03-16 02:32:08

**Notes:** API added 'Project at End Other' block for the following reason: System set this project as read-only as the project is at end.

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**Blog ID:** 190395

**Author:** System

**Created:** 2020-04-25 03:21:15

**Notes:** Covid-19 Site Inspection Check

- If you are feeling unwell - do not attend site.
- Sanitise Hands
- Put on PPE
- Clean Equipment that is to be taken on site
- Upon Request Provide Site Manager with your Covid-19 Plan
- Sign the Site Register - All people entering the site must do this (tip - photograph site register)
- Complete Site Induction
- Follow Site Protocols maintaining Physical Distancing at all times
- While on site consider the Durability of Exposed Materials
- On completion Sign Out and Sanitise Hands
- Clean Equipment on completion of inspection
- To assist tracking Maintain a Record of Daily Contacts.

<https://www.building.govt.nz/covid-19/get-prepared-for-working-at-alert-level-3>

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**Blog ID:** 313725

**Author:** System

**Created:** 2022-09-04 12:34:10

**Notes:** API removed 'Project at End Other' block for the following reason: Unarchived to recompile project documents (2022-09-04 12:34:10).

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## INSPECTION REPORT

Name: <b>G C Builders Limited</b>	Consent No: <b>BC170849</b>
Address: <b>210 Whitby Road, Wakefield</b>	Inspected by: Kevan Vickers

On **18/10/2017 at 4:59 p.m.** this site was inspected pursuant to the Building Act 2004 (section 222/230) and the Local Government Act 2004 (Section 174). The purpose of the inspection was:

### **26 FINAL INSPECTION: FIRE FREE-STANDING WHEN FREE-STANDING FIRE HAS BEEN COMPLETELY INSTALLED & SMOKE ALARMS FITTED**

**Notes Summary:** Final inspection. CCC application form collected from site and attached. The following requires to be attended to before the CCC can be issued: 1. An additional smoke detector is required to the front lobby that serves the front bedroom. Photo O.K.

### **Next Inspection:**

#### **☒ Failed Inspection Points**

##### **Hush-type smoke detectors installed**

An additional smoke detector is required to the front lobby that serves the front bedroom. Photo O.K.

# Code Compliance Certificate

**BC170849**

Form 7: Section 95, Building Act 2004

## The building

Street address of building: 210 Whitby Road, Wakefield  
Legal description of land where building is located: Lot 3 DP 4792  
Valuation number: 1937009703  
Current, lawfully established, use: Residential Home  
Year first constructed: circa 1980s

## The owner

Name of owner: Ching William Leo & Dabinette Nicola Ellen  
Contact person: William & Nicole  
Mailing address: 210 Whitby Road, Wakefield 7025  
Phone number: Landline: Mobile: 0274622892  
Facsimile number: Email address: nicole.ching@summit.co.nz Website:  
First point of contact for communications with the council/building consent authority:  
Full Name: G C Builders Limited  
Mailing Address: 7A McCrae Street, Wakefield 7025  
Phones: 0273543247  
Email: glencarmody@yahoo.co.nz

## Building work

Building consent number: 170849 Issued by: Tasman District Council  
Install Metro Wee Rad Freestanding Log Burner with Wetback: Intended Use: Heating

## Code compliance

The building consent authority named below is satisfied, on reasonable grounds, that —

(a) the building work complies with the building consent.



Signature  
On behalf of: Tasman District Council

Position

Date: 21/11/17



# Building Consent

170849

Form 5: Section 51, Building Act 2004

## The building

Street address of building:	210 Whitby Road, Wakefield
Legal description of land where the building is located:	Lot 3 DP 4792
Valuation number:	1937009703
Building name:	Level/unit number:
Location of building within site block no:	

## The owner

Name of owner:	W & N Ching
Contact person:	William & Nicole
Mailing address:	210 Whitby Road, Wakefield 7025
Street address/registered office:	
Phone number:	Landline: Mobile: 0274622892
	Daytime: After hours:
Facsimile number:	Email address: nicole.ching@summit.co.nz

## First point of contact for communications with the council/building consent authority:

Full Name: G C Builders Limited  
Mailing Address: 7A McCrae Street, Wakefield 7025  
Phones: 0273543247  
Email: glencarmody@yahoo.co.nz

## Building work

The following building work is authorised by this building consent:

Install Metro Wee Rad Freestanding Log Burner with Wetback

Intended Use: Heating

**IMPORTANT NOTE:** In accordance with the Building Act 2004, this Building Consent will lapse and have no effect 12 months from the date of issue if the building work to which it relates does not commence, or an extension to this period has not been agreed with the building consent authority.

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: N/A

**Compliance schedule**

A compliance schedule is not required for the building.

**Attachments**

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

Site Inspection Sheet  
Application for Code Compliance Certificate  
Additional Information



**On behalf of: Tasman District Council Date: 16/08/17**

# Addenda to Application

## Application

Consent No:	170849
Name of owner:	W & N Ching
Contact person:	William & Nicole

## Building work

Description:	Install Metro Wee Rad Freestanding Log Burner with Wetback
Location:	210 Whitby Road, Wakefield
Legal Description:	Lot 3 DP 4792
Valuation No:	1937009703
Intended Use:	Heating
Contractors:	Contractor: Glen Carmody 7A MCrae Street : 0273543247

**This information should be read in conjunction with Building Consent 170849.**

## Fees and Charges

- Additional charges may be requested by virtue of Section 219(2) of the Building Act 2004 if costs incurred exceed the standard charge.

## Inspections

- Please book inspections as each stage of work is completed. A minimum of 24 hours' notice is required for inspection bookings.
- If this project contains Restricted Building Work (RBW), the details of the site Licensed Building Practitioner (LBP) will be required prior to the first inspection.

## Code Compliance Certificate

- All requested documents will be required prior to booking a final inspection

## Addenda

-

## APPLICATION FOR CODE COMPLIANCE CERTIFICATE

### 1. What is the Building Consent? Complete this field

Building consent number:	170849
Issued by: (name of building consent authority)	Tasman District Council

### 2. Who owns the building? Complete all fields, using N/A if a field is not applicable

Owner name:	W & N Ching			Title: e.g. Mr, Mrs, Ms, Dr	Mr & Mrs	
Contact person:	Glen Carmody					
Owner mailing address:	210 Whitby Road, Wakefield, 7025					
Street address/registered office:	Same as above					
Owner email address:	nicole.ching@summit.co.nz					
Owner contact number:	027 462 2892					
Are you using an Agent?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	If Yes, please also complete the following:	
Who is the first point of contact for further correspondence?			<input checked="" type="checkbox"/>	Agent	<input type="checkbox"/>	Owner
Agent name:	Glen Carmody					
Agent email:	glencarmody@yahoo.co.nz					
Agent contact number:	027 354 3247					
Agent mailing address:	7A McCrae Street, Wakefield, 7025					

### 3. When was the building work completed? Complete this field

All building work to be carried out under the building consent specified on this form was completed on:	dd/mm/yyyy
	18/10/2017

### 4. Who completed the building work? Complete all fields on each line. You will need to complete one line for each building practitioner. Use a separate sheet if necessary.

The licensed building practitioner(s) who carried out/supervised the restricted building work is/are:

Name	Licensing class	LBP or registration number	Work carried out/supervised
Conrad Clements	Plumbing	23463	Carried out
Jo McDowell	Plumbing	10126	Carried out
Plumbing			

Name	Licensing class	LBP or registration number	Work carried out/ supervised

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

Name	Address	Contact number	Registration number
Glen George Carmody	7A McCrae St, Wakefield, 7025	027 354 3247	BP130183

Please list specified systems installed in the building or use N/A if this section is not applicable  N/A

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:


## 5. Declaration

I understand that this application may *only* be made with the owner's approval (tick to indicate agreement)

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:

<input checked="" type="checkbox"/> Owner	<input type="checkbox"/> Agent	<input type="checkbox"/> Owner address as per Section 2	<input type="checkbox"/> Agent address as per Section 2
Name:	Glen George Carmody		
Signature:			
Date:	18/10/2017		

You can add a digital signature to this document, either using Adobe or your existing digital signature.

Once you have filled out the form, including signatures, please save the application to your computer. You can then submit the application with supporting documentation to your local council.

If you are unsure about what information to include in your application, a guidance document is available ([click here](#)).



## INSPECTION REPORT

Name: <b>G C Builders Limited</b>	Consent No: <b>BC170849</b>
Address: <b>210 Whitby Road, Wakefield</b>	Inspected by: Kevan Vickers

On **3/11/2017 at 3:59 p.m.** this site was inspected pursuant to the Building Act 2004 (section 222/230) and the Local Government Act 2004 (Section 174). The purpose of the inspection was:

**23 ADDITIONAL INSPECTION FOR BI USE - WHEN A STANDARD INSPECTION DOES NOT FIT REASON OR OUTCOME OF VISIT**

**Notes Summary:** Outstanding items addressed. Please therefore issue the CCC.

**Next Inspection:**

**Failed Inspection Points**

# Site Inspection Sheet

**Application**

W & N Ching	No.	170849
210 Whitby Road, Wakefield 7025	Issue date	16/08/17

**Project**

Description	Install Metro Wee Rad Freestanding Log Burner with Wetback
Location	210 Whitby Road, Wakefield
Legal Description	Lot 3 DP 4792
Valuation No.	1937009703

This inspection list and all the approved plans relating to this building consent are to be kept on site and available to the building and/or plumbing and drainage inspector, or approved building certifier, on request.

Please give at least 24 hours' notice for the next required inspection.

Work cannot proceed past each step until that step has been inspected and approved, and this form signed by the relevant inspector or certifier.

This sheet is to be returned to Tasman District Council when applying for your code compliance certificate.

Note: If this form is not completed, the code compliance certificate will not be issued until Council is satisfied that the building complies with the New Zealand Building Code.

