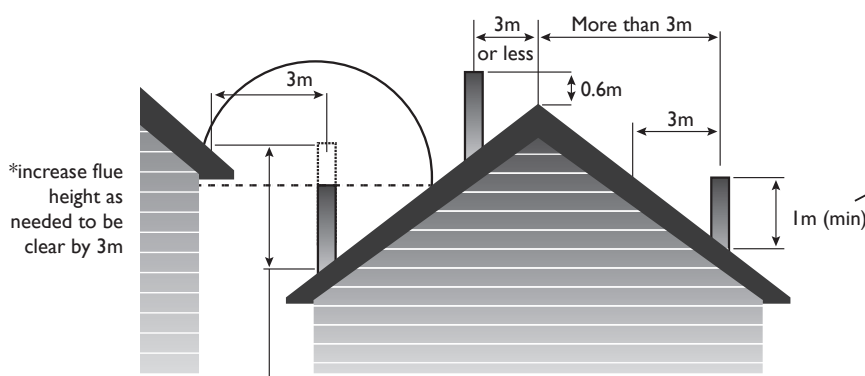


Flue Installation

The Wagener Sparky CA uses a 100mm diameter flue. It is imperative that the connection between the flue and the flue spigot is sealed using a recommended flue sealant. If an offset bend is required it should be as steep as possible to enable ease of cleaning. Extra flue height may be required to compensate for any lack of draw through the bend.

The performance of Wagener Sparky CA depends more on the flue than on any other single component as it is the draw on the flue that drives the Sparky CA. We recommend 4.2 metres of flue.

Diagram C



The top of the flue system should be at least 1000mm above the roof or at least 600mm higher than any obstacle or ridge within 3 metres of the flue. The flue pipe shall extend **not less than 4.6M ABOVE the top of the floor protector.**

However a total minimum vertical height **ABOVE** the Wagener Sparky CA of 4.2 metres is recommended for adequate draft.

Joints between sections of the flue pipes are push fitted so that the upper section enters the bottom section and must be **SEALED** using a flue sealant.

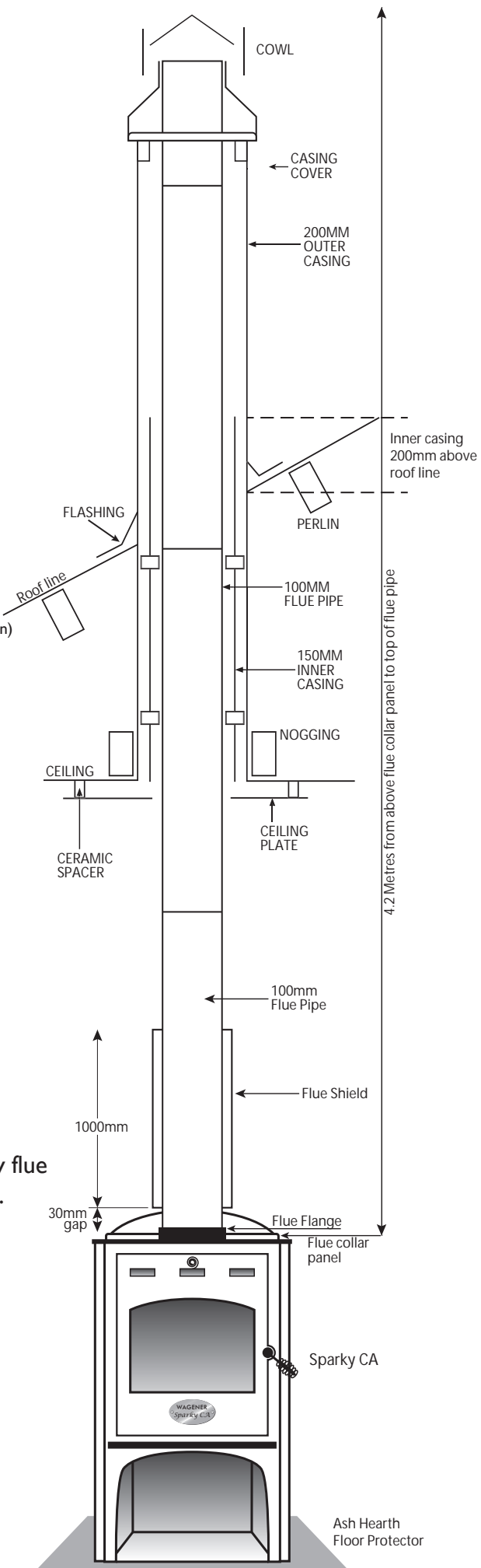
Each section should be secured to prevent separation using three stainless steel self tapping screws or three monel steel rivets. Only flue systems which comply with the AS/NZS 2918-2001 should be used.

Please follow flue manufacturers instructions on page 5 and 6
"100mm Free Standing Woodfire Flue Kit Installation"
Instructions'.

NB. Bird netting is available

Note: Wagener Sparky CA has been tested with a purpose designed 100/150/200 flue system with reduced sized flue shield and ceiling plate for improved performance. However a tested 100/200/250 system is compliant with the requirements of the standard but may cool the flue and affect the performance of Sparky CA.

