INSTALLATION GUIDE

09 274 4421

info@sfp.co.nz

www.sfp.co.nz

26 Stonedon Drive, East Tamaki, Auckland. NZ

PO Box 58-286, Botany, Manukau, Auckland 2163

Foreword

ATTENTION INSTALLER & INSPECTOR: These guidelines are applicable to genuine SFP products and must not be used for Flue Kits or components manufactured by other companies.

Unless stated otherwise, our products all abide by the following regulations:

MANUFACTURED IN ACCORDANCE WITH AS/NZS 2918:2001 AND TESTED TO APPENDIX F. TO ENSURE SAFETY, THESE PRODUCTS 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 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 THESE KITS COMPLY WITH AS/NZ 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 ADDED TO THE LENGTH OF A FLUE SYSTEM ARE PERMITTED (AS/NZS 2918:2001 4.1)

Cleaning of the Pipes before lighting the fire.

Stainless Steel Flue Pipe should be wiped clean using a soft cloth and methylated spirits to remove finger marks and oils used to manufacture the Flue Pipe.
Hi-Therm Flue Pipe can be touched up using only STOVE BRIGHT aerosol paint.

Installation Guide

150mm Free Standing Wood Fire Flue Kit

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 structural roof timbers.

2. Cut a 250mm square hole in ceiling. Directly above cut a hole in the roof to accommodate the OUTER CASING.

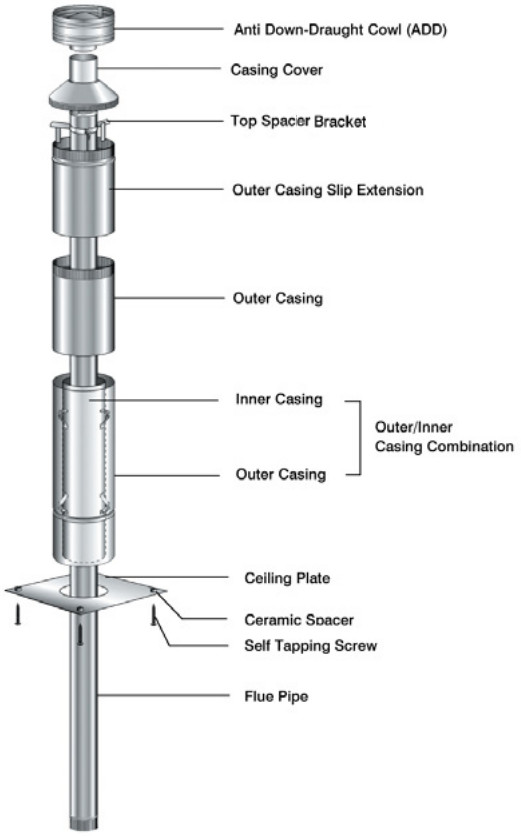
3. Fit timber nogs around ceiling. Nogs form a 250mm square aperture that allows air to circulate freely over the OUTER CASING surface.

4. Position the OUTER CASING so that it is flush with the underneath of the ceiling and protrudes through the roof at 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.

   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 away from any nearby structure. (Refer to diagram C).



Contents of Kit.

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

a. The correct minimum roof penetration height.

b. Sufficient overall height to encase the FLUE PIPE which must extend a minimum of 4.6 metres from the floor protector. Refer diagram B.

Note that the INNER CASING should extend 200mm above roof penetration

NB: Do not secure the OUTER CASING SLIP EXTENSION onto the OUTER CASING, as final adjustment will be required when fitting cowl assembly. See Paragraph 12.

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 the OUTER CASING.**

150mm Free Standing Wood Fire Flue Kit (cont.)

6. Drill holes in CEILING PLATE for the fixing screws. Place CEILING PLATE over Wood Fire Flue Spigot ensuring the folded edges are facing the ceiling.

7. Position bottom length of FLUE PIPE (crimped end downwards) into the Wood Fire Flue Spigot.

8. Refer to the supplier of the Wood Fire and use flue pipe sealant if recommended.

9. 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 3 rivets equally spaced around the joint. If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.

10. From the roof, lower FLUE PIPE through OUTER CASING into the bottom FLUE PIPE securing with 3 rivets.

11. 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, 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.

12. Before securing the OUTER CASING SLIP EXTENSION to the OUTER CASING with 3 rivets, ensure the FLUE PIPE extends above the top of the OUTER CASING SLIP EXTENSION by 145mm. Adjust SLIP EXTENSION to obtain this measurement.

13. Fit TOP SPACER BRACKET to the FLUE PIPE making sure the lugs fit snugly inside OUTER CASING SLIP EXTENSION. Make sure TOP SPACER BRACKET fits hard down onto OUTER CASING SLIP EXTENSION.

14. Fit CASING COVER over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.

15. 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.

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

Leave all installation and operation instructions with the owner

150mm Free Standing Wood Fire Flue Kit (cont.)

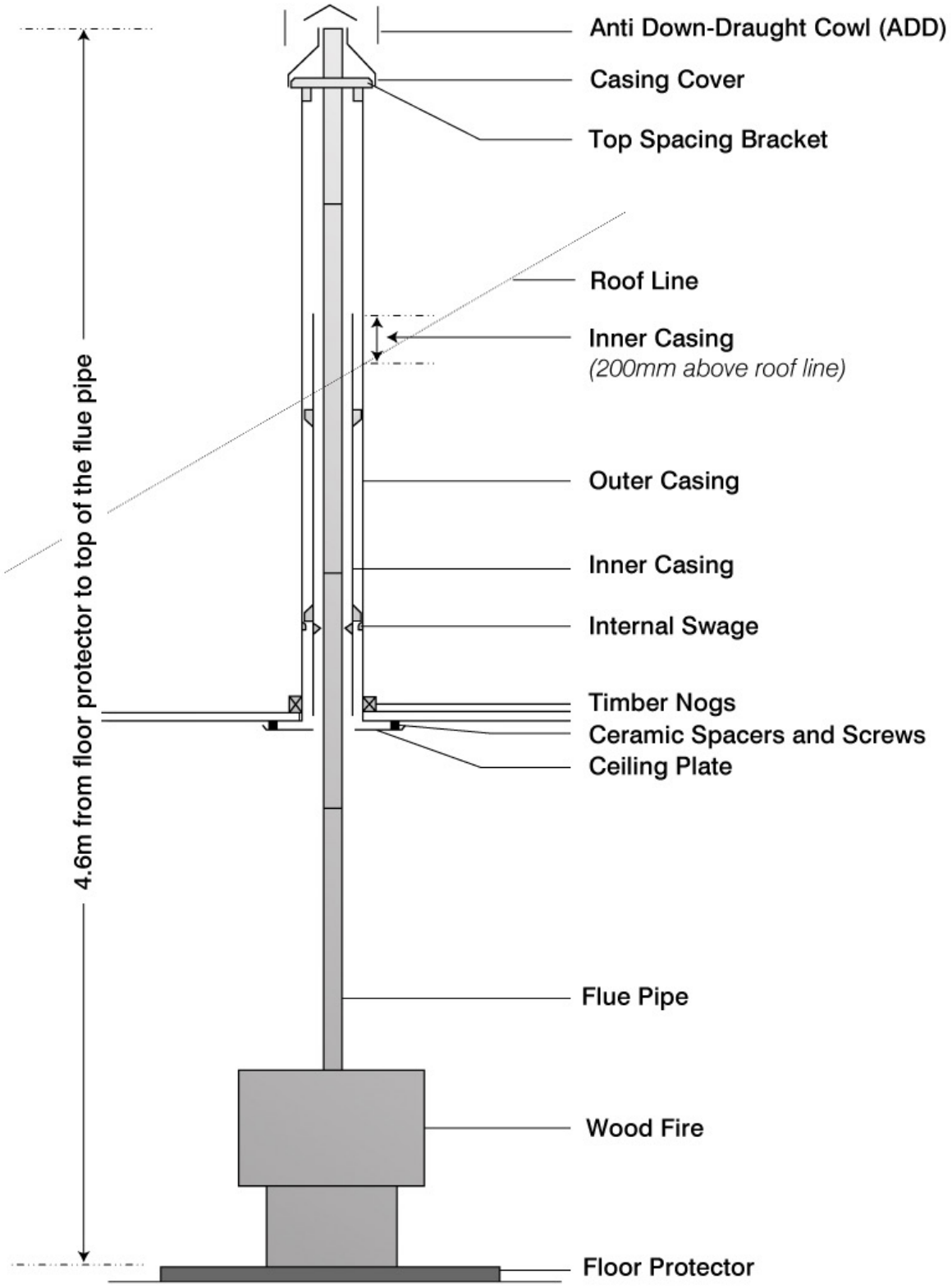
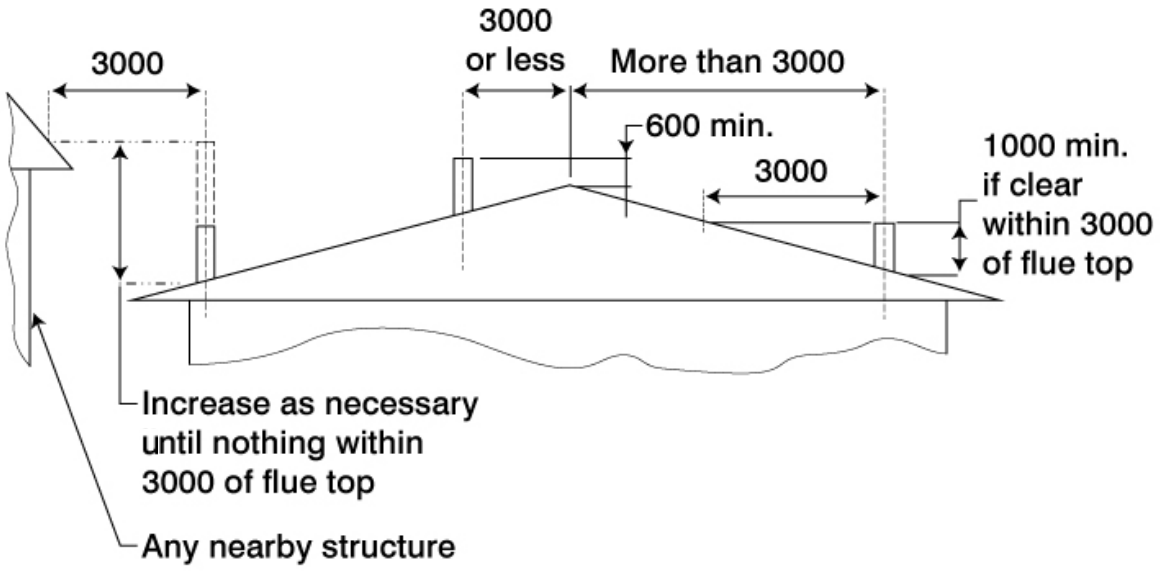
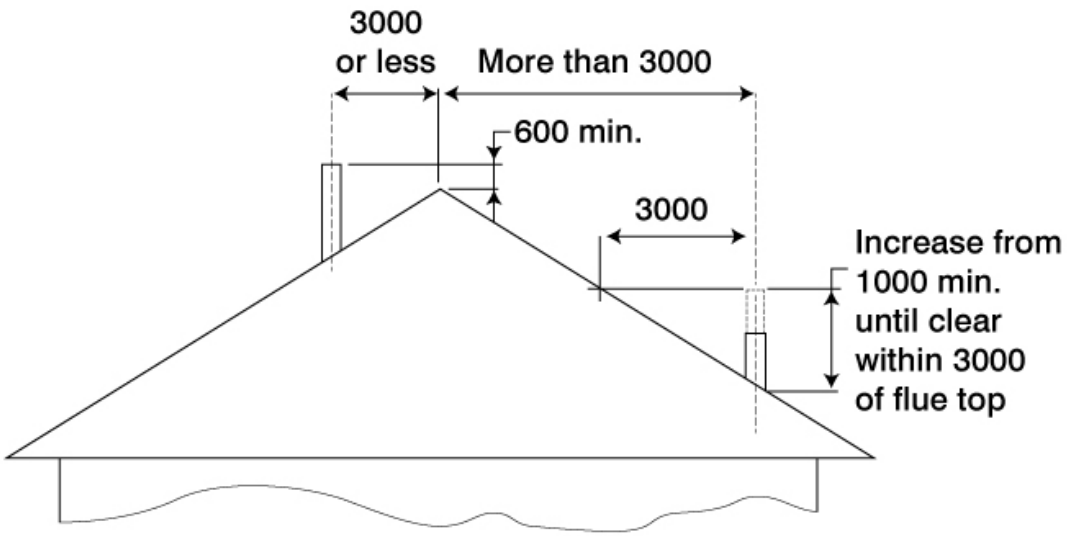


