



# PYROCLASSIC FIRES

## **INSTALLATION INSTRUCTIONS** **for PYROCLASSIC FIRES LTD**

### **100mm SLOPING CEILING FLUE KIT**

THIS FLUE KIT HAS BEEN MANUFACTURED IN ACCORDANCE WITH AS/NZS 2918:2001  
AND TESTED TO APPENDIX 'F'

**WARNING:** TO ENSURE SAFETY THIS FLUE KIT MUST BE INSTALLED AS OUTLINED IN THESE INSTRUCTIONS. WOOD FIRE AND FLUE PIPE CLEARANCES FROM COMBUSTIBLE WALLS MUST BE IN ACCORDANCE WITH WOOD FIRE MANUFACTURERS SPECIFICATIONS AND AS/NZS 2918:2001.

**CAUTION:** MIXING FLUE SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.

**CAUTION:** IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT THE INSTALLATION OF THIS FLUE KIT COMPLIES WITH AS/NZS 2918:2001. THE APPLIANCE MANUFACTURERS SPECIFICATIONS FOR FLUE PIPE SHIELD AND CEILING PLATE AND THAT THE RELEVANT BUILDING CODES ARE ADHERED TO.

To install this flue design the installer should be familiar with the installation of flue kits for standard ceilings and have competent carpentry and roofing skills. They should also be aware of the 4.6 metre height requirements of AS/NZS 2918:2001 and minimum height requirements as per figure 4.9 (Diagram C).

This Sloping Ceiling kit is designed for installations into ceilings with slopes of up to 45 degrees.

All instructions refer to Diagrams C and D.

The flue pipes are tapered to fit the upper section inside the lower one.  
Our Full Flow Cowl (ie. no cap), prevents dripping of condensed acids down the chimney.  
The flue discharges some 18 litres of water as vapour for each 30kg of dry wood burned.

Rain does no harm. **Do not put a cap on the Pyroclassic Flue System.**

### Installation

1. To install the Pyroclassic Sloping Ceiling Flue Kit begin by locating the Pyroclassic IV fire (or the Pyroclassic raised hearth if it is being used) in its proposed position, and mark a point on the ceiling that is directly above the centre of the fire's flue outlet, (or the hole in the raised hearth). Check the location allows the Outer Casing of the Thermosiphon Assembly to clear all structural roof timbers.
  2. Cut a square hole in the ceiling and a corresponding hole in the roof 250mm wide. Cut the length to suit the ceiling angle to fit the Ø250mm Thermosiphon Assembly (use the Ceiling Tile as a reference).
  3. Mount the Thermosiphon Assembly by lowering into the hole and fix to the roof at 4 points, 90 degrees apart, using the mounting brackets provided.
  4. Ensure the 250mm Outer Casing is at least 150mm below the ceiling on the lower side and is **securely installed**, (remembering this has to take the whole weight of the outer flue system).
  5. With the Thermosiphon Assembly secured in place, fit an appropriate E2 compliant flashing to the roof, silicon seal the edges and fix flashing securely to the roof.
  6. Attach Ceiling Tile with 4 screws through each corner into the ceiling. Now fit the Dress Ring of the Thermosiphon Assembly by firmly pressing into the Outer Casing until rim is bottomed. Three rivets is sufficient to secure the cap in place (you may wish to omit a rivet from the frontal area for aesthetic reasons).
  7. With the Pyroclassic fire in position, place the Outlet Cone (supplied with the fire) into the fire spigot. The spigot has a pre-drilled pilot hole, use this hole to secure the Outlet Cone to the spigot with the supplied screw so that it cannot be lifted out should the flue accidentally get caught up on something during the expansion and contraction process.
  8. The 100mm S/S flue pipes can now be fitted from inside the room (ensure the Dress Ring is fitted to the bottom of the 250mm Outer Casing). Secure each joint with sealant and three ss rivets equally spaced around the joints to prevent unintentional or accidental separation. Once all the required flue sections have been connected, position the bottom length of flue pipe into the Outlet Cone. (Take care not to scratch the Outlet Cone).
- Note: The flue pipes must be assembled with swage roll end down (towards fire).
9. The 200x600mm Liner Assembly can now be fitted by placing over the upper 100mm flue pipe and fixed to the top spigot of the Thermosiphon Assembly with 4 rivets equally spaced around the circumference. Slide Slip Liner Assembly over 200x600mm liner and push downwards to expose upper section of flue. **Do Not fix slip liner yet.**
  10. Push fit the Full Flow Pyroclassic Cowl Assembly into the upper end of top flue section sufficiently for a secure fit. Fix with One ss rivet.

