

⚠ ATTENTION!

Installation of the ECO Trend Insert and LTD Trend Insert into a Vented Zero Clearance Cabinet (VZCC) elevates the appliance and fascia by 45mm.

To complete installation to conceal the VZCC base runners, a Metro Pine Insert insulated floor protector is available. (See page 5)



metrofires

ECO/LTD Insert Vented Zero Clearance Cabinet (VZCC) Installation Manual

Fits Metro ECO/LTD Trend Inserts only

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⚠ WARNING! Important Information for the installer

- It is critical to the safe installation of a vented zero clearance cabinet (VZCC) that you are conversant with the installation of wood fires and competent to undertake this installation.
- This vented zero clearance cabinet is for the ECO Trend Insert or LTD Trend Insert only.
- You must read the following five points prior to starting the installation.

Stage 1 - Unpacking and familiarisation

The function of the Metro ECO/LTD Insert Vented Zero Clearance Cabinet (VZCC) is to enable the Metro ECO Trend Insert and LTD Trend Insert wood fires to be installed into a timber framed wall replacing a masonry chimney at a fraction of the cost.

1. Installation must be strictly in accordance with this manual to comply with the test approvals to AS/NZS 2918:2001 held by Pioneer Manufacturing Ltd. The installation of any model wood fire other than the ECO or LTD Trend Insert into this VZCC will not comply with the test approvals held by Pioneer Manufacturing Ltd and may create a fire hazard.
2. Certain points within this manual are critical to the safe operation of the VZCC, these points are highlighted by being shaded within a grey panel.
3. Insulating spacer blocks are attached to the rear, sides and top of the VZCC. These blocks must not be removed, they may touch timber framing as their function is to ensure a minimum airspace of 15mm is maintained on top and 20mm airspace at the rear and both sides between the

VZCC and any combustible framing or materials built around it.

4. There is a white insulating blanket pre-fitted to the ECO/LTD Insert firebox outer cabinet. It is important that this insulating blanket remains installed and in good condition as detailed in Stage 5 of these instructions. Do not remove this blanket under any circumstances. At no time of installation is any modification to the VZCC or appliance permitted. To do so will change the as tested structure potentially resulting in a fire hazard and removing all warranty coverage.
5. Refer to stage 7 in relation to Floor Protector requirements prior to commencing installation.

The Metro "Vented Zero Clearance Cabinet"

Having read the five critical points above, unpack and familiarise yourself with the various components of the VZCC as detailed and illustrated in Diagrams 1 and 2 below;

Supplied in the VZCC Pack:

- 1 x Assembled cabinet body
- 1 x 200mm dia. inner liner spigot
- 1 x 250mm dia. outer casing spigot
- 1 x Metro Insert replacement top panel
- 1 x Bag of assembly screws, bolts and nuts
- 1 x Installation manual

Not Supplied BUT REQUIRED:

- 4 x Restraint fixtures, masonry anchors or wood screws
- 1 x Metro ECO Built-In flue system
- 1 x Metro ECO/LTD Insert firebox with fascia