When this project is completed this inspection sheet will be attached to the relevant property file held at the Council office.

**Please note! The approved plans are to be available on site, on request, at all times.**

**Inspections**

25 Final Inspection: Fire In-built When In-built fire has been completely installed & smoke alarms fitted

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Contractors	Name	Address	Signatures
Contractor:	Glen Carmody	7A MCrae Street	0273543247

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<b>Tasman District Council</b> <b>Email</b> <a href="mailto:info@tasman.govt.nz">info@tasman.govt.nz</a> <b>Website</b> <a href="http://www.tasman.govt.nz">www.tasman.govt.nz</a> <b>24 hour assistance</b>	<b>Richmond</b> 189 Queen Street Private Bag 4 Richmond 7050 New Zealand <b>Phone</b> 03 543 8400 <b>Fax</b> 03 543 9524	<b>Murchison</b> 92 Fairfax Street Murchison 7007 New Zealand <b>Phone</b> 03 523 1013 <b>Fax</b> 03 523 1012	<b>Motueka</b> 7 Hickmott Place PO Box 123 Motueka 7143 New Zealand <b>Phone</b> 03 528 2022 <b>Fax</b> 03 528 9751	<b>Takaka</b> 14 Junction Street PO Box 74 Takaka 7142 New Zealand <b>Phone</b> 03 525 0020 <b>Fax</b> 03 525 9972
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## INSPECTION REPORT

Name: <b>G C Builders Limited</b>	Consent No: <b>BC170849</b>
Address: <b>210 Whitby Road, Wakefield</b>	Inspected by: Kevan Vickers

On **3/11/2017 at 3:59 p.m.** this site was inspected pursuant to the Building Act 2004 (section 222/230) and the Local Government Act 2004 (Section 174). The purpose of the inspection was:

**23 ADDITIONAL INSPECTION FOR BI USE - WHEN A STANDARD INSPECTION DOES NOT FIT REASON OR OUTCOME OF VISIT**

**Notes Summary:** Outstanding items addressed. Please therefore issue the CCC.

**Next Inspection:**

**Failed Inspection Points**

# Plumbing and Drainage Report

Valuation No. 097/23

Address: 210 Whitby Rd  
Receipt No. 16906

Owner: N Jarrett  
Permit No. 280 A

Plumber/Drainlayer:

R. Day

Fee \$

Estimated Value \$

Description of Work:

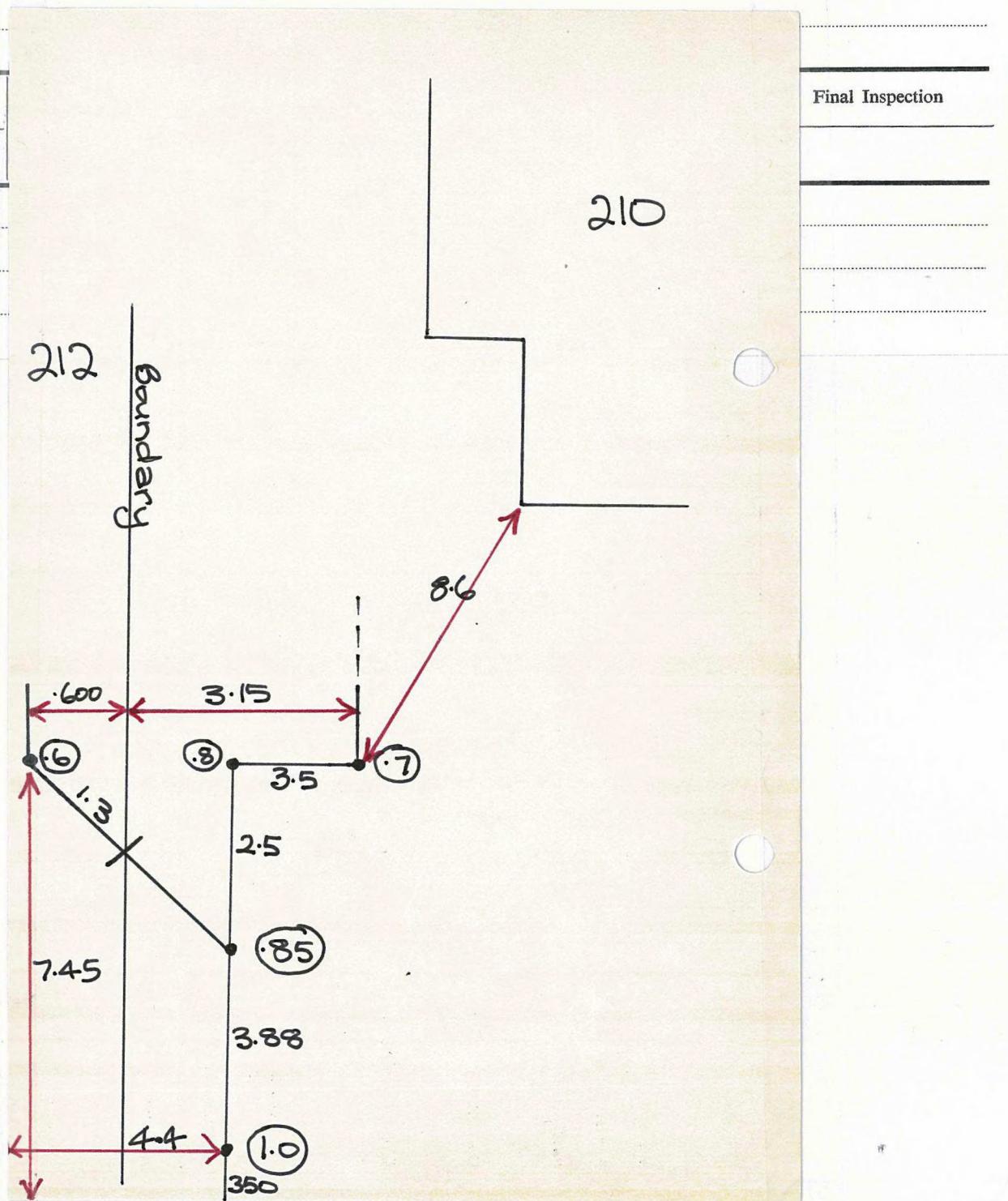
Special Conditions:

Inspection  
Dates

Inspector

Remarks:

Final Inspection





## Submission: Application for Solid Fuel Burner

**Submission Ref:**  
TASMAN001085

**Council:**  
Tasman District Council

**Status:**  
Submitted

**Site Address:**  
210 Whitby Road, Wakefield, Wakefield, 7025

**Submitter:**  
Glen Carmody Builders (Glen Carmody)

**Date Submitted:**  
27/07/2017

## Form: Application for Solid Fuel Burner

### Where Is The Building Work?

**What is the street address? \***

210 Whitby Road, Wakefield 7025

**Legal Description \***

Lot 3

DP 4792

**Building Name**

**Location of building within site/block including near street access**

## Who Owns The Building Or Land?

<b>Owner name *</b>	<input type="text" value="William Leo Ching &amp; Nicole Ellen Ching"/>	<b>Title</b>
<b>Owner email address *</b>	<input type="text" value="nicole.ching@summit.co.nz"/>	
<b>Owner contact number *</b>	<input type="text" value="027 462 2892"/>	
<b>Owner mailing address *</b>	<input type="text" value="210 Whitby Road, Wakefield, Nelson 7025"/>	
<b>Indicate which of the following Proof of Ownership documents is attached to your application. Your document must be less than 3 months old. If you do not provide proof of ownership, one will be obtained from LINZ and you will be charged for costs.</b>		
<input checked="" type="checkbox"/> Copy of Certificate of Title		
<input type="checkbox"/> Copy of Lease Agreement		
<input type="checkbox"/> Agreement for Sale and Purchase		
<input type="checkbox"/> Other document showing full name of legal owner		
<b>Contact details for the nominated first point of contact (ie agent or owner) must be in New Zealand.</b>		
<b>Are you using an Agent? *</b>		
<input checked="" type="radio"/> Yes <input type="radio"/> No		
<b>Who is the first point of contact for further correspondence? *</b>		
<input checked="" type="radio"/> Agent <input type="radio"/> Owner		
<b>Who is the first point of contact for invoicing? *</b>		
<input checked="" type="radio"/> Agent <input type="radio"/> Owner		
<b>Agent name *</b>	<input type="text" value="Glen Carmody"/>	<b>Title</b>
<input type="text" value=""/>		
<b>Agent email *</b>	<input type="text" value="glencarmody@yahoo.co.nz"/>	
<b>Agent contact number *</b>		
<input type="text" value="027 354 3247"/>		
<b>Agent mailing address *</b>		
<input type="text" value="7A McCrae Street,&lt;br/&gt;Wakefield,&lt;br/&gt;Nelson 7025,&lt;br/&gt;New Zealand"/>		

## Who's Involved In The Build?

*					
Trade	Name	Address	Contact No.	Email	Registration No.
Carpenter	Glen	7A McCrae St	027 354 3247	glencarmody@yahoo.co.nz	BP130183
Showing 1 to 1 of 1 items					

## What Are The Details Of The Building Work?

### Provide a full description of the building work \*

Installation of metro wee rad base fire + wetback in lounge area

### Estimated value of the building work (including GST) \*

\$ 8,000

### What is the intended life of the building? \*

50+ years

Limited Life

### Have you discussed this project with Council prior to applying?

Yes

No

### Year first constructed

1953

### Current lawful established use

Housing

## What Clauses Of The Building Code Does Your Work Comply With?

\*I understand that this application is to be assessed against Acceptable Solutions, unless otherwise stated in the following section.