Diagram B.

150mm Free Standing Wood Fire Flue Kit (cont.)





150mm Free Standing
Wood Fire Combination Cowl Flue Kit

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 structural roof timbers.

2. Cut a 250mm square hole in ceiling. Directly above, cut a hole in roof to accommodate OUTER CASING.

3. Fit timber nogs around ceiling. Nogs form a 250mm 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 at 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.

   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 away from any nearby structure. (Refer to diagram C).

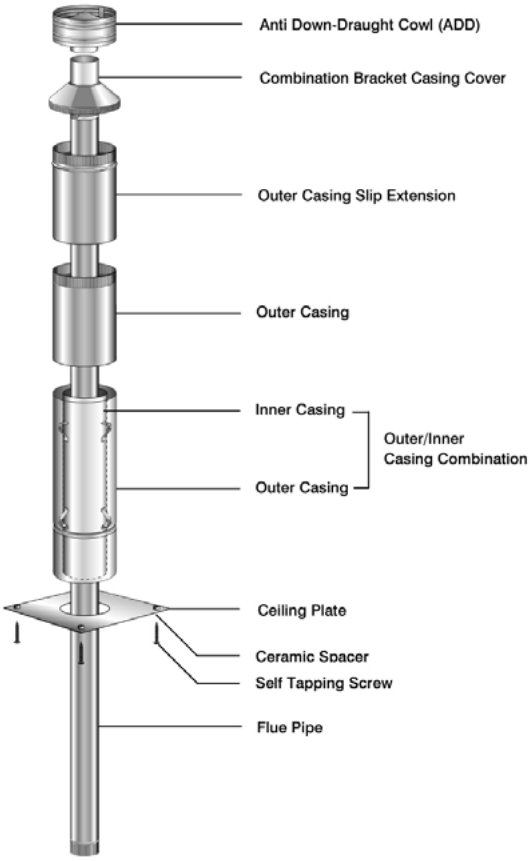
   Additional FLUE PIPE, OUTER CASING and INNER CASING may have to be added to ensure the following:

   a. The correct minimum roof penetration height.

   b. Sufficient overall height to encase the FLUE PIPE which must extend a minimum of 4.6 metres from the floor protector. Refer diagram B.

   Note that the INNER CASING should extend 200mm above roof penetration

   NB: Do not secure the OUTER CASING SLIP EXTENSION onto the OUTER CASING, as final adjustment will be required when fitting cowl assembly. See Paragraph 12.



Contents of Kit.

5. Fix an appropriate flashing around 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.**

150mm Free Standing
Wood Fire Combination Cowl Flue Kit(cont.)

6. Drill holes in CEILING PLATE for the fixing screws. Place CEILING PLATE over Wood Fire Flue Spigot, ensuring the folded edges are facing the ceiling.
7. Position bottom length of FLUE PIPE (crimped end downwards) into the Wood Fire Flue Spigot.
8. Refer to the supplier of Wood Fire and use flue pipe sealant if recommended.
9. 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 3 rivets equally spaced around the joint. If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.
10. From the roof lower FLUE PIPE through OUTER CASING into the bottom FLUE PIPE securing with 3 rivets.
11. 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, 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.
12. Before securing the OUTER CASING SLIP EXTENSION to the OUTER CASING with 3 rivets, ensure the FLUE PIPE is either flush with or extends above the top of the OUTER CASING SLIP EXTENSION by no more than 15mm. Adjust SLIP EXTENSION to obtain this measurement.
13. 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.
14. 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.
15. Fasten CEILING PLATE to ceiling using ceramic spacers and screws provided. Ensure an even air gap around FLUE PIPE when fixing. Remove protective plastic from CEILING PLATE.
    NB: 12mm air gap between ceiling plate and ceiling must be maintained.

Leave all installation and operation instructions with the owner

150mm Free Standing
Wood Fire Combination Cowl (cont.)