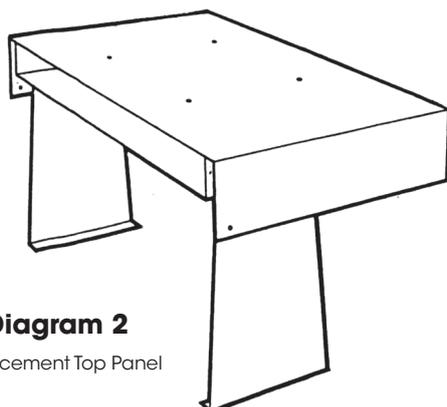


Diagram 2

Replacement Top Panel

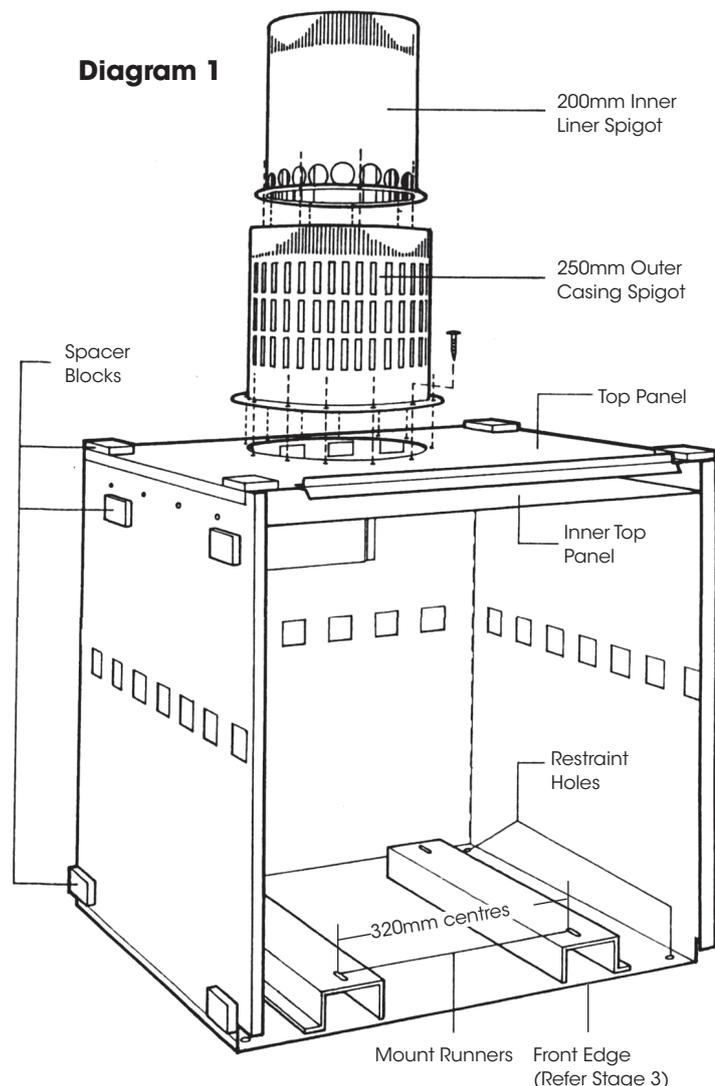


Diagram 1

Stage 2 - Preparing the wall opening/cavity

⚠ CAUTION! Important Information

If the enclosure is constructed to the full height of the room and is fully open/vented into the ceiling cavity of the home, then the venting requirements as specified below are not required.

Cavity Venting Requirements

- It is common for the installation cavity to extend the full size of the VZCC vertically through to the roofline. However, if it is necessary to reduce the cavity size which the flue system passes through, it is critical that a minimum cavity dimension of 270mm x 270mm extends a minimum height of 200mm above the VZCC to provide a 10mm airspace required to allow cooling air to enter the slots provided in the outer casing spigot as illustrated in Diagram 1.
- Air vents are required on three faces of the enclosure, both sides and the rear. The top of these vents must be no higher than 300mm above the floor and have a minimum surface area of 16000mm² per face. i.e 400mm x 40mm of vent area on each of the three faces of the VZCC. The VZCC may also be vented through the floor.
- If the enclosure is through an external wall, suitable precautions will be necessary to prevent rodents and debris from entering or restricting the air vents. If grilles are used, ensure the minimum vent area is maintained through the grille itself.

Prepare an opening in the wall as illustrated.

Note: Standard wall lining materials including gib board are acceptable as a wall lining material. This includes the wall directly behind the Metro fascia.

Width of opening - **700mm suggested**
 - 800mm maximum
 - 690mm minimum

Height of opening - **685mm suggested**
 - 690mm maximum
 - 685mm minimum

- If the VZCC is built into an enclosure, the enclosure must be vented as illustrated in Diagram 4 and specified in the grey panel above.
- Insulation is not required under the VZCC, it may sit directly onto a timber or particle board floor.
- The distance from the front edge of the enclosure (directly behind the fascia) to the centre of the flue is 410mm as shown in Diagram 4.

Note: If a brick front is to be built you need to allow for the thickness of the bricks.