Please tick to indicate your agreement

\*

<input type="checkbox"/> B1 Structure	<input checked="" type="checkbox"/> B2 Durability	<input type="checkbox"/> C1 Protection from fire
<input type="checkbox"/> C2 Prevention of fire occurring	<input type="checkbox"/> C3 Fire affecting areas beyond fire source	<input type="checkbox"/> C4 Movement to place of safety
<input type="checkbox"/> C5 Access and safety for fire-fighting operations	<input type="checkbox"/> C6 Structural stability	<input type="checkbox"/> D1 Access routes
<input type="checkbox"/> D2 Mechanical installations	<input type="checkbox"/> E1 Surface water	<input checked="" type="checkbox"/> E2 External moisture
<input type="checkbox"/> E3 Internal moisture	<input type="checkbox"/> F1 Hazardous agents on site	<input type="checkbox"/> F2 Hazardous building materials
<input type="checkbox"/> F3 Hazardous substances and processes	<input type="checkbox"/> F4 Safety from falling	<input type="checkbox"/> F5 Site safety
<input type="checkbox"/> F6 Visibility in escape routes	<input checked="" type="checkbox"/> F7 Warning systems	<input type="checkbox"/> F8 Signs
<input type="checkbox"/> F9 Means of restricting access to residential pools	<input type="checkbox"/> G1 Personal hygiene	<input type="checkbox"/> G2 Laundering
<input type="checkbox"/> G3 Food preparation and prevention of contamination	<input type="checkbox"/> G4 Ventilation	<input type="checkbox"/> G5 Interior environment
<input type="checkbox"/> G6 Airborne and impact sound	<input type="checkbox"/> G7 Natural light	<input type="checkbox"/> G8 Artificial light
<input type="checkbox"/> G9 Electricity	<input type="checkbox"/> G10 Piped services	<input type="checkbox"/> G11 Gas as an energy source
<input type="checkbox"/> G12 Water supplies	<input type="checkbox"/> G13 Foul water	<input type="checkbox"/> G14 Industrial liquid waste
<input type="checkbox"/> G15 Solid waste	<input type="checkbox"/> H1 Energy efficiency	

### Provide details of all Verification Methods being used

Include relevant code clause and means of compliance

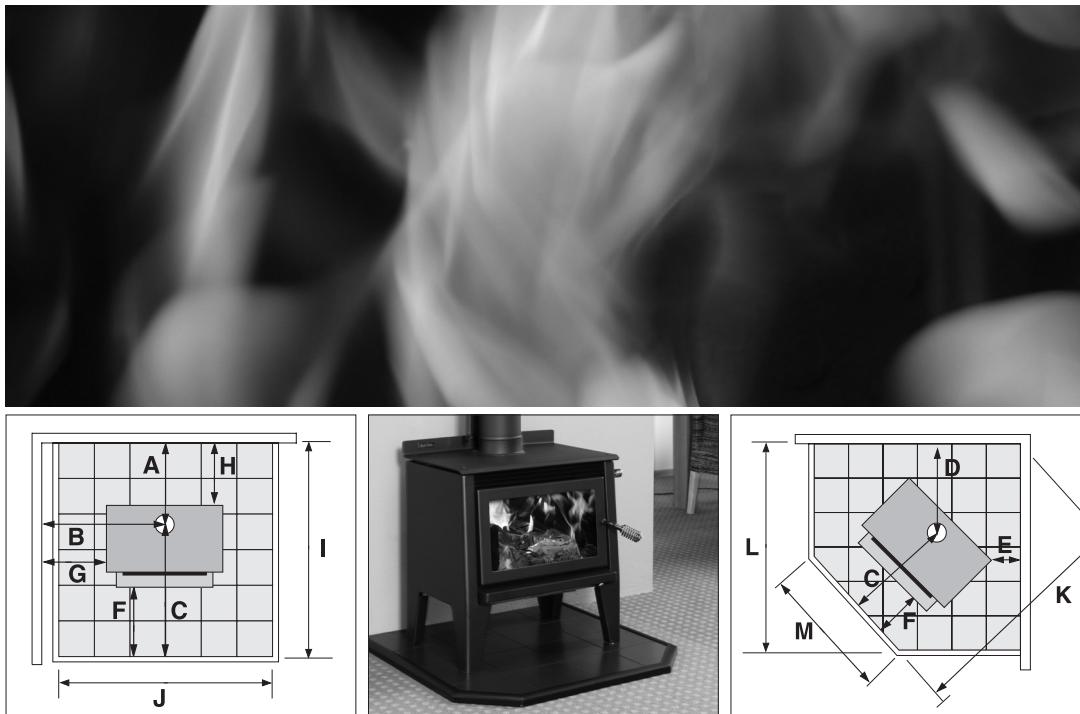
### Provide details of all Alternative Solutions being used

Include relevant code clause and means of compliance or details of any waivers and modifications (including applicable code clauses)

Have You Attached All Required Documentation?

File Title	Required	Upload Date
Proof of Ownership	Yes	Thu, 27 Jul 2017
Plans & Specifications	Yes	Thu, 27 Jul 2017

## Wood Fire Installation &amp; 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
Direct vent option.....	5	Cleaning and maintenance .....	11
Wetback and flue 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

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)

## ⚠️ **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

## Assembling your Metro wood fire

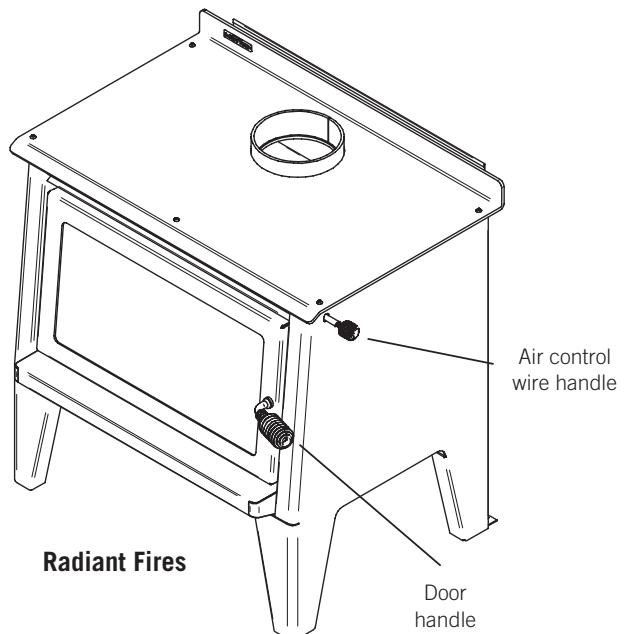
*Please note: You should only assemble this wood fire if you are suitably experienced in wood fire assembly and installation. The Metro carton shows the model Metro you are about to install, enabling you to select the appropriate model's assembly instructions.*

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 the pedestal mount plate

*Note: The ECO Tiny Ped model utilises a slightly different pedestal to that detailed in Diagram 1. The rear panel on the pedestal must be turned around with the return fold facing back the opposite way. This then creates the mounting plate.*

- 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:

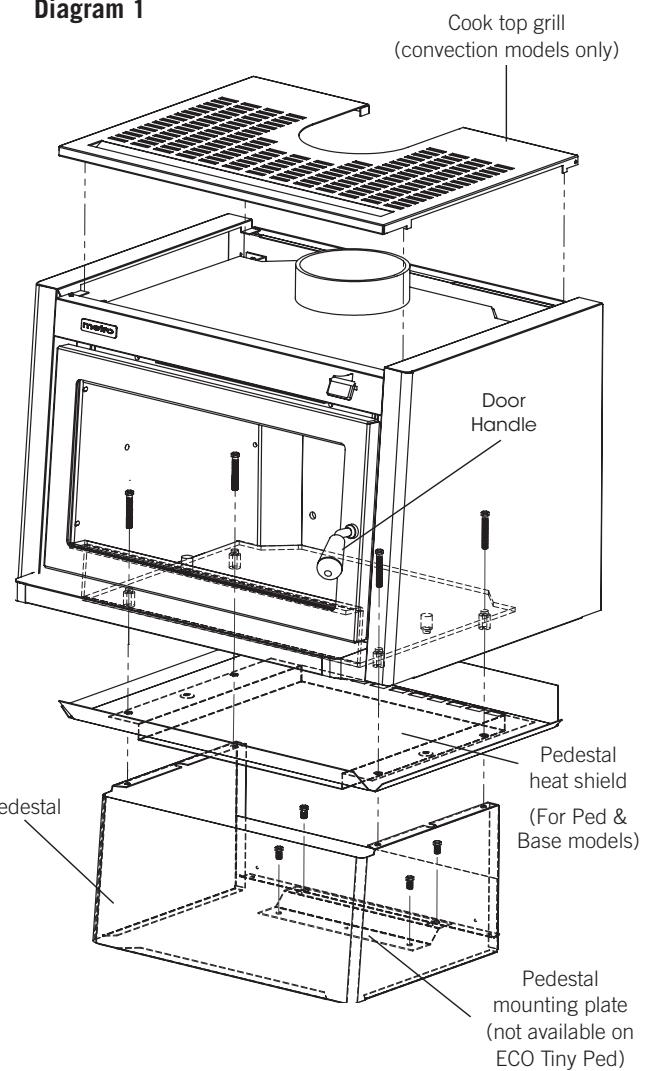
- Grab the flue spigot with one hand and the other hand underneath the top of the firebox door opening, lift upwards standing the wood fire onto its pedestal
- Fit the side bricks to each side of the fire box. Location lugs are fitted to the base and rear wall of the firebox to retain the side bricks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

### All Metro models

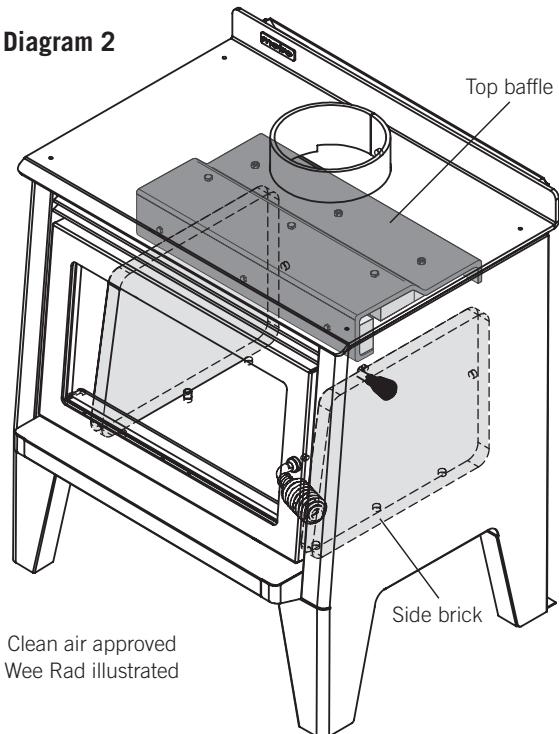
Check to ensure the top baffle is in its correct position in the top chamber of the firebox. It should be resting on four support lugs (two on each side of the firebox). The baffle must be hard back against the rear of the firebox with the "promet extension" (white board) or return front steel edge of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

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.