Diagram B



100mm / 200mm Free Standing Woodfire Flue Kit

Installation Instructions (see illustration page 4)

WARNING: THIS FLUE KIT HAS BEEN MANUFACTURED IN ACCORDANCE WITH AS/NZS 2918:2001 AND TESTED TO APPENDIX F. TO ENSURE SAFETY THIS FLUE KIT MUST BE INSTALLED AS OUTLINED IN THESE INSTRUCTIONS AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES. WOOD FIRE AND FLUE CLEARANCES FROM COMBUSTIBLE WALLS MUST BE IN ACCORDANCE WITH WOOD FIRE MANUFACTURER'S SPECIFICATIONS AND AS/NZS 2918:2001. THESE INSTALLATION INSTRUCTIONS ARE FOR TESTED APPLIANCES ONLY.

CAUTION: MIXING FLUE SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATIONS 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.

BENDS AND EXTENSIONS TO THE LENGTH OF A FLUE SYSTEM ARE PERMITTED (AS/NZS 2918:2001 4.1)

1. Locate Wood Fire in its proposed position and mark a point on the ceiling that is directly above the centre of the Wood Fire's Flue Spigot. Check that the Wood Fire's location allows the OUTER CASING to clear all the structural roof timbers.

2. Cut a 200mm square hole in ceiling, directly above a cut hole in roof to accommodate OUTER CASING.

3. Fit timber nogs around ceiling i.e. Nogs form a 200mm square aperture that allows air to circulate freely over the OUTER CASING surface.

4. Position the OUTER CASING so that it is flush with the underneath of the ceiling and protrudes through the roof the required height. Note that AS/NZS 2918:2001 4.9.1(a) states, "the FLUE PIPE shall extend not less than 4.6m above the top of the floor protector." Refer to Diagram B. Fix into position using appropriate fastenings.

a) If the FLUE PIPE is within 3 metres of the ridge, the FLUE PIPE must protrude at least 600mm above the ridge of the roof.

b) If the distance from the ridge is more than 3 metres, the FLUE PIPE must protrude at least 1000mm above roof penetration.

c) The FLUE PIPE must be more than 3 metres from any nearby structure. (Refer to diagram C).

Additional FLUE PIPE, OUTER CASING and/or INNER CASING may have to be added to ensure the following.

- The correct minimum roof penetration height.
- Sufficient overall height to encase the FLUE PIPE which must extend a minimum of 4.6 metres from the floor protector. Refer to diagram B.

100mm / 200mm Free Standing Woodfire Flue Kit

Installation Instructions (continued)

Note that the INNER CASING MUST extend 200mm above roof penetration.

NB: Do not secure the OUTER CASING SLIP EXTENSION onto the OUTER CASING, as a final adjustment will be required when fitting cowl assembly. See paragraph 11.

5. Fix an appropriate flashing around the OUTER CASING to seal onto the roofing material. Refer to the manufacturer's recommendations for correct fitting. **NB:** On iron roofs, fixings such as metal angle brackets (approximately 25mm x 25mm) can be fitted under the flashing to securely fix the roof to OUTER CASING.

6. Place CEILING PLATE over Wood Fire's Flue Spigot, ensuring the folded edges are facing the ceiling.

7. Position bottom length of FLUE PIPE (crimped end downwards) into Wood Fire Flue Spigot. Refer to the supplier of the Wood Fire and use the flue pipe sealant recommended.

8. Assemble FLUE PIPES together ensuring seams are straight, offsetting the seams will ensure a neat fit. FLUE PIPES **must** be assembled with crimped ends down (towards Wood Fire). Secure each joint with a minimum of three Monel Steel Rivets equally spaced around the joint. If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.

9. From the roof lower FLUE PIPE through OUTER CASING into the bottom FLUE PIPE securing the 3 Monel rivets.

10. Check that the FLUE PIPE SPACING BRACKETS inside the INNER CASING are correctly positioned and then from the roof slide the INNER CASING into the OUTER CASING until the brackets rest on to the internal swage ring of the OUTER CASING, this will ensure the INNER CASING is the correct 12mm above ceiling level.

Check the INNER CASING when correctly positioned extends a minimum of 200mm above the roof penetration.

11. Before securing the OUTER CASING SLIP EXTENSION to the OUTER CASING with 3 rivets, ensure the FLUE PIPE is either flush or extends above the top of the OUTER CASING SLIP EXTENSION by no more than 15mm. Adjust SLIP EXTENSION to obtain this measurement.

12. Push CASING COVER (with spigot inside FLUE PIPE) down onto the OUTER CASING SLIP EXTENSION. The 3 locating brackets with holes must be on the outside of the OUTER CASING SLIP EXTENSION and are secured using 3 rivets.

13. Fit COWL but do not secure, as removal for flue cleaning will be necessary. Deform or ovalise the stub of the COWL to ensure it is a tight friction fit.

14. Fasten CEILING PLATE to ceiling using screws and ceramic spacers required. Ensure an even air gap around FLUE PIPE when fixing. Remove protective plastic from CEILING PLATE **N.B** 12mm air gap between ceiling plate and ceiling must be maintained.

15. Fit the flue shield to the flue pipe as per fitting instructions supplied with the flue shield kit.

16. Please leave all instructions with the owner.