

# BUILDING CONSENT AUTHORITY BC CIRCULATION SHEET

OWNER: Hobson  
 AGENT: Energy

CONSENT NO: 120063  
 COMPLEXITY: R1

|                | PLANNING REVIEW COMPLETE | BUILDING CONSENT ON HOLD FOR F.I. | BUILDING CONSENT OK TO ISSUE | BUILDING CONSENT REFUSED | AUDIT    | FORMALLY RECEIVED DATE |
|----------------|--------------------------|-----------------------------------|------------------------------|--------------------------|----------|------------------------|
| DEADLINE DATE  |                          |                                   | <u>07/02/12</u>              |                          | <u>1</u> | <u>19/01/12</u>        |
| INITIAL & DATE |                          |                                   | <u>20/01/12</u>              |                          |          |                        |

TYPE OF WORK (Intended use): Solid Fuel Heater

| AREA/ROOM: | LEVEL: | PURPOSE GROUP: | FHC: | OCCUPANT LOAD: | INFORMATION FROM: |
|------------|--------|----------------|------|----------------|-------------------|
|            |        |                |      |                |                   |
|            |        |                |      |                |                   |
|            |        |                |      |                |                   |

|                          | INITIAL   | & | DATE            |
|--------------------------|-----------|---|-----------------|
| PREVIEWED BY:            | <u>AC</u> |   | <u>18/01/12</u> |
| LOADED BY:               | <u>AC</u> |   | <u>19/01/12</u> |
| BC PROCESSED BY:         | <u>RH</u> |   | <u>20/01/12</u> |
| BC COPIED & COMPILED BY: | <u>TD</u> |   | <u>30/1/12</u>  |

| ATTACHMENTS TO BE INCLUDED: | THIS PROJECT REQUIRES A COMPLIANCE SCHEDULE: YES / NO<br>EXISTING / NEW |
|-----------------------------|-------------------------------------------------------------------------|
|                             | COMPLIANCE SCHEDULE NO:                                                 |
|                             | COMPLIANCE SCHEDULE SYSTEMS / FEATURES LIST:                            |
|                             | TECHNICAL & COMPLIANCE CONSULTATION:                                    |

## COPY OF DOCUMENTS SENT TO OTHER AGENCIES FOR ASSESSMENT

| AGENCY                  | PEER REVIEW OR ASSESSMENT OF: | DATE SENT: | DATE RECEIVED: | COSTS ADD TO CHARGE SHEET: |
|-------------------------|-------------------------------|------------|----------------|----------------------------|
| NZ FIRE SERVICE         |                               |            |                |                            |
| FOOD & HEALTH STANDARDS |                               |            |                |                            |
| TRUSS DESIGN            | TRUSS DESIGN ACKNOWLEDGEMENT  |            |                |                            |
| HAZARDOUS SUBSTANCES    |                               |            |                |                            |
|                         |                               |            |                |                            |
|                         |                               |            |                |                            |
|                         |                               |            |                |                            |

CHECKSHEET, FURTHER INFORMATION & FILE NOTES TO BE ATTACHED TO THIS PAGE.



## Solid Fuel Heater (Wet/Dry) Processing Sheet

| Property File Information Considered:                                         |                  |           |     |                        | YES / NO                                                                              |
|-------------------------------------------------------------------------------|------------------|-----------|-----|------------------------|---------------------------------------------------------------------------------------|
| PIM Information Considered:                                                   |                  |           |     |                        | YES / NO                                                                              |
| EQ:                                                                           |                  | SNOW:     |     | WIND:                  | CORROSION:                                                                            |
| GROUND:                                                                       |                  | ALTITUDE: |     |                        |                                                                                       |
|                                                                               |                  |           |     |                        | BC No. 120063                                                                         |
| Clause                                                                        | Non<br>Compliant | Compliant | N/A | Means of<br>compliance | Comment                                                                               |
| <b>Building Act 2004 Sections</b>                                             |                  |           |     |                        |                                                                                       |
| 28 Cases Involving Bans                                                       |                  |           | ✓   |                        |                                                                                       |
| 46(3) NZ Fire Service Commission                                              |                  |           | ✓   |                        |                                                                                       |
| 67 Waivers or Modifications                                                   |                  |           | ✓   |                        |                                                                                       |
| 71-74 Building on Land Subject to Natural Hazards                             |                  |           | ✓   |                        |                                                                                       |
| 75 Building on Two or More Allotments                                         |                  |           | ✓   |                        |                                                                                       |
| 112 Alterations to Existing Buildings                                         |                  |           | ✓   |                        | ce & ft assessed below & for accessible facilities are not assessed for this project. |
| 113 Specified intended life                                                   |                  | ✓         | ✓   |                        | 150 years.                                                                            |
| 114 Change of use                                                             |                  |           | ✓   |                        |                                                                                       |
| 118 Access & Facilities for persons with disabilities to and within Buildings |                  |           | ✓   |                        |                                                                                       |
| <b>New Zealand Building Code Handbook</b>                                     |                  |           |     |                        |                                                                                       |
| <b>A1 Classified Use</b>                                                      |                  | ✓         |     | NZBC                   | housing - detached dwelling.                                                          |
| <b>B1 Structure</b>                                                           |                  | ✓         |     | AS/NZS 2918:2001       |                                                                                       |
| Solid Fuel Heater                                                             |                  | ✓         |     |                        | Metro wee rad.                                                                        |
| Hearth/Slab                                                                   |                  | ✓         |     |                        | Ash floor protector / seismic restraint supplied                                      |
| Chimney                                                                       |                  | ✓         |     |                        | Stainless steel flue system provided                                                  |
| <b>B2 Durability</b>                                                          |                  | ✓         |     | AS1                    |                                                                                       |
| Durability applications                                                       |                  | ✓         |     |                        | 15 years for flue system<br>5 " " fire box                                            |
| Generic materials                                                             |                  | ✓         |     |                        | Stainless steel / Deklite Soaker flashing                                             |
| <b>C1 Outbreak of Fire</b>                                                    |                  | ✓         |     | AS1                    |                                                                                       |
| Heat transfer                                                                 |                  | ✓         |     |                        | As per manufact. specifications                                                       |
| <b>C2 Means of Escape</b>                                                     |                  | ✓         |     | AS1                    |                                                                                       |
| Escape Path Lengths.(24m max)                                                 |                  | ✓         |     |                        | As overview of prop file records, less than 24m.                                      |
| <b>C3 Spread of Fire</b>                                                      |                  |           | ✓   |                        |                                                                                       |
| <b>C4 Structural...</b>                                                       |                  |           | ✓   |                        |                                                                                       |
| <b>D1 Access Routes</b>                                                       |                  |           | ✓   |                        |                                                                                       |
| <b>D2 Mechanical...</b>                                                       |                  |           | ✓   |                        |                                                                                       |
| <b>E1 Surface Water</b>                                                       |                  |           | ✓   |                        |                                                                                       |

*Note: Spoke with agent Robert Copeland (03-341 1338) re-draws pg-35 & he stated it was fully tested & complied. The gap of 25mm. between liner & timber does not show but in flue system it shows. RTH 20.1.12 An.*



|                                    |  |   |   |     |                                                    |
|------------------------------------|--|---|---|-----|----------------------------------------------------|
| E2 External Moisture               |  | / |   | ASI |                                                    |
| Chimney flashings                  |  | / |   |     | DeKtite Soaker flashing                            |
| E3 Internal Moisture               |  |   | / |     |                                                    |
| F1 Haz Agents                      |  |   | / |     |                                                    |
| F2 Haz Bldg Materials              |  |   | / |     |                                                    |
| F3 Haz Substances                  |  |   | / |     |                                                    |
| F4 Safety from...                  |  |   | / |     |                                                    |
| F5 Construction                    |  |   |   |     |                                                    |
| F6 Visibility in escape routes     |  |   | / |     |                                                    |
| F7 Warning Systems                 |  | / |   | ASI | Smoke alarm within 3m. of bedrooms & escape route. |
| Location                           |  | / |   |     |                                                    |
| F8 Signs                           |  |   | / |     |                                                    |
| G1 Personal Hygiene                |  |   | / |     |                                                    |
| G2 Laundering                      |  |   | / |     |                                                    |
| G3 Food Prep...                    |  |   | / |     |                                                    |
| G4 Ventilation                     |  |   | / |     |                                                    |
| G5 Interior... Temperature Control |  | / |   |     | Install as per manufact. specifications            |
| G6 Airborne...                     |  |   | / |     |                                                    |
| G7 Natural Light                   |  |   | / |     |                                                    |
| G8 Artificial Light                |  |   | / |     |                                                    |
| G9 Electricity                     |  |   | / |     |                                                    |
| G10 Piped Services                 |  |   | / |     |                                                    |
| G11 Gas...                         |  |   | / |     |                                                    |
| G12 Water Supply (Wet Back)        |  |   | / |     | Dry installed.                                     |
| Requirements for hot water system  |  |   |   |     |                                                    |
| Materials and installation         |  |   |   |     |                                                    |
| G13 Foul Water                     |  |   | / |     |                                                    |
| G14 Industrial                     |  |   | / |     |                                                    |
| G15 Solid Waste                    |  |   | / |     |                                                    |
| H1 Energy Efficiency (Wet Back)    |  |   | / |     |                                                    |
| Insulation Wet back                |  |   |   |     |                                                    |
| Hot water system                   |  |   |   |     |                                                    |

Any additional comments should be recorded on the Additional Comments form (T-03 - PS-07), which complements the T-03 PS series of processing sheets. Sufficient detail must be given on the Additional Comments form to enable cross-reference between this processing sheet and the additional comment provided, including the date, building consent number and clause item referred to.

If extra pages are used to record additional comments, state the number of extra pages here: NIL

Ok to proceed with further information requested

signed: ..... / /

Ok to proceed with issuing building consent

signed: ..... / /

~~Reviewed~~ / Supervision

signed: ..... 29/1/12

## Amanda-Jane Chinnery

---

**From:** robert.copeland@eenergy.co.nz  
**Sent:** Wednesday, 18 January 2012 12:13 p.m.  
**To:** Amanda-Jane Chinnery  
**Subject:** Fw: Consent for Houston - 8 O'Connells Street, Southbridge  
**Attachments:** ECO Freestanding Manual.pdf; Freestanding Flue Kit STD.pdf

Hi Amanda,

Sorry about the clarity of information, please find details below and my colleague will drop the cheque in tonight.

Kind Regards

Robert Copeland

- The Model of fire to be installed. Metro Eco Wee Rad (DRY)
- Ecan Approval number. 092977
- Flue installation and Liners and Ceiling Plate (should be able to zoom in on the detail)

Robert Copeland  
1 Opawa Road  
Waltham  
Christchurch  
03 341 1338  
[www.eenergy.co.nz](http://www.eenergy.co.nz)



----- Forwarded by Andrew Wilson/eenergy on 18/01/2012 11:42 a.m. -----

**From:** Amanda-Jane Chinnery <[Amanda.Chinnery@selwyn.govt.nz](mailto:Amanda.Chinnery@selwyn.govt.nz)>  
**To:** "'info@eenergy.co.nz'" <[info@eenergy.co.nz](mailto:info@eenergy.co.nz)>  
**Date:** 18/01/2012 11:39 a.m.  
**Subject:** Consent for Houston - 8 O'Connells Street, Southbridge

---

Hi,

We have received an application for a consent for 8 O'Connells Street, Southbridge (Houston). This application is missing a few items.

- The Model of fire to be installed.
- Ecan Approval number.
- Flue installation (the one supplied not legible).
- Liners and Ceiling Plate (the one supplied not legible).
- The cheque was made out for \$215.00, we require \$350.00 for a freestanding Solid Fuel Heater. Balance of





\$135.00 still outstanding.

Can you please send through these above documents to [bca@selwyn.govt.nz](mailto:bca@selwyn.govt.nz) or via mail to PO Box 90, Rolleston 7643.

Unfortunately if we have not received these documents by the end of the week I will have to return the application to you for completion.

Kind Regards

***Amanda-Jane Chinnery***

Customer Services Officer Building

Ph : 03 347 2839

DDI : 03 347 2835

**Selwyn District Council, 2 Norman Kirk Drive, Rolleston 7614; Post: PO Box 90, Rolleston 7643, Christchurch**

Phone: (03) 347-2800 or (03) 318-8338, Fax: (03) 347-2799

[www.selwyn.govt.nz](http://www.selwyn.govt.nz) | [m.selwyn.govt.nz](mailto:m.selwyn.govt.nz) | [www.selwynlibrary.co.nz](http://www.selwynlibrary.co.nz)

## Amanda-Jane Chinnery

---

**From:** Amanda-Jane Chinnery  
**Sent:** Wednesday, 18 January 2012 11:38 a.m.  
**To:** 'info@eenergy.co.nz'  
**Subject:** Consent for Houston - 8 O'Connells Street, ~~5~~ **uthbridge**

Hi,

We have received an application for a consent for 8 O'Connells Street, ~~5~~ **uthbridge** (Houston). This application is missing a few items.

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Kind Regards

*Amanda-Jane Chinnery*

Customer Services Officer Building  
Ph : 03 347 2839  
DDI : 03 347 2835

## Amanda-Jane Chinnery

---

**From:** Amanda-Jane Chinnery  
**Sent:** Wednesday, 18 January 2012 1:08 p.m.  
**To:** 'robert.copeland@eenergy.co.nz'  
**Subject:** RE: Consent for Houston - 8 O'Connells Street, Southbridge

Hi Robert,

The section within the Davin report is still not clear, particularly the flue height section and ceiling . Can you please find a clearer copy and send it though  
Kind Regards.

*Amanda-Jane Chinnery*

Customer Services Officer Building  
Ph : 03 347 2839  
DDI : 03 347 2835

**From:** [robert.copeland@eenergy.co.nz](mailto:robert.copeland@eenergy.co.nz) [mailto:[robert.copeland@eenergy.co.nz](mailto:robert.copeland@eenergy.co.nz)]  
**Sent:** Wednesday, 18 January 2012 12:13 p.m.  
**To:** Amanda-Jane Chinnery  
**Subject:** Fw: Consent for Houston - 8 O'Connells Street, Southbridge

Hi Amanda,

Sorry about the clarity of information, please find details below and my colleague will drop the cheque in tonight.

Kind Regards

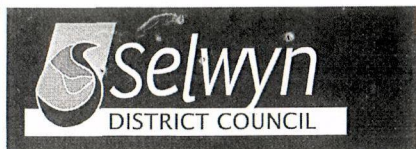
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Robert Copeland  
1 Opawa Road  
Waltham  
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03 341 1338  
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Residential PIM / Building Consent  
Application Checklist Form 2 (R)  
(in conjunction with Form 2)

PROJECT NO:

120003

COMPLEXITY:

R1

DATE RECEIVED:

18/01/12

Project address: 8 O'Connells Street, Southbridge

NB: The following is required on application in sufficient detail to show compliance with aspects of the District Plan and the New Zealand Building Code. Please complete this checklist in FULL.

Additional information may be requested during processing of the application.

Supplied

N/A

Council

PIM

Application Form 2: COMPLETED and signed (ensure mandatory fields are completed)

Plans and specifications:

- 2 copies of plans and specifications
- 3 copies of relevant plans and specifications for amendments
- PIM only - 1 copy only of: Site plan, floor plan and elevations

Application fee: (GST Incl)

- \$ 200.00 for PIM only (additional \$15.00 for title search if required)

Deposit:

- \$1,200.00 (combined PIM and Building Consent application)
- \$1,000.00 for projects over \$15,000.00
- \$ 200.00 for amendment

Fixed fees: - (to be paid at time of lodgement)

- \$ 350.00 for Solid Fuel Heater freestanding (1 inspection only)
- \$ 500.00 for Solid Fuel Heater inbuilt (2 inspections only)
- \$ 550.00 minor works up to \$5,000.00 (e.g. solar water, sewer connection, demolition, minor alterations - 1 inspection only and no PIM) (additional \$15.00 for title search if required)
- \$ 680.00 minor works between \$5,000.00 - \$15,000.00 (e.g. farm buildings, garages, decks - 2 inspections only and no PIM) (additional \$15.00 for title search if required)

Fixed fees: If the amount of staff time allocated is exceeded by more than 30%, the excess time and cost will be charged.