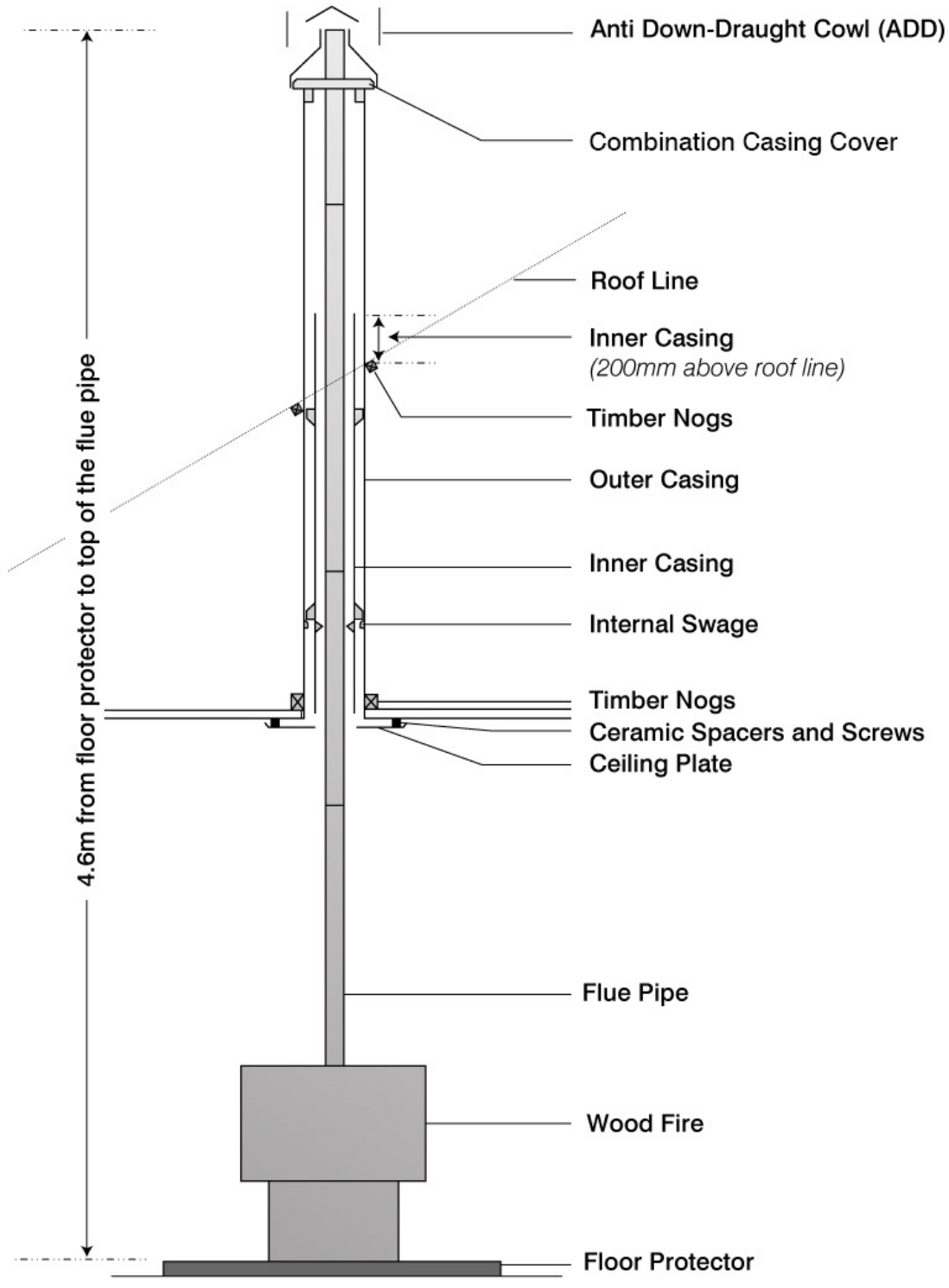
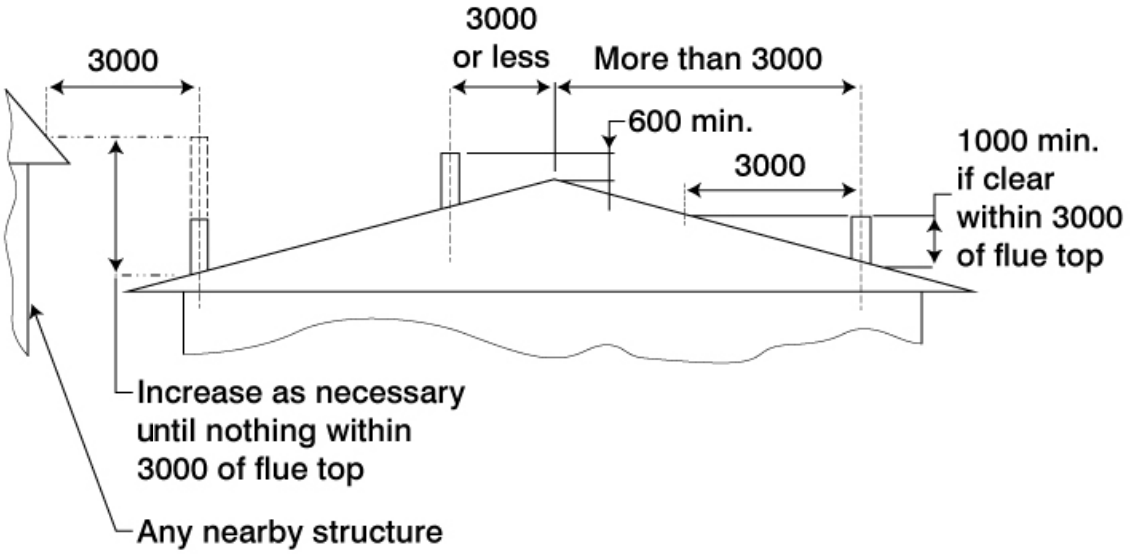
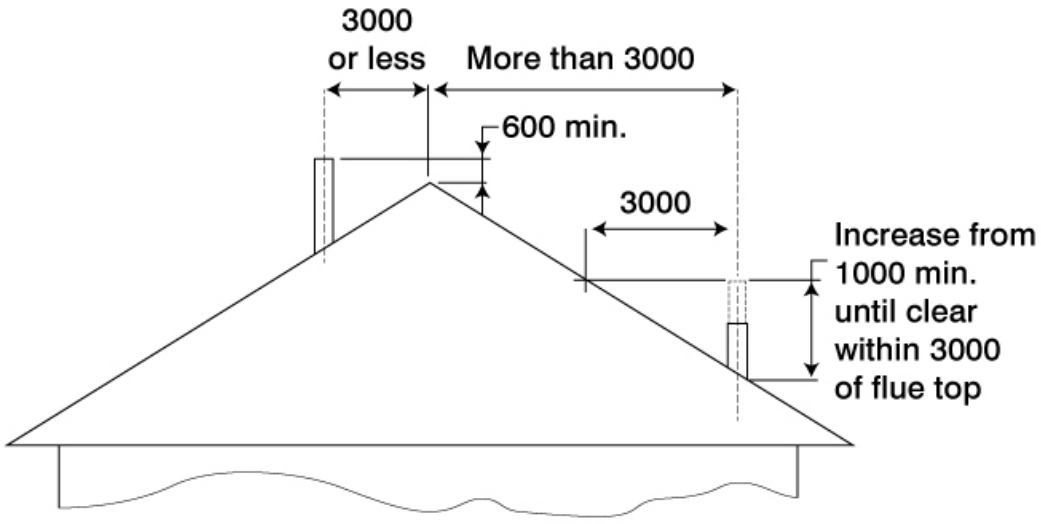


Diagram B.

150mm Free Standing
Wood Fire Combination Cowl (cont.)





100, 108, 115, 125mm Free Standing Wood Fire Flue Kit

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 structural roof timbers.

2. Cut a 250mm square hole in ceiling. Directly above cut a hole in the roof to accommodate OUTER CASING.

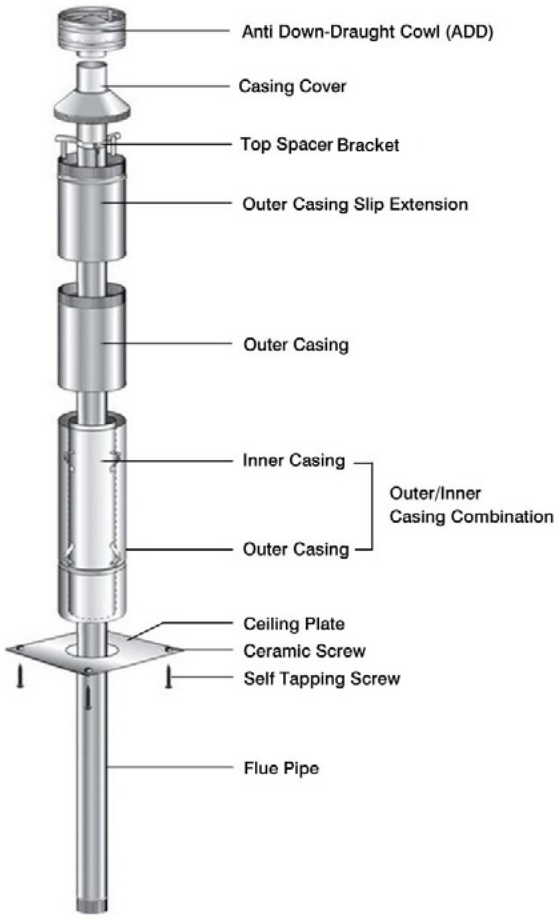
3. Fit timber nogs around ceiling. Nogs form a 250mm square aperture that allows air to circulate freely over the OUTER CASING surface.

4. Position the OUTER CASING so that it is flush with the underneath of the ceiling and protrudes through the roof at 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.

   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 away from any nearby structure. (Refer to diagram C).



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

a. The correct minimum roof penetration height.

b. Sufficient overall height to encase the FLUE PIPE which must extend a minimum of 4.6 metres from the floor protector. Refer diagram B.

Note that the INNER CASING should extend 200mm above roof penetration

NB: Do not secure the OUTER CASING SLIP EXTENSION onto the OUTER CASING, as final adjustment will be required when fitting cowl assembly. See paragraph 12.

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.**

100, 108, 115, 125mm Free Standing Wood Fire Flue Kit (cont.)

6. Drill holes in CEILING PLATE for the fixing screws. Place CEILING PLATE over Wood Fire 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.
8. Refer to the supplier of the Wood Fire and use sealant if recommended.
9. 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 3 rivets equally spaced around the joint. If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.
10. From the roof lower FLUE PIPE through OUTER CASING into the bottom FLUE PIPE securing with 3 rivets.
11. 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 on 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.
12. Before securing the OUTER CASING SLIP EXTENSION to the OUTER CASING with 3 rivets, ensure the FLUE PIPE extends above the top of the OUTER CASING SLIP EXTENSION by 145mm. Adjust SLIP EXTENSION to obtain this measurement.
13. Fit TOP SPACER BRACKET to the FLUE PIPE making sure the lugs fit snugly inside OUTER CASING SLIP EXTENSION. Make sure TOP SPACER BRACKET fits hard down onto OUTER CASING SLIP EXTENSION.
14. Fit CASING COVER over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET. Check that the FLUE PIPE is flush with or slightly below the top edge of the CASING COVER.
15. 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.
16. Fasten CEILING PLATE to ceiling using ceramic spacers and screws provided. Ensure an even air gap around FLUE PIPE when fixing. Remove protective plastic from CEILING PLATE.
    NB: 12mm air gap between ceiling plate and ceiling must be maintained.

Leave all installation and operation instructions with the owner

100, 108, 115, 125mm Free Standing Wood Fire Flue Kit (cont.)