11. Slide slip liner upwards until it contacts the Free Flow Cowl skirt. **Now** fix the slip liner to the 200x600mm Liner with four rivets spaced equally around circumference.

Note: The free flow cowl is to sit with the skirt contacting the slip liner perimeter preventing cooling air flow when flue is cold. When the flue heats up it will expand upwards opening an air gap between the slip liner and cowl skirt allowing cooling air to flow maintaining the flue at correct temperature.

12. With the Pyroclassic Sloping Ceiling Flue installed and aligned, attach the stay bars from the slip liner to the roof spaced at 90 deg apart or as practicable.  
(Tip: when attaching bars, fix at liner then 'twist' the bar so that the leg aligns flat with desired attach point on roof. Bend the legs slightly for best fit).

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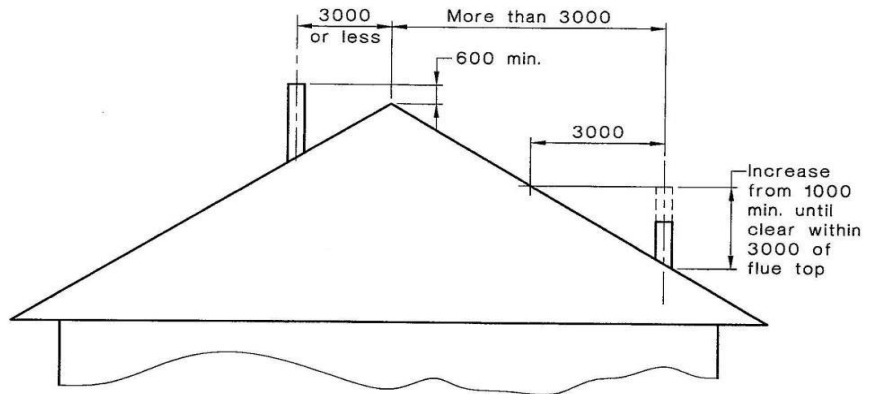
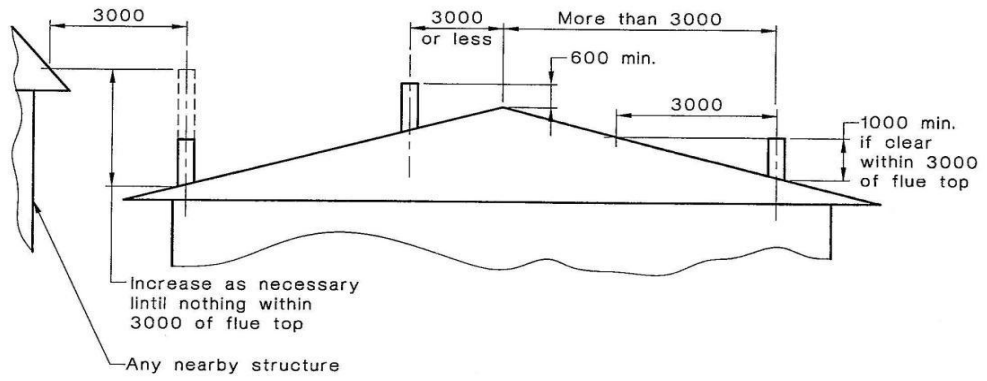
**NOTE:** *no alterations are needed to the supplied Full Flow Pyro Cowl; this cowl is complete and has been used for over 25 years.*

- The Sloping Ceiling Kit will have been supplied with a Ceiling Tile. This is pre-cut and ordered to suit the ceiling angle required and installed directly onto the ceiling to tidy up around the Thermosyphon Assembly .
- If the flue pipe is within 3 meters of the ridge then the flue pipe must protrude at least 600mm above the ridge of the roof. If the distance from the ridge is more than 3 metres horizontally, the flue pipe must protrude at least 1000mm above roof penetration. The flue pipe must be more than 3 metres from any nearby structure (refer to Diagram C.)
- Use the checklist in the Installation Instructions to make sure all stages are complete.
- Leave all Installation and Operating Instructions with the owner.