Certificate of Title:

- Recent search copy less than 6 months old, or a sale and purchase agreement if title is not in the applicant's name. A subdivision scheme plan is required for a new site where title is not yet available (if searched by SDC, a \$15.00 title search charge will apply)

Site Plan: - showing:

- All new and existing buildings and swimming pools in relation to all buildings and boundaries
- Legal and notional boundaries (existing and proposed), easements, waterways, shared access ways / other areas with building setbacks dimensioned
- Any heritage buildings / trees or archaeological site information known
- Building and site areas (including floor areas (m<sup>2</sup>) for all floors)
- Vehicle access, crossing location, manoeuvre, parking area
- Any hard-standing (sealed or concrete) areas with proposed drainage
- Any significant trees on the site

Outline Floor plans (for all floors)

Outline Elevations

Outline Cross Sections: (if required to show recession plane / daylight plane and height compliance)

----- STOP HERE IF THIS IS A PIM ONLY APPLICATION -----

SEE PAGE 2 FOR BUILDING CONSENT  
(in addition to the above application information)

For BCA Use only: (Please complete if PIM only, otherwise BCA staff to sign page 2)

This application is accepted / declined as all relevant information has / has not been supplied

Signed: \_\_\_\_\_

Name: \_\_\_\_\_

10/22/20  
4

2. O'Connell Street - Southbridge

✓  
10/22/20  
- 1st of Oct. 11  
12:00 PM

10/22/20





----- Forwarded by Andrew Wilson/eenergy on 18/01/2012 11:42 a.m. -----

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To: "info@eenergy.co.nz" <info@eenergy.co.nz>  
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***Amanda-Jane Chinnery***

Customer Services Officer Building  
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**Selwyn District Council, 2 Norman Kirk Drive, Rolleston 7614; Post: PO Box 90, Rolleston 7643, Christchurch**

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**BUILDING CONSENT**  
(in addition to the above application information)

|                                                                                                                                                                                                                                                                                                                                                                                                                                    | Supplied | N/A | Council        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------|
| <b>Project Information Memorandum</b> (if already issued) plus all attached forms                                                                                                                                                                                                                                                                                                                                                  |          | ↑   |                |
| <b>Building Code Assessment</b> showing means of compliance, e.g. AS1, AS2, Alternative solution                                                                                                                                                                                                                                                                                                                                   |          |     |                |
| <b>Fully Detailed Foundation Plans</b>                                                                                                                                                                                                                                                                                                                                                                                             |          |     |                |
| <b>Levels</b> <ul style="list-style-type: none"> <li>proposed &amp; existing site levels</li> <li>existing &amp; proposed contours</li> <li>drive gradients and pedestrian access</li> <li>floor levels and finished paving levels</li> </ul>                                                                                                                                                                                      |          |     |                |
| <b>Drainage Plans:</b> full design details for both foul water and storm water to approved outfalls                                                                                                                                                                                                                                                                                                                                |          |     |                |
| <b>Detailed Floor Plans</b> drawn to scale, fully dimensioned and annotated <b>showing</b> location of smoke alarms with rooms identified                                                                                                                                                                                                                                                                                          |          |     |                |
| <b>Detailed Elevations</b> including door and windows showing opening sashes                                                                                                                                                                                                                                                                                                                                                       |          |     |                |
| <b>Hazardous Substances:</b> storage location and capacity (ie LPG, diesel, home heating oil etc)                                                                                                                                                                                                                                                                                                                                  |          |     |                |
| <b>Cross Sections:</b> show <b>all</b> relevant construction details, particularly for complex sections of the construction                                                                                                                                                                                                                                                                                                        |          |     |                |
| <b>Timber Treatment:</b> the species, grading and treatment of <b>all</b> timber specific to the project is to be <b>specified on the drawings</b> , ideally on the cross section, in addition to any specification references                                                                                                                                                                                                     |          |     |                |
| <b>Insulation:</b> R-values on drawings, method of compliance identified (Schedule / Calculation / Modelling)                                                                                                                                                                                                                                                                                                                      |          |     |                |
| <b>Electrical Plan</b> showing all lighting and electrical outlets including fitting types                                                                                                                                                                                                                                                                                                                                         |          |     |                |
| <b>Framing Details</b> including floor joist layout plans if applicable                                                                                                                                                                                                                                                                                                                                                            |          |     |                |
| <b>Construction Details</b> with <b>all</b> materials, fixings etc noted                                                                                                                                                                                                                                                                                                                                                           |          |     |                |
| <b>Weathertightness Details</b> including a risk assessment matrix for <b>all</b> walls and flashings                                                                                                                                                                                                                                                                                                                              |          |     |                |
| <b>Internal Waterproofing Details</b> including <b>all</b> wet areas and surface finishes                                                                                                                                                                                                                                                                                                                                          |          |     |                |
| <b>Plumbing Details</b> including layout plan with full schematics of water supply, including HWC location, valving and all associated systems connected to the HWC (e.g. solar, wetback etc.) plus water supply details                                                                                                                                                                                                           |          |     |                |
| <b>Specifications:</b> Information limited to and relevant to the project only                                                                                                                                                                                                                                                                                                                                                     |          |     |                |
| <b>Bracing Design:</b> calculations, schedule and layout plans showing specific locations in building                                                                                                                                                                                                                                                                                                                              |          |     |                |
| <b>Roof Truss Design</b> including layout plan, all fixings and specific design for lintels where required                                                                                                                                                                                                                                                                                                                         |          |     |                |
| <b>Ground Conditions report:</b> this will be either a report to verify that the ground is "good ground" according to the Building Code, or a specific ground assessment and foundation design by a Chartered engineer or qualified Geotechnical Engineer                                                                                                                                                                          |          |     |                |
| <b>Engineers Details and Design Calculations:</b> where any specific design has been carried out (e.g. steel beams)                                                                                                                                                                                                                                                                                                                |          | ↓   |                |
| <b>Approvals from Other Authorities:</b> Approvals for discharges to land, air, or water from ECAN 092977                                                                                                                                                                                                                                                                                                                          |          |     | X 18/01        |
| <b>Heating Appliance</b> <i>Metro Wee Rad. (Dry)</i> <ul style="list-style-type: none"> <li>floor plan (as above) ✓</li> <li>installation details including clearances, hold down details, flue installation, flue height (approx) and flashing type ✓ <i>18/01</i></li> <li>ceiling type – flat or sloping X</li> <li>plumbing schematic for wetback installation and location of hot water cylinder (if applicable) ✓</li> </ul> |          |     | ✓ <i>18/01</i> |
| <b>Solar Water Heating:</b> product specifications, elevations, plumbing schematic floor plan (as above)                                                                                                                                                                                                                                                                                                                           |          | ↑   |                |
| <b>Swimming/Spa Pool:</b> site plan (as above), details of construction, fencing, gate latch and opening, backflow, discharge of pool water, hydrostatic relief valve (if applicable)                                                                                                                                                                                                                                              |          | ↓   |                |

**For BCA Use Only:**

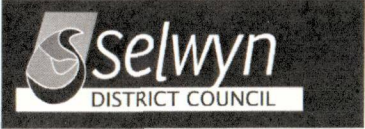
This application is accepted / declined as all relevant information has / has not been supplied

- Name: A. Chimey Signed: [Signature]

- Supervised by (if applicable): Name: \_\_\_\_\_ Signed: \_\_\_\_\_



See Attached.

|                                                                                   |                                                                                                                |                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------|
|  | <b>Residential PIM / Building Consent<br/>Application Checklist Form 2 (R)</b><br>(in conjunction with Form 2) | PROJECT NO:    |
|                                                                                   |                                                                                                                | COMPLEXITY:    |
|                                                                                   |                                                                                                                | DATE RECEIVED: |

Project address: 8 O'Connell's Street, Southbridge.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |     |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|---------|
| <b>NB: The following is required on application in sufficient detail to show compliance with aspects of the District Plan and the New Zealand Building Code. Please complete this checklist in FULL.</b><br><br>Additional information may be requested during processing of the application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Supplied | N/A | Council |
| <b>PIM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |     |         |
| <b>Application Form 2: COMPLETED</b> and signed (ensure mandatory fields are completed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |     |         |
| <b>Plans and specifications:</b> <ul style="list-style-type: none"> <li>2 copies of plans and specifications</li> <li>3 copies of relevant plans and specifications for amendments</li> <li>PIM only - 1 copy only of: Site plan, floor plan and elevations</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |     |         |
| <b>Application fee:</b> (GST Incl) <ul style="list-style-type: none"> <li>\$ 200.00 for PIM only (additional \$15.00 for title search if required)</li> </ul> <b>Deposit:</b> <ul style="list-style-type: none"> <li>\$1,200.00 (combined PIM and Building Consent application)</li> <li>\$1,000.00 for projects over \$15,000.00</li> <li>\$ 200.00 for amendment</li> </ul> <b>Fixed fees: - (to be paid at time of lodgement)</b> <ul style="list-style-type: none"> <li>\$ 350.00 for Solid Fuel Heater freestanding (1 inspection only)</li> <li>\$ 500.00 for Solid Fuel Heater inbuilt (2 inspections only)</li> <li>\$ 550.00 minor works up to \$5,000.00 (e.g. solar water, sewer connection, demolition, minor alterations - 1 inspection only and no PIM) (additional \$15.00 for title search if required)</li> <li>\$ 680.00 minor works between \$5,000.00 - \$15,000.00 (e.g. farm buildings, garages, decks - 2 inspections only and no PIM) (additional \$15.00 for title search if required)</li> </ul> <i>Fixed fees: If the amount of staff time allocated is exceeded by more than 30%, the excess time and cost will be charged.</i> |          |     |         |
| <b>Certificate of Title:</b> <ul style="list-style-type: none"> <li>Recent search copy less than 6 months old, or a sale and purchase agreement if title is not in the applicant's name. A subdivision scheme plan is required for a new site where title is not yet available (if searched by SDC, a \$15.00 title search charge will apply)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |     |         |
| <b>Site Plan: – showing:</b> <ul style="list-style-type: none"> <li>All new and existing buildings and swimming pools in relation to all buildings and boundaries</li> <li>Legal and notional boundaries (existing and proposed), easements, waterways, shared access ways / other areas with building setbacks dimensioned</li> <li>Any heritage buildings / trees or archaeological site information known</li> <li>Building and site areas (including floor areas (m<sup>2</sup>) for all floors)</li> <li>Vehicle access, crossing location, manoeuvre, parking area</li> <li>Any hard-standing (sealed or concrete) areas with proposed drainage</li> <li>Any significant trees on the site</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |     |         |
| <b>Outline Floor plans (for all floors)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |     |         |
| <b>Outline Elevations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |     |         |
| <b>Outline Cross Sections:</b> (if required to show recession plane / daylight plane and height compliance)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |     |         |

----- STOP HERE IF THIS IS A PIM ONLY APPLICATION -----

SEE PAGE 2 FOR BUILDING CONSENT

(in addition to the above application information)

For BCA Use only: (Please complete if PIM only, otherwise BCA staff to sign page 2)

This application is accepted / declined as all relevant information has / has not been supplied

Signed: \_\_\_\_\_ Name: \_\_\_\_\_

OLD ONE



| <b>BUILDING CONSENT</b><br>(in addition to the above application information)                                                                                                                                                                                                                                                                                                     | Supplied           | N/A | Council |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|---------|
| <b>Project Information Memorandum</b> (if already issued) plus all attached forms                                                                                                                                                                                                                                                                                                 |                    |     |         |
| <b>Building Code Assessment</b> showing means of compliance, e.g. AS1, AS2, Alternative solution                                                                                                                                                                                                                                                                                  |                    |     |         |
| <b>Fully Detailed Foundation Plans</b>                                                                                                                                                                                                                                                                                                                                            |                    |     |         |
| <b>Levels</b> <ul style="list-style-type: none"> <li>proposed &amp; existing site levels</li> <li>existing &amp; proposed contours</li> <li>drive gradients and pedestrian access</li> <li>floor levels and finished paving levels</li> </ul>                                                                                                                                     |                    |     |         |
| <b>Drainage Plans:</b> full design details for both foul water and storm water to approved outfalls                                                                                                                                                                                                                                                                               |                    |     |         |
| <b>Detailed Floor Plans</b> drawn to scale, fully dimensioned and annotated <b>showing</b> location of smoke alarms with rooms identified                                                                                                                                                                                                                                         | ✓                  |     |         |
| <b>Detailed Elevations</b> including door and windows showing opening sashes                                                                                                                                                                                                                                                                                                      |                    |     |         |
| <b>Hazardous Substances:</b> storage location and capacity (ie LPG, diesel, home heating oil etc)                                                                                                                                                                                                                                                                                 |                    |     |         |
| <b>Cross Sections:</b> show <b>all</b> relevant construction details, particularly for complex sections of the construction                                                                                                                                                                                                                                                       |                    |     |         |
| <b>Timber Treatment:</b> the species, grading and treatment of <b>all</b> timber specific to the project is to be <b>specified on the drawings</b> , ideally on the cross section, in addition to any specification references                                                                                                                                                    |                    |     |         |
| <b>Insulation:</b> R-values on drawings, method of compliance identified (Schedule / Calculation / Modelling)                                                                                                                                                                                                                                                                     |                    |     |         |
| <b>Electrical Plan</b> showing all lighting and electrical outlets including fitting types                                                                                                                                                                                                                                                                                        |                    |     |         |
| <b>Framing Details</b> including floor joist layout plans if applicable                                                                                                                                                                                                                                                                                                           |                    |     |         |
| <b>Construction Details</b> with <b>all</b> materials, fixings etc noted                                                                                                                                                                                                                                                                                                          |                    |     |         |
| <b>Weathertightness Details</b> including a risk assessment matrix for <b>all</b> walls and flashings                                                                                                                                                                                                                                                                             | ✓                  |     |         |
| <b>Internal Waterproofing Details</b> including <b>all</b> wet areas and surface finishes                                                                                                                                                                                                                                                                                         |                    |     |         |
| <b>Plumbing Details</b> including layout plan with full schematics of water supply, including HWC location, valving and all associated systems connected to the HWC (e.g. solar, wetback etc.) plus water supply details                                                                                                                                                          |                    |     |         |
| <b>Specifications:</b> Information limited to and relevant to the project only                                                                                                                                                                                                                                                                                                    |                    |     |         |
| <b>Bracing Design:</b> calculations, schedule and layout plans showing specific locations in building                                                                                                                                                                                                                                                                             |                    |     |         |
| <b>Roof Truss Design</b> including layout plan, all fixings and specific design for lintels where required                                                                                                                                                                                                                                                                        |                    |     |         |
| <b>Ground Conditions report:</b> this will be either a report to verify that the ground is "good ground" according to the Building Code, or a specific ground assessment and foundation design by a Chartered engineer or qualified Geotechnical Engineer                                                                                                                         |                    |     |         |
| <b>Engineers Details and Design Calculations:</b> where any specific design has been carried out (e.g. steel beams)                                                                                                                                                                                                                                                               |                    |     |         |
| <b>Approvals from Other Authorities:</b> Approvals for discharges to land, air, or water from ECAN                                                                                                                                                                                                                                                                                |                    |     |         |
| <b>Heating Appliance</b> <ul style="list-style-type: none"> <li>floor plan (as above)</li> <li>installation details including clearances, hold down details, flue installation, flue height (approx) and flashing type</li> <li>ceiling type – flat or sloping</li> <li>plumbing schematic for wetback installation and location of hot water cylinder (if applicable)</li> </ul> | ✓<br>✓<br>✓<br>N/A |     |         |
| <b>Solar Water Heating:</b> product specifications, elevations, plumbing schematic floor plan (as above )                                                                                                                                                                                                                                                                         |                    |     |         |
| <b>Swimming/Spa Pool:</b> site plan (as above), details of construction, fencing, gate latch and opening, backflow, discharge of pool water, hydrostatic relief valve (if applicable)                                                                                                                                                                                             |                    |     |         |

**For BCA Use Only:**

*This application is accepted / declined as all relevant information has / has not been supplied*

- Name: \_\_\_\_\_ Signed: \_\_\_\_\_

- Supervised by (if applicable): Name: \_\_\_\_\_ Signed: \_\_\_\_\_



**Building Consent****120063****Section 51, Building Act 2004**

|                             |                                     |
|-----------------------------|-------------------------------------|
| Street address of building: | 8 O'Connell Street, Southbridge     |
| Legal description:          | LOT 2 DP 55427 BLK I SOUTHBRIDGE SD |
| Valuation number:           | 2417018601                          |
| Rapid number:               |                                     |
| Building name:              |                                     |
| Building location on site:  |                                     |
| Level/unit number:          |                                     |

|                |                   |
|----------------|-------------------|
| Name of Owner: | G & T P A Houston |
|----------------|-------------------|

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| Applicant/Agent:                  | Eenergy                                   |
| Contact person:                   | Robert Copeland                           |
| Mailing address:                  | PO Box 11016, Sockburn, Christchurch 8443 |
| Street address/registered office: |                                           |
| Phone number:                     |                                           |
| Landline:                         | 029 770 0253                              |
| Mobile:                           | 03 341 1338                               |
| Daytime:                          |                                           |
| After hours:                      |                                           |
| Facsimile number:                 | 03 344 7493                               |
| Email address:                    | info@eenergy.co.nz                        |
| Website:                          |                                           |

The following building work is authorised by this building consent:

|                  |                                                                       |
|------------------|-----------------------------------------------------------------------|
| Description:     | Solid Fuel Heater                                                     |
| Intended Use:    | Installation of Metro Wee Rad Solid Fuel Heater - Freestanding - Dry. |
| Estimated Value: | \$4,000                                                               |

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 invalid unless work has commenced within 12 months from the date of issue (section 52 of Building Act 2004).**

**A Code Compliance Certificate must be applied for as soon as building work is completed (section 92 of Building Act 2004).**

Note:- Where conflict may occur between plan/specification information and/or any other specific instruction in application documentation, the applicant and/or designer is to note that the Schedule confirming the method of compliance with the NZ Building Code **will always be the prime default control for Council.**

Any amendment to this Approved Building Consent will require approval prior to the work being carried out. This will require an Amended Building Consent application to be made.

### **Booking Inspections**

1. The Building Consent Authority, is to be advised that the work is ready for inspection at least 1 clear working day before that inspection is required. Please note this may not guarantee an inspection at the desired time if an inspector is not available at that time.
2. All inspections are to be booked by phoning 03 347 2839 between the hours of 8:30am and 5:00pm.
3. The complete set of Approved Building Consent documents (including stamped plans and specifications) **MUST** be available on site for the Officer carrying out the inspection. No inspection will be undertaken if the approved documentation is not available.



**This building consent is subject to the following:-**

**Selwyn District Council Building Consent Authority Officers will carry out the following inspections:**

**Practical Completion**

Flue clearances, hearth and fire place fixing down.

Smoke alarm installation.

**Advice Notes:-**

**When the final inspection has been carried out and all building work approved, the Code Compliance Certificate can be applied for (The Code Compliance Certificate is invoiced separately with any additional costs if applicable).**

**Compliance schedule**

A compliance schedule is not required for this project.