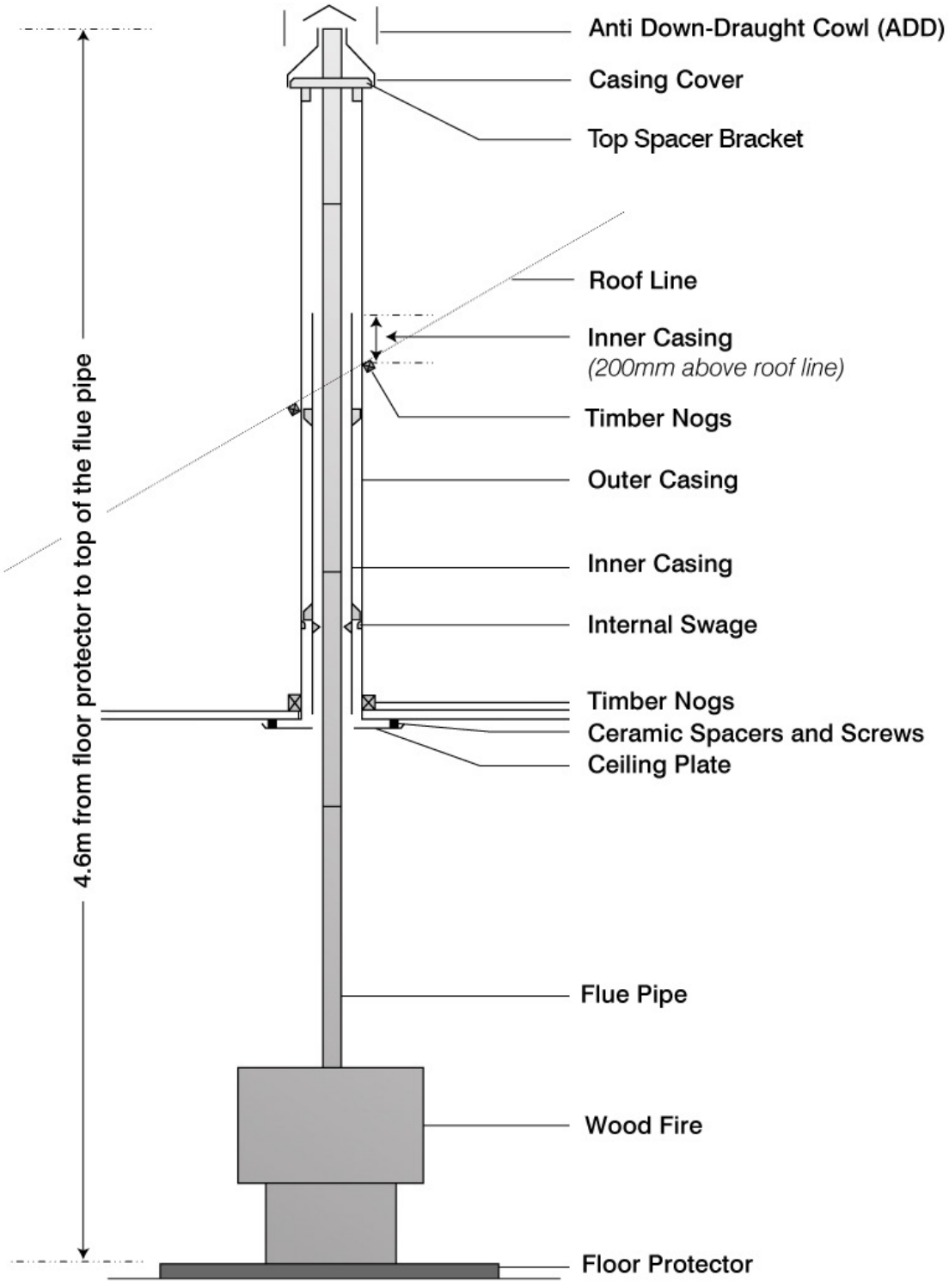
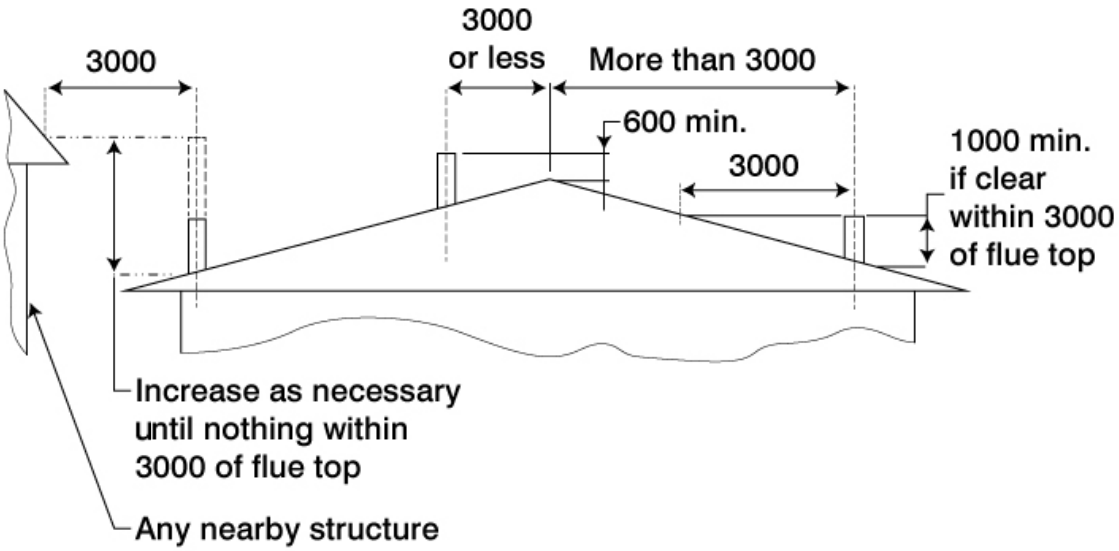
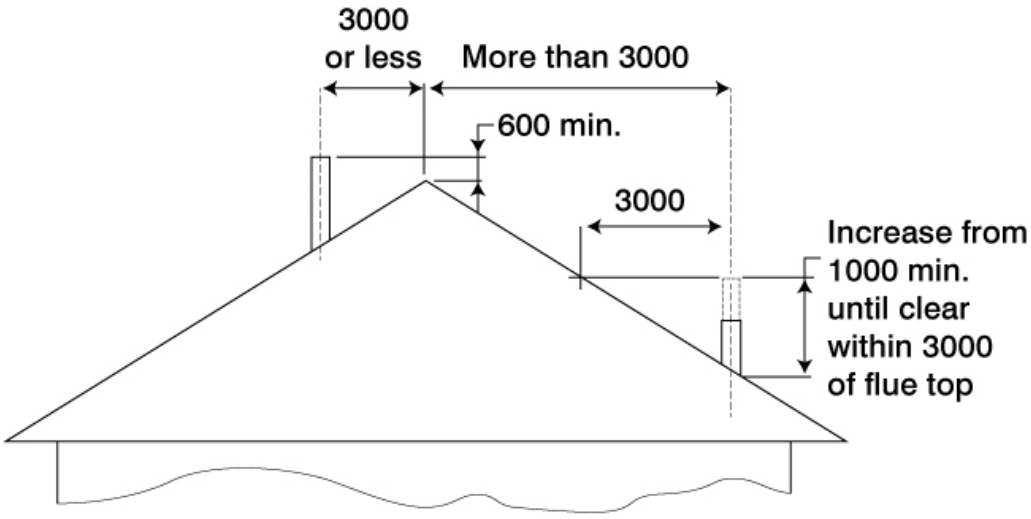


Diagram B.

100, 108, 115, 125mm Free Standing Wood Fire Flue Kit (cont.)





100mm Slimline Free Standing Wood Fire Combination Cowl Flue Kit

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 structural roof timbers.

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

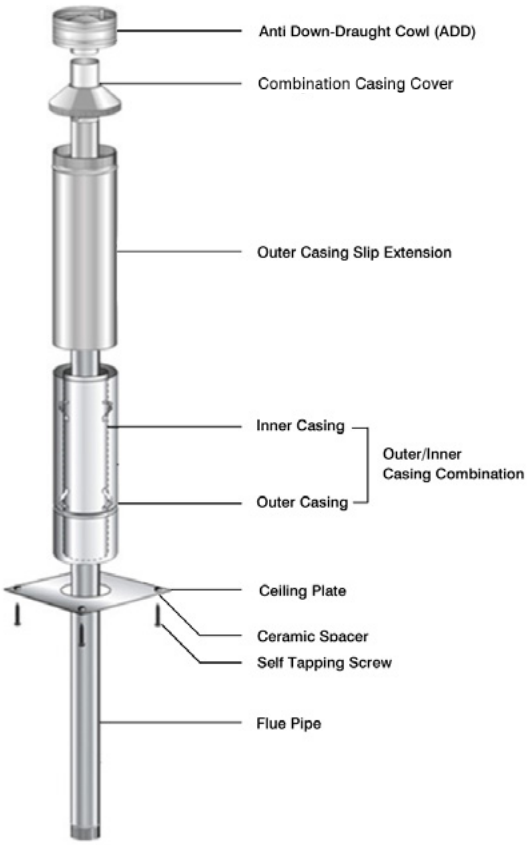
3. Fit timber nogs around ceiling. Nogs form a 200mm square aperture that allows air to circulate freely over the OUTER CASING surface.

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.

   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 diagram C).



Contents of Kit.

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

a. The correct minimum roof penetration height.

b. Sufficient overall height to encase the FLUE PIPE which must extend a minimum of 4.6 metres from the floor protector. Refer diagram B.

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

NB: Do not secure the OUTER CASING SLIP EXTENSION onto the OUTER CASING, as final adjustment will be required when fitting cowl assembly. See Paragraph 12.

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.**

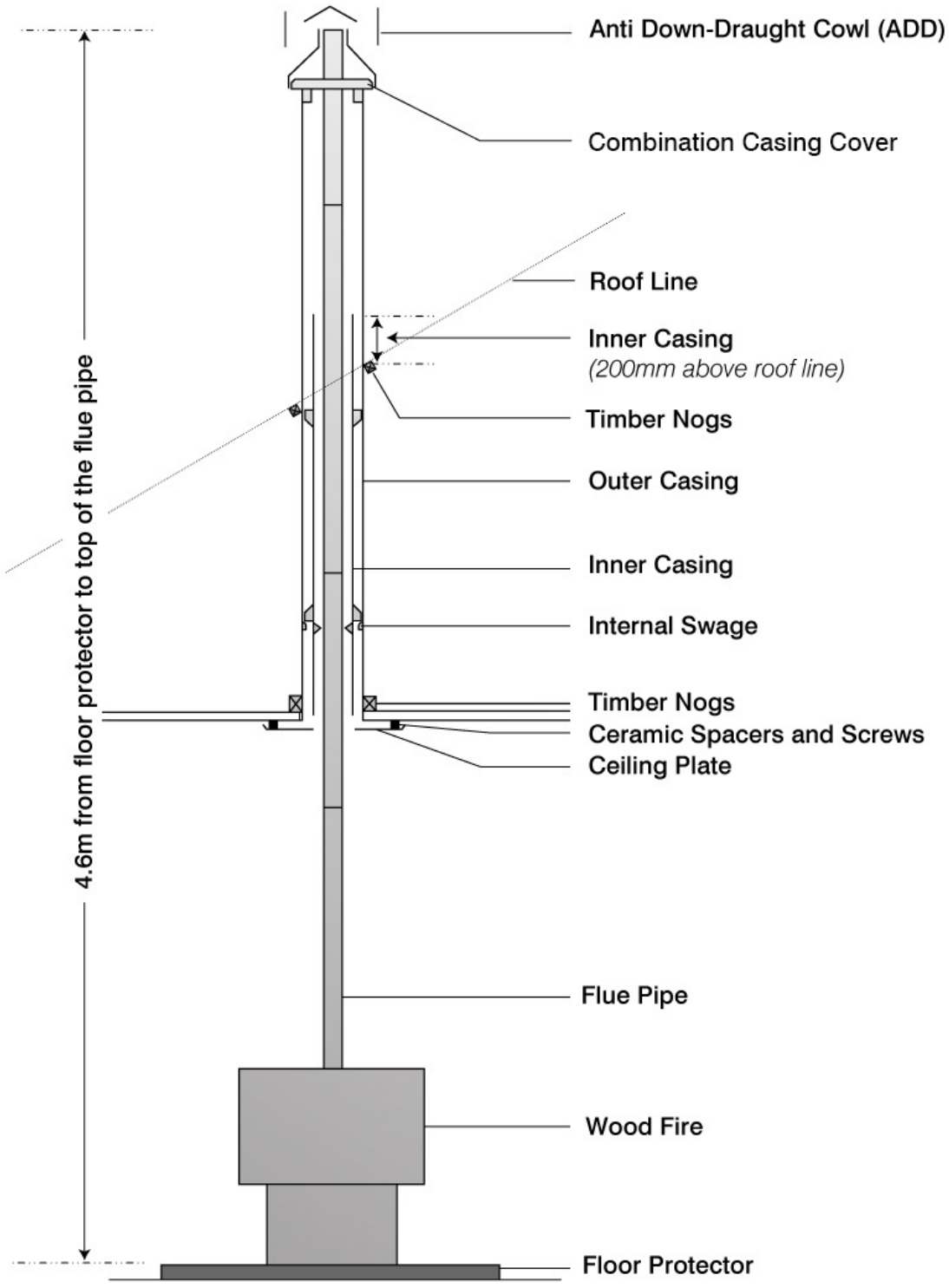
100mm Slimline Free Standing Wood Fire Combination Cowl Flue Kit (cont.)