Diagram 3

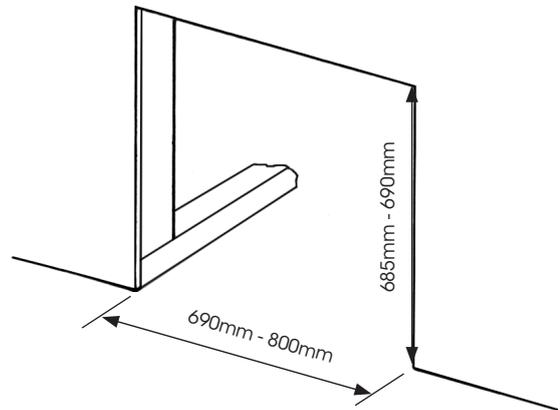
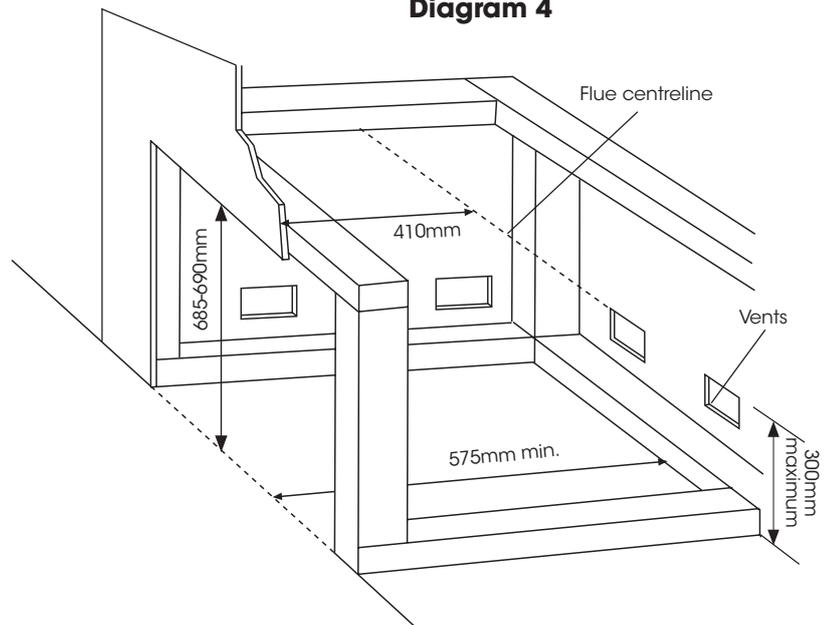


Diagram 4



Stage 3 - Installing the Vented Zero Clearance Cabinet

CAUTION! Important Information

- Position the VZCC into the wall opening you have created (Diagram 3), slide the cabinet into the cavity until the front edge of the VZCC's base panel is flush with the front face of the wall lining (Refer Diagram 1).

It is critical for the safe and efficient operation of the ECO/LTD Trend Insert wood fire fitted into a VZCC, that this front edge of the VZCC base panel **MUST BE FLUSH** with the front edge of the wall lining. Frequently at time

of installation the wall lining may not be complete, so if 10mm gib board is being used to cover the framing, the installer will need to have the front edge of the base panel 10mm forward of the framing. Similarly if a brick facade is being constructed, the installer must move the VZCC forward so the front edge of the base panel ends up flush with the front face of the bricks once constructed.

- Check the VZCC is central by ensuring the clearance between each side of the cabinet and the sides of the opening are equal.
- Secure the VZCC to the floor through the four restraint holes provided in each corner as illustrated in Diagram 1. Masonry anchors are required for a concrete floor and wood screws for a timber or particleboard floor.
- Position the 200mm diameter "Inner liner spigot" through the 245mm diameter hole at the rear/top panel of the VZCC, it will rest on the inner top panel of the VZCC. (refer Diagram 1). Secure the "Inner liner spigot" into position using 12 of the self tapping screws supplied.
- Position the 250mm diameter "Outer casing spigot" centrally over the 200mm diameter spigot. Using the remaining 12 self tapping screws supplied, secure this spigot into position.

Note: This must be secured rigidly to meet the seismic restraint requirements of AS/NZS 2918:2001

Stage 4 - Preparing the Metro Insert Fascia

The fascia of the Metro Insert woodfire must be modified prior to fitting to the firebox installed into the VZCC, this is critical to the safe operation of the VZCC.

CAUTION! Important Information

- A cover plate is fitted to the top of the fascia on its rear face, refer diagram 5.
- This plate blocks airflow through the upper louvres and must be removed and discarded.
- Remove the two self-tapping screws located one at each end of the cover plate and discard.

