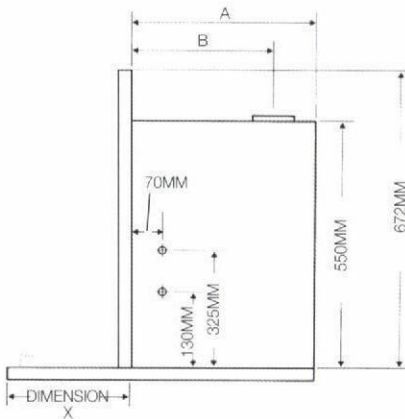
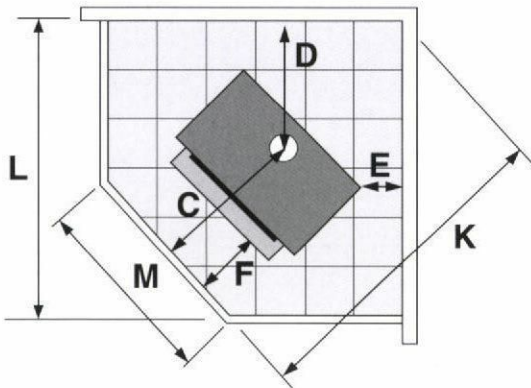
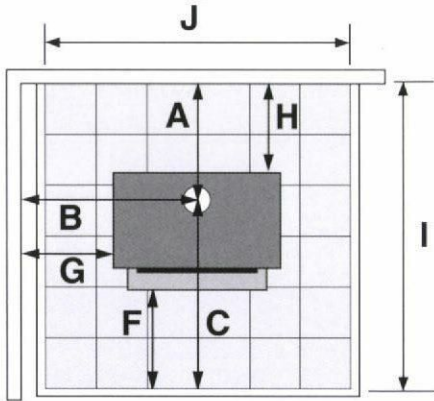


**COUNCIL
COPY**



Document Number: **RDC-207468**

Date Registered: **10/08/2011**

metrofires

2011 Wood Fire Specifications



Insert Installation Specifications

Insert Pre Installation

Metro fireplace inserts are tested to comply with AS/NZS 2918:2001 incorporating appendix "E" when installed in accordance with the installation and operation manual supplied with every Metro wood fire.

Prior to installing your Metro fireplace insert into a masonry chimney, it is important that certain clearances and other requirements are complied with as detailed below :-

Chimney

The masonry chimney must be swept and checked for :-

- Cracks and general overall condition, with repairs carried out if necessary by a suitably qualified person.
- Cavity dimensions to ensure the fireplace insert will fit, it is usually necessary to remove the fire bricks from the lower masonry chimney cavity.
- The base of the masonry chimney cavity on which the Metro fireplace insert will rest must be level, if it is not, it should be levelled using mortar.
- If an ash removal door exists in the base of the chimney it should be sealed shut to prevent air entering the cavity.

Mantelshelf

If a timber or combustible mantelshelf exists above the fireplace insert opening, it should be a minimum distance above the top of the Metro's fascia, minimum distances are:

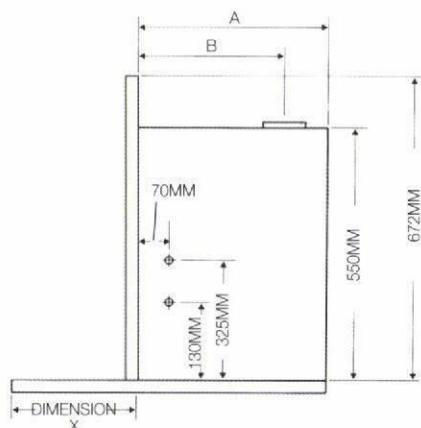
- Metro ECO Smart Insert = 475mm
- Metro ECO Insert = 340mm
- Metro LTD Insert = 460mm

If less than the above minimum specified, a deflector or heat shield will be required to be fitted under the mantel. (REF AS/NZS 2918:2001)