**Attachments**

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

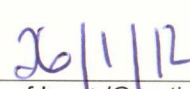
NIL

**Other Approvals Required**

The following other approvals/authorisations are required:

None known

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Date of Issue/Granting

Rosa Hemstra

\_\_\_\_\_  
Technical & Compliance  
Officer

On behalf of: Selwyn District Council

Eenergy  
 PO Box 11016  
 Sockburn  
 Christchurch 8443  
  
**Attn:** Robert Copeland

**GST Number:** 53-113-451  
**Invoice Date:** 26/01/12  
**Customer No:** BC120063

## Tax Invoice 16751

| Quantity | Description                                                                               | Rate | Amount   |
|----------|-------------------------------------------------------------------------------------------|------|----------|
|          | 120063 : 8 O'Connell Street, Southbridge<br>Solid Fuel Heater<br>Owner: G & T P A Houston |      |          |
|          | Administration/Processing/Inspections                                                     |      | 350.00 * |
|          |                                                                                           |      | \$350.00 |
|          | (* Incl GST \$45.65)                                                                      |      |          |
|          | Cash Received                                                                             |      | 350.00CR |

**Total incl. GST** \$0.00

Once we have received the balance of the fees owing on this  
 consent, it may then be uplifted or mailed as requested.  
 Building consent is not valid until fees are paid in full.

\*\* These levies are collected on behalf of these agencies \*\*

(Please detach and return this portion with your payment)

### REMITTANCE ADVICE

Eenergy  
 PO Box 11016  
 Sockburn  
 Christchurch 8443

**Customer No.:** BC120063  
**Invoice No.:** 16751  
**Total Due:** \$0.00

**Amount Enclosed:**

Payment can be made by internet banking to the following account: 03 1587 0050000 00.

Please enter your invoice number in the particulars field, and your customer number in the code field.





SCANNED

120117009



For Official use  
Project Number:

120063

Date Received:

18/01/12

# Application for Project Information Memorandum and/or Building Consent (Form 2) Section 33 or section 45, Building Act 2004

Items marked \* are mandatory for all applications. Complete this form in BLOCK CAPITALS using BLACK or BLUE ink.

## 1. Type of Application

I request that you issue a\*: ☐ Project Information Memorandum (PIM) only

(Tick one box only)

for the building work  
described in this  
application

☒ Building Consent only OR ☐ Amendment to Building Consent:

☐ Building Consent including PIM

☐ Exemption from the need for Building Consent (e.g Marquee. Refer Schedule 1 of BA04)

## 2. The Building

Valuation Roll Number:

24170-18601

Street Address\*:

8 O'Connell's street  
Southbridge.

Legal Description\*: Lot:

2

DP:

55427

Building Name (if applicable):

Number of Levels:

1

Level/Unit Number:

1

Number of Occupants\*:

2

Floor Area\* (all floors incl.):

Existing:

0.1608

m<sup>2</sup>

Additional:

0

m<sup>2</sup>

Current lawfully authorised use:

(refer NZBC A1 "Classified Use")

Approx year building first constructed:

(if an addition or alteration)

1970

## 3. The Owner [include preferred form of address, eg, Mr, Miss, Dr, if an individual]

Owner's Name\*:

Tracey Houston

Contact Person:  
(if owner is a company)

Tracey Houston

Mailing/  
Billing Address\*:

8 O'Connell's street  
Southbridge.

Street Address/  
Registered Office:

8 O'Connell's street  
Southbridge.

Phone Number:

03 324 2708

Cell Phone:

Fax:

e-mail:

website:

## 4. The Agent (if applicable) The Agent will be the first point of contact for communications with the Council / Building Consent Authority regarding this application / building work and will receive all correspondence including all invoices.

Agent's Name:

Eenergy Ltd

Contact Person:  
(if agent is a company)

Robert Copeland

Mailing/  
Billing Address:

Po Box 11-016  
Sackville  
Christchurch

Street Address/  
Registered Office:

1 Opawa Rd  
Waltham  
Christchurch

Phone Number:

03 341 1338

Cell Phone:

029 7700 253

Fax:

03 341 7493

e-mail:

info@eenergy.co.nz

website:

120063

FILE COPY



## 5. Fencing of Swimming Pools Act 1987

Is a Swimming Pool, or Spa Pool, on this Site or associated with this Project\*?

☐ YES

☒ NO

## 6. The Project

Description of the building work\*

Replacement of a solid fuel heater

Will the building work result in a change of use of the building? \*

☐ YES

☒ NO

Provide details of the new use:  
(Refer NZBC A1 Classified Uses)

Intended life of the building\*

N/A

☐ Indefinite but not less than 50 years,

OR

☐ Specified as:  Years (if less than 50 years)

List building consents (BC) previously issued for this project (if any):

BC Number:

Description:

Estimated value of the building work on which the building levy will be calculated\*

(including goods and services tax) [state estimated value as defined in section 7 of the Building Act 2004]

\$ 4000

## 7. Project Information Memorandum (Applicable only if applying for a PIM or combined PIM & Building Consent)

The following matters are involved in the project:

- ☐ Subdivision
- ☐ Alterations to land contours
- ☐ New or altered connections to public utilities
- ☐ New or altered locations and/or external dimensions of buildings
- ☐ New or altered access for vehicles
- ☐ Building work over or adjacent to any road or public place
- ☐ Disposal of stormwater and wastewater
- ☐ Building work over any existing drains or sewers or in close proximity to wells or water mains
- ☐ Other matters known to the applicant that may require authorisations from the territorial authority: [specify] (use additional sheets if required)

## 8. Building consent (Not applicable if applying for Project Information Memorandum (PIM) only)

The following plans, specifications and supporting documents are attached to this application\*:

[All plans and specifications must meet the minimum requirements set out in the regulations or required by the building consent authority.]



## 9. Means of Compliance with the New Zealand Building Code

(Not applicable if applying for Project Information Memorandum (PIM) only)

The building work will comply with the building code as follows\* (use additional sheets if required):

| NZBC Clause                                     | Means of compliance <sup>¥</sup>          |                      | Waiver/modification required <sup>¤</sup> |     |
|-------------------------------------------------|-------------------------------------------|----------------------|-------------------------------------------|-----|
|                                                 | Acceptable Solution<br>(eg. AS1, AS2 etc) | Alternative Solution |                                           |     |
| B1 (Structure)                                  |                                           |                      |                                           | B1  |
| B2 (Durability)                                 |                                           |                      |                                           | B2  |
| C1 (Outbreak of Fire)                           |                                           |                      |                                           | C1  |
| C2 (Means of Escape from Fire)                  |                                           |                      |                                           | C2  |
| C3 (Spread of Fire)                             |                                           |                      |                                           | C3  |
| C4 (Structural Stability during Fire)           |                                           |                      |                                           | C4  |
| D1 (Access Routes)                              |                                           |                      |                                           | D1  |
| D2 (Mechanical Installations for Access)        |                                           |                      |                                           | D2  |
| E1 (Surface Water)                              |                                           |                      |                                           | E1  |
| E2 (External Moisture)                          |                                           |                      |                                           | E2  |
| E3 (Internal Moisture)                          |                                           |                      |                                           | E3  |
| F1 (Hazardous agents on site)                   |                                           |                      |                                           | F1  |
| F2 (Hazardous building materials)               |                                           |                      |                                           | F2  |
| F3 (Hazardous substances and processes)         |                                           |                      |                                           | F3  |
| F4 (Safety from falling)                        |                                           |                      |                                           | F4  |
| F5 (Construction and demolition hazards)        |                                           |                      |                                           | F5  |
| F6 (Lighting for emergency)                     |                                           |                      |                                           | F6  |
| F7 (Warning systems)                            |                                           |                      |                                           | F7  |
| F8 (Signs)                                      |                                           |                      |                                           | F8  |
| G1 (Personal hygiene)                           |                                           |                      |                                           | G1  |
| G2 (Laundering)                                 |                                           |                      |                                           | G2  |
| G3 (Food prep. and prevention of contamination) |                                           |                      |                                           | G3  |
| G4 (Ventilation)                                |                                           |                      |                                           | G4  |
| G5 (Interior environment)                       |                                           |                      |                                           | G5  |
| G6 (Airborne and impact sound)                  |                                           |                      |                                           | G6  |
| G7 (Natural light)                              |                                           |                      |                                           | G7  |
| G8 (Artificial light)                           |                                           |                      |                                           | G8  |
| G9 (Electricity)                                |                                           |                      |                                           | G9  |
| G10 (Piped services)                            |                                           |                      |                                           | G10 |
| G11 (Gas as an energy source)                   |                                           |                      |                                           | G11 |
| G12 (Water supplies)                            |                                           |                      |                                           | G12 |
| G13 (Foul water)                                |                                           |                      |                                           | G13 |
| G14 (Industrial liquid waste)                   |                                           |                      |                                           | G14 |
| G15 (Solid waste)                               |                                           |                      |                                           | G15 |
| H1 (Energy efficiency provisions)               |                                           |                      |                                           | H1  |

¥ Provide reference to the relevant compliance document(s) or detail of alternative solution in the plans and specifications.

¤ State nature of waiver or modification of building code required.

**FILE COPY**



## 10. Compliance schedule (Not applicable if applying for Project Information Memorandum (PIM) only)

Are there any specified systems associated with this project? \*

- ☐ YES, the following specified systems are being altered, added to, or removed in the course of the building work: *(specified systems are defined in regulations)*
- ☐ NO, there are no specified systems associated with this project. [Go to Section 11]

|        | Existing              | New                   | Modified              | Removed               |                                                                                                                                                                                  |
|--------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SS1    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Automatic systems for fire suppression (for example, sprinkler systems)                                                                                                          |
| SS2    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Automatic or manual emergency warning systems for fire or other dangers (other than a warning system for fire that is entirely within a household unit & serves only that unit). |
| SS3/1  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Electromagnetic or automatic doors or windows (for example, ones that close on fire alarm activation)                                                                            |
| SS3/2  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Access Controlled Doors                                                                                                                                                          |
| SS3/3  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Interfaced fire or smoke doors or windows                                                                                                                                        |
| SS4    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Emergency lighting systems                                                                                                                                                       |
| SS5    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Escape route pressurisation systems                                                                                                                                              |
| SS6    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Riser mains for fire service use                                                                                                                                                 |
| SS7    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Automatic back-flow preventers connected to a potable water supply                                                                                                               |
| SS8/1  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Passenger Carrying lifts                                                                                                                                                         |
| SS8/2  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Service Lifts                                                                                                                                                                    |
| SS8/3  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Escalators and moving walks                                                                                                                                                      |
| SS9    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Mechanical ventilation or air conditioning systems                                                                                                                               |
| SS10   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Building maintenance units for providing access to the exterior and interior walls of buildings                                                                                  |
| SS11   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Laboratory fume cupboards                                                                                                                                                        |
| SS12   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Audio loops or other assistive listening systems                                                                                                                                 |
| SS13/1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Mechanical Smoke Control                                                                                                                                                         |
| SS13/2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Natural Smoke Control                                                                                                                                                            |
| SS13/3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Smoke Curtains                                                                                                                                                                   |
| SS14   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Emergency power systems for, or signs relating to, a system or feature specified in any of the clauses SS1 to SS13                                                               |
| SS14/1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Emergency Power Systems for a system or feature specified in any of the clauses SS1 to SS13                                                                                      |
| SS14/2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Signs relating to Specified Systems SS1 to SS13                                                                                                                                  |
| SS15/1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Systems for communicating spoken information intended to facilitate evacuation                                                                                                   |
| SS15/2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Final exit (as defined by A2 of the Building Code; and                                                                                                                           |
| SS15/3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Fire separations                                                                                                                                                                 |
| SS15/4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Signs for communicating information intended to facilitate evacuation                                                                                                            |
| SS15/5 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Smoke separations                                                                                                                                                                |
| SS16   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Cable Cars                                                                                                                                                                       |

Purpose Group:

Fire Hazard Category:

Max Occupant Load:



## 11. Attachments

The following documents are attached to this application:

- ☒ Plans and specifications\* (refer to list at section 8)  
2 copies for Residential  
3 copies for Commercial / Industrial  
PIM only – 1 copy only of: Site plan, floor plan and elevations
- ☐ Compliance Schedule (for items identified at Section 10)
- ☐ Project information memorandum
- ☐ Evidence of ownership\* (Certificate of Title or Sale & Purchase Agreement)
- ☐ Development contribution notice
- ☒ Building Consent Application Checklist\*  
(Form 2R for Residential or Form 2C for Commercial work)
- ☐ Certificate attached to project information memorandum
- ☐ Application Fee/Deposit\*  
(refer Form 2R or Form 2C) \$ 200 —

## 12. Key Personnel\*

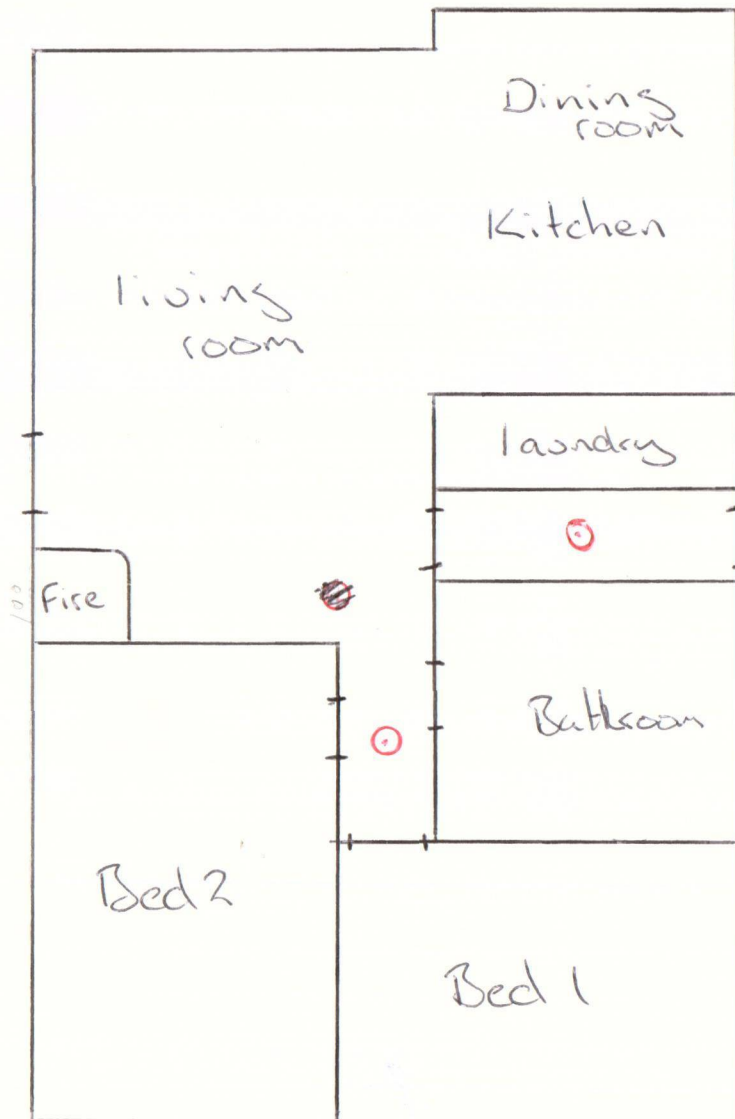
|                                |                                |                      |      |
|--------------------------------|--------------------------------|----------------------|------|
| <b>Designer:</b>               |                                | Registration Number: |      |
| Mailing Address:               |                                | Phone (day):         |      |
| e-mail:                        |                                |                      |      |
| <b>Engineer:</b>               |                                | Registration Number: |      |
| Mailing Address:               |                                | Phone (day):         |      |
| e-mail:                        |                                |                      |      |
| <b>Builder:</b>                |                                | Registration Number: |      |
| Mailing Address:               |                                | Phone (day):         |      |
| e-mail:                        |                                |                      |      |
| <b>Certifying Plumber:</b>     |                                | Registration Number: |      |
| Mailing Address:               |                                | Phone (day):         |      |
| e-mail:                        |                                |                      |      |
| <b>Certifying Drainlayer:</b>  |                                | Registration Number: |      |
| Mailing Address:               |                                | Phone (day):         |      |
| e-mail:                        |                                |                      |      |
| <b>Registered Electrician:</b> |                                | Registration Number: |      |
| Mailing Address:               |                                | Phone (day):         |      |
| e-mail:                        |                                |                      |      |
| <b>Certifying Gasfitter:</b>   |                                | Registration Number: |      |
| Mailing Address:               |                                |                      |      |
| <b>Other:</b>                  | NZ HHA Fire installers         | Registration Number: | 1924 |
| Mailing Address:               | 11-016 Porpo 11-016, Sockburn. |                      |      |

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13. Other notes or comments which you as the applicant may wish to add



☒ Smoke Alarm  
☐ Fire Wood Burner

14. Signature

Signed by\*:

FULL NAME\*:

Date\*:

I am the\*:

☐

Owner

☒

Agent

on behalf of, and with the authority of, the owner.

Note: The Agent, if nominated, will be the first point of contact for communications with the Council / Building Consent Authority regarding this application / building work and will receive all correspondence including all invoices.