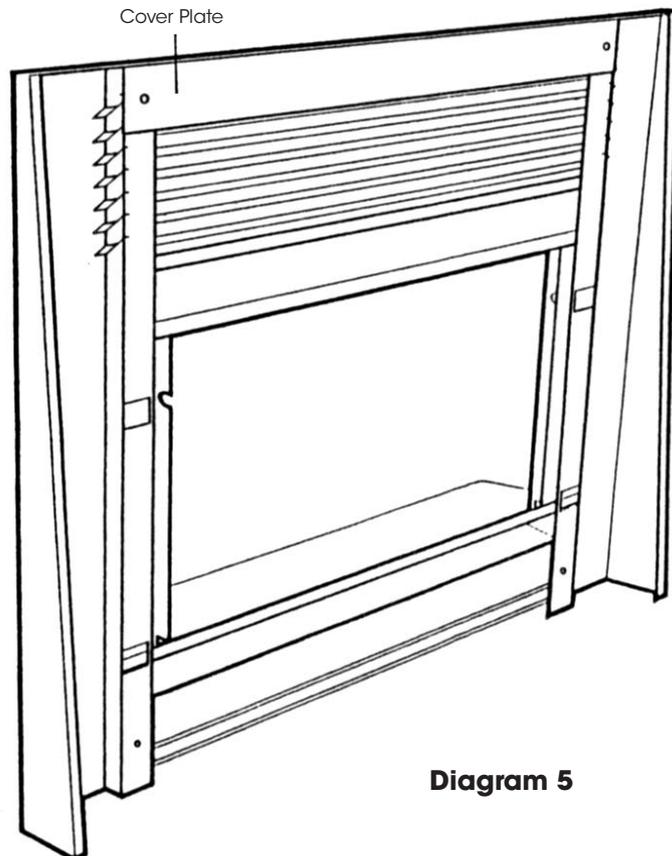
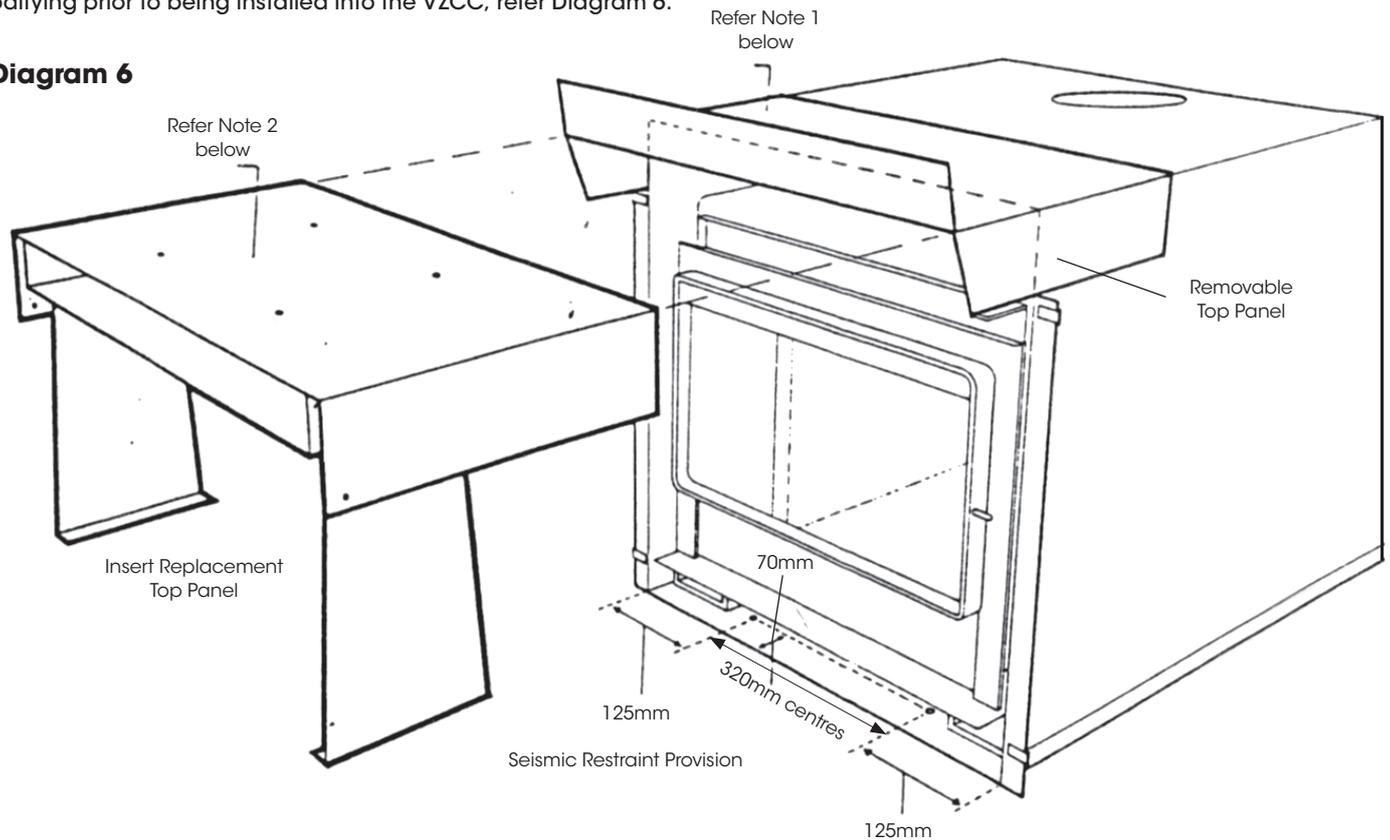