6. Place CEILING PLATE over Wood Fire 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.
8. Refer to the supplier of the Wood Fire and use flue pipe sealant if recommended.
9. 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 3 rivets equally spaced around the joint. If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.
10. From the roof lower FLUE PIPE through OUTER CASING into the bottom FLUE PIPE securing with 3 rivets.
11. 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.

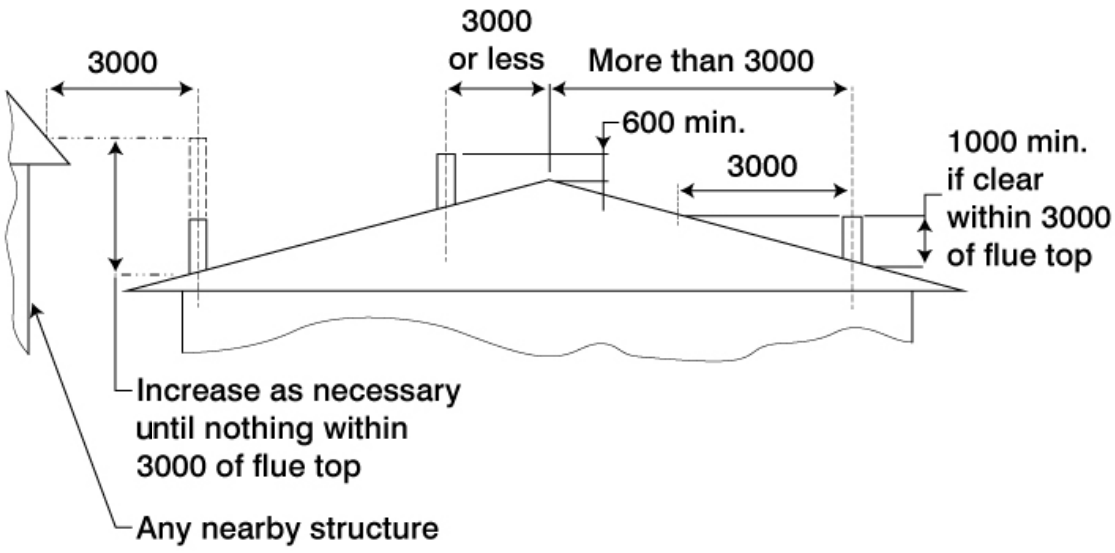
    Check the INNER CASING when correctly positioned extends a minimum of 200mm above the roof penetration.
12. Before securing the OUTER CASING SLIP EXTENSION to the OUTER CASING with 3 rivets, ensure the FLUE PIPE is either flush or extends above the top of the OUTER CASING SLIP EXTENSION by no more than 15mm. Adjust SLIP EXTENSION to obtain this measurement.
13. 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.
14. 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.
15. Fasten CEILING PLATE to ceiling using ceramic spacers and screws provided. Ensure an even air gap around FLUE PIPE when fixing. Remove protective plastic from CEILING PLATE. **NB: 12mm air gap between ceiling plate and ceiling must be maintained.**

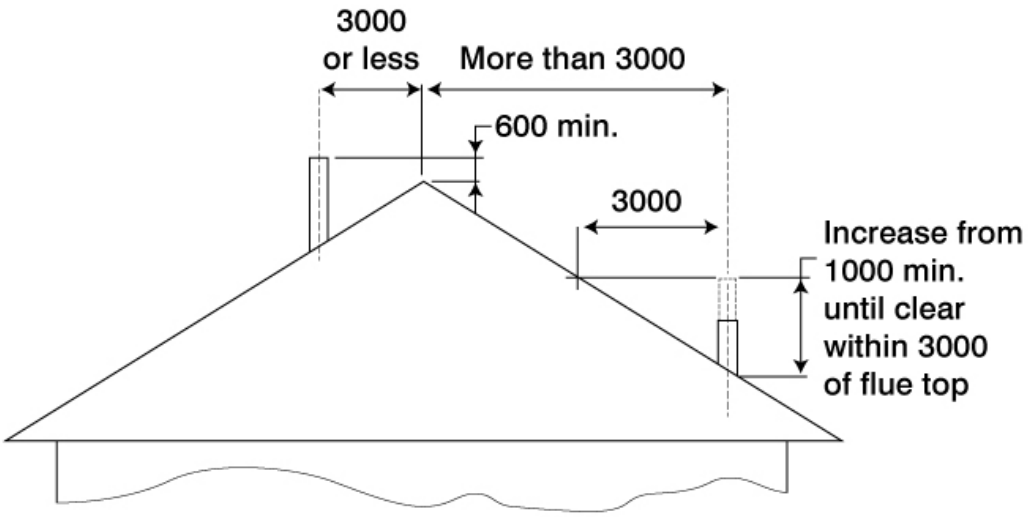
Leave all installation and operation instructions with the owner

100mm Slimline Free Standing Wood Fire Combination Cowl Flue Kit (cont.)



100mm Slimline Free Standing Wood Fire Combination Cowl Flue Kit (cont.)



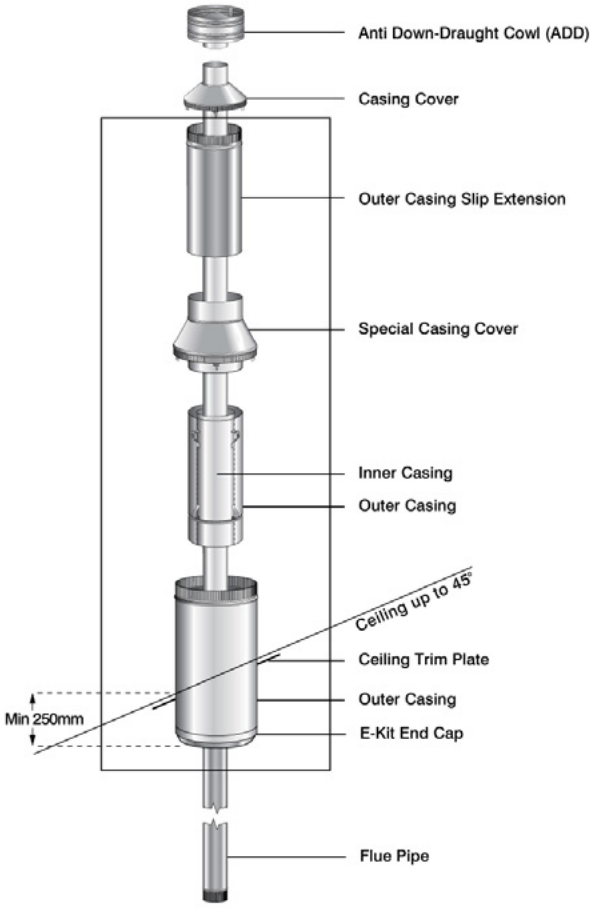


150mm Sloped E-Kit Option

The Sloped Ceiling E Kit uses a 300mm OUTER CASING and installation requires an aperture 300mm square hole in ceiling and any roof cavity. Timber may contact the 300mm OUTER CASING tangentially.

The 300mm OUTER CASING provides the support for the 250/200 OUTER/INNER CASING COMBINATION and 300/250 SPECIAL CASING COVER and OUTER CASING EXTENSION in the finished FLUE SYSTEM

To achieve the bracing required to adequately support the 300mm OUTER CASING in a Sloped Ceiling situation additional timber or metal framework may be required within or below the ceiling cavity and external bracing required on the roof.



Contents of Kit.

1. Locate Wood Fire in its proposed position and mark a point on the ceiling that is directly above the centre of the heater's flue outlet. Check that the heater's location allows 300mm OUTER CASING to clear all structural roof timbers.
2. Cut a 300mm square hole in ceiling and roof cavity and construct an adequate support structure for the 300mm OUTER CASING.
3. Fit the 300mm OUTER CASING into the ceiling aperture securing with screws. The 300mm OUTER CASING should extend a minimum of 250mm below the underside of the ceiling (measured on lower or shorter side of penetration).
4. Position the 250/200 OUTER/INNER CASING COMBINATION into the 300mm OUTER CASING ensuring it locates into the square SUPPORT FRAME at the bottom of the 300mm OUTER CASING. The OUTER/INNER CASING COMBINATION will protrude through the 300mm OUTER CASING at the required height to be supported by the 300/250 SPECIAL CASING COVER.
5. Fit an appropriate flashing to the 300mm OUTER CASING to seal onto the roofing material. Refer to the manufacturer's recommendations for correct fitting.
6. Fit the 300/250 SPECIAL CASING COVER (with lower spigot outside 250/200 OUTER/INNER CASING COMBINATION) onto the 300mm OUTER CASING. The 4 location brackets with holes must be on the outside of the 300mm OUTER CASING and secure using fasteners.
7. Fix the 250mm OUTER CASING SLIP EXTENSION to the 300/250 SPECIAL CASING COVER. The FLUE PIPE outlet will be 145mm above the top of the 250mm OUTER CASING SLIP EXTENSION so the height from the top of the FLOOR PROTECTOR to the top of the 250mm OUTER CASING SLIP EXTENSION should be determined to ensure compliance to AS/NZS 2918:2001 4.9.1(a)

   Note: 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."