ECO Insert Fan

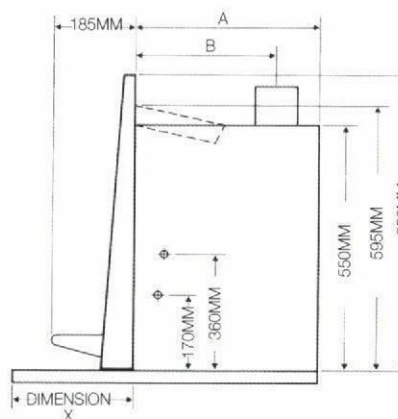
On properties less than 2 hectares, the Metro ECO Insert must be installed with Metro's ECO Insert fan which is a single speed, thermostatically controlled device. Fitting instructions for the fan are supplied with the fan module.

ECO Smart Insert



NOTE: MEASUREMENTS EXCLUDE INSULATING BLANKET.

LTD & ECO Inserts



Insert Floor Protector Requirements

A floor protector must extend from behind the fascia the distance specified in the table below, and 200mm to each side of the door opening.

NOTE – Floor protector requirements differ for the three models listed;

ECO Smart Insert: The ECO Smart Insert requires an insulating floor protector with a recommended construction of tiles on 26mm thick eterpan. The forward projection is dependent on the height of the fireplace insert above the combustible floor, which is detailed below.

ECO Insert: Only requires a non-insulating "ash-hearth" floor protector [recommended construction is "tiles on 6mm thick villa board", although any non-combustible material fixed direct to the combustible floor is acceptable including glass or steel/aluminum sheet etc]

LTD Insert: Requires an insulated floor protector and the forward projection is dependant on the height of the fireplace insert above the combustible floor. The schedule of projections listed for heights of 0mm to 41mm+ can be achieved by the thickness of the floor protector, raising the insert or a combination of the two. [Recommended construction is "tiled eterpan" with a combined thickness as specified]

Vented Zero Clearance Cabinet

The function of the Metro Vented Zero Clearance Cabinet (VZCC) is to enable the Metro LTD Insert, ECO Insert and ECO Smart Insert to be installed into a timber framed wall. The VZCC therefore replaces the more traditional masonry chimney at a fraction of the cost. Detailed instructions for the VZCC are available from your Metro retailer or www.metrofires.co.nz

Insert Wood Fire Flue Systems

It is recommended all Metro wood fires be installed with the Metro ECO Flue System which comes complete with detailed installation instructions. All Metro ECO Flue Systems include Metro's vertical discharge cowl which improves draft and performance.

Fascia Model	Base width	Body Width
ECO Smart Insert	890mm	890mm
ECO Trad Fascia	900mm	810mm
LTD & ECO Trend Fascia	810mm	810mm

Firebox Model	A	B	Width
ECO Smart Insert	495mm	405mm	560mm
ECO Insert	500mm	405mm	560mm
LTD Insert	500mm	405mm	560mm

Floor Protector Requirements									
Height (Floor Protector)	0mm	10mm	15mm	20mm	25mm	30mm	35mm	40mm	41mm+
ECO Smart Insert (Dimension X)	395mm	371mm	371mm	353mm	353mm	332mm	332mm	312mm	312mm
ECO Insert	Dimension X = 300mm minimum projection is required irrespective of the height of the floor protector.								
LTD Insert (Dimension X)	455mm	455mm	455mm	436mm	424mm	408mm	396mm	366mm	350mm

Installation Clearances & Specifications

Model Clearances

Minimum clearances shown are in mm, with a Pioneer double flue mounted shield fitted. All Metro wood fires comply with AS/NZS2918:2001. Specifications were correct at the time of printing, but may alter and those detailed within should be used only as a guide. Refer to the installation and operation manual supplied with every Metro, or if in doubt, consult your Metro retailer.