Diagram 5

Stage 5 - Preparing the Metro Insert Firebox

The Metro ECO Trend and LTD Trend Insert firebox assemblies require modifying prior to being installed into the VZCC, refer Diagram 6.

Diagram 6



CAUTION! Important Information

1. Remove and discard the "removable top panel" fitted to the outer cabinet of the insert firebox.
2. Replace the discarded top panel with the "insert replacement top panel" illustrated in the above diagram. Ensure the rear/top edge of the replacement top panel fits into the groove provided in the insert's cabinet as illustrated in the inset Diagram B on Page 2 of the ECO Insert and LTD Insert Installation and Operation manuals. Secure the replacement top panel in position by fitting 2 self tapping screws supplied into the "lower" mounting holes provided.
3. The insert firebox's outer cabinet is supplied with a white insulating blanket fitted to its top face. This blanket also covers the upper sections of both sides and the rear panel of the firebox cabinet. It is critical that this insulating blanket remains fitted.

Note: This replacement top panel must be mounted level when installed into the VZCC.

Take care not to rip/damage the insulating blanket.

Complete the assembly of the Inserts Firebox as detailed in the manual supplied with the Metro ECO Trend Insert and LTD Trend Insert wood fires.

Stage 6 - Installing the Metro Insert Firebox

With the Metro Insert firebox now modified and assembled, you are now ready to install it into the VZCC;

- Position the Insert Firebox assembly with its rear facing the front opening of the VZCC. Taking care not to damage the white fibre insulating blanket on the top and upper sides of the insert cabinet, raise the rear of the unit and slide it back into the VZCC. The base of the Metro Insert will be sitting on the mount runners of the VZCC (refer Diagram 1).
- The front side panels of the VZCC have return folds facing inwards, the front side panels of the insert assembly have return folds facing outwards. Move the insert firebox forward or backwards so that the insert assembly return folds are flush. Ensure the gap between the returns on each side are equal.
- Look down from the top of the cabinet to make sure the firebox flue spigot is central with the cabinet spigots, some fine adjustment may be necessary.
- The Insert firebox assembly must be securely bolted to the VZCC to meet the seismic restraint requirements of AS/NZS 2918:2001.
- Using the two x 6mm bolts, nuts & washers supplied, bolt through the seismic restraint holes as detailed in Stage 5 (refer Diagram 6). These holes will align with the slots provided at the front of the mount runners (refer Diagram 1).