150mm Sloped E-Kit Option (cont.)

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.

8. Fit SLOPED CEILING TRIM PLATE to ceiling.

9. Position bottom length of the FLUE PIPE (crimped end downwards) into heaters flue outlet.

10. Refer to the supplier of the heater and use flue pipe sealant if recommended.

11. Assemble FLUE PIPES together ensuring seams are straight; offsetting the seams will ensure a neat fit. Secure each joint with 3 rivets equally spaced around the joint. FLUE PIPES must be assembled with crimped ends down (towards heater). If using HI-THERM FLUE PIPE, the protective wrapping should be left on the FLUE PIPE during installation.

12. Place 305mm E-KIT END CAP over heater's flue spigot.

13. From the roof lower FLUE PIPE through OUTER CASING into position.

14. Carefully fit 305mm E-KIT END CAP to lower end of 300mm OUTER CASING.

15.1 If fitting FLUE KIT with TOP SPACER BRACKET:

a) Ensure the FLUE PIPE extends above the top of the OUTER CASING EXTENSION by 145mm cut either OUTER CASING EXTENSION or the FLUE PIPE to obtain this measurement.
b) Fit TOP SPACER BRACKET to the FLUE PIPE making sure the lugs fit snugly inside OUTER CASING EXTENSION. Make sure TOP SPACER BRACKET fits hard down onto OUTER CASING EXTENSION.
c) Fit CASING COVER over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.

- OR -

15.2 If fitting FLUE KIT with COMBINATION CASING COVER:

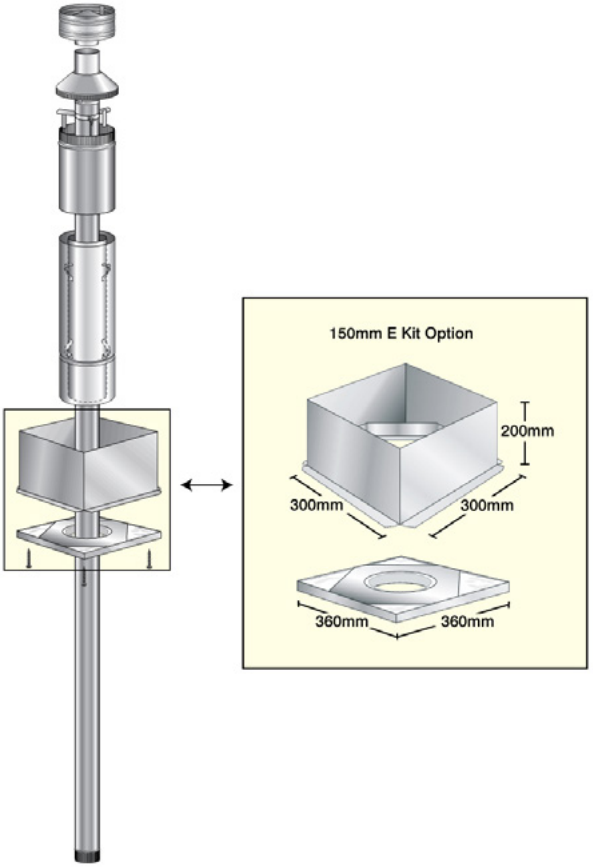
a) Ensure the FLUE PIPE is either flush with or extends above the top of the OUTER CASING EXTENSION by no more than 15mm. Cut SLIP EXTENSION or FLUE PIPE to obtain this measurement.
b) Push CASING COVER (with spigot inside FLUE PIPE) down onto the OUTER CASING SLIP EXTENSION. The 3 locating brackets with holes must be on the outside of the OUTER CASING SLIP EXTENSION and are secured using 3 rivets.

16. 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.

Leave all installation and operation instructions with the owner

150mm Flue Kit with E Kit Option

1. Locate Wood Fire in its proposed position and mark a point on the ceiling that is directly above the centre of the Woodfire's Flue Spigot. Check that the Woodfire's location allows the OUTER CASING to clear all structural roof timbers.
2. Cut a 305mm square hole in ceiling. Directly above cut a 250mm hole in roof to accommodate OUTER CASING.
3. Fit timber nogs around ceiling.
4. Fit the square CEILING SUPPORT UNIT into the ceiling aperture securing the screws or nails. The flange should be flush with the underside of the ceiling.
5. Position the OUTER/INNER CASING COMBINATION into the CEILING SUPPORT UNIT. The OUTER/INNER CASING will be 25mm above the underneath of the ceiling and protrude 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



Contents of Kit.

   a. If the FLUE PIPE is within 3 metres of the ridge, the FLUE PIPE must protrude at least 600mm above the ridge of 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 INNER CASING may have to be added to ensure the following:

   a. The correct minimum roof penetration height.

   b. 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.

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

NB: Do not secure the OUTER CASING SLIP EXTENSION onto the OUTER CASING, as final adjustment will be required when fitting cowl assembly. See paragraph 14.

6. 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.**

150mm Flue Kit with E Kit Option (cont.)

7. Drill holes in EKIT CEILING PLATE for the fixing screws.

8. Place CEILING PLATE over the heaters flue spigot, ensuring the insulation blanket is fitted correctly and the folded edges are facing the ceiling.

9. Position bottom length of FLUE PIPE (crimped end downwards) into Wood Fire flue spigot.

10. Refer to the supplier of the Wood Fire and use sealant if recommended.

11. 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 3 rivets equally spaced around the joint. If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.

12. From the roof lower FLUE PIPE through OUTER CASING into position.

13. 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 roof penetration.

14.1 If fitting FLUE KIT with TOP SPACER BRACKET:

a) Ensure the FLUE PIPE extends above the top of the OUTER CASING EXTENSION 145mm cut either OUTER CASING EXTENSION or the FLUE PIPE to obtain this measurement.
b) Fit TOP SPACER BRACKET to the FLUE PIPE making sure the lugs fit snugly inside OUTER CASING EXTENSION. Make sure TOP SPACER BRACKET fits hard down onto OUTER CASING EXTENSION.
c) Fit CASING COVER over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.

- OR -

14.2 If fitting FLUE KIT with COMBINATION CASING COVER:

a) Ensure the FLUE PIPE is either flush with or extends above the top of the OUTER CASING EXTENSION by no more than 15mm. Cut SLIP EXTENSION or FLUE PIPE to obtain this measurement.
b) 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.

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

16. Fasten E KIT CEILING PLATE to the ceiling using screws provided, no spacers are required. Remove protective plastic from CEILING PLATE.

Leave all installation and operation instructions with the owner

150mm Flue Kit with E Kit Option (cont.)