These models (excluding the ECO Tiny Ped) are supplied with a 'pedestal mounting plate'. Refer to Diagram 3. Once the location of this mounting plate is established, mark the seismic restraint points and shuffle the fire forward to allow securing of the mount plate through the floor protector into the floor using both of the two holes provided.

Use masonry anchors if the floor protector is on a concrete floor or coach bolts if a wooden floor. The fire can then be shuffled back into position and attached to the fixed mounting plate using the two M6 x12 bolts supplied.

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

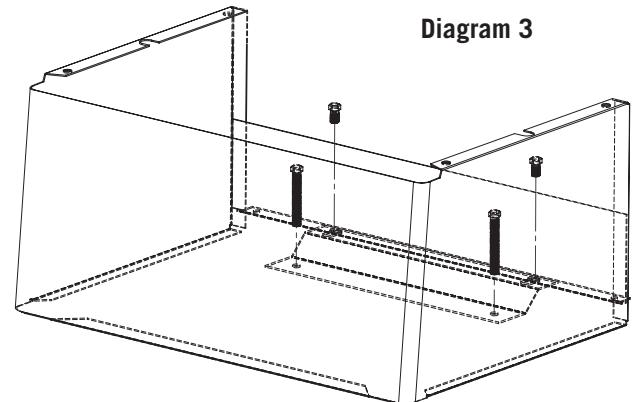
### Alternative Metro Mount Plate Installation

For installations when cosmetics of the mounting plate are not an issue, it is possible to 'invert' the mounting plate and use it as a means of bolting the Metro directly to the floor, through the floor protector. Refer to Diagram 3A and note;

1. Rotate the mount plate 180 degrees.
2. Secure the mount plate to the wood fires pedestal/base using the two M6 x12 bolts supplied.

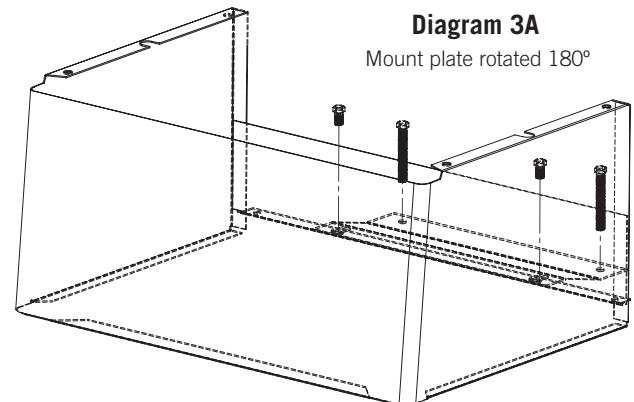
You can then secure the Metro through the floor protector into the floor using the two seismic restraint holes in the rear edge of the mount plate. Use masonry anchors if the floor protector is on a concrete floor or coach bolts if a wooden floor.

### Standard installation



**Diagram 3**

### Alternative installation



**Diagram 3A**

Mount plate rotated 180°

## Flue installation

It is recommended that all Metro freestanding wood fires be installed with the energy efficient Metro 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 Systems 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 Base Flue Kit, or above the roof line if the Base & Option Kits are both installed
- The ECO Base 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

- Metro 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.

## Direct vent option

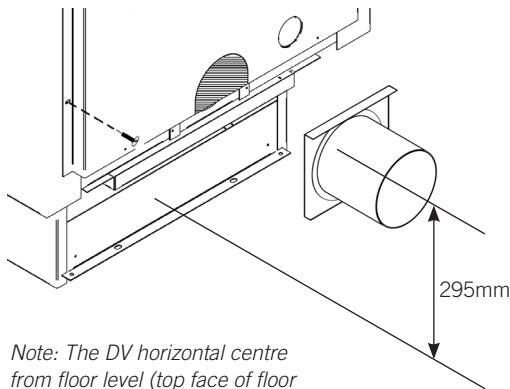
The ECO Euro Ped has the option to be installed as 'Direct Vent' appliance, drawing all primary and secondary combustion air from outside the home. Once connected, this venting option ensures the air that is heated within the home stays in the home improving efficiency and reducing fuel usage.

*Note: Connection of the Metro's direct vent inlet to outside the home is optional. If not connected this Direct Vent model still offers greatly improved performance and lower emissions due to the unique pre-heated air path for all primary and secondary combustion air that this model consumes.*

### Direct Vent Options

Three Direct Vent kits are available to connect the ECO DV Metro to an air supply from outside the home. The kits available include;

- DV WALL KIT – For installations when the Metro fire is installed against an outside wall
- DV FLOOR KIT – For installations onto a floor which has a free air supply below it
- DV CEILING KIT – For installations when the Metro fire is installed against an internal wall and on a concrete floor. The DV Ceiling kit goes into the wall cavity, up inside the wall into the ceiling cavity, where the air supply is drawn from.

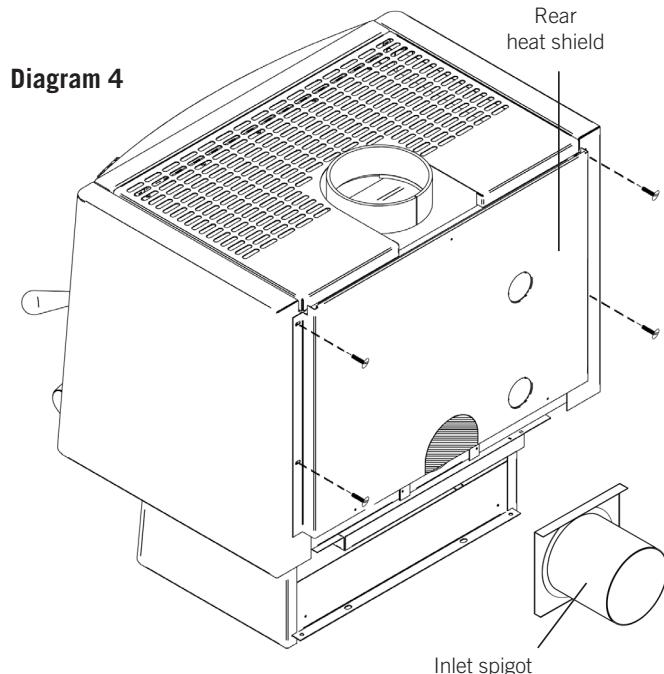


### Installing the Direct Vent Option

Remove the rear heatshield from the Metro wood fire by unscrewing the four self-tapping screws illustrated in Diagram 4 and proceed as follows;

1. Remove the section of panel illustrated with a 'hatch', from the mid/bottom section of the rear heatshield. This section to be removed has pre-punched and only requires a few small tabs to be cut.
2. Take the 'inlet spigot' supplied in the Direct Vent kit and slide it fully down into position into the brackets provided on the rear of the firebox.
3. Re-fit the Metro's rear heatshield with the four screws.

The Metro wood fire is now ready for installation once you have pre-fitted the Direct Vent kit into the wall or floor. Full instructions for this procedure are supplied with the Direct Vent kits.



## 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

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.

Wetback	Suitable for models:
2kW Wetback 	<ul style="list-style-type: none"> <li>• ECO Tiny Rad</li> <li>• ECO Tiny Ped</li> </ul>
Side Wetback 	<ul style="list-style-type: none"> <li>• Tiny Rad Woody</li> <li>• Wee Rad &amp; Wee Rad Base</li> <li>• Wee Rad Woody</li> <li>• Wee Ped</li> <li>• Classic Rad</li> </ul>
ECO Wetback 	<ul style="list-style-type: none"> <li>• ECO Euro Ped</li> </ul>
3kW Wetback 	<ul style="list-style-type: none"> <li>• Xtreme Rad &amp; Xtreme Rad Base</li> <li>• Xtreme Rad Woody</li> <li>• Xtreme Ped</li> <li>• Mega Rad</li> <li>• All LTD rural models</li> </ul>
4kW Wetback 	<ul style="list-style-type: none"> <li>• All LTD rural models</li> </ul>

The R1 and R2 models cannot be fitted with a wetback.

## 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)

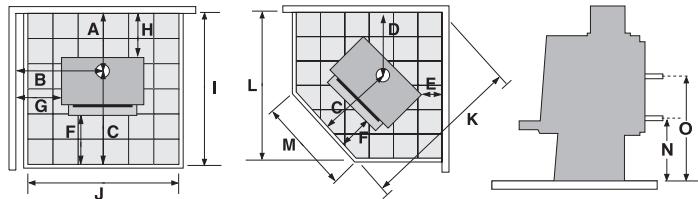
AS/NZS2918:2001 allows for a reduction in minimum clearances as detailed in Section 3, tables 3.1 and 3.2 of the standard.