**SELWYN DISTRICT**  
**Rates Account Enquiry - 2011/12**

[Prev](#)[Transactions](#) [Reg.Cncl.Acc Change](#) [\(Change Log\)](#) [Payments Calculator](#) [Notes](#)[Next](#)

Valuation No: 2417018601

Houston Gordon  
 Houston Tracey Pamela Ann  
 8 O'Connells Street  
 Southbridge

Post Code: 7602

Old Owner: CJ HALL

Sale Date: 6/07/09

Sale Price:

**PROPERTY DESCRIPTION (Other Property Links)**

Location: (GIS) 8 O'Connell Street, Southbridge

Legal Desc: LOT 2 DP 55427 BLK I SOUTHBRIDGE SD

Cert of Title: 32F/1148

Ward: 3

Region: 13

Zone: 9B

Use: 91

Category: RD9B

TORAS: 111000

Change Dates: RatePayer:4/08/09, Location:13/08/01, Maint:25/03/11

**VALUATIONS****CURRENT****NEW**

Area (Ha): 0.1608

Land Value: \$ 115,000

Improvements: \$ 125,000

(DWG OB OI)

Capital Value: \$ 240,000

Valuation Date: 1/07/09

**RATES for Current Year - 2011/12 (Next Year - 2012/13)**

| Type | Description (Basis)                          | Factor    | Estimated Amt |
|------|----------------------------------------------|-----------|---------------|
| 011: | General Purposes Rate - District (C)         | 240000.00 | \$ 184.95     |
| 069: | Refuse Uniform Charge - District (U)         | 1.00      | \$ 24.00      |
| 079: | Water Supply - Southbridge (U)               | 1.00      | \$ 305.00     |
| 080: | Community Centre Fee - Southbridge (U)       | 1.00      | \$ 36.00      |
| 113: | Uniform Annual General Charge - District (U) | 1.00      | \$ 145.55     |
| 123: | General - District (C)                       | 240000.00 | \$ 85.95      |
| 152: | Works and Services - District (C)            | 240000.00 | \$ 3.25       |
| 154: | Civil Defence Emergency Mgmt - District (C)  | 240000.00 | \$ 3.45       |
| 195: | Library Charge (U)                           | 1.00      | \$ 143.00     |
| 209: | Sewerage - Southbridge (U)                   | 1.00      | \$ 410.00     |
| 214: | Uniform Annual General Charge - District (U) | 1.00      | \$ 10.55      |
| 271: | Recreation Reserve Fee - Southbridge (U)     | 1.00      | \$ 23.00      |
| 298: | Swimming Pool Charge - Southbridge (U)       | 1.00      | \$ 0.00       |
| 301: | Refuse Recycling Rate - District (U)         | 1.00      | \$ 61.00      |
| 320: | Area Board - Ellesmere/Springs (C)           | 240000.00 | \$ 0.00       |
| 332: | Swimming Pools - Zone 2 (U)                  | 1.00      | \$ 87.00      |
| 343: | Refuse-Organic Wheelie Bin - District (U)    | 1.00      | \$ 204.00     |
| 352: | Canterbury Water Management - Region (C)     | 240000.00 | \$ 9.00       |
| 354: | Regional Park - District (C)                 | 240000.00 | \$ 1.85       |
| 358: | Passenger Transport Rural - District (C)     | 240000.00 | \$ 1.70       |
| 380: | Canterbury Museum Levy - District (U)        | 1.00      | \$ 20.00      |
| 381: | Refuse-Wheelie Bin 80 Litres - District (U)  | 1.00      | \$ 117.00     |
| 382: | Earthquake Levy - District (U)               | 1.00      | \$ 135.00     |

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|                                    |                    |
|------------------------------------|--------------------|
| <b>Total Rates Levied</b>          | <b>\$ 2,011.25</b> |
| (GST on Rates Levied)              | \$ 262.34          |
| <b>Rates Last Year</b>             | <b>\$ 1,823.95</b> |
| <b>Last Years Final Instalment</b> | <b>\$ 458.45</b>   |

**FINANCIAL (Transactions)**

|                                                 |                  |                              |             |
|-------------------------------------------------|------------------|------------------------------|-------------|
| <b>Year Opening:</b>                            | \$ 0.00          | <b>Prev Years' Arrears:</b>  | \$ 0.00     |
| <b>Prev Instalments:</b>                        | \$ 502.80        | <b>Current Arrears:</b>      |             |
| <b>Current Instalment (2):</b>                  | \$ 502.80        | <b>Current Due:</b>          |             |
|                                                 |                  | (GST on Instalment):         | \$ 65.58    |
| <b>YTD Cash + Other:</b>                        | \$ 1,005.60-     | <b>Rebate:</b>               |             |
| <b>Rebate Application:</b> 23/02/09             |                  | <b>Clearance (Nett):</b>     | \$ 1,005.65 |
| <b>Balance (Nett):</b>                          | <b>\$ 0.00</b>   | <b>Rates Uncharged:</b>      | \$ 1,005.65 |
| Instalment 2: 18/11/11                          | Penalty: 2/12/11 | Discount: 30/09/11           |             |
| Instalment 3: 17/02/12                          | Penalty: 2/03/12 | Discount: 30/09/11           | \$ 502.85   |
| Instalment 4: 19/05/12                          | Penalty: 2/06/12 | Discount: 30/09/11           | \$ 502.80   |
| <b>Debt Status:</b> 01 No overdue - has history |                  | <b>Postponed Rates:</b>      |             |
| <b>Reg.Cncl Penalty YTD:</b>                    |                  | <b>Reg.Cncl Rates Total:</b> | \$ 115.75   |

**HISTORY**

| Year    | Land Value | Capital Value | Annual Rates | Postponed |
|---------|------------|---------------|--------------|-----------|
| 2010/11 | \$ 115,000 | \$ 240,000    | \$ 1,823.95  |           |
| 2009/10 | \$ 102,000 | \$ 220,000    | \$ 1,671.60  |           |
| 2008/09 | \$ 102,000 | \$ 220,000    | \$ 1,400.35  |           |
| 2007/08 | \$ 102,000 | \$ 220,000    | \$ 1,358.40  |           |
| 2006/07 | \$ 30,000  | \$ 107,000    | \$ 1,116.65  |           |
| 2005/06 | \$ 30,000  | \$ 107,000    | \$ 1,076.50  |           |
| 2004/05 | \$ 30,000  | \$ 107,000    | \$ 692.75    |           |
| 2003/04 | \$ 30,000  | \$ 107,000    | \$ 672.50    |           |
| 2002/03 | \$ 30,000  | \$ 107,000    | \$ 614.40    |           |
| 2001/02 | \$ 30,000  | \$ 107,000    | \$ 576.40    |           |

Alp-1: Z

Val-2:

1823.95

Alp-4: Ward=Other

Rem-2: DWG OB OI

Rem-6: LS

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**APACHE**

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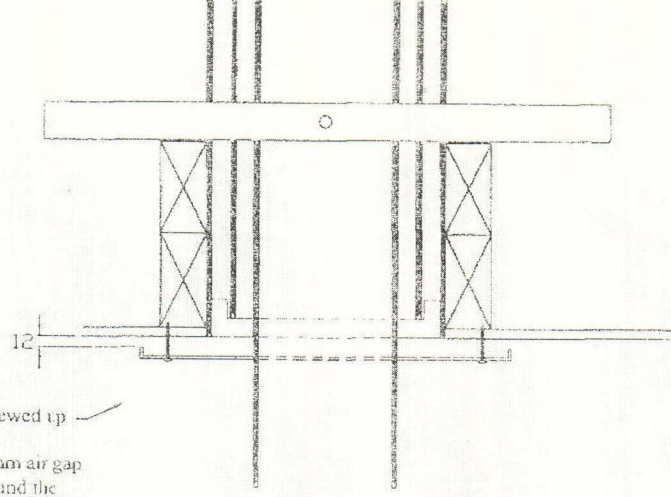
Report 03/927R2

November 18th, 2003

Page 5/5

## NOTE 3: POSITIONING LINERS AND CEILING PLATE

Ceiling plate not screwed up  
hard against ceiling.  
There must be a 12mm air gap  
between the ceiling and the  
ceiling plate.



120063



## Safety Opinion Report for #2074 Flue Kit

 **APPLIED  
RESEARCH**  
SERVICES LIMITED  
(SUBJECT TO DEED OF COMPANY ARRANGEMENT)

P.O. BOX 687, NELSON,  
NEW ZEALAND

PHONE (03) 547 7347  
FAX (03) 547 2909  
EMAIL: [info@appliedresearch.co.nz](mailto:info@appliedresearch.co.nz)  
WEB: [www.appliedresearch.co.nz](http://www.appliedresearch.co.nz)

### Variations in the Double Shielded Flue Kit #2023- Flue Kit #2074 Safety Opinion:

Customer: Davin Industries Limited  
PO Box 24-015  
Bromley  
CHRISTCHURCH 8642

Report 04/969R1

February 2004

120063

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P.O. Box 687, NELSON,  
NEW ZEALAND

PHONE (03) 547 7347  
FAX (03) 547 2909  
EMAIL: info@appliedresearch.co.nz  
WEB: www.appliedresearch.co.nz

Report 04/969R1

February 12<sup>th</sup>, 2004

Page 1/2

Customer: Davin Industries Ltd  
P.O. Box 24-015  
Bromley  
CHRISTCHURCH 8642

P808/1

Attention: Andrew Smith

## Variations in the Double Shielded Flue Kit #2023 - Flue Kit #2074 Safety Opinion

### 1.0 Revision Details

This report replaces report 04/969. The manufacturer's information has been updated to include the correct standard (AS/NZS2918:2001) and some minor re-formatting of the manufacturer's information has been completed. Re-formatting of this report was completed.

### 2.0 Opinion

The manufacturer has asked for our opinion on the likely safety performance of the Davin Industries Double Shielded Flue Kit #2074.

Flue Kit #2023 has been fully tested by us and reported in 03/927. Construction details for flue kit #2074 are identical to flue kit #2023 in the ceiling and roof penetration areas. There is a slight difference in the construction of the flue kit above the roof line - it is our opinion that the Davin Flue Kit #2074 will have similar operating characteristics to flue kit #2023, and report 03/927 will apply to both flue kits.

This report relates only to the product sample tested. Any modifications to the product may invalidate the compliance results.

The original report was prepared by C.J.Mildon and Approved by C.J.Mildon and released on 12 December 2004.

### This revision:

Prepared by: R. Kay

Approved by: W.S. Webley

Release Date:

*[Signature]*  
*[Signature]*  
20-5-10

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Report 04/969R1

February 12<sup>th</sup>, 2004

Page 2/2

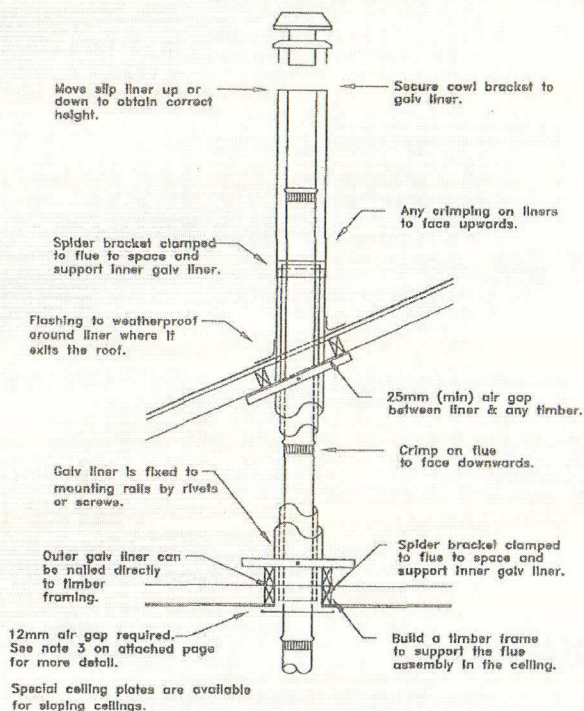
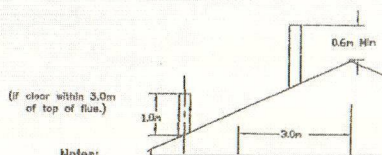
**Appendix 1 Information Supplied by the Manufacturer**

## 150mm Free Standing Flue Kit Satin Black, 4.2 Metres

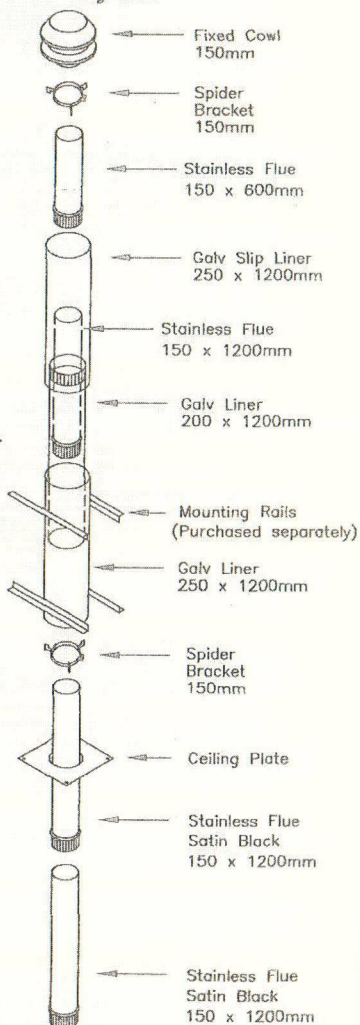
(Kit Code 2074)

Manufactured by Davin Industries Limited.

This flue kit must be installed by a suitably qualified tradesperson or solid fuel heater installer and complies with AS/NZS 2918:2001. This kit may require additional components to complete the installation.

**Roof & Ceiling Installation****Minimum Height of Flue System Exit (excluding cowl)****Notes:**

- ① Refer to your heater manufacturers recommendations for flue heights.
- ② Depending on local circumstances, taller chimneys may be required for satisfactory performance. Check with your local building authority.

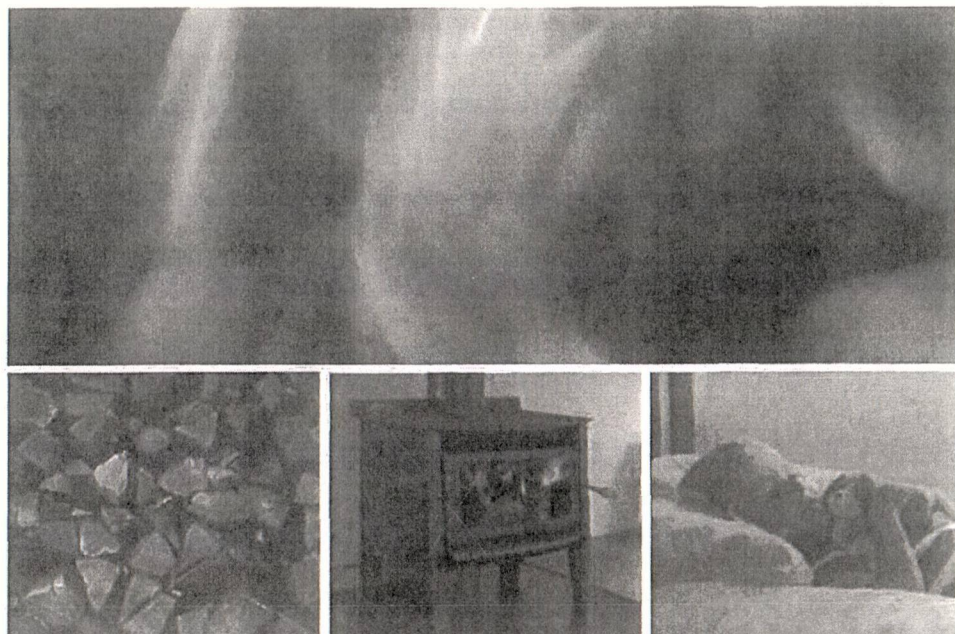
**Assembly List**

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## Wood Fire Installation Manual



# metrofires

## ECO Freestanding Models

### Radiant Fires

- ECO Tiny Rad
- ECO Wee Rad
- ECO Wee Curve
- ECO Xtreme Rad
- ECO Euro Rad

### Pedestal Fires

- ECO Tiny Ped
- ECO Wee Ped
- ECO Xtreme Ped
- ECO Euro Ped

### Traditional Fires

- ECO Tiny Trad
- ECO Wee Trad
- ECO Euro Trad

\*Refer to the other side of this manual for Metro owners operation and warranty details

## **⚠ WARNING! Important Information**

- IF YOU DON'T READ THIS ENTIRE MANUAL, YOU MUST READ THIS FIRST PAGE!
- The appliance and flue-system shall be installed in accordance with AS/NZS 2918 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/NZS 4013

## **⚠ 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 this Metro if there is any sign of visible damage

This Metro woodfire has been tested to and complies with AS/NZS2918:2001 when installed in accordance with this manual. Please ensure you are fully conversant with this relevant standard and the contents of this manual. Correct installation is critical to the safe operation and performance of this woodfire.

### **Please take particular note of the following:**

- It is recommended that Metro's 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.
- The 150mm active fluepipe 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 fluepipe exposed).
- All fluepipe joints must be sealed and riveted; the bottom of the fluepipe in particular **MUST** be fully sealed into the flue outlet of the Metro wood fire.
- In New Zealand, the Metro must be bolted through the floor protector into the floor to comply with the seismic restraint provisions of AS/NZS2918:2001
- All Metro's are extremely heavy varying in weight from 85kgs up to 150kgs. During the installation process do not lift the appliance by yourself, and take care not to damage the panel coating.

## **Assembling your Metro wood fire**

All Metro wood fires are packed in a single heavy-duty carton, and bolted to a wooden pallet. Having removed the packaging and located this manual, familiarise yourself with the illustrations on page A & B, and proceed as detailed below.