Clearance Reductions

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

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

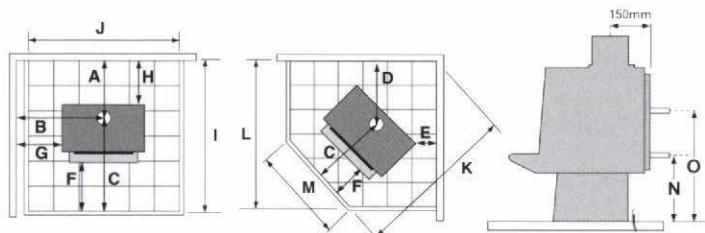
Freestanding Floor Protectors

Freestanding Metro wood fires do not require an insulating floor protector. They are tested and comply with the minimum floor protector requirements of AS/NZS 2918:2001. Note:

- Minimum floor protector sizes are specified below.
- A floor protector can include ceramic tiles with grouted joints, a sheet of toughened glass, panel steel or any other non combustible material laid directly onto a wooden floor.
- If being installed onto a concrete or non combustible floor, no floor protector is required.

Freestanding Flue Systems

All Metro freestanding wood fires should be installed with the energy efficient Metro ECO Flue System which comes complete with detailed installation instructions. All Metro ECO Flue Systems include Metro's vertical discharge cowl which improves draft and performance.