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		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Width	Depth	Height
<b>Clean air models</b>																		
ECO Tiny Ped	210	430	580	290	25	200	185	60	790	650	990	875	250	280	470	490	530	665
ECO Tiny Rad	225	552	580	420	150	200	300	75	805	650	1165	925	250	280	470	505	530	665
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 <sup>1</sup>	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 Ped <sup>2</sup>	263	651	580	490	170	230	350	110	843	825	1274	1050	425	295	485	602	503	665
Classic Rad <sup>3</sup>	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	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
ECO Euro Ped DV <sup>4</sup>	230	585	625	495	170	200	250	80	855	905	1325	1120	505	325	515	670	575	715
Mega Rad	285	720	728	497	100	224	300	130	1013	1006	1431	1227	606	300	490	840	659	744
<b>LTD rural models</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>O</b>	<b>Width</b>	<b>Depth</b>	<b>Height</b>
LTD Wee Rad	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	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:

<sup>1</sup> Wee Rad 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 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:

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> ECO Euro Ped corner clearance (E) can be reduced to 110mm. This in turn also reduces clearances (D) to 435mm, (K) to 1240mm and (L) to 1060mm.

## ⚠️ **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 	<ul style="list-style-type: none"> <li>• ECO Tiny Rad</li> <li>• ECO Tiny Ped</li> </ul>
Side Wetback 	<ul style="list-style-type: none"> <li>• Tiny Rad Woody</li> <li>• Wee Rad &amp; Wee Rad Base</li> <li>• Wee Rad Woody</li> <li>• Wee Ped</li> <li>• Classic Rad</li> </ul>
ECO Wetback 	<ul style="list-style-type: none"> <li>• ECO Euro Ped</li> </ul>
3kW Wetback 	<ul style="list-style-type: none"> <li>• Xtreme Rad &amp; Xtreme Rad Base</li> <li>• Xtreme Rad Woody</li> <li>• Xtreme Ped</li> <li>• Mega Rad</li> <li>• All LTD rural models</li> </ul>
4kW Wetback 	<ul style="list-style-type: none"> <li>• All LTD rural models</li> </ul>

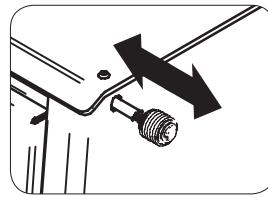
The R1 and R2 models cannot be fitted with a wetback.

## Getting to know your Metro wood fire

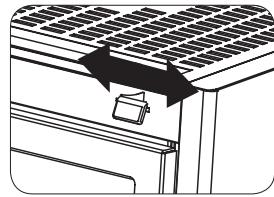
Operating your Metro fire is simple and you will quickly learn how to get the best from it. First take a minute to familiarise yourself with your new Metro.

- 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.

*Note: This does not apply to the ECO DV models.*

#### 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 recommend 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.

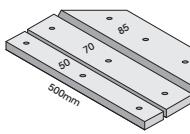
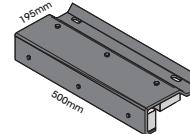
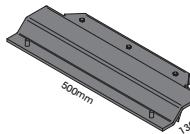
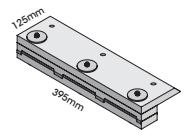
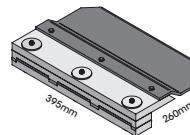
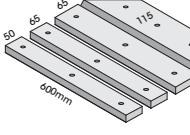
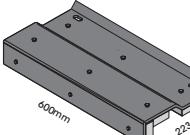
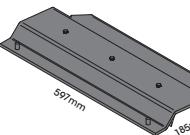
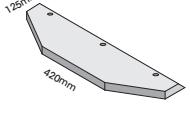
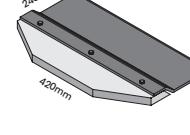
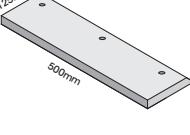
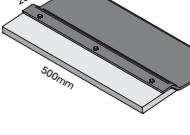
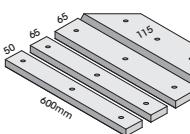
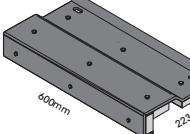
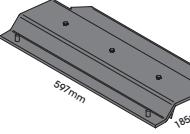
Model	Type of promet required / Type of steel baffle(s) required	Wetback options	
• ECO Tiny Ped • ECO Tiny Rad	ECO Tiny Promet 500-1550	ECO Tiny Baffle 500-2050	ECO 2kW Booster 450-0050
• Tiny Rad Woody	Tiny Woody Promet Set 500-2004	Tiny Woody Baffle 500-2504	Side Wetback 450-0275
• R1	Wee/R1 Promet 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	No wetback can be fitted to this appliance
• Wee Rad • Wee Rad Base • Wee Rad Woody • Wee Ped	Wee/R1 Promet Set 500-2005	Wee/R1 Baffle 500-2505	Side Wetback 450-0275
• Classic Rad	Classic Rad Promet Set 500-2015	Classic Rad Front Baffle 500-2520	Side Wetback 450-0275

## 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	
<ul style="list-style-type: none"> <li>• Xtreme Rad</li> <li>• Xtreme Rad Base</li> <li>• Xtreme Rad Woody</li> <li>• Xtreme Ped</li> </ul>	Xtreme/R2 Promet Set 500-2010  	Xtreme/R2 Front Baffle 500-2510  	Xtreme/R2 Rear Baffle 500-2515  
<ul style="list-style-type: none"> <li>• ECO Euro Ped DV</li> </ul>	ECO DV Promet 500-1750  	ECO DV Baffle 500-2200  	ECO Wetback 450-0450  
<ul style="list-style-type: none"> <li>• Mega Rad</li> </ul>	Mega Rad Promet Set 500-2020  	Mega Rad Front Baffle 500-2530  	Mega Rad Rear Baffle 500-2535  
<ul style="list-style-type: none"> <li>• LTD Wee Rad</li> <li>• LTD Wee Rad Base</li> <li>• LTD Wee Rad Woody</li> </ul>	LTD Small Promet 500-1700  	LTD Small Baffle 500-2600  	3kW Wetback 450-0100 or 4kW Wetback 450-0150  
<ul style="list-style-type: none"> <li>• LTD Xtreme Rad</li> <li>• LTD Xtreme Rad Base</li> <li>• LTD Xtreme Rad Woody</li> </ul>	LTD Large Promet 500-1850  	LTD Large Baffle 500-2650  	3kW Wetback 450-0100 or 4kW Wetback 450-0150  
<ul style="list-style-type: none"> <li>• LTD Mega Rad</li> </ul>	Mega Rad Promet Set 500-2020  	Mega Rad Front Baffle 500-2530  	Mega Rad Rear Baffle 500-2535  

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### 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](http://www.metrofires.co.nz)

### [metrofires.co.nz](http://www.metrofires.co.nz)

Visit the Metro website: [metrofires.co.nz](http://www.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](http://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

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PO Box 11, Inglewood 4347, New Zealand  
Ph (06) 756 6520 • Fax (06) 756 6540  
[info@metrofires.co.nz](mailto:info@metrofires.co.nz) • [www.metrofires.co.nz](http://www.metrofires.co.nz)

## ⚠️ **WARNING!** Important Information

- Metro ECO Flue Systems must be installed to allow unrestricted air supply from either the ceiling cavity for an ECO Base Flue Kit, or above the roof line if the Base & 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 Base 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

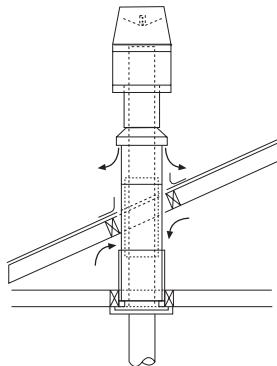
## ⚠️ **CAUTION!** Important Information

- 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

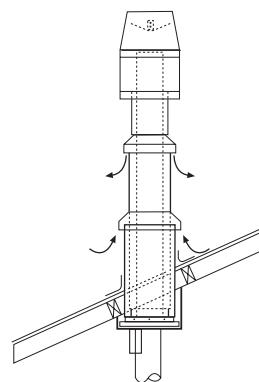
Detailed below are the more common installation methods for installing Metro ECO Flue Systems. To ensure a safe and efficient installation, this flue system must be installed as detailed below by either a registered installer, or someone competent in installing solid fuel appliances.

### Single Storey Installations



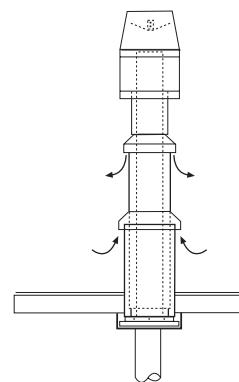
**Flat Cavity Ceiling**

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



**Sloping Ceiling**

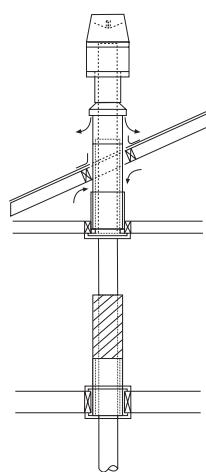
Both the ECO Base Flue Kit and ECO Option Kit are required to enable air to be drawn from outside the home.