Stage 7 - Building/Installing the Floor Protector

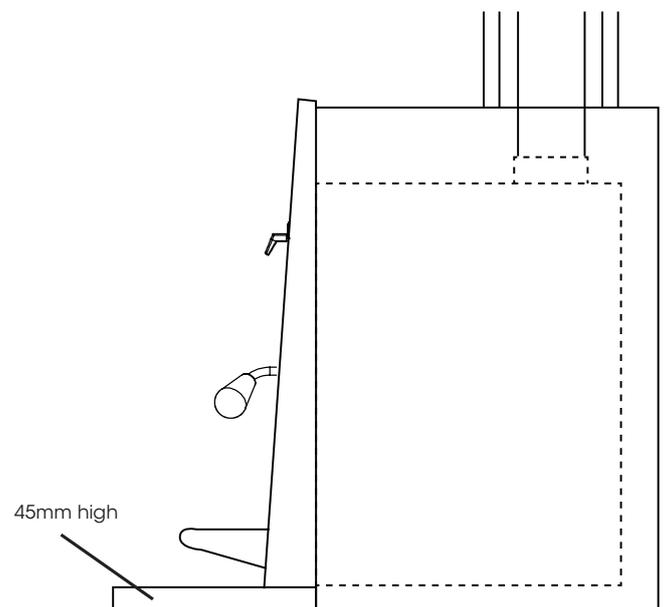
CAUTION! Important Information

- All installations of the Metro Insert Firebox in combination with a VZCC onto a combustible floor require an insulated floor protector that complies with AS/NZS 2918:2001 and this installation manual.
- Installation of the Metro Insert Firebox into a VZCC elevates the appliance and fascia by 45mm. To conceal the space between the surface of the floor and the underside of the fascia, a 45mm floor protector is required. If thicker than 45mm the fascia will not fit centrally over the door, and the door will foul. If the floor protector is less than 45mm, a gap will be visible under the fascia which may look unsightly.
- Metro offer a Pine Insert insulated floor protector to suit this application.

Combustible Floor

If the Metro Insert wood fire in combination with a VZCC is installed on a combustible floor then an insulating floor protector is required to be fitted and must comply with AS/NZS 2918:2001. This Floor Protector must be a minimum width of 830mm and a minimum overall depth of 300mm for the ECO Trend Insert and 350mm for the LTD Trend Insert.

Minimum overall depth is the distance from the front of the wall lining (behind the fascia) to the front point of the Floor Protectors non-combustible surface.



The Floor Protector must have an insulating rating which is equal to or greater than 26mm thick Eterpan LD.

Non-combustible/Concrete Floor

If the Metro Insert wood fire in combination with a VZCC is installed on a concrete or non combustible floor, then a floor protector of 45mm thickness will be required in order to conceal the 45mm space between the base of the fascia and the floor. However, in this situation the floor protector does not need to have any insulating properties but it must be constructed from non combustible materials.

Stage 8 - Fitting the Metro Insert Fascia

Fit the fascia as instructed in the Metro Inserts Installation and Operation manual.

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

- Metro LTD Trend Insert = 460mm
- Metro ECO Trend Insert = 340mm

If less than the above minimum specified, a deflector or heat shield will be required to be fitted under the mantle in accordance with AS/NZS2918:2001.

Stage 9 - Fitting the Flue System

The Metro ECO Built-In Flue System incorporates Metro's unique vertical discharge cowl which improves flue draft and performance of the Metro wood fire.

The Metro ECO Built-In Flue System comes standard with the necessary 200mm and 250mm liners that are needed for this installation.

! CAUTION! Important Information

- As detailed within AS/NZS 2918:2001, it is not allowed to mix flue systems or components from different suppliers or manufacturers. The inner and outer flue spigots supplied with the Metro ECO/LTD Insert VZCC are Metro flue system components designed to mate up with the Metro ECO Built-in Flue System. Therefore only the Metro ECO Built-In Flue System can be used for installation with the Metro ECO/LTD Insert wood fires installed into a VZCC.

The top of the flue must terminate a minimum of 4.6 metres above the top of the floor protector, the "active" 150mm diameter stainless steel flue pipe must be fully encased

with both 200mm and 250mm diameter galvanised or stainless flue liners/casings over its entire length, and the flue system and its installation must comply with AS/NZS 2918:2001. Additional flue system installation criteria which needs consideration is detailed below.

- If the flue system is to be enclosed in a structure replicating a conventional masonry chimney, the base of the weather cowl must be a minimum of 500mm above the top of the false chimney.

Flue System Minimum Heights

In compliance with AS/NZS2918:2001.