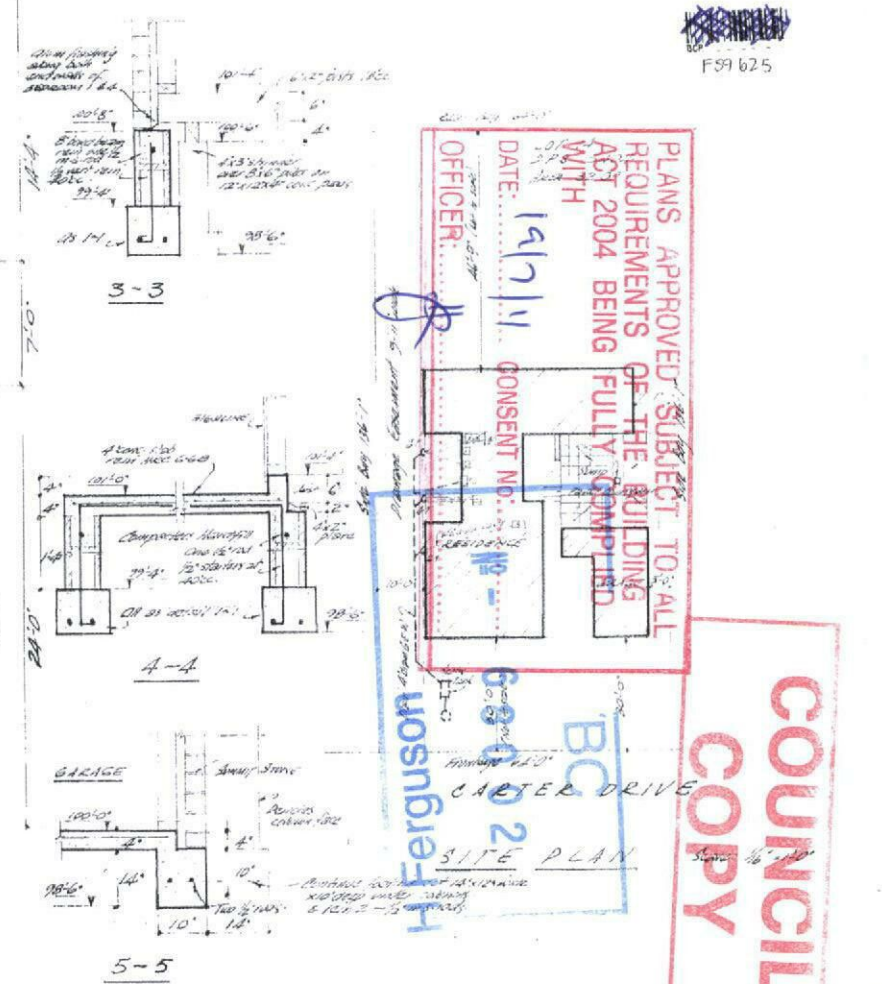
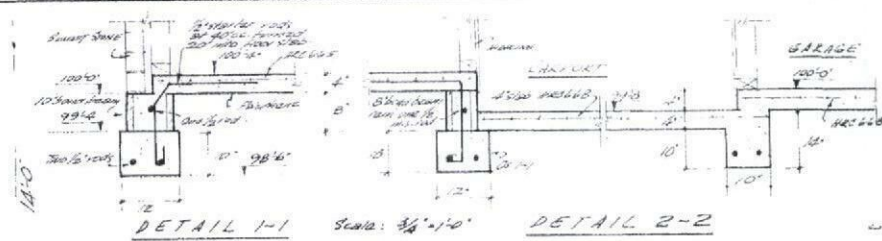
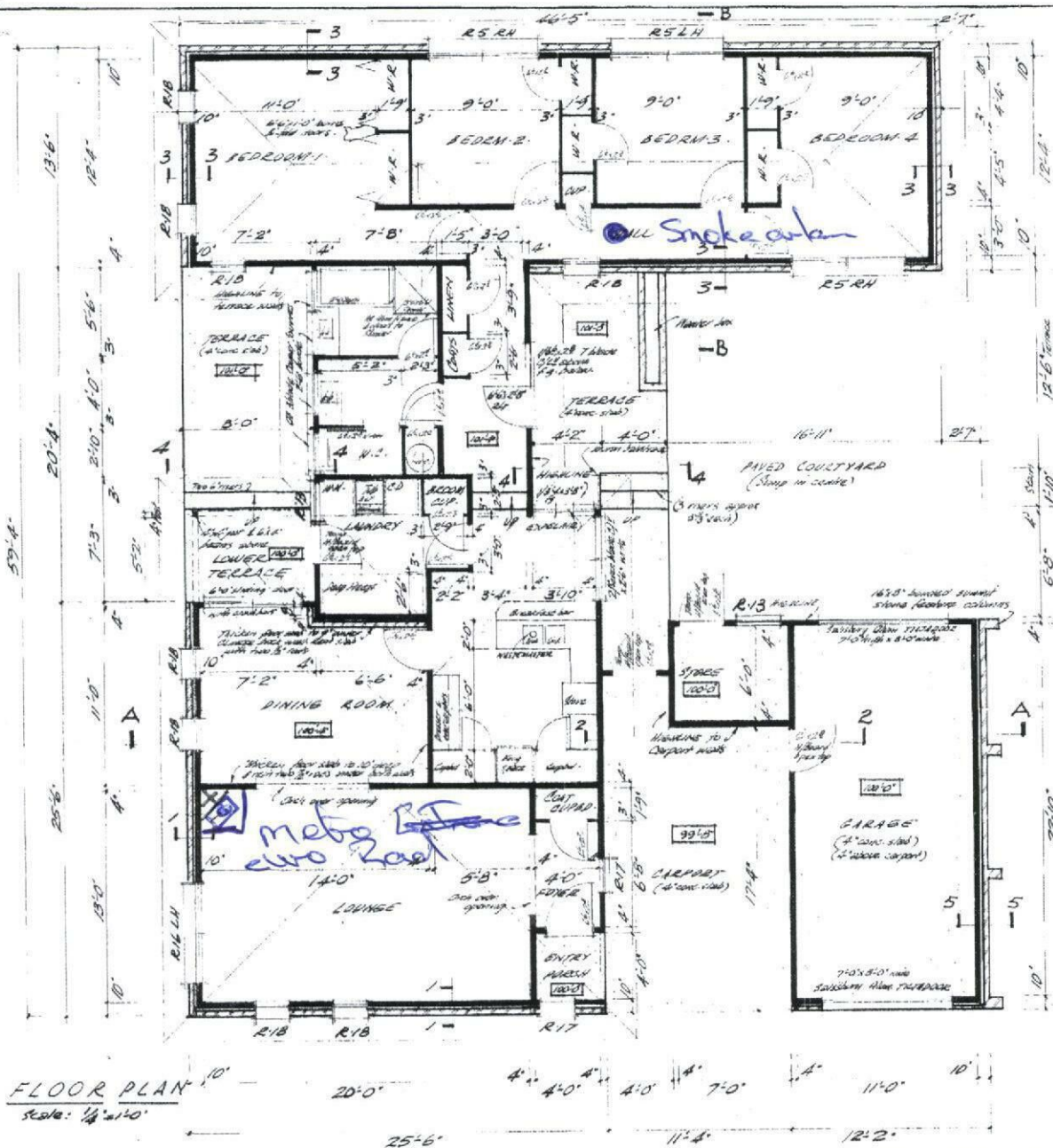
Wetback connections for the Tiny models are 92mm left of the flue centre, all other Metro models are 140mm left of the flue centre facing the Metro/wall.