**Flat Ceiling / Roof**

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

### Two Storey Installations



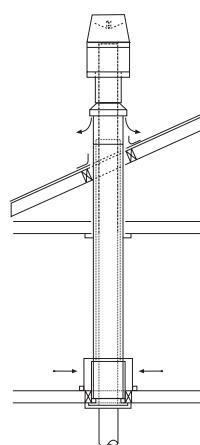
#### 2nd Floor - Exposed Flue pipe

Requires an ECO Base 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 Base 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

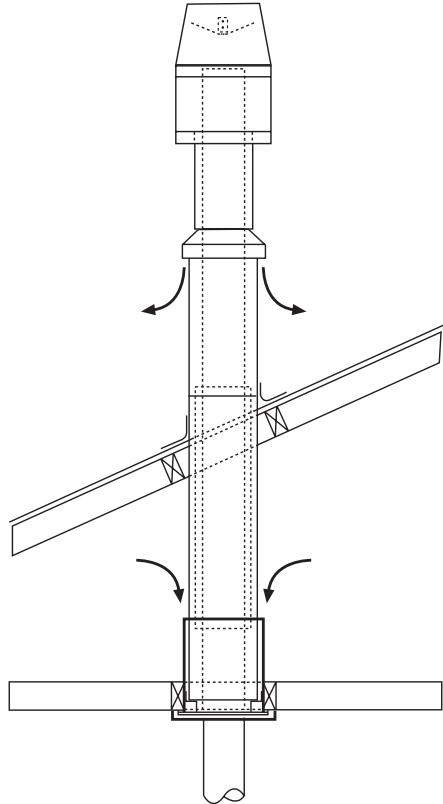
\*In accordance with AS/NZS2918:2001

## ECO Base Flue Kit & ECO Option Kit Component Checklist

Metro offers both the ECO Base Flue Kit, which is designed to be installed on its own and the ECO Option Kit which is designed to be installed in conjunction with the ECO Base Flue Kit. The specific application for each of these two options is detailed below.

**Metro ECO Base Flue Kit** - Metro ECO Base 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.

### ECO BASE FLUE KIT ASSEMBLED

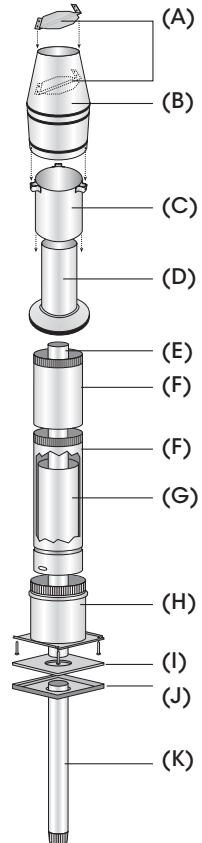


A vented ceiling cavity is required as the Base Kit draws its cooling air from the ceiling cavity.

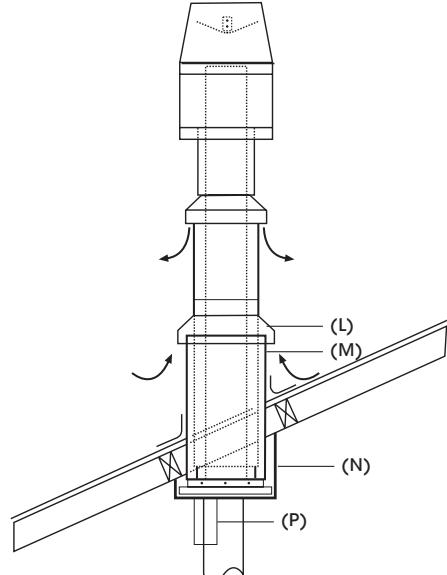
**Metro ECO Option Kits** - The Metro ECO Option Kit is designed to be "added to" the Metro ECO Base Flue Kit for installations that do not have a vented ceiling cavity and require the flue systems cooling air to be drawn in from above the roofline (outside the building).

### ECO BASE FLUE KIT COMPONENTS

- (A) 1 x Stainless steel weather butterfly
- (B) 1 x Stainless steel ECO cowl housing
- (C) 1 x 225mm x 200mm diameter stainless steel outer casing extension
- (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

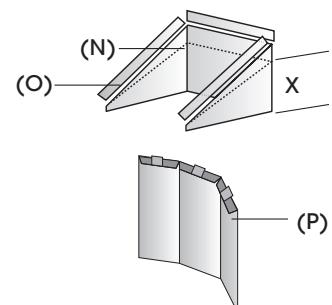
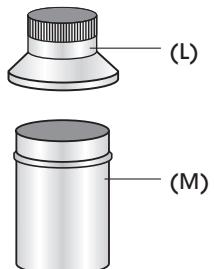


### ECO BASE FLUE KIT & ECO OPTION KIT ASSEMBLED



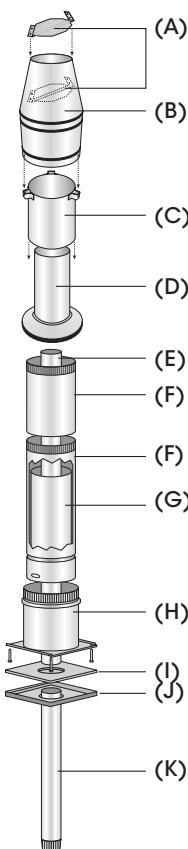
### ECO OPTION KIT COMPONENTS

- (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

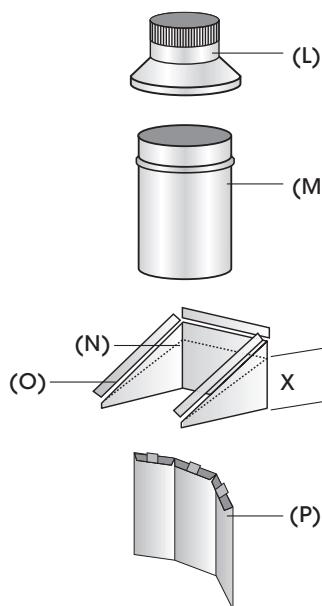


# ECO Base Flue Kit Installation Instructions

## ECO BASE FLUE KIT COMPONENTS



## ECO OPTION KIT COMPONENTS



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 brackets 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 swage 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).

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 nog's just fitted. To further improve the rigidity of the installation, nail through the 300mm diameter casing at 4 points into the timber nog's.
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

## ECO Base 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 vertical discharge 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 cowl housing (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.*

- Now fit the base of the cowl housing (B) over the brackets of the outer casing extension (C) ensuring the 3 x pre-punched holes punched in its lower skirt align centrally over the three brackets attached to the casing extension as illustrated. Push the cowl housing down fully until its internal swage rests on the casing extension brackets (the brackets should be "just but fully" inside the base of the cowl housing). Drill through the three pre-punched holes in the cowl housing through the three brackets and secure with stainless steel rivets.
- 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/flash 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

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 Base 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 nog's just fitted. To further improve the rigidity of the installation, nail through the 300mm diameter casing at 4 points into the timber nog's.

- **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.
- 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.

## Installation Instructions with ECO Option Kit - continued

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 swage of the outer casing.*

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 vertical discharge 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 cowl housing (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.*

- Now fit the base of the cowl housing (B) over the brackets of the outer casing extension (C) ensuring the 3 x pre-punched holes punched in its lower skirt align centrally over the three brackets attached to the casing extension as illustrated. Push the cowl housing down fully until its internal swage rests on the casing extension brackets (the brackets should be "just but fully" inside the base of the cowl housing). Drill through the three pre-punched holes in the cowl housing through the three brackets and secure with stainless steel rivets.
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.



### 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.

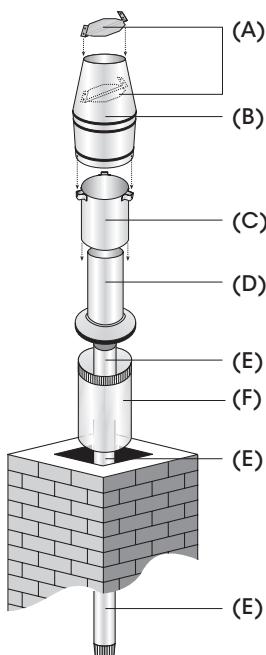
# ECO Insert Flue Kit Installation Instructions & Component Checklist

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

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

## ECO INSERT FLUE KIT COMPONENTS

- (A) 1 x Stainless steel weather butterfly
- (B) 1 x Stainless steel ECO cowl housing
- (C) 1 x 225mm x 200mm diameter stainless steel outer casing extension
- (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 system has been manufactured and complies with AS/NZS2918:2001. 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.

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 join. 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 vertical discharge 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 cowl housing (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.*

- Now fit the base of the cowl housing (B) over the brackets of the outer casing extension (C) ensuring the 3 x pre-punched holes punched in its lower skirt align centrally over the three brackets attached to the casing extension as illustrated. Push the cowl housing down fully until its internal swage rests on the casing extension brackets (the brackets should be "just but fully" inside the base of the cowl housing). Drill through the three pre-punched holes in the cowl housing through the three brackets and secure 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.

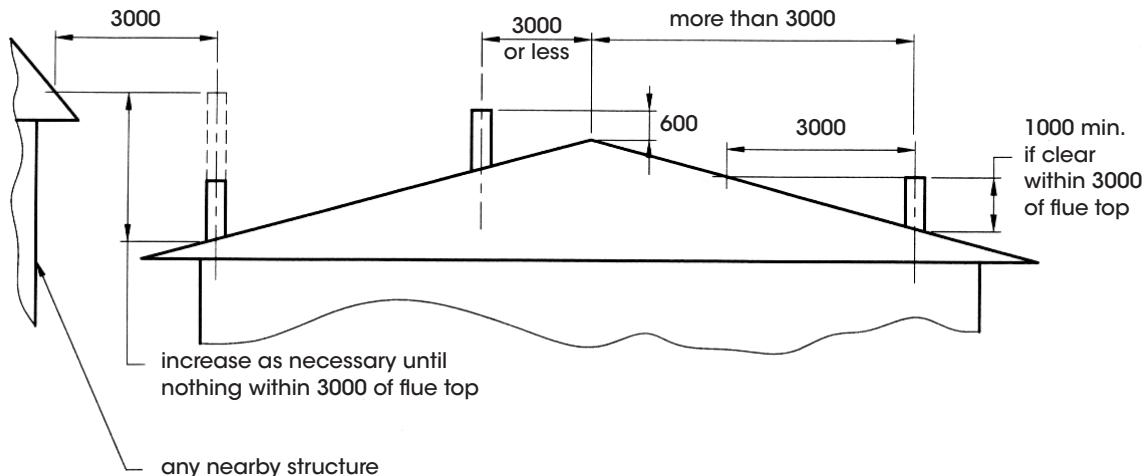
# Minimum Heights for all Metro Flue Systems In compliance with AS/NZS2918:2001