The Metro ECO Built-In Flue System complies with AS/NZS2918:2001 and its 4.6 metre height requirement (4.6 metre minimum from the top of the floor protector to the top of the fluepipe). However as external structures and the proximity of other buildings will

differ for every installation, some situations will require additional flue height to comply with the standard. Refer Diagrams 7 and 8 below. (All measurements in mm)

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

Diagram 7

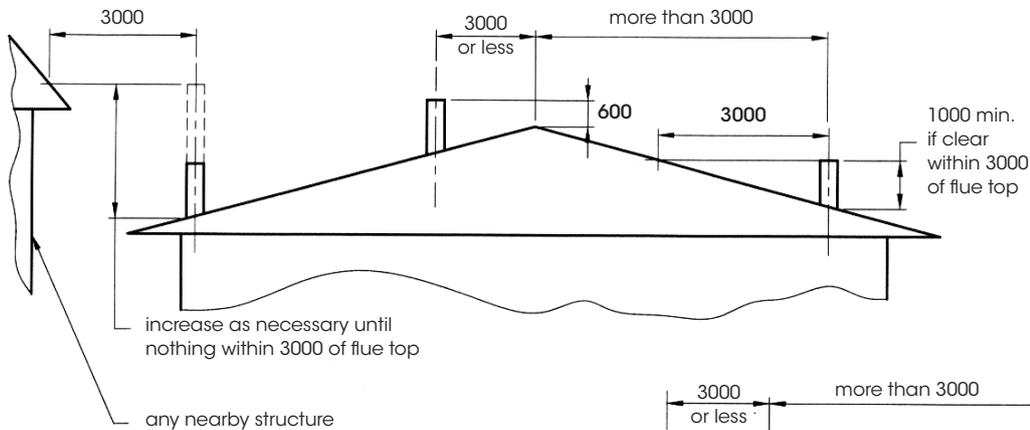
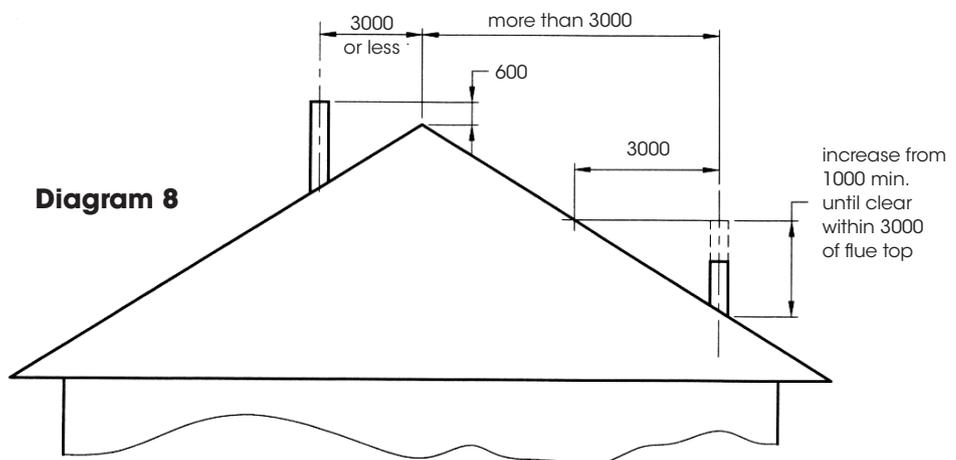


Diagram 8



Summary of Clearances

Side Clearance

If the fascia is close to a combustible wall which projects forward of the installation (a side wall), the minimum distance between the side of the fascia and the wall is 160mm. Combustible building materials may touch the side of the fascia providing they do not extend in front of the fascia where they will be affected by radiant heat through the door glass.

Mantle

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

- Metro LTD Trend Insert = 460mm
- Metro ECO Trend Insert = 340mm

If less than the above minimum specified, a deflector or heat shield will be required to be fitted under the mantle in accordance with AS/NZS2918:2001.

Floor Protector

The Floor Protector must be a minimum 830mm wide and 300mm deep for the ECO Trend Insert, and 350mm deep for the LTD Trend Insert.

If you are in any doubt of any aspects of these instructions or the installation itself, refer to the Metro retailer who supplied the VZCC, a qualified installer or the manufacturer.