*Note: the Metro carton shows the model Metro you are about to install, enabling you to select the appropriate model's assembly instructions.*

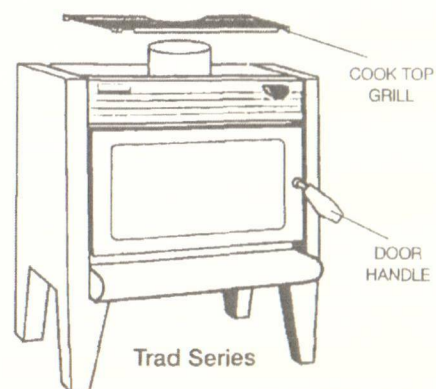
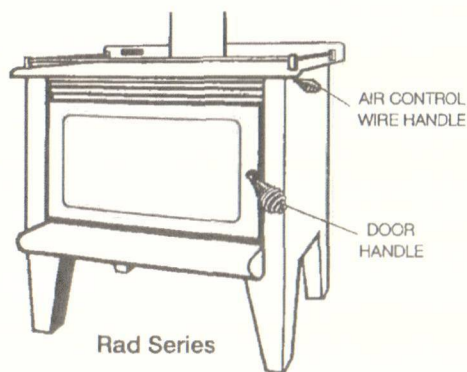
### **Metro ECO Radiant & ECO Traditional Fires**

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

- Remove the two securing bolts 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 of the firebox to retain the side bricks in position. Refer to Diagram 2.

*Note: The ECO Wee Rad and ECO Wee Trad have an additional "3rd brick" which fits to the rear face of the firebox, locating under/into a bracket provided in the middle of the firebox's rear face, under the top baffle.*

- Attach the door handle to the door latch assembly by screwing it on clockwise.
- Metro Radiant Series only: Attach the air control wire handle by screwing it on clockwise.



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PAGE A

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## Assembling your Metro wood fire

### Metro ECO Pedestal Fires

To minimise freight damage, the pedestal has not been attached but is packaged inside the firebox. Some assembly is required as illustrated in Diagram 1 below. Open the door of the Metro and remove the following:

- The pedestal packed in a cardboard tray
- The pedestal mounting plate
- The pedestal heat shield (X-treme Ped and Euro Ped models only)
- Side bricks in a cardboard wrapper
- Door handle and bolt bag.
- Remove the two securing bolts from the base of the firebox which secure the Metro to the wooden pallet, close and latch the door.
- Remove the "cook top" grill and lay the collapsed Metro carton on the floor behind the Metro. Place one hand into and securely grip the flue outlet, place your other hand under the front of the pallet base and gently tip the Metro backwards until it is resting on its back.
- Fully open the Metro's door, taking care that the door does not fall closed; take the four 6mm bolts from the bolt bag and insert them through holes provided in the firebox base.

Metro X-treme Ped & Euro Ped models only: Fit the pedestal heat shield over the four bolts as shown in Diagram 1, with the open edge facing the front of the Metro (up).

- Position the pedestal with its front facing up over the four bolts and fit the nuts and washers supplied. Check to ensure the pedestal is correctly aligned and securely tighten the nuts.
- Close and latch the door. Gripping the flue outlet once more, gently raise the Metro until it is upright. Refit the "cook top" grill and attach the door handle to the door latch assembly by screwing it on clockwise.
- Open the door fully and fit the side bricks to each side of the firebox. Location lugs are fitted to the base and rear of the firebox to retain the side bricks in position - refer to Diagram 2.

*Note: The ECO Tiny Ped model utilizes a slightly different pedestal to that detailed in diagram 1. The rear panel must be turned around with the return fold facing back the opposite way.*

### All Metro ECO 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) facing forward as illustrated in Diagram 2.

Diagram 1

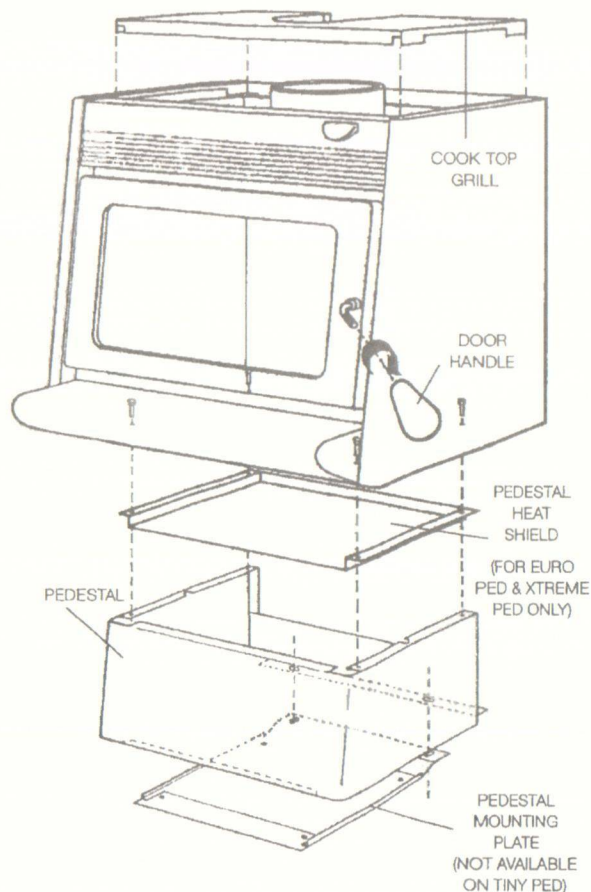
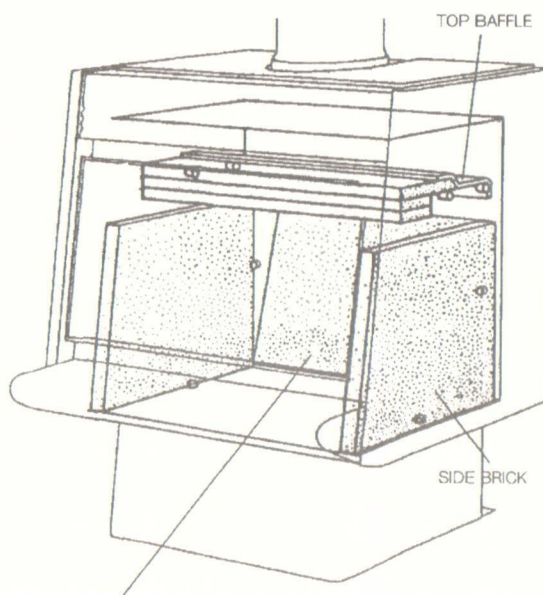


Diagram 2



*Note: The ECO Wee Ped has an additional "3rd brick" which fits to the rear face of the firebox, locating under/into a bracket provided in the middle of the firebox's rear face, under the top baffle.*

## Direct Vent Option

The ECO Xtreme Ped, ECO Euro Ped, ECO Euro Trad, ECO Wee Curve, ECO Euro Rad and ECO Xtreme Rad models have the option to be installed as "Direct Vent" appliances, thereby drawing all primary and secondary combustion air from outside the home. Once connected, this direct 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 these Direct Vent models still offer greatly improved performance and lower emissions due to the unique pre-heated air path for all primary and secondary combustion air that these models consume.*

### Direct Vent Options

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

- DV WALL KIT – For installations when the Metro 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 is installed against an internal wall and on a concrete floor

*(DV Ceiling kit goes into the wall cavity, then up inside the wall into the ceiling cavity, where the air supply is drawn from)*

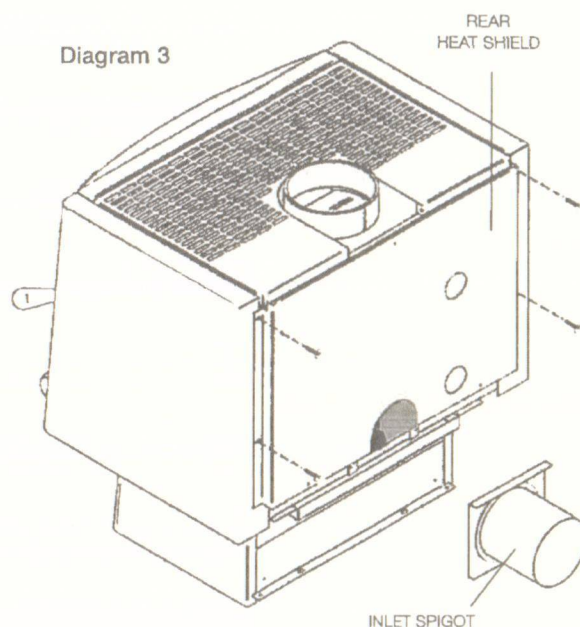
### Installing the Direct Vent Option

Remove the rear heatshield from the Metro wood fire by unscrewing the 4 self tapping screws illustrated in Diagram 3 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 been 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. Replace the Metro's rear heatshield with the 4 screws previously removed.

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.

Diagram 3





## Floor Protector Size, Construction & Fitting

Pioneer manufacture an extensive range of what Pioneer term "Ash Floor Protectors" which comply with the minimum floor protector requirement of AS/NZS2918:2001, and can be installed with any freestanding Metro wood fire.

Metro freestanding wood fires DO NOT require an insulating floor protector as they comply with the minimum floor protector requirements of AS/NZS2918:2001. These minimum floor protector requirement 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 "E". 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 timber flooring.
- A sheet of toughened glass, panel steel etc. laid directly onto a wooden or other combustible floor.

*Note: If being installed onto a concrete or non-combustible floor a floor protector is not required.*

### Fitting the Floor Protector

Once the floor protector is constructed and laid in final position, you are ready to locate the position where the Metro will sit on the floor protector. This procedure varies depending on the model:

#### Metro ECO Radiant and ECO Traditional Series

Lift the Metro onto the floor protector and using a tape measure to ensure that the minimum wall clearances and front floor protector projections as detailed in the chart on opposing page E are met or exceeded. Once the Metro's location on the floor protector is established and if the installation is in 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 ECO Pedestal Series

These models (excluding the ECO Tiny Ped) are supplied with a "pedestal mounting plate". Refer to Diagram 1 on page B. Place the mounting plate on the floor protector with the two

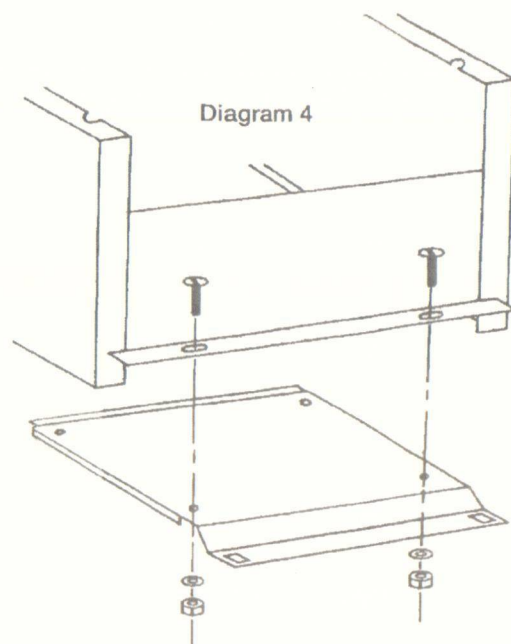
slots at the rear. A flue centre hole is marked on this plate and a chart is attached enabling you to locate the position of the Metro without placing the Metro onto the floor protector. Once the location of this mounting plate is established, secure it through the floor protector into the floor using a minimum of two of the four holes provided, diagonally opposite each other. Suitable anchors are as detailed below left for the Metro ECO Radiants/Traditionals Series

#### Alternative Metro mount plate installation

For installations when it is desirable to position the assembled Metro prior to bolting down, it is possible to "invert" the mounting plate and use it as a means of bolting the Metro direct to the floor, through the hearth. Refer to Diagram 4 and note;

1. Rotate the mount plate 180 degrees so the label faces downwards.
2. Remove the two "slide nuts" from the rear face of the mount plate.
3. Secure the mount plate to the pedestal with 6mm bolts through holes provided as illustrated.

You can then bolt down the Metro through the two rectangular slots in the rear edge of the mount plate. These slots are more accessible than bolting direct through the pedestal, and it also eliminates the need for spacers.





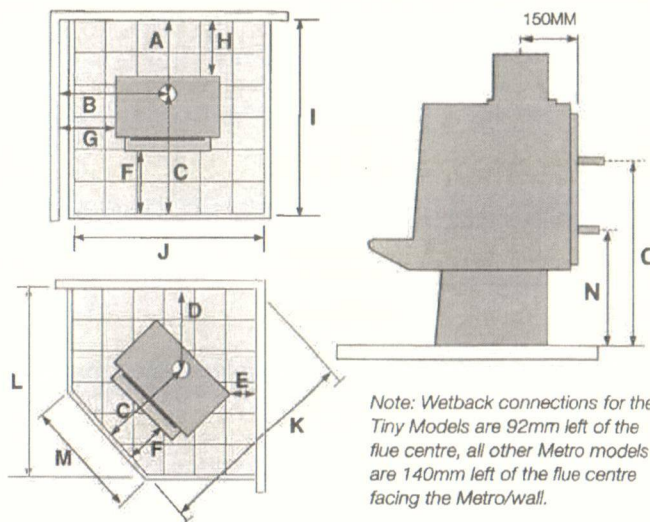
## Clearance Chart

Measurements listed below are the minimum required, stated in millimetres. 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 outermost point of the Metro's cabinet construction (E, F, G, H)
- To the edge of the ash floor protectors non-combustible surface (C, F, I, J, K, L, M)

The Metro ECO Euro Ped, ECO Xtreme Ped and ECO Euro Trad installed with a "Pioneer Double Flue Mounted Shield with side extensions fitted" reduces minimum corner clearance E from 170mm to 110mm. In this situation use the LTD Euro Ped chart for ECO Euro Ped measurements E, D, K & L.

*Note: If you are installing any of the above wood fires onto a Pioneer 1150 corner floor protector the flue shield side extensions MUST be fitted.*



## Metro Installation Clearances

Minimum clearances shown are in mm, with a Pioneer double flue mounted shield fitted.

| Model          | A   | B   | C   | D   | E   | F   | G   | H   | I   | J   | K    | L    | M   |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|
| ECO Tiny Rad   | 225 | 552 | 580 | 420 | 150 | 200 | 300 | 75  | 805 | 650 | 1165 | 925  | 250 |
| ECO Wee Rad    | 260 | 525 | 580 | 385 | 80  | 200 | 220 | 110 | 840 | 825 | 1125 | 950  | 425 |
| ECO Wee Curve  | 300 | 555 | 580 | 405 | 100 | 200 | 250 | 150 | 880 | 825 | 1150 | 975  | 425 |
| ECO Xtreme Rad | 250 | 575 | 625 | 435 | 80  | 200 | 200 | 100 | 875 | 905 | 1240 | 1065 | 505 |
| ECO Euro Rad   | 250 | 625 | 625 | 435 | 80  | 200 | 250 | 100 | 875 | 905 | 1240 | 1065 | 505 |
| ECO Tiny Ped   | 210 | 430 | 580 | 290 | 25  | 200 | 185 | 60  | 790 | 650 | 990  | 875  | 250 |
| ECO Wee Ped    | 260 | 595 | 580 | 385 | 85  | 200 | 300 | 110 | 840 | 825 | 1120 | 950  | 425 |
| ECO Xtreme Ped | 230 | 585 | 625 | 495 | 170 | 200 | 250 | 80  | 855 | 905 | 1325 | 1120 | 505 |
| ECO Euro Ped   | 230 | 585 | 625 | 495 | 170 | 200 | 250 | 80  | 855 | 905 | 1325 | 1120 | 505 |
| ECO Tiny Trad  | 210 | 430 | 580 | 290 | 25  | 200 | 185 | 60  | 790 | 650 | 990  | 875  | 250 |
| ECO Wee Trad   | 260 | 595 | 580 | 385 | 85  | 200 | 300 | 110 | 840 | 825 | 1120 | 950  | 425 |
| ECO Euro Trad  | 230 | 585 | 625 | 495 | 170 | 200 | 250 | 80  | 855 | 905 | 1325 | 1120 | 505 |

## Metro Specifications

Measurements shown are in mm.

| Model          | WIDTH | DEPTH | HEIGHT | N   | O   |
|----------------|-------|-------|--------|-----|-----|
| ECO Tiny Rad   | 505   | 530   | 665    | 280 | 470 |
| ECO Wee Rad    | 607   | 530   | 665    | 295 | 485 |
| ECO Wee Curve  | 607   | 530   | 665    | 280 | 470 |
| ECO Xtreme Rad | 750   | 575   | 745    | 338 | 528 |
| ECO Euro Rad   | 750   | 575   | 745    | 338 | 528 |
| ECO Tiny Ped   | 490   | 530   | 665    | 280 | 470 |
| ECO Wee Ped    | 590   | 530   | 665    | 295 | 485 |
| ECO Xtreme Ped | 670   | 575   | 715    | 325 | 515 |
| ECO Euro Ped   | 670   | 575   | 715    | 325 | 515 |
| ECO Tiny Trad  | 490   | 530   | 665    | 280 | 470 |
| ECO Wee Trad   | 590   | 530   | 665    | 295 | 485 |
| ECO Euro Trad  | 670   | 575   | 715    | 325 | 515 |



## Wetbacks

### **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.

### Wetbacks

If the home is in a classified "clean air zone", and dependent on requirements/restrictions which may be imposed by your local council, you may or may not be able to install a water heating device. If in doubt consult your local Metro retailer. Only Pioneer's cast jacket wetback system as illustrated on Page 2 (reverse side of this manual) should be fitted to a Metro; alternative wetbacks will void the Metro's emission approvals and may seriously affect the performance of the appliance and void the owner's warranty.

*Note; 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.*

The 2kW, 3kW and 4kW wetback options are fitted to the inside rear of the firebox, with the connection pipe heights illustrated and detailed on the previous page "E". Please note:-

- Wetback connections for the Tiny models are 92mm left of the flue centre, and all other Metros wetback connections are 140mm left of the flue centre, facing the Metro/wall; the return pipe connection is directly above the inlet connection.
- Reduced height pedestals are available for certain models to reduce wetback connection heights.

- 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 connection holes on the inside of the firebox. On the rear of the wetback casting apply the remaining contents of the tube equally around both connection pipes.
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.