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

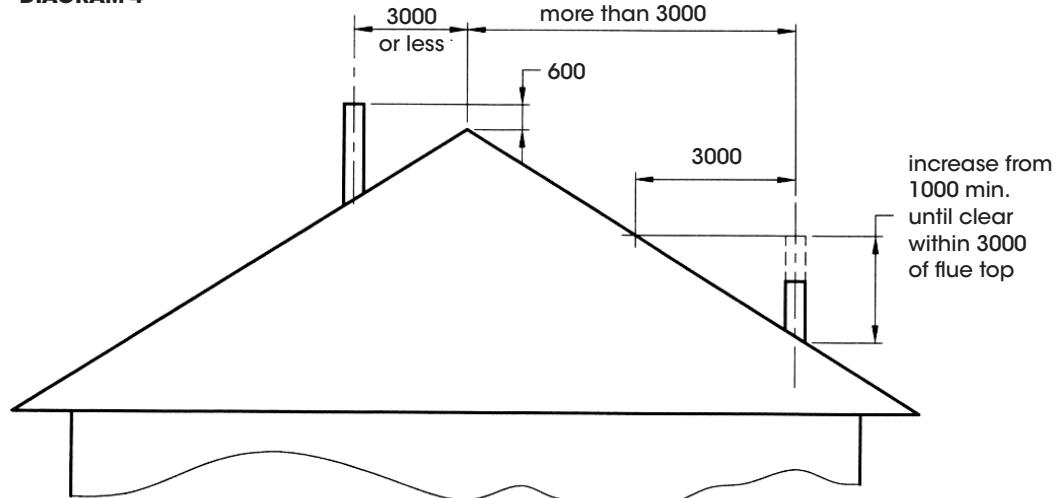
buildings will differ for every installation, some situations will require additional flue height to comply with the standard. Refer to Diagrams 3 and 4 below. (All measurements in mm)

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

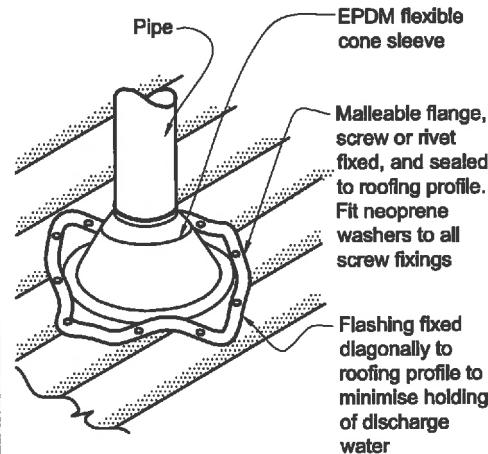
**DIAGRAM 3**



**DIAGRAM 4**



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

**NOTE:**

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

Amend 5  
Aug 2011

**Figure 54: Soaker flashing for pipe penetrations**  
Paragraph 8.4.17

Errata 2  
Dec 2011Amend 2  
Jul 2005

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

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

Lines of roof penetration

250 mm  
min.

Separate roofing  
sheet over

EPDM flexible boot flashing  
screw fixed and sealed to  
metal soaker flashing.  
Fit Neoprene washers  
under screws

Y  
- refer Table 7  
Y  
- refer Table 7  
X  
- refer Table 7

Amend 2  
Jul 2005Amend 5  
Aug 2011

Amend 5  
Feb 2004

Figure 15:

## Wet-back Installation – Open Vented System

Paragraph 6.13.1 a)

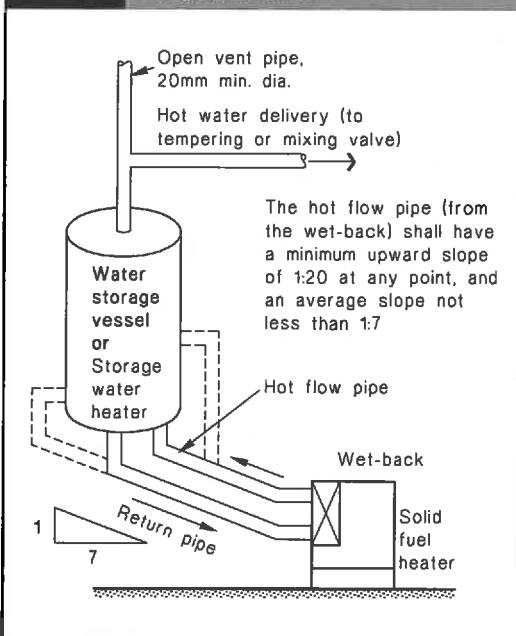
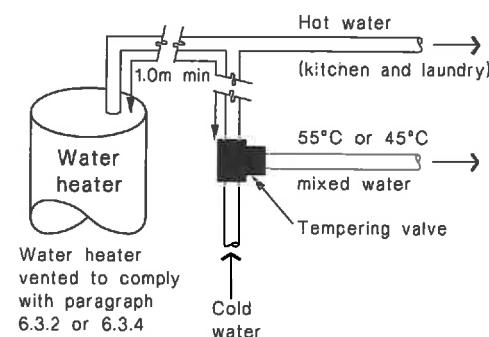


Figure 16:

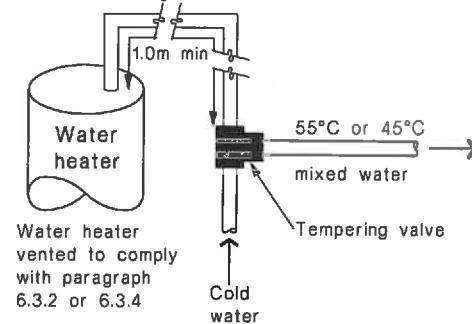
## Tempering Valve Installation

Paragraph 6.14.2 a)

Amend 5  
Feb 2004

## (a) With untempered water to laundry and kitchen fixtures and appliances

1.0m minimum copper pipe length from storage water heater



## (b) Where all hot water is tempered

Note:  
 1. For optimum system efficiency the tempering valve, for other than a mains pressure system, may be located as low as practicable to achieve the manufacturer's recommended head, at the tempering valve.

2. 1.0m minimum copper pipe length from storage water heater.

## 6.14 Safe water temperatures

## 6.14.1 Maximum temperatures

The delivered hot water temperature at any *sanitary fixture* used for personal hygiene shall not exceed:

- 45°C for early childhood centres, schools, old people's homes, institutions for people with psychiatric or physical disabilities, hospitals, and
- 55°C for all other *buildings*.

## COMMENT:

- At greatest risk from scalding are children, the elderly, and people with physical or intellectual disabilities, particularly those in institutional care.
- Sanitary fixtures* used for personal hygiene includes showers, baths, hand basins and bidets.

## 6.14.2 Hot water delivered from storage water heaters

- An acceptable method of limiting hot water temperature delivered from *storage water heaters* is to install a mixing device between the outlet of the *water heater* and the *sanitary fixture* (see Figure 16).

Amend 5  
Feb 2004

- Tempering valves shall comply with NZS 4617 or AS 1357.2.

## 6.14.3 Legionella bacteria

Irrespective of whether a mixing device is installed, the *storage water heater* control thermostat shall be set at a temperature of not less than 60°C to prevent the growth of Legionella bacteria.

Third Edition  
Dec 2007Amend 5  
Feb 2004



## Efficiency & Emissions Compliance Certificate

<b>Customer.</b>	<b>Pioneer Manufacturing Limited</b>
<b>Certification Date.</b>	Tuesday, 16 September 2014
<b>Appliance.</b>	Free Standing Wood burning fire Metro Wee Rad Base Wet
<b>Tested Standard.</b>	AS/NZS 4012:1999 AS/NZS 4013:1999
<b>Test Fuel.</b>	Soft Wood (Pinus Radiata)
<b>Configuration.</b>	Free Standing
<b>Thermal Efficiency.</b>	67% (as accepted under AS/NZS 4012:1999 Clause 8.5)
<b>Emissions Rate.</b>	<b>0.68g/kg</b> (as accepted under AS/NZS 4013:1999 Clause 9.2) or 50mg/MJ (in accordance with ECan AQL-2, Chapter 3)

### REPORT DETAILS:

<b>Prepared by.</b>	Mr. Suman Das
<b>Approved by.</b>	Mr. Poyang Chen
<b>Report Reference.</b>	#0286
<b>Release Date.</b>	Tuesday, 16 September 2014

*Laboratory opinion letter 16/09/2014 as per Spectrum Laboratories, P.Chen.*

## APPLICATION FOR CODE COMPLIANCE CERTIFICATE

### 1. What is the Building Consent? Complete this field

Building consent number:	170849
Issued by: (name of building consent authority)	Tasman District Council

### 2. Who owns the building? Complete all fields, using N/A if a field is not applicable

Owner name:	W & N Ching			Title: e.g. Mr, Mrs, Ms, Dr	Mr & Mrs	
Contact person:	Glen Carmody					
Owner mailing address:	210 Whitby Road, Wakefield, 7025					
Street address/registered office:	Same as above					
Owner email address:	nicole.ching@summit.co.nz					
Owner contact number:	027 462 2892					
Are you using an Agent?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	If Yes, please also complete the following:	
Who is the first point of contact for further correspondence?			<input checked="" type="checkbox"/>	Agent	<input type="checkbox"/>	Owner
Agent name:	Glen Carmody					
Agent email:	glencarmody@yahoo.co.nz					
Agent contact number:	027 354 3247					
Agent mailing address:	7A McCrae Street, Wakefield, 7025					

### 3. When was the building work completed? Complete this field

All building work to be carried out under the building consent specified on this form was completed on:	dd/mm/yyyy
	18/10/2017

### 4. Who completed the building work? Complete all fields on each line. You will need to complete one line for each building practitioner. Use a separate sheet if necessary.