Seismic restraint

Clearances & Dimensions	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Width	Depth	Height
ECO Tiny Ped	210	430	580	290	25	200	185	60	790	650	990	875	250	280	470	490	530	665
ECO Tiny Rad	225	552	580	420	150	200	300	75	805	650	1165	925	250	280	470	505	530	665
ECO Tiny Trad	210	430	580	290	25	200	185	60	790	650	990	875	250	295	485	490	530	665
ECO Wee Rad	260	525	580	385	80	200	220	110	840	825	1125	950	425	295	485	607	530	665
ECO Wee Ped	260	595	580	385	85	200	300	110	840	825	1120	950	425	295	485	590	530	665
ECO Wee Curve (DV)	300	555	580	405	100	200	250	150	880	825	1150	975	425	280	470	607	530	665
ECO Wee Trad	260	595	580	385	85	200	300	110	840	825	1120	950	425	295	485	590	530	665
ECO Xtreme Ped (DV)	230	585	625	495	170	200	250	80	855	905	1325	1120	505	325	515	670	575	715
ECO Xtreme Rad (DV)	250	575	625	435	80	200	200	100	875	905	1240	1065	505	338	528	750	575	745
ECO Euro Rad (DV)	250	625	625	435	80	200	250	100	875	905	1240	1065	505	338	528	750	575	745
ECO Euro Ped (DV)	230	585	625	495	170	200	250	80	855	905	1325	1120	505	325	515	670	575	715
ECO Euro Trad (DV)	230	585	625	495	170	200	250	80	855	905	1325	1120	505	325	515	670	575	715
LTD Wee Rad	250	555	580	400	80	200	250	100	830	825	1145	950	425	295	485	607	530	665
LTD Wee Ped	250	595	580	400	85	200	300	100	830	825	1145	950	425	295	485	590	530	665
LTD Xtreme Ped	250	575	625	455	110	200	240	100	875	905	1265	1065	505	340	530	670	575	715
LTD Xtreme Rad	250	575	625	455	80	200	200	100	875	905	1265	1065	505	353	543	750	575	745
LTD Euro Ped	250	575	625	455	110	200	240	100	875	905	1265	1065	505	340	530	670	575	715
LTD Mega Rad	270	675	725	500	125	200	300	120	995	905	1425	1175	505	353	543	750	675	745
LTD Mega Ped	270	610	725	465	130	200	275	120	995	905	1400	1140	505	340	530	670	675	715

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



F99625

PLANS APPROVED SUBJECT TO ALL
REQUIREMENTS OF THE BUILDING
ACT 2004 BEING FULLY COMPLIED
WITH
DATE: 14/7/11
OFFICER: [Signature]
CONSENT NO: [Signature]