#### **CLEANING OF FLUE PIPES BEFORE LIGHTING THE FIRE:**

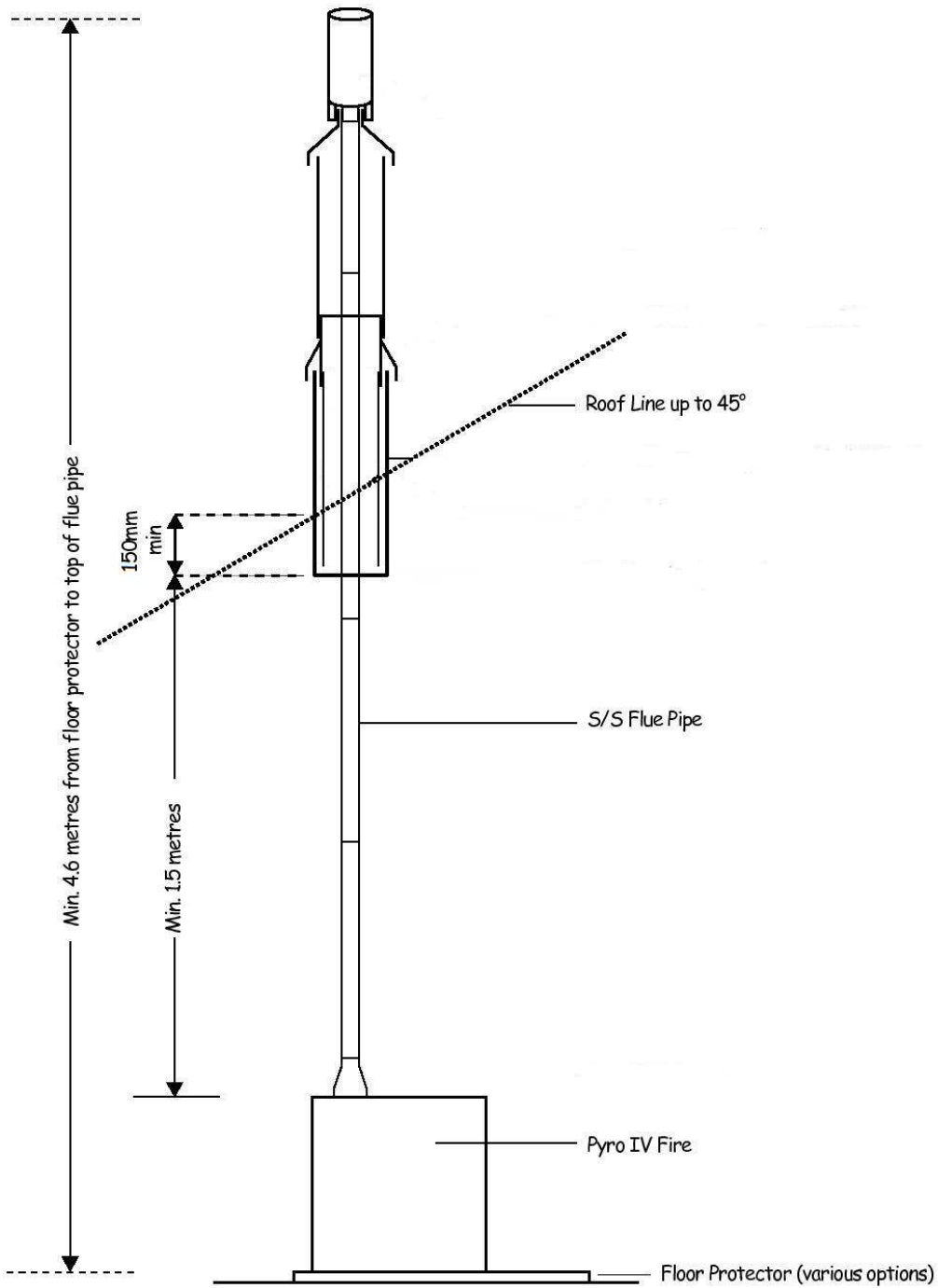
It is very important that the Stainless Steel flue pipes are wiped clean. Use a soft cloth and methylated spirits to remove finger marks and any oil residue that may be on the Flue Pipe, otherwise these will be baked on once the flue has been heated.

**Diagram C AS/NZS 2918:2001**



DIMENSIONS IN MILLIMETRES

# Pyroclassic 100mm Eco Flue Kit Diagram D



**Pyroclassic Sloping Ceiling  
Thermosyphon Flue System  
diagram E**