The licensed building practitioner(s) who carried out/supervised the restricted building work is/are:

Name	Licensing class	LBP or registration number	Work carried out/supervised
Conrad Clements	Plumbing	23463	Carried out
Jo McDowell	Plumbing	10126	Carried out
Plumbing			

Name	Licensing class	LBP or registration number	Work carried out/ supervised

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

Name	Address	Contact number	Registration number
Glen George Carmody	7A McCrae St, Wakefield, 7025	027 354 3247	BP130183

Please list specified systems installed in the building or use N/A if this section is not applicable  N/A

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:


## 5. Declaration

I understand that this application may *only* be made with the owner's approval (tick to indicate agreement)

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:

<input checked="" type="checkbox"/> Owner	<input type="checkbox"/> Agent	<input type="checkbox"/> Owner address as per Section 2	<input type="checkbox"/> Agent address as per Section 2
Name:	Glen George Carmody		
Signature:			
Date:	18/10/2017		

You can add a digital signature to this document, either using Adobe or your existing digital signature.

Once you have filled out the form, including signatures, please save the application to your computer. You can then submit the application with supporting documentation to your local council.

If you are unsure about what information to include in your application, a guidance document is available ([click here](#)).



## COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952



### Search Copy

  
R.W. Muir  
Registrar-General  
of Land

**Identifier** NL120/53  
**Land Registration District** Nelson  
**Date Issued** 24 July 1953

#### Prior References

NL119/187

**Estate** Fee Simple

**Area** 1012 square metres more or less

**Legal Description** Lot 3 Deposited Plan 4792

#### Proprietors

William Leo Ching and Nicole Ellen Dabinette

#### Interests

K2794 Building Line Restriction - 21.1.1953 at 10.00 am

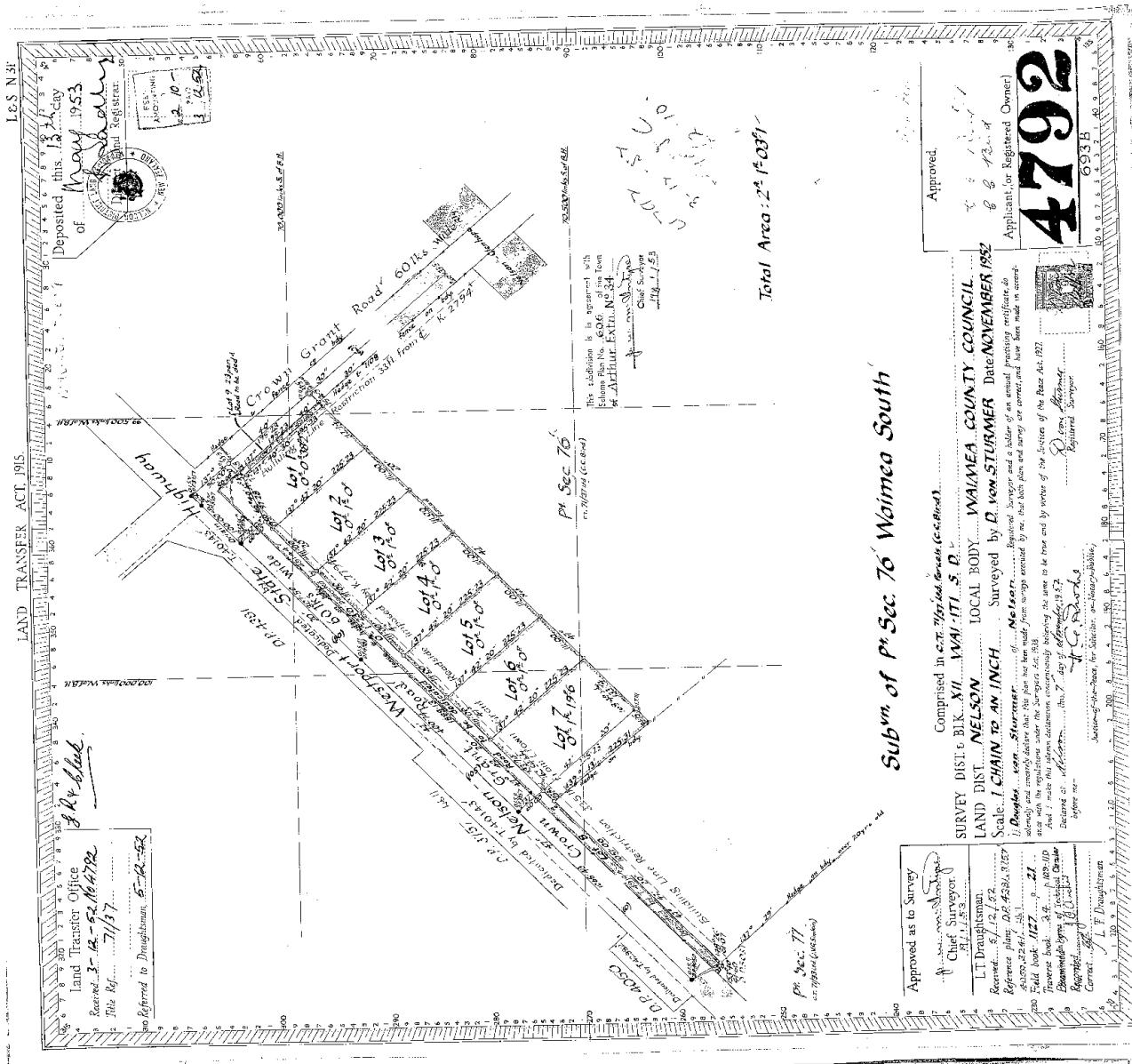
Fencing Agreement in Transfer 49472 - 24.7.1953

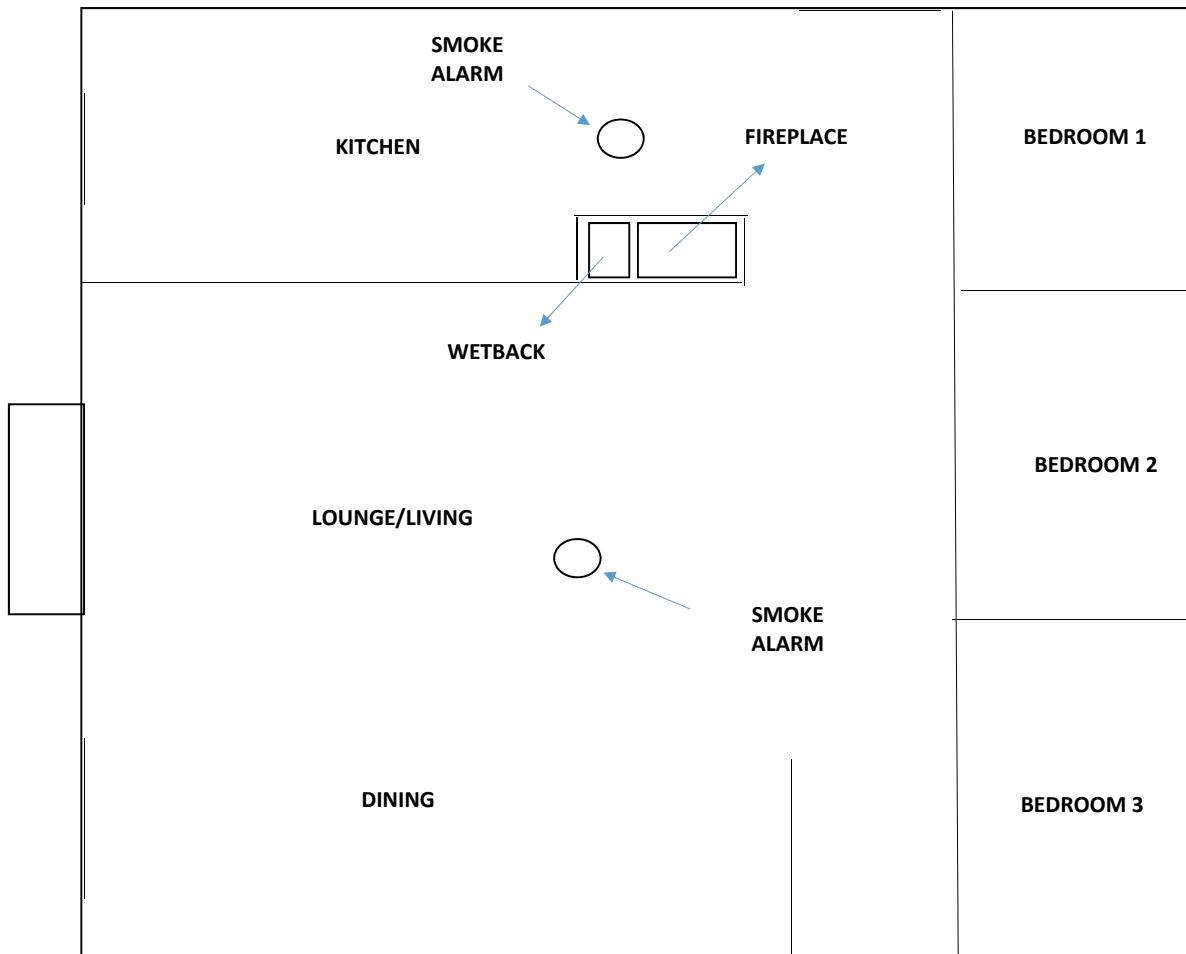
172338.1 Gazette Notice declaring adjoining road to be a limited access road - 26.5.1976 at 2.20 pm

9290150.3 Mortgage to ASB Bank Limited - 1.3.2013 at 1:44 pm

## Identifier

NL120/53





Tasman District Council <b>BUILDING CONSENT AUTHORITY</b> <b>APPROVED DRAWINGS</b>	
Consent Number BC	170849
Signed .....	
Date .....	15/08/2017
ALL WORK IS TO COMPLY WITH THE NZ BUILDING CODE DO NOT MAKE CHANGES WITHOUT PRIOR APPROVAL	