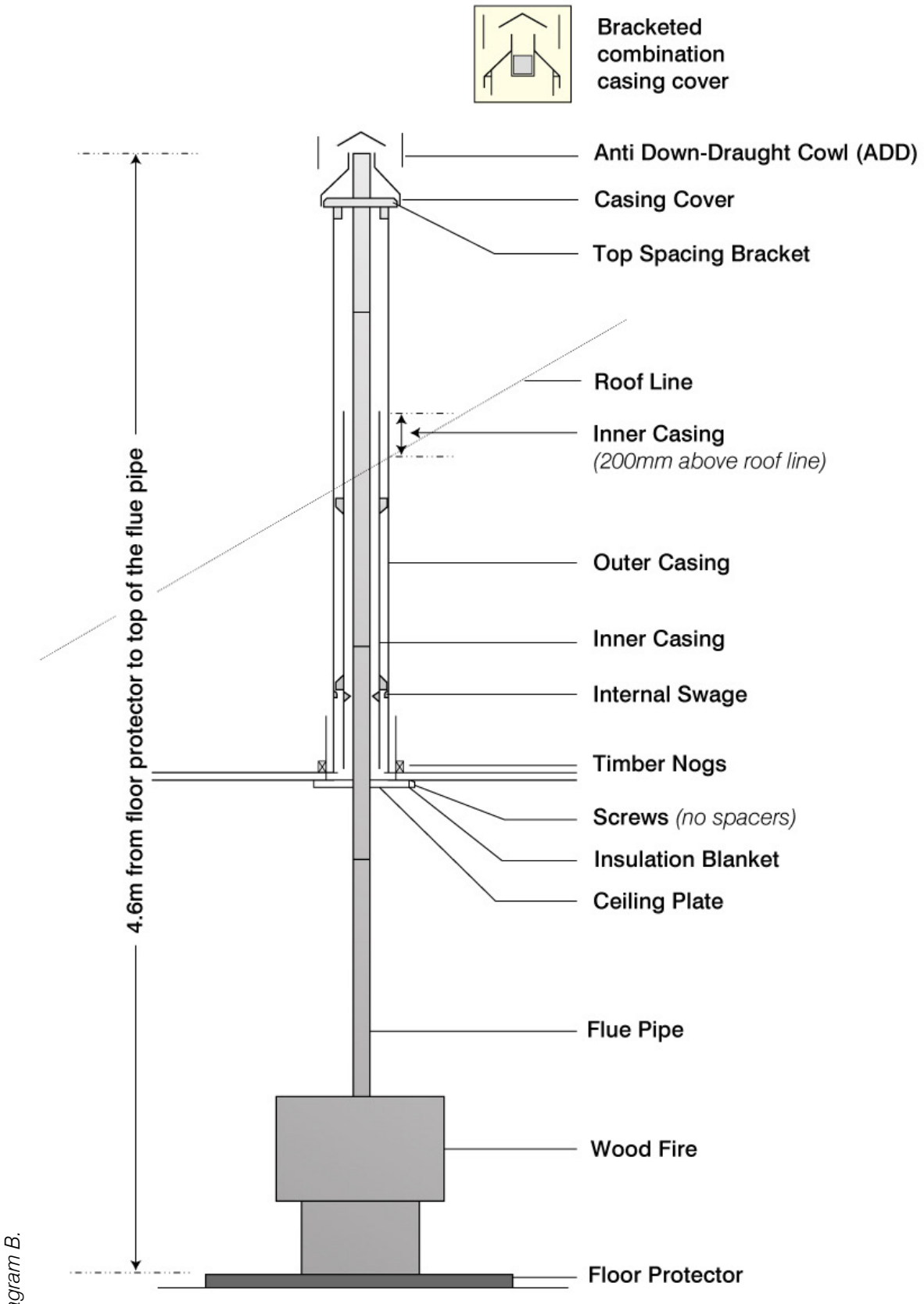
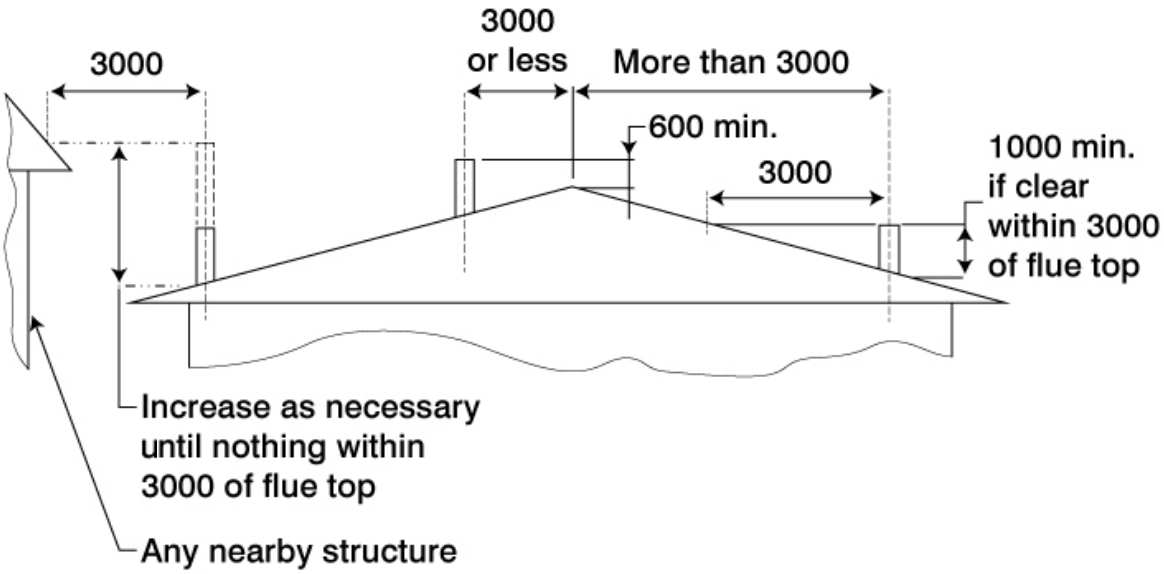
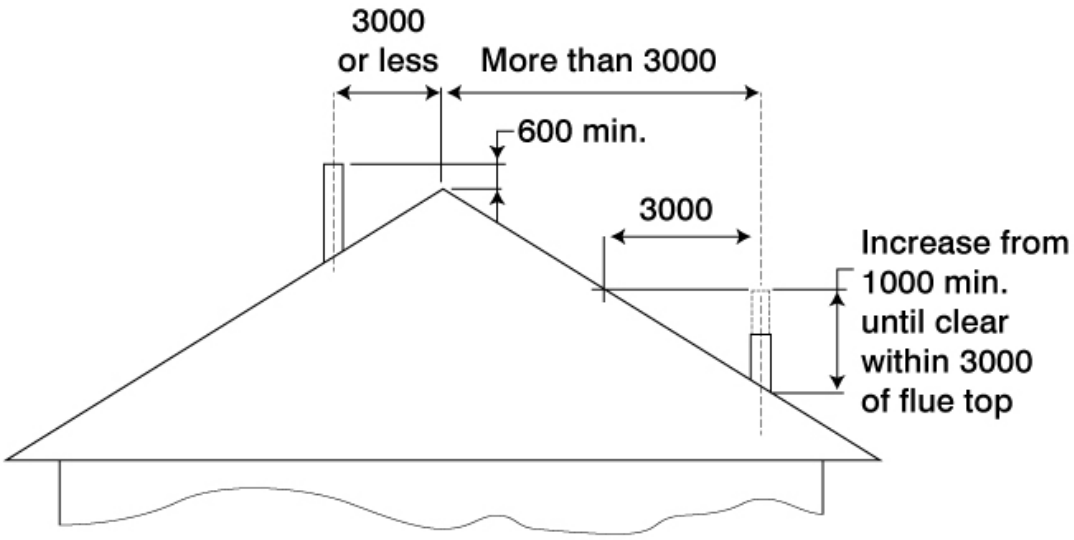


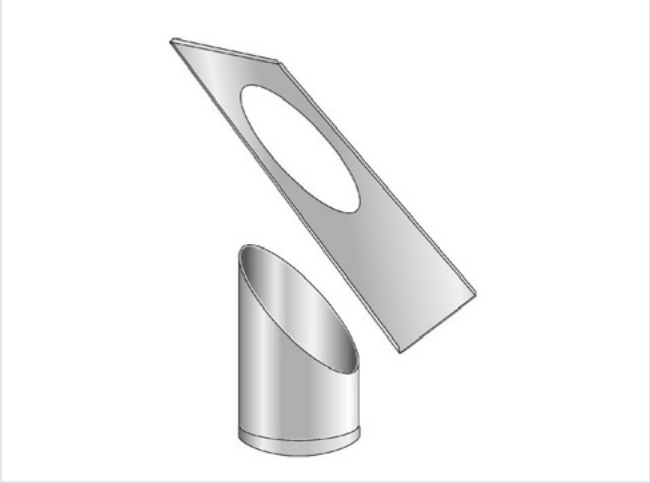
Diagram B.

150mm Flue Kit with E Kit Option (cont.)





150mm Sloped Ceiling Penetration Unit Free Standing Flue Kit



Before commencing the FLUE KIT installation the angle of the ceiling (from the horizontal) must be determined to ensure the following requirements are adhered to in the completed installation:

- **The 250mm DROP CASING TRIM UNIT and OUTER/INNER CASING COMBINATION must extend a minimum of 150mm below the underside of the ceiling. (Measured on the lower side of penetration)**
- **A minimum dimension of 254mm measured horizontally from the FLUE PIPE to the unprotected CEILING is achieved.**
- **The CEILING PLATE extends a minimum of 70mm from the 250mm DROP CASING UNIT (400mm square CEILING PLATE on a Flat Ceiling)**
- **A CEILING PLATE is not required if the ceiling penetration extends sufficiently to effect a minimum dimension of 450mm measured from the FLUE PIPE to the nearest surface of the ceiling.**

To achieve the dimensions on Ceilings greater that 45° the 250mm DROP CASING UNIT will need to extend further that 150mm below the Ceiling and additional Ceiling shielding will be required.

1. Locate Wood Fire in its proposed position and mark a point on the ceiling that is directly above the centre of the heater's flue outlet. Check that the heater's location allows the OUTER CASING to clear all structural roof timbers.
2. The Sloped Ceiling Penetration Unit uses a 250mm DROP CASING TRIM UNIT and installation requires an aperture in the ceiling that allows tangential contact with the 250mm DROP CASING TRIM UNIT and 250mm OUTER CASING but in the roof cavity ensures 25mm clearance from 250mm OUTER CASING.

   To achieve the bracing required to adequately support the OUTER CASING in a Sloped Ceiling situation, additional timber or metal framework may be required within or below the ceiling cavity and external bracing required on the roof cavity but may tangentially contact the 250mm DROP CASING UNIT and OUTER CASING at the ceiling.
3. Cut a hole in the ceiling and roof cavity to construct an adequate support structure for the OUTER CASING and the DROP CASING TRIM UNIT.
4. Trim the DROP CASING TRIM UNIT to suit the Ceiling Slope if necessary and secure into the Ceiling support structure.
5. Position the OUTER CASING into the DROP CASING TRIM UNIT.
6. Position the 200mm BRACKETED INNER CASING into the OUTER CASING ensuring it locates onto the Internal Swage at the bottom of the OUTER CASING.

   The INNER CASING must extend a minimum of 200mm above the roof.
7. Fit an appropriate flashing to the 250mm OUTER CASING to seal onto the roofing material, Refer to the manufacturer's recommendations for correct fitting.

150mm Sloped Ceiling Penetration Unit Free Standing Flue Kit (cont.)

8. Fit 250mm OUTER CASING SLIP EXTENSION over the OUTER CASING but do not secure until the following is checked and the FLUE PIPE is in position.

   Note that AS/NZS 2918:2991 4.9.1(a) states, “the FLUE PIPE shall extend not less than 4.6m above the top of the floor protector”.

   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.

   Additional FLUE PIPE, OUTER CASING and INNER CASING may have to be added to ensure this requirement is met.

9. Position bottom length of FLUE PIPE (crimped end downwards) into heaters flue outlet.

10. Refer to the supplier of the heater and use flue pipe sealant if recommended.

11. Assemble FLUE PIPES together ensuring seams are straight; offsetting the seams will ensure a neat fit. Secure each joint with 3 rivets equally spaced around the joint to prevent unintentional or accidental separation. FLUE PIPES must be assembled with crimped ends down (towards heater). If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.

12. From the roof lower FLUE PIPE through OUTER CASING into position and secure as above.

13.1 If fitting FLUE KIT with TOP SPACER BRACKET:

   a) Ensure the FLUE PIPE extends above the top of the OUTER CASING EXTENSION by 145mm cut either OUTER CASING EXTENSION or the FLUE PIPE to obtain this measurement.
   b) Fit TOP SPACER BRACKET to the FLUE PIPE making sure the lugs fit snugly inside OUTER CASING EXTENSION. Make sure TOP SPACER BRACKET fits hard down onto OUTER CASING EXTENSION.
   c) Fit CASING COVER over the FLUE PIPE and push down firmly onto TOP SPACER BRACKET.