## 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 installation manual can be downloaded from [www.metrofires.co.nz](http://www.metrofires.co.nz), under Flue Systems, or a copy can be obtained from your Metro retailer. Any alternative flue system must comply with and be installed as detailed AS/NZS 2918:2008, and a copy of the installation manual must also be presented with your application to gain consent with your local council.



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

- All joints in the fluepipe must be sealed with Pioneer fire cement (or similar) and riveted.
- The base of the fluepipe must be sealed into the outlet of the Metro's flue stub.

- Refer "Important Information" on page A.
- The flue systems 150mm diameter fluepipe must terminate a minimum of 4.6 metres above the top surface of the floor protector.

### Pioneer Flueshield

All Metro's have been tested with a Pioneer Double Flue Mounted Shield. For the Metro to be installed with minimal clearances as the Clearance Chart states, ONLY the Pioneer Double Mounted Flue Shield can be used. All other flue shields will invalid the installation.

The Metro can be installed without a flue shield, if this is the case it needs to be installed as AS/NZS2918:2001 stipulates.

**PIONEER**  
MANUFACTURING LIMITED

Mamaku Street PO Box 11 Inglewood New Zealand  
[info@metrofires.co.nz](mailto:info@metrofires.co.nz) [www.metrofires.co.nz](http://www.metrofires.co.nz)





## Dektite® Soaker™

*The perfect flashing for all tray roofs*

The large base of the Dektite® Soaker™ dramatically reduces rainwater back up on very low or very high roof pitches and deep ribbed roofing profiles.



Dektite® Soakers™ are ready to flash straight from the pack. They're faster to flash than old-fashioned methods. Dektite's® unique corrosion resistant aluminium flange is ideal for low pitch and deep profile

roofs, providing a positive leak-proof seal, without risk of damming.

### Easy Selection Guide

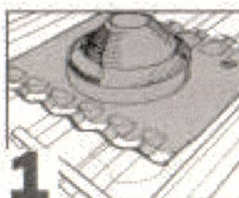
| CODE   | BASE mm  | PIPE mm | PITCH   | PIPE mm   | PITCH |
|--------|----------|---------|---------|-----------|-------|
| DF 602 | 410x360  | 75-160  | 0 - 60° |           |       |
| DF 603 | 485x460  | 114-165 | 0 - 60° | 165 - 255 | 0-40° |
| DF 605 | 708x635  | 254-358 | 0 - 60° | 365 - 410 | 0-40° |
| DF 606 | 1006x905 | 380-470 | 0 - 60° | 470 - 610 | 0-40° |

E.P.D.M. withstands temperatures from -50°C to 115°C, & up to 150°C intermittently

**\*IMPORTANT:** For a 60° pitch, do not cut below the first three sizing ribs on the 603, 605, and 606.

## INSTALLATION INSTRUCTIONS

11



1 Mark position of pipe on roofing sheet, centre Dektite® over mark ensuring word "top" is towards highest part of roof, and preform Dektite® flanges to roof profile.



2 Mark ribs or corrugations to be removed to allow adequate drainage around cone. Allow at least 30mm all round to fasten Dektite's® aluminium strips to roofing sheet



3 Cut out marked portions of roof, filling away sharp edges and install pipe securely in place. Where necessary, support cut sections of sheet to additional roof framing.



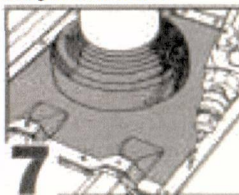
4 Trim Dektite® cone to suit pipe size and slide down pipe using water as lubricant.



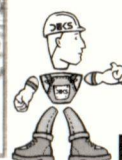
5 Form Dektite® base into contours of roofing sheet, positioning loose strips on either side of cone in best position to ensure drainage of pan or tray. Trim excess rubber from outside of loose strips. Trimming should be considered prior to cutting of the roof sheet.



6 Apply a generous bead of neutral cure sealant\* to underside of Dektite® base along entire perimeter.



7 Fasten flashing to roof using washers self-drilling screws, ensuring Dektite® forms flat trough for water run-off. Fix integral aluminium strips from centre outwards before attaching loose strips provided.



**Dektite®**  
*First and the Best!*

**\*Refer to page 28 for silicone usage**

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





# Ramset™

## DYNABOLT® ANCHORS

**Dynabolt is a general purpose all steel medium duty through fixing for masonry and concrete.**

### For fixing to

Concrete, solid and hollow brick, masonry, natural stone.

### Surface Finish

Zinc Colbolt alloy plating with chromate conversion coating.  
Hot dipped galvanised to AS1650 - 1989.



### Features

- ~ Through fixing - no marking out and repositioning.
- ~ Fully assembled.
- ~ Variety of head styles
- ~ Unique sleeve design collapses during tightening to provide pulldown onto fixture.
- ~ Integral nut and washer.

### Applications

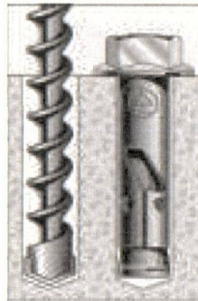
Timber to concrete, form work, battens, bottom plates.  
Services - ductwork, pipes brackets, cable trays, suspended ceilings.  
Metalwork - signs, hand rails, gates.  
Light to medium duty loading.

### Materials

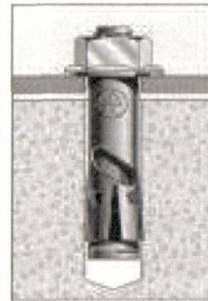
Carbon Steel  
Stainless Steel: AISI 316



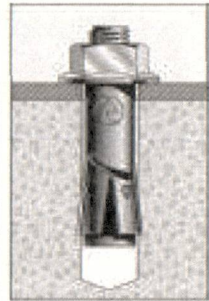
### INSTALLATION



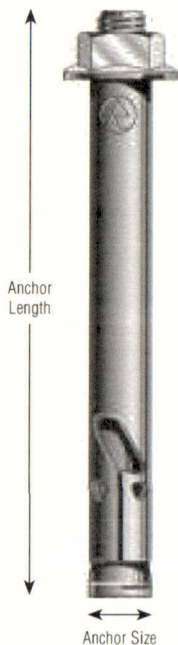
1. Use fixture as a template, drill a hole to the correct diameter and depth. Clean hole thoroughly with brush.



2. Remove debris by way of a vacuum or hand pump, compressed air, etc. Insert anchor tightly against fixture and tighten with spanner.



3. Continue tightening, allowing the sleeve to twist and pull down the fixture firmly onto the base material.



### INSTALLATION AND PERFORMANCE DETAILS

| Anchor Size | Hole Ø (mm) | Installation Embedded Depth (mm) | Fixture Clearance Ø (mm) | Tight Torque (Nm) | Edge Dist.Min. (mm) | Structural Limits              |                                | Rec. Working Load (kN) See Safety Factors p.11 & 12 |        |         |        |         |        |
|-------------|-------------|----------------------------------|--------------------------|-------------------|---------------------|--------------------------------|--------------------------------|-----------------------------------------------------|--------|---------|--------|---------|--------|
|             |             |                                  |                          |                   |                     | Anchor Spacing Dist. Min. (mm) | Structural Thickness Min. (mm) | 20MPa                                               |        | 30MPa   |        | 40MPa   |        |
|             |             |                                  |                          |                   |                     |                                |                                | Tensile                                             | •Shear | Tensile | •Shear | Tensile | •Shear |
| 6           | 6           | 20                               | 8                        | 4                 | 25                  | 50                             | 40                             | 1.2                                                 | 2.5    | 1.4     | 2.5    | 1.7     | 2.5    |
|             | 6           | 35                               | 8                        | 4                 | 45                  | 95                             | 70                             | 3.2                                                 | 2.5    | 3.7     | 2.5    | 3.7     | 2.5    |
| 8           | 8           | 32                               | 10                       | 9                 | 40                  | 80                             | 60                             | 2.4                                                 | 4.0    | 3.0     | 4.0    | 3.4     | 4.0    |
|             | 8           | 50                               | 10                       | 9                 | 65                  | 130                            | 90                             | 5.4                                                 | 4.0    | 5.9     | 4.0    | 5.9     | 4.0    |
| 10          | 10          | 34                               | 12                       | 20                | 40                  | 85                             | 60                             | 2.7                                                 | 6.3    | 3.3     | 6.3    | 3.8     | 6.3    |
|             | 10          | 55                               | 12                       | 20                | 70                  | 145                            | 100                            | 6.1                                                 | 6.3    | 7.5     | 6.3    | 8.6     | 6.3    |
| 12          | 12          | 42                               | 15                       | 40                | 55                  | 105                            | 70                             | 3.8                                                 | 7.9    | 4.6     | 7.9    | 5.4     | 7.9    |
|             | 12          | 60                               | 15                       | 40                | 80                  | 155                            | 110                            | 6.9                                                 | 7.9    | 8.4     | 7.9    | 9.7     | 7.9    |
|             | 12          | 70                               | 15                       | 40                | 95                  | 185                            | 130                            | 9.0                                                 | 7.9    | 11.0    | 7.9    | 11.6    | 7.9    |
| 16          | 16          | 48                               | 19                       | 70                | 60                  | 115                            | 80                             | 4.5                                                 | 10.5   | 5.5     | 10.5   | 6.3     | 10.5   |
|             | 16          | 70                               | 19                       | 70                | 90                  | 175                            | 120                            | 8.3                                                 | 10.5   | 10.2    | 10.5   | 11.8    | 10.5   |
|             | 16          | 90                               | 19                       | 70                | 120                 | 235                            | 160                            | 12.9                                                | 10.5   | 15.3    | 10.5   | 15.3    | 10.5   |
| 20          | 20          | 60                               | 24                       | 150               | 75                  | 150                            | 100                            | 6.5                                                 | 15.6   | 7.9     | 15.6   | 9.2     | 15.6   |
|             | 20          | 85                               | 24                       | 150               | 110                 | 220                            | 150                            | 11.7                                                | 15.6   | 14.3    | 15.6   | 16.5    | 15.6   |
|             | 20          | 130                              | 24                       | 150               | 180                 | 355                            | 240                            | 22.8                                                | 15.6   | 22.8    | 15.6   | 22.8    | 15.6   |

• For shear loads acting toward the edge(s) of the concrete, the above edge distances and spacings are not applicable, please consult Ramset Technical Consultant. This table should be read in conjunction with the Ramset Engineers Design Manual.

# metrofires

## Wood Fire Installation Manual

### ECO Freestanding Models

#### Radiant Fires

- ECO Tiny Rad
- ECO Wee Rad
- ECO Wee Curve
- ECO Xtreme Rad
- ECO Euro Rad

#### Pedestal Fires

- ECO Tiny Ped
- ECO Wee Ped
- ECO Xtreme Ped
- ECO Euro Ped

#### Traditional Fires

- ECO Tiny Trad
- ECO Wee Trad
- ECO Euro Trad

\*Refer to the other side of this manual for Metro owners operation and warranty details



120063





## **⚠ WARNING!** Important Information

- **IF YOU DON'T READ THIS ENTIRE MANUAL, YOU MUST READ THIS FIRST PAGE!**
- **The appliance and flue-system shall be installed in accordance with AS/NZS 2918 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/NZS 4013**

## **⚠ 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 this Metro if there is any sign of visible damage**

This Metro wood fire has been tested to and complies with AS/NZS2918:2001 when installed in accordance with this manual. Please ensure you are fully conversant with this 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's 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.
- The 150mm active flue pipe must be fully encased from the ceiling to the underside of the flashing cone at the top of the flue system, (i.e. there must not be any 150mm flue pipe exposed).
- All flue pipe joints must be sealed and riveted. The bottom of the flue pipe in particular **MUST** be fully sealed into the flue outlet of the Metro wood fire.
- In New Zealand, the Metro must be bolted through the floor protector into the floor to comply with the seismic restraint provisions of AS/NZS2918:2001
- All Metro's are extremely heavy, varying in weight from 85kgs up to 150kgs. During the installation process do not lift the appliance by yourself, and take care not to damage the panel coating.

## **Assembling your Metro wood fire**

All Metro wood fires are packed in a single heavy-duty carton, and bolted to a wooden pallet. Having removed the packaging and located this manual, familiarise yourself with the illustrations on page A & B, and proceed as detailed below.

*Note: The Metro carton shows the model Metro you are about to install, enabling you to select the appropriate model's assembly instructions.*

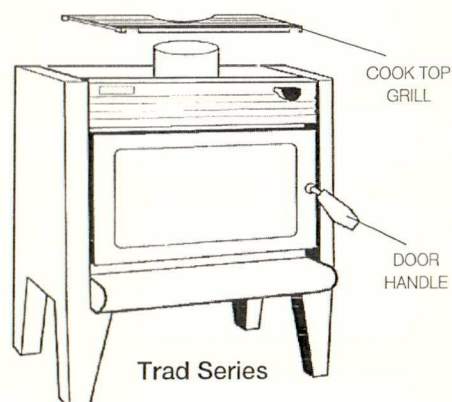
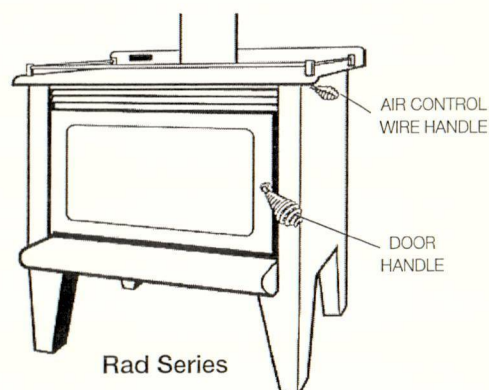
### **Metro ECO Radiant & ECO Traditional Fires**

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

- Remove the two securing bolts 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 of the firebox to retain the side bricks in position. Refer to Diagram 2.

*Note: The ECO Wee Rad and ECO Wee Trad have an additional "3rd brick" which fits to the rear face of the firebox, locating under/into a bracket provided in the middle of the firebox's rear face, under the top baffle.*

- Attach the door handle to the door latch assembly by screwing it on clockwise.
- Metro Radiant Series only: Attach the air control wire handle by screwing it on clockwise.





# Assembling your Metro wood fire

## Metro ECO Pedestal Fires

To minimise freight damage, the pedestal has not been attached but is packaged inside the firebox. Some assembly is required as illustrated in Diagram 1 (right). Open the door of the Metro and remove the following:

- The pedestal packed in a cardboard tray
- The pedestal mounting plate
- The pedestal heat shield (X-treme Ped and Euro Ped models only)
- Side bricks in a cardboard wrapper
- Door handle and bolt bag.
- Remove the two securing bolts from the base of the firebox which secure the Metro to the wooden pallet, close and latch the door.
- Remove the "cook top" grill and lay the collapsed Metro carton on the floor behind the Metro. Place one hand into and securely grip the flue outlet, place your other hand under the front of the pallet base and gently tip the Metro backwards until it is resting on its back.
- Fully open the Metro's door, taking care that the door does not fall closed. Take the four 6mm bolts from the bolt bag and insert them through holes provided in the firebox base.

Metro X-treme Ped & Euro Ped models only: Fit the pedestal heat shield over the four bolts as shown in Diagram 1, with the open edge facing the front of the Metro (up).

- Position the pedestal with its front facing up over the four bolts and fit the nuts and washers supplied. Check to ensure the pedestal is correctly aligned and securely tighten the nuts.
- Close and latch the door. Gripping the flue outlet once more, gently raise the Metro until it is upright. Refit the "cook top" grill and attach the door handle to the door latch assembly by screwing it on clockwise.
- Open the door fully and fit the side bricks to each side of the firebox. Location lugs are fitted to the base and rear of the firebox to retain the side bricks in position - refer to Diagram 2.