COUNCIL COPY

PROPOSED RESIDENCE for MR. & MRS. A. LAING
AT LOT 14 CARTER DRIVE ROTORUA

Bis 87-049
Ris 86532

SCALE 1/8" = 1'-0"	DRAWN: [Signature]	DESIGN & DRAUGHTING SERVICE	REF. No.	SHEET No.
CHECKED:	DATE: 14/7/11	W. Bruce Kearney, N.Z.I.D. (Arch.) Office: C.M.I. Building, Frasers St. P.O. Box 207 Rotorua	1 IN	2 SHEETS
		Phone 81-688		

IMPORTANT - PLEASE NOTE



WARNING

- METRO ECO FLUE SYSTEMS MUST BE INSTALLED TO ALLOW UNRESTRICTED AIR SUPPLY FROM EITHER THE CEILING CAVITY FOR AN ECO BASE KIT, OR ABOVE THE ROOF LINE IF THE BASE & OPTION KITS ARE BOTH INSTALLED. PLEASE READ THESE INSTRUCTIONS FULLY PRIOR TO INSTALLATION AND FAMILIARISE YOURSELF WITH THE INSTALLATION OPTIONS AND VARIOUS COMPONENTS OF THE ECO FLUE SYSTEMS.
- THIS ECO FLUE SYSTEM MUST BE INSTALLED INTO A "VENTED" FLAT CEILING CAVITY, OR HAVE AN ECO OPTION KIT ADDED TO THE FLUE SYSTEM TO PROVIDE AN EXTERNAL AIR SUPPLY.
- THIS ECO FLUE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS2918:2001 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODES.
- ANY MODIFICATION TO THIS FLUE SYSTEM THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED TO BE IN BREACH OF ALL APPROVALS GRANTED.



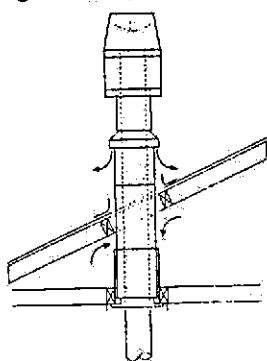
CAUTION

MIXING OF FLUE SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS SITUATIONS. WHERE SUCH ACTIONS ARE CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED. PRIOR TO INSTALLING THE ASSEMBLED FLUE INTO THE MASONRY CHIMNEY CAVITY, MAKE CAREFUL NOTE TO ENSURE THERE ARE NO OVERHEAD POWER LINES IN CLOSE PROXIMITY.

INSTALLATION OPTIONS

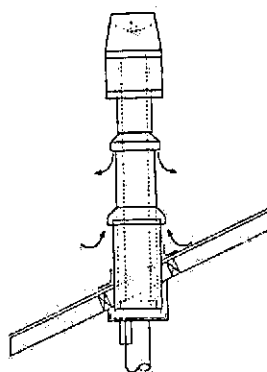
Detailed below are the more common installation methods for installing Metro ECO Flue Systems. For safety and performance reasons it is critical installation is carried out by either a registered installer, or a person suitably qualified and competent to carry out this work.

Single Storey Installations



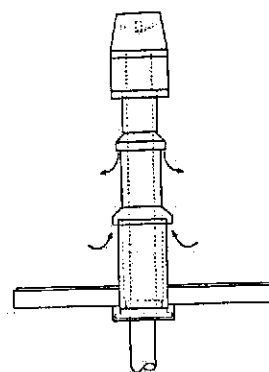
FLAT CAVITY CEILING

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



SLOPING CEILING

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



FLAT CEILING/ROOF

Requires both Base & Option kits as per sloping ceiling unless a vented ceiling cavity exists.

Two Storey Installations



2ND FLOOR
EXPOSED FLUEPIPE

Requires an ECO Base kit only with additional lengths of Fluepipe, a floor penetration kit, 1 x 1200mm long mesh/screen.



2ND FLOOR
ENCLOSED FLUEPIPE

Requires an ECO Base kit only with additional lengths of Fluepipe, 200mm & 250mm inner/outer combination liners, an ECO 2nd floor vent cover and an additional ceiling plate with a 250mm diameter hole.