- OR -

13.2 If fitting FLUE KIT with COMBINATION CASING COVER:

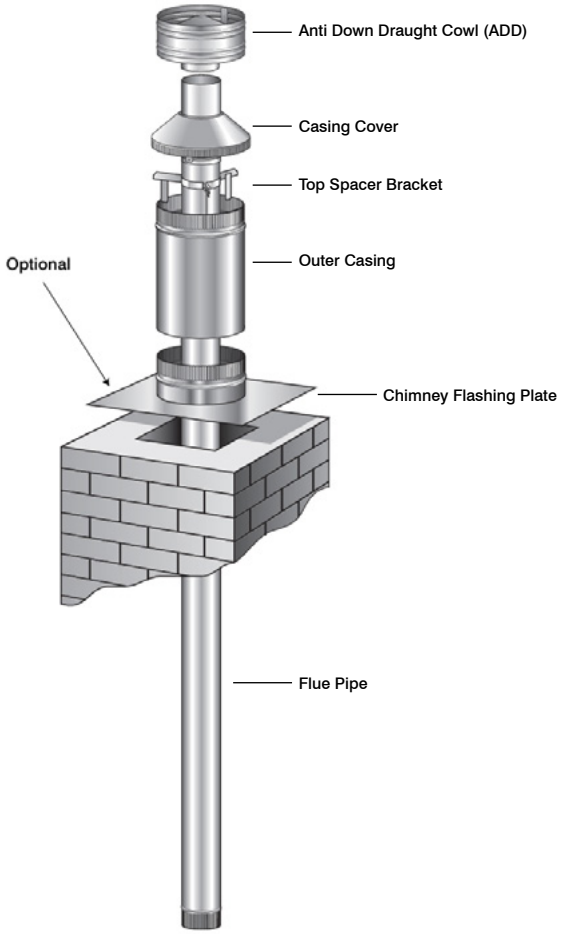
   a) Ensure the FLUE PIPE is either flush with or extends above the top of the OUTER CASING EXTENSION by no more than 15mm. Cut SLIP EXTENSION or FLUE PIPE to obtain this measurement.
   b) Push CASING COVER (with spigot inside FLUE PIPE) down onto the OUTER CASING SLIP EXTENSION. The 3 locating brackets with holes must be on the outside of the OUTER CASING SLIP EXTENSION and are secured using 3 rivets.

Check that a minimum dimension of 254mm measured horizontally from the flue pipe to the unprotected CEILING is achieved.

Leave all installation and operation instructions with the owner

150mm Chimney Flue Kit

1. Ensure the chimney is clean and free of soot. Check the chimney for structural soundness.
2. Install Wood Fire into fireplace according to manufacturer's specifications.
3. By looking down chimney, check that the heaters flue outlet is in line with chimney. If not, an OFFSET or BENDS will be required.
4. Assemble FLUE PIPES together ensuring seams are in line. Joints must be compressed fully and secured with 3 rivets.
5. Lower assembled FLUE PIPE, crimped end down, into Wood Fire flue spigot. On some installations it may be desirable to assemble FLUE PIPE lengths as they are lowered into the chimney.
6. Secure CHIMNEY FLASHING PLATE and/ or OUTER CASING to chimney with suitable fasteners and weather seal to the chimney top with mortar and/or silicone.
7. Check the FLUE PIPE extends above the top of the CHIMNEY FLASHING PLATE or OUTER CASING 145mm. Add sufficient stainless steel FLUE PIPE or trim OUTER CASING to attain this measurement.
8. Fix TOP FLUE SPACER BRACKET to the FLUE PIPE making sure the lugs fit snugly inside the OUTER CASING.



Contents of Kit.

9. Fit CASING COVER over FLUE PIPE and push down firmly onto TOP SPACER BRACKET.
10. 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.

Leave all installation and operation instructions with the owner

Flue Kit Installation Explanation for 30°

AS/NZS 2918:2001 (section 4.6 pg 31, 32) describes sloped ceilings as having a slope of greater than 30 degrees. It describes the method of installation for ceilings of greater than 30 degrees.

Contrarily AS/NZS 2918:2001 Definitions (Section 1.5.34.1 Penetrations pg 9) defines a sloped ceiling as being greater than a slope of 15 degrees.

SFP has tested, to Appendix F, a penetration of 30 degrees that is installed as per a flat ceiling in our installation instructions. (This was done in conjunction with the NZHHA to support the definition of sloped ceilings as being ceilings of greater than 30 degrees at the time AS/NZS 2918 was being written.) The subsequence document however contained the anomaly.

SFP's position is that the Consenting Authority must determine whether the ceiling is sloped as per AS/NZS 2918:2001 i.e. 15 or 30 degrees.

We recognise this creates a situation that is not able to be resolved because of the conflict in the Standard. Taking into consideration the test data available from the SFP and NZHHA test supporting the argument that sloped ceilings are ceilings more than 30 degrees we believe there is justification for accepting sloped ceilings being greater than 30 degrees.

If the Consenting Authority determines the ceiling is sloped (i.e. more than 15 or 30 degrees) then the installation needs to be carried out as per the Fireplace Manufacturer's Instructions for Sloped Ceilings. (This would be based on the SFP Appendix F test data and the Fireplace Manufacturers Appendix B test.)

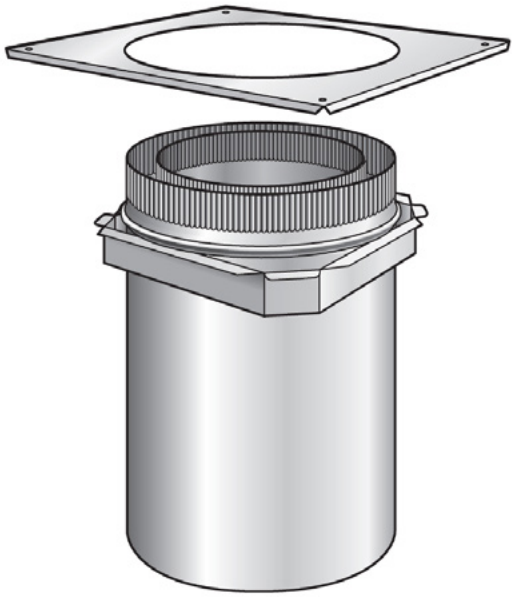
If the Fireplace Manufacturer does not provide installation detail then the detail for Untested Sloped Ceiling Installations (4.6.3.b) must be followed.

Floor Penetration Unit 150/200/250

1. With the heater located in its proposed position mark a point on the first floor/ceiling that is directly above the centre of the flue outlet. Check that the heater's location allows FLOOR PENETRATION UNIT to clear all structural floor timbers.
2. Cut a 255mm square hole in floor.
3. Measure length from surface of floor to ceiling below. Remove OUTER CASING EXTENSION on FLOOR PENETRATION UNIT and adjust length of INNER CASING EXTENSION so that overall length (measured from flange on unit) is 12mm shorter. Secure INNER CASING EXTENSION with 3 rivets.
4. Adjust length of OUTER CASING EXTENSION to equal floor penetration thickness and secure with rivets or self-tapping screws.

   FLOOR PENETRATION EXTENSIONS must be used when fitting MESH SCREENS (AS/NZS 2918:2001 4.6.30)

5. Fit FLOOR PENETRATION UNIT into the hole and secure with screws or nails through flange on unit into floor.



6. Drill (not necessary on pre-punched FLOOR TRIM PLATES) and fasten FLOOR TRIM PLATE to floor using self-tapping screws and spacers. Ensure an even air gap around OUTER CASING of FLOOR PENETRATION UNIT.

   NB: 12mm air gap between floor trim plate and floor must be maintained.

7. Remove protective plastic from FLOOR TRIM PLATE (stainless steel plates only).

The FLOOR PENETRATION UNIT is now ready for the fitting of MESH SCREENS or OUTER CASINGS and the completion of installation of the FLUE KIT.

NB: for unprotected flue pipe installations or where MESH SCREENS will be fitted, the CASINGS must extend a minimum of 300mm ABOVE floor level. (Order separately from SFP to suit installation type).

Floor Penetration Unit 150/200/250 (Untested)

1. With heater located in its proposed position, mark a point on the first floor/ceiling that is directly above the centre of heaters flue outlet. Check that the heater's location allows the FLOOR PENETRATION UNIT to clear all structural floor timbers.

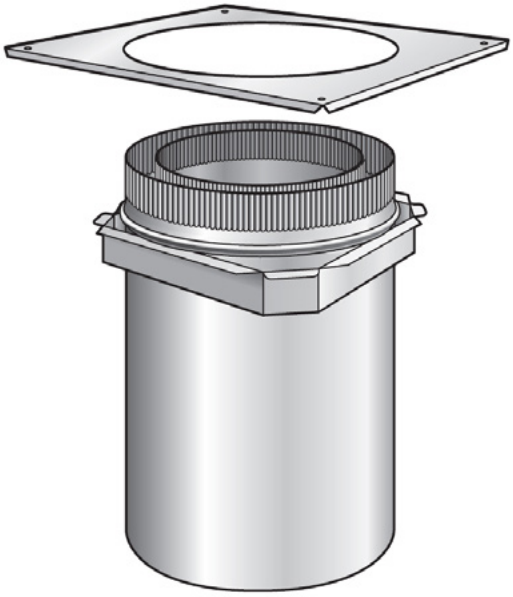
2. Cut a 305mm square or 305mm round hole in floor. (For 150/200/250 FLOOR PENETRATION UNIT). On larger units enlarge hole dimensions accordingly.

3. Measure length from surface of floor to bottom of ceiling below. Adjust the OUTER and INNER CASINGS to confirm the following depending on CEILING PENETRATION TRIM UNIT (CPTU) being used.

   (Additional CASINGS may be required to obtain the required length).

   Type 1 CPTU (300mm long with 350mm square trim plate). Dimension A + 300mm

   Type 2 CPTU (150mm long with 450mm square trim plate). Dimension A + 150mm



4. Secure the