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

## All Metro ECO 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) facing forward as illustrated in Diagram 2.

Diagram 1

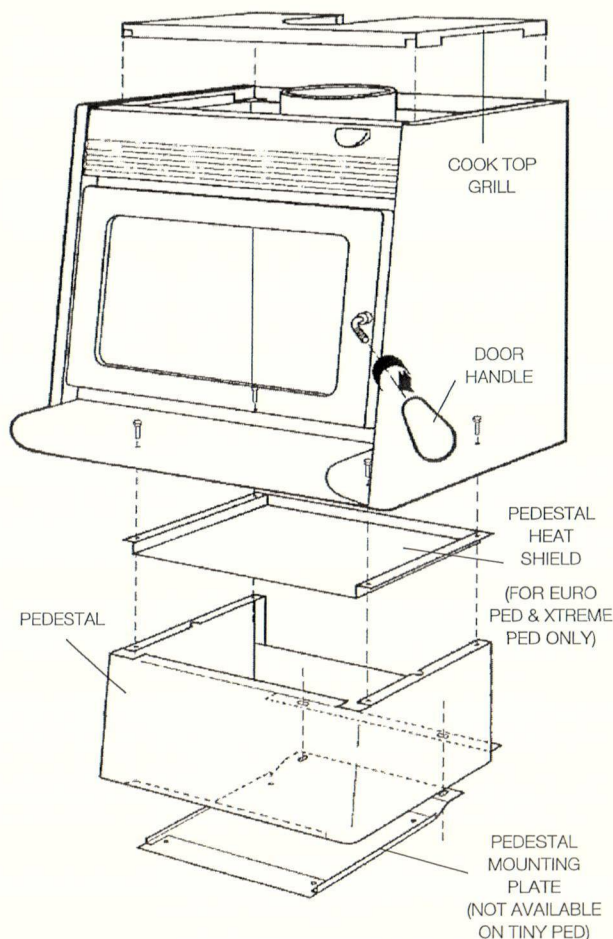
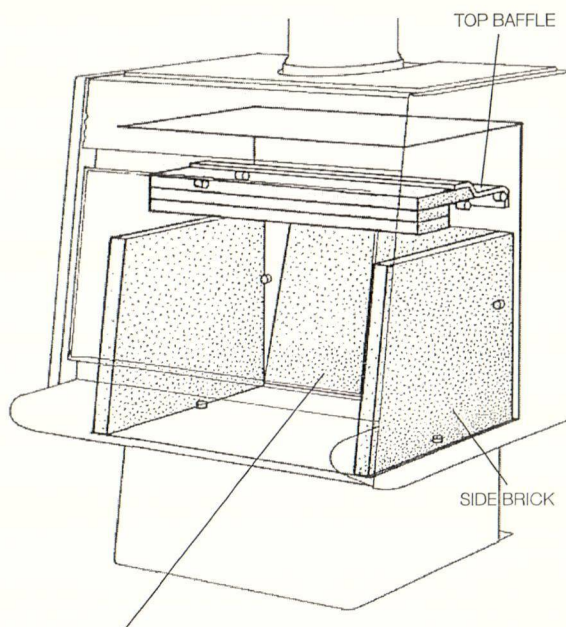


Diagram 2



*Note: The ECO Wee Ped has an additional "3rd brick" which fits to the rear face of the firebox, locating under/into a bracket provided in the middle of the firebox's rear face, under the top baffle.*



## Direct Vent Option

The ECO Xtreme Ped, ECO Euro Ped, ECO Euro Trad, ECO Wee Curve, ECO Euro Rad and ECO Xtreme Rad models have the option to be installed as "Direct Vent" appliances, thereby drawing all primary and secondary combustion air from outside the home. Once connected, this direct 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 these Direct Vent models still offer greatly improved performance and lower emissions due to the unique pre-heated air path for all primary and secondary combustion air that these models consume.*

### Direct Vent Options

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

- DV WALL KIT – For installations when the Metro 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 is installed against an internal wall and on a concrete floor

*(DV Ceiling kit goes into the wall cavity, then up inside the wall into the ceiling cavity, where the air supply is drawn from)*

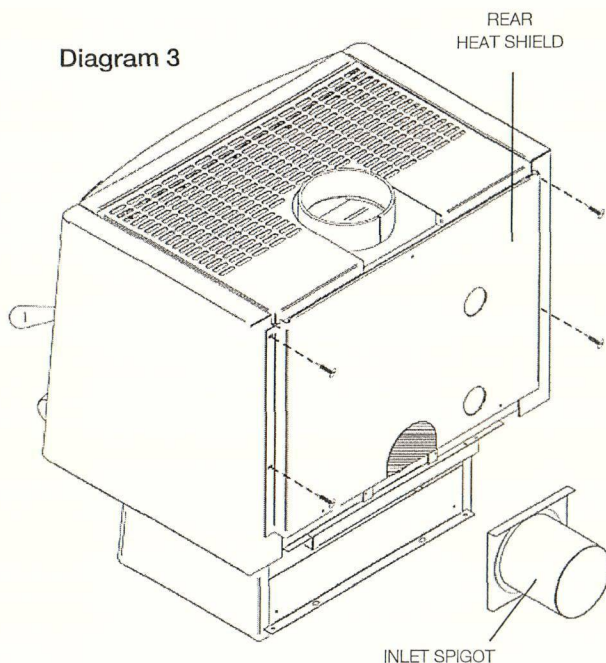
### Installing the Direct Vent Option

Remove the rear heatshield from the Metro wood fire by unscrewing the four self tapping screws illustrated in Diagram 3 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 been 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. Replace the Metros rear heatshield with the four screws previously removed.

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.

Diagram 3



## Floor Protector Size, Construction & Fitting

Pioneer manufacture an extensive range of what Pioneer term "Ash Floor Protectors" which comply with the minimum floor protector requirement of AS/NZS2918:2001, and can be installed with any freestanding Metro wood fire.

Metro freestanding wood fires DO NOT require an insulating floor protector as they comply with the minimum floor protector requirements of AS/NZS2918:2001. These minimum floor protector requirement 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 E. 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 timber flooring.
- A sheet of toughened glass, panel steel etc. laid directly onto a wooden or other combustible floor.

*Note: If being installed onto a concrete or non-combustible floor a floor protector is not required.*

### Fitting the Floor Protector

Once the floor protector is constructed and laid in final position, you are ready to locate the position where the Metro will sit on the floor protector. This procedure varies depending on the model:

#### Metro ECO Radiant and ECO Traditional Series

Lift the Metro onto the floor protector and using a tape measure to ensure that the minimum wall clearances and front floor protector projections as detailed in the chart on opposing page E are met or exceeded. Once the Metro's location on the floor protector is established and if the installation is in 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 ECO Pedestal Series

These models (excluding the ECO Tiny Ped) are supplied with a "pedestal mounting plate". Refer to Diagram 1 on page B. Place the mounting plate on the floor protector with the two

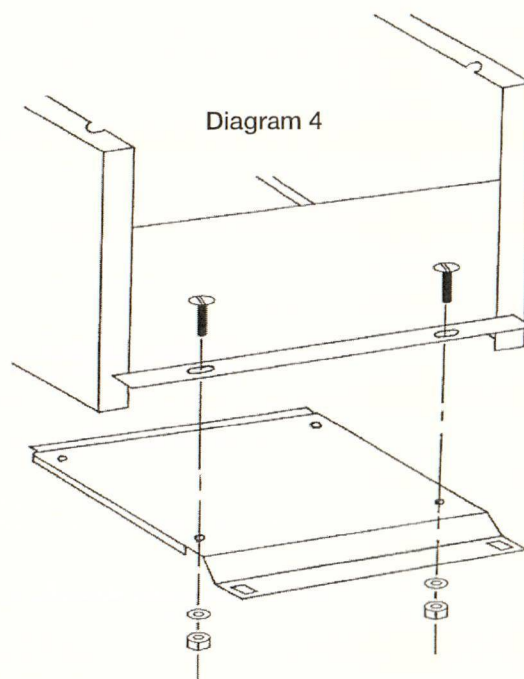
slots at the rear. A flue centre hole is marked on this plate and a chart is attached enabling you to locate the position of the Metro without placing the Metro onto the floor protector. Once the location of this mounting plate is established, secure it through the floor protector into the floor using a minimum of two of the four holes provided, diagonally opposite each other. Suitable anchors are as detailed below left for the Metro ECO Radiants/Traditionals Series

### Alternative Metro mount plate installation

For installations when it is desirable to position the assembled Metro prior to bolting down, it is possible to "invert" the mounting plate and use it as a means of bolting the Metro direct to the floor, through the hearth. Refer to Diagram 4 and note;

1. Rotate the mount plate 180 degrees so the label faces downwards.
2. Remove the two "slide nuts" from the rear face of the mount plate.
3. Secure the mount plate to the pedestal with 6mm bolts through holes provided as illustrated.

You can then bolt down the Metro through the two rectangular slots in the rear edge of the mount plate. These slots are more accessible than bolting direct through the pedestal, and it also eliminates the need for spacers.



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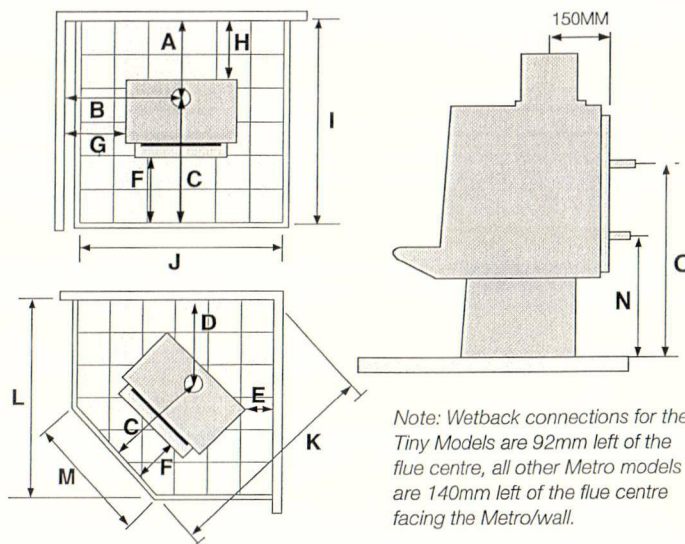
## Clearance Chart

Measurements listed below are the minimum required, stated in millimetres. 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 outermost point of the Metro's cabinet construction (E, F, G, H)
- To the edge of the ash floor protectors non-combustible surface (C, F, I, J, K, L, M)

The Metro ECO Euro Ped, ECO Xtreme Ped and ECO Euro Trad installed with a "Pioneer Double Flue Mounted Shield with side extensions fitted" reduces minimum corner clearance E from 170mm to 110mm. In this situation use the LTD Euro Ped chart for ECO Euro Ped measurements E, D, K & L.

*Note: If you are installing any of the above wood fires onto a Pioneer 1150 corner floor protector the flue shield side extensions MUST be fitted.*



## Metro Installation Clearances

Minimum clearances shown are in mm, with a Pioneer double flue mounted shield fitted.

| Model          | A   | B   | C   | D   | E   | F   | G   | H   | I   | J   | K    | L    | M   |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|
| ECO Tiny Rad   | 225 | 552 | 580 | 420 | 150 | 200 | 300 | 75  | 805 | 650 | 1165 | 925  | 250 |
| ECO Wee Rad    | 260 | 525 | 580 | 385 | 80  | 200 | 220 | 110 | 840 | 825 | 1125 | 950  | 425 |
| ECO Wee Curve  | 300 | 555 | 580 | 405 | 100 | 200 | 250 | 150 | 880 | 825 | 1150 | 975  | 425 |
| ECO Xtreme Rad | 250 | 575 | 625 | 435 | 80  | 200 | 200 | 100 | 875 | 905 | 1240 | 1065 | 505 |
| ECO Euro Rad   | 250 | 625 | 625 | 435 | 80  | 200 | 250 | 100 | 875 | 905 | 1240 | 1065 | 505 |
| ECO Tiny Ped   | 210 | 430 | 580 | 290 | 25  | 200 | 185 | 60  | 790 | 650 | 990  | 875  | 250 |
| ECO Wee Ped    | 260 | 595 | 580 | 385 | 85  | 200 | 300 | 110 | 840 | 825 | 1120 | 950  | 425 |
| ECO Xtreme Ped | 230 | 585 | 625 | 495 | 170 | 200 | 250 | 80  | 855 | 905 | 1325 | 1120 | 505 |
| ECO Euro Ped   | 230 | 585 | 625 | 495 | 170 | 200 | 250 | 80  | 855 | 905 | 1325 | 1120 | 505 |
| ECO Tiny Trad  | 210 | 430 | 580 | 290 | 25  | 200 | 185 | 60  | 790 | 650 | 990  | 875  | 250 |
| ECO Wee Trad   | 260 | 595 | 580 | 385 | 85  | 200 | 300 | 110 | 840 | 825 | 1120 | 950  | 425 |
| ECO Euro Trad  | 230 | 585 | 625 | 495 | 170 | 200 | 250 | 80  | 855 | 905 | 1325 | 1120 | 505 |

## Metro Specifications

Measurements shown are in mm.

| Model          | WIDTH | DEPTH | HEIGHT | N   | O   |
|----------------|-------|-------|--------|-----|-----|
| ECO Tiny Rad   | 505   | 530   | 665    | 280 | 470 |
| ECO Wee Rad    | 607   | 530   | 665    | 295 | 485 |
| ECO Wee Curve  | 607   | 530   | 665    | 280 | 470 |
| ECO Xtreme Rad | 750   | 575   | 745    | 338 | 528 |
| ECO Euro Rad   | 750   | 575   | 745    | 338 | 528 |
| ECO Tiny Ped   | 490   | 530   | 665    | 280 | 470 |
| ECO Wee Ped    | 590   | 530   | 665    | 295 | 485 |
| ECO Xtreme Ped | 670   | 575   | 715    | 325 | 515 |
| ECO Euro Ped   | 670   | 575   | 715    | 325 | 515 |
| ECO Tiny Trad  | 490   | 530   | 665    | 280 | 470 |
| ECO Wee Trad   | 590   | 530   | 665    | 295 | 485 |
| ECO Euro Trad  | 670   | 575   | 715    | 325 | 515 |



## **⚠ 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.**

### Wetbacks

If the home is in a classified "clean air zone", and dependent on requirements/restrictions which may be imposed by your local council, you may or may not be able to install a water heating device. If in doubt consult your local Metro retailer. Only Pioneer's cast jacket wetback system as illustrated on Page 2 (reverse side of this manual) should be fitted to a Metro; alternative wetbacks will void the Metro's emission approvals and may seriously affect the performance of the appliance and void the owner's warranty.

*Note; 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.*

The 2kW, 3kW and 4kW wetback options are fitted to the inside rear of the firebox, with the connection pipe heights illustrated and detailed on the previous page E. Please note:

- Wetback connections for the Tiny models are 92mm left of the flue centre, and all other Metros wetback connections are 140mm left of the flue centre, facing the Metro/wall; the return pipe connection is directly above the inlet connection.
- Reduced height pedestals are available for certain models to reduce wetback connection heights.

- 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 connection holes on the inside of the firebox. On the rear of the wetback casting apply the remaining contents of the tube equally around both connection pipes.
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.

## 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 installation manual can be downloaded from [www.metrofires.co.nz](http://www.metrofires.co.nz), under Flue Systems, or a copy can be obtained from your Metro retailer. Any alternative flue system must comply with and be installed as detailed AS/NZS 2918:2008, and a copy of the installation manual must also be presented with your application to gain consent with your local council.



- Refer "Important Information" on page A.
- The flue systems 150mm diameter flue pipe must terminate a minimum of 4.6 metres above the top surface of the floor protector.

### Pioneer Flueshield

All Metro's have been tested with a Pioneer Double Flue Mounted Shield. For the Metro to be installed with minimal clearances as the Clearance Chart states, ONLY the Pioneer Double Mounted Flue Shield can be used. All other flue shields will invalidate the installation.

The Metro can be installed without a flue shield, if this is the case it needs to be installed as AS/NZS2918:2001 stipulates.

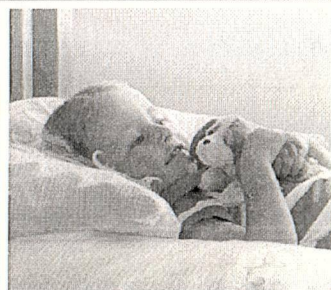
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## Wood Fire Owner's Operation and Warranty Manual



# metrofires

## ECO Freestanding Models

|                                            |   |                                     |     |
|--------------------------------------------|---|-------------------------------------|-----|
| Important information .....                | 1 | Cleaning and maintenance .....      | 4-5 |
| Where to install a Metro in your home..... | 2 | Troubleshooting.....                | 5   |
| Optional wetbacks.....                     | 2 | Metro warranty .....                | 6   |
| Getting to know your Metro .....           | 3 | Optional 10 year warranty.....      | 7   |
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\*Refer to the other side of this manual for Metro installation details



## **WARNING!** Important Information

- **IF YOU DON'T READ THIS ENTIRE MANUAL, YOU MUST READ THIS FIRST PAGE!**
- Any modification of the appliance that has not been approved in writing by the testing authority is considered as breaching AS/NZS 4013
- Do not use flammable liquids or aerosols in the vicinity of this appliance when it is operating
- Do not use flammable liquids or aerosols to start or rekindle the fire
- Never operate your Metro with the door ajar, except on initial start up
- Do not store fuel within the Metro's specified installation clearances
- Do not dry clothes on or near this appliance
- Open the air control before opening the Metro's door
- Never operate your Metro Ped or Trad with the cook top grill removed

## **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 a cracked glass or faulty/missing door seal
- Do not use driftwood, treated or unseasoned (wet) fuel, the use of most types of preservative treated wood as fuel can be hazardous
- Do not empty ash into a combustible container

## Congratulations on the purchase of your Metro wood fire

This low-emission, slow combustion appliance is designed to give you many years of warmth and service, subject to six critical factors. These six factors, if not adhered to are the major causes of unsafe installation, poor performance and flue blockages and failure.

1. Your Metro wood fire must be installed correctly, by a competent or suitably qualified installer.

As correct installation is critical to the performance and safe operation of your Metro, it is recommended your Metro be installed by a 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.

2. The only fuel to be used in this appliance shall be wood that meets the following criteria.
  - Less than 25% moisture,
  - Has not been treated with preservatives or impregnated with chemicals or glue,
  - Is not chipboard, particle board, or laminated board, and
  - Is not painted, stained or oiled
3. The appliance shall be operated at all times in accordance with the "Installation and Operating Instructions" supplied.
4. There shall be no heat re-circulating fan fitted to the appliance
5. In some clean air zones (Urban Canterbury) Metro ECO wood fires can only be installed with a Metro ECO Flue System, as fitting any other flue system will void the ECO Metros approvals to AS/NZS4013:1999. If in doubt consult your Metro retailer.

### Please note the following important points:

- This manual is in two sections, with the installation section detailed at the rear of this booklet. Keep this instruction manual for future reference.

- In New Zealand a building consent is required from your local building authority; the homeowner is responsible for obtaining this consent.
- 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 and reduce the heat output.

*Note: 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 free air circulation. Wet wood stored in a closed woodshed without air circulation will still be wet 12 months later.*

- All freestanding Metro's covered by this manual make ideal cooking appliances.
- It is critical that the fire not be operated with faulty or missing door seals, faulty or missing promet extension (front white board on the baffle plate) cracked or broken door glass. These three areas require regular inspection/maintenance and if not maintained will void the firebox warranty.
- 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 twelve-month warranty, and a five-year firebox warranty. You can extend this firebox warranty to ten years if you purchase the optional extended firebox warranty as detailed on page 7.

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PAGE 1

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## 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 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 and boilers

If your home is in a classified "clean air zone", and dependent on requirements/restrictions which may be imposed by your local territorial authority (council) you may or may not be able to install a water heating device. If in doubt consult your local Metro retailer.

Water heating is another key feature of your Metro wood fire, and on offer are a number of options depending on the model you have purchased. Metro offer a 2kW wetback suitable for the Tiny Rad, Tiny Ped and the Tiny Trad. All other Metro's have a choice of a 3kW and a 4kW wetback. Only Pioneer's cast wetback illustrated should be installed into a Metro wood fire, as alternative wetbacks will seriously affect the performance of the appliance and void its warranty.

*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.

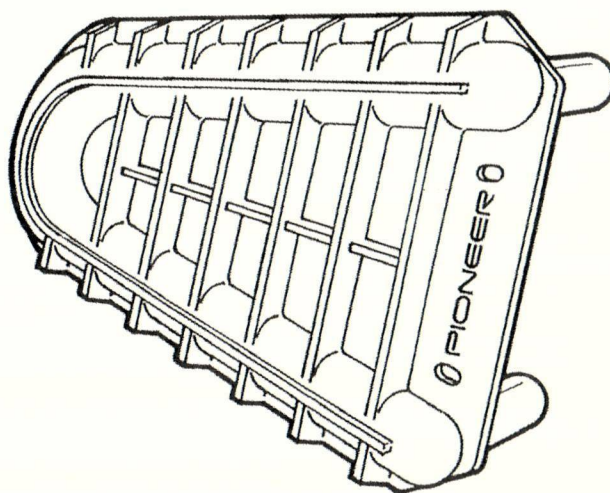
### 3kW or 4kW

The 3kW wetback is usually adequate for most homes; however, if your hot water use is considerable the 4kW would be preferable. Other considerations are:

Distance from the Metro to the storage cylinder will affect the amount of hot water produced. If it is more than 2 metres away the 4kW is usually preferable.

Your climate and the manner in which you will "fire" your Metro are the most relevant factors in choosing the correct output wetback. If you are in a moderate climate or have a modern

THE PIONEER WETBACK DESIGNED  
FOR METRO WOOD FIRES



well-insulated home you are likely to be running your Metro on lower output settings, in which case the 4kW should be used. If however you live in a cold climate, or have an older, cold or large home you are more likely to be "firing" your Metro on a higher burn rate, in which case the 3kW would be better suited.

### 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.

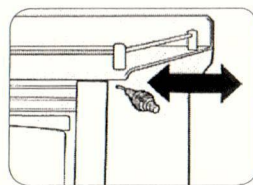


## Getting to know your Metro wood fire

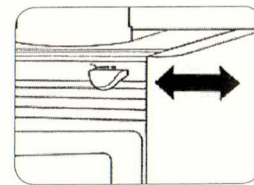
Operating your Metro wood fire is simple and you will quickly learn how to get the best from it. First take a minute to familiarise yourself with your new Metro:-

- Raise the door handle anticlockwise until the latch releases, 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 easy to adjust. This control moves from left to right, which is "low to high".

The Metro Radiant Series 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 SERIES AIR CONTROL



ALL OTHER SERIES AIR CONTROL

All other model Metro's have an air control knob located on the upper front 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 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 will only happen this one time.

### Start up

Place a quantity of loosely crumpled newspaper on the base of the firebox until it is approximately 50% 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 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.

### Note:

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

### Cooking

All Metro's are designed to enable cooking of soups, stews and casseroles including whole chickens 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. Please note: Although very durable, Metro's in a satin stainless look are not recommended to be used to cook on.*



## Cleaning and Maintenance for your Metro wood fire

The Radiant Series and the HT Series are coated with "Pioneer Metallic Black" high temperature paint and will require periodic repainting.

All other model Metro's are coated with either;

- Vitreous enamel in a range of darker colours which 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.
- Selected model Metro's are offered in a satin stainless steel look. Although very durable it is not recommended that Metro's with this finish be used to cook on.

All model Metro's can be cleaned with a damp cloth when the appliance is not operating.

### 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 an oven cleaner, or you may take a ball of crunched up newspaper, moisten it on one side and dab it in the ash from the firebox; all these work well.

If your door glass breaks it must be replaced with 5mm thick ceramic glass, as other types of glass, including tempered or toughened glass, will explode due to the intense heat inside the firebox.

### Door seals

Over time, usually 3-5 years, the door and glass seals will become hard and cause air to leak into the firebox, reducing burn time; at this point they require replacing. Your Metro retailer stocks replacement woven fibreglass door and glass seals, and if required will fit these for you.

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 in the side bricks 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 to enable adjustment as the door seal compresses causing air to leak into the firebox.

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 - 1mm 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**' part of the firebox and should be checked monthly. Usually only the "Promet" (white board) front 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.*

*Note: Burning wood which is not properly seasoned, i.e. to 25% moisture content or less, will expedite this disintegration.*

To remove and replace your top baffle, refer to the flue pipe cleaning instructions on page 5.



## Cleaning and Maintenance for your Metro wood fire - continued

### 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 creosote build-up in the flue pipe. Pioneer Manufacturing Ltd produce a telescopic fluebrush system which is available from your Metro retailer.

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.
- 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 B in the installation section at the rear of this manual, which shows illustrations of the baffle location.*

## Troubleshooting your Metro wood fire

If your Metro has been correctly installed, your fuel is dry and you operate it correctly you will find it is a pleasure to use. Pioneer's many years of experience within the wood heating industry has shown that 95% of complaints and customer dissatisfaction are due to fuel, installation or operational problems. The following may be of assistance if you experience any of these symptoms:

### A. Smoke enters the room when the Metro's door is opened

This usually indicates the flue pipe needs cleaning and if left, the smoking problem will get worse. To remedy; clean the flue pipe, and to avoid the necessity of regular repeat cleans, ensure your fuel is properly seasoned. If however the Metro has always smoked into the room from the day it was installed, it is likely to be due to insufficient flue pipe length or a faulty/unsealed flue system. To remedy contact your installer or Metro retailer.

### B. Occasionally a puff of smoke comes into the room

This is most likely a result of two possible causes:

1. There is insufficient flue pipe height in relation to your roofline, trees or other high obstacles near your home, which is creating a downdraft. Usually a problem when the wind is coming from one particular direction and requires an experienced installer to remedy, by either extending your flue pipe height or fitting a directional or "H" cowl.
2. If the Metro is refuelled but the air control is left on a low setting or the fuel is unseasoned, the fuel will smoulder filling the firebox with smoke and combustible gases. The fuel will eventually ignite and as it does so, the build up

of gases causes a pressurisation forcing smoke into the room. To remedy, ensure your fuel is seasoned and you open the air control to full every time you refuel your Metro.

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

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

### D. The Metro is noisy as it heats up and cools down

1. There will always be some expansion and contraction noise as the Metro heats and cools, however this can be usually reduced substantially 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", so 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.

*Note: 1. Is not applicable on the ECO DV models.*



## Warranty Details for your Metro wood fire

Your Metro is covered by a full twelve month warranty, and a five year firebox warranty. You can extend this firebox warranty to ten years if you purchase the optional extended firebox warranty. The standard warranty is detailed below and the optional extended warranty is detailed on the opposite page.

### Standard Metro Warranty

(NZ Consumer laws apply to this warranty)

Pioneer Manufacturing Limited warrants the steel firebox against defective materials and workmanship which would render it unfit for normal domestic use within a period of five years after date of original purchase.

All other parts including cabinet, door, door seal, glass, baffle, trim, bricks and if applicable wetback are warranted for a period of one year from date of original purchase for domestic use against defective materials and workmanship.

### Warranty Conditions:

- The heater must be installed, operated and maintained strictly in accordance with the building code and the manufacturer's installation and operation manuals.
- This warranty covers replacement or repair at the manufacturer's discretion but excludes freight, travel and/or any other associated costs.
- Operation of this appliance in violation of the warnings in the operation and installation manual will void this warranty.
- Failure to do the necessary inspection & maintenance of this appliance in accordance to the instructions in the operation manual will void this warranty. It is critical that the fire not be operated with faulty or missing door seals, faulty or missing top baffle including the promet extension (front white board on the baffle plate) cracked or broken door glass. These three areas require regular inspection/maintenance and if not maintained will void the firebox warranty.
- The manufacturer 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.

- A claim under this warranty should be directed to the retailer who supplied the Metro wood fire, or if this is not possible write direct to the manufacturer stating details of fault, serial number of your Metro, proof of purchase and name of retailer.

### Warranty Exclusions:

#### This Manufacturers 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.
- Normal recommended maintenance as set out in the Product's Owners Operation 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.

**PIONEER**  
MANUFACTURING LIMITED

Mamaku Street, Inglewood 4330, New Zealand  
PO Box 11, Inglewood 4347, New Zealand  
Ph (06) 756 6520 • Fax (06) 756 6540  
info@metrofires.co.nz • www.metrofires.co.nz

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



Purchase Date

Serial Number

Model

Colour

Retailer

120063

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The Optional Ten Year firebox warranty is detailed on the opposite page

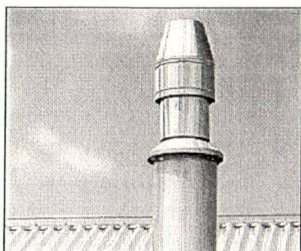


## Pioneer Manufacturing heating accessories

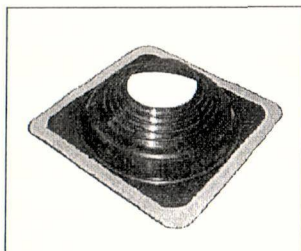
### All the accessories you'll ever need!

Pioneer Manufacturing Limited distribute a wide range of heating accessories, and shown below are some of the heating accessories readily available from your local Metro retailer.

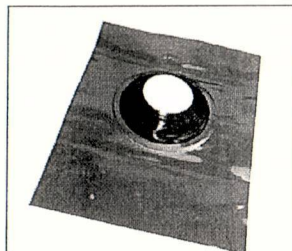
Some of these heating accessories are designed to compliment your Metro wood fire, and some are to assist with the up-keep and maintenance of your Metro wood fire, keeping it in good order for many years to come.



ECO Flue Systems



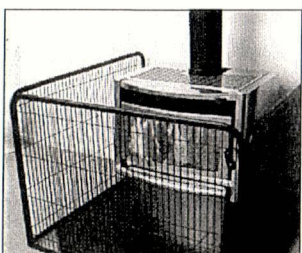
Pioneer Flashrites



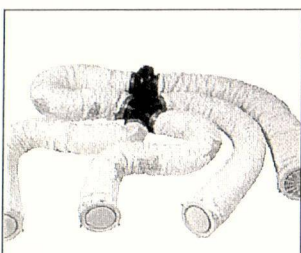
Pioneer Versatiles



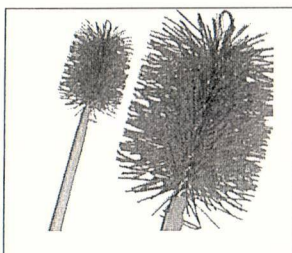
Pioneer High Temperature Paint



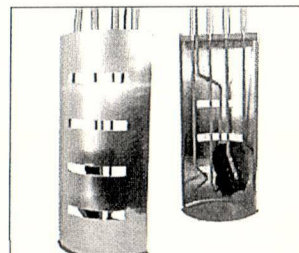
Pioneer Fireguards



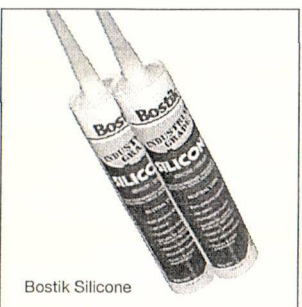
Pioneer Heat Transfer Ducts



Telescopic Flue Brushes  
4 or 6 inch



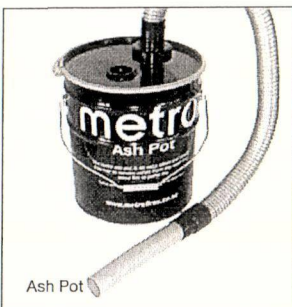
Fireside Toolset



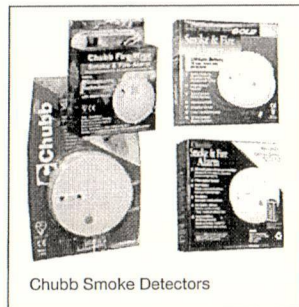
Bostik Silicone



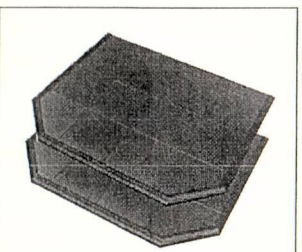
Pioneer Fire Cement



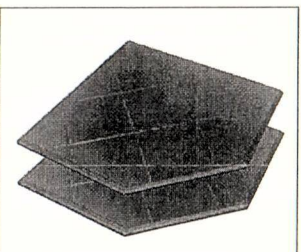
Ash Pot



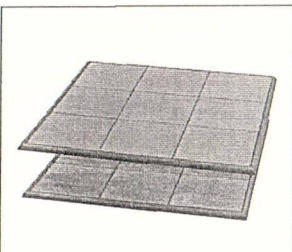
Chubb Smoke Detectors



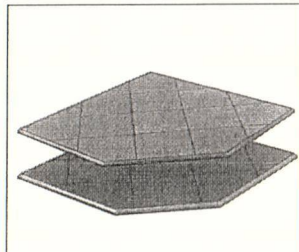
Alloy Wall Floor Protectors



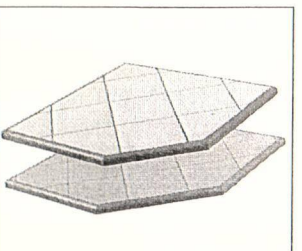
Alloy Corner Floor Protectors



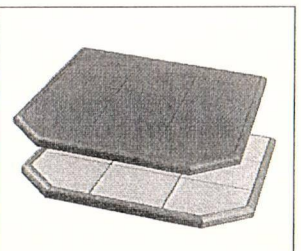
Pine Wall Floor Protectors



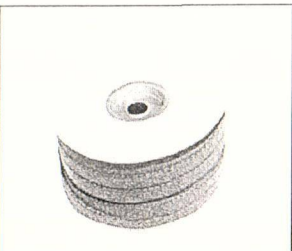
Pine Corner Floor Protectors



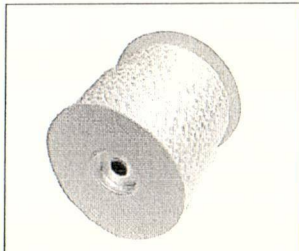
Rimu Corner Floor Protectors



Rimu Wall Floor Protectors



Glass Tape - available in 1.5m lengths



Door Rope - available in 1.5m lengths



## Optional 10 Year Warranty for your Metro wood fire

Pioneer Manufacturing Limited ("Pioneer") offers an extended firebox warranty of ten years from date of original purchase, being an additional five years beyond the standard firebox warranty offered by Pioneer with every Metro wood fire.

### Conditions of extended warranty

(NZ Consumer laws apply to this warranty)

- The Metro wood fire must be installed in New Zealand.
- The Metro wood fire must be installed, operated and maintained strictly in accordance with the building code and the manufacturer's installation and operation manual.
- This warranty covers replacement or repair of the firebox at the manufacturer's discretion and includes all direct material, freight and labour costs.
- The firebox covered by this extended warranty is the 6mm steel firebox only and excludes baffles, bricks, door glass and door components.
- "Pioneer" is not liable for any loss either direct or indirect arising from the failure of any part or operation of the Metro wood fire.
- This warranty is transferable if the Metro wood fire, or the home in which the Metro wood fire is installed, is sold.
- The Metro wood fire must be installed and used in a domestic application.

Registration of this extended warranty option is direct with "Pioneer" the manufacturer. To register, complete the section at the bottom of this page and return it to "Pioneer" together with a cheque for \$100.00 inclusive of GST. You will be sent

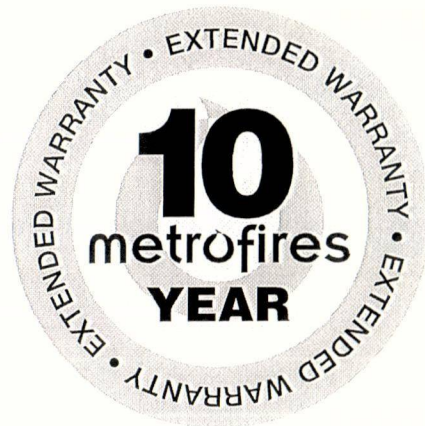
confirmation that your extended warranty is registered on Pioneer's warranty data base together with a tax invoice and warranty registration number.

*Note: Your extended warranty card must be sent to and received by Pioneer Manufacturing within 30 days of the appliance purchase. Included with the completed warranty card and payment must be a copy of the purchase receipt.*

### Extended Warranty Five-Year Service

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

*To register the 10-year warranty detach and complete the section below and post to Pioneer together with your cheque for \$100.00*



### Pioneer Manufacturing Ltd - Extended Warranty Card

Please print in BLOCK letters. Post to: Pioneer Manufacturing Limited, PO Box 11, Inglewood

#### Metro Owner Details

#### Metro Purchased

Surname

First name

Address

Phone

Fax

Email

Model

Colour

Serial No.

Wetback

Purchase Date

Retailer

☐ Payment by cheque for \$100.00 attached

*To register this 10-year warranty please post together with your cheque for \$100.00 to Pioneer Manufacturing Ltd.*

120063

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## BUILDING CONSENT RECORD

LEGAL

DESCRIPTION:

Lot 2 TP55427

PROPERTY

ADDRESS:

80 Connells Street, Southbridge.

OWNER:

Houston

AGENT:

Energy. Ltd.

VALUATION NO: 24170 - 186 - 01

CONSENT NO:

120063

PROJECT

DESCRIPTION:

Solid Fuel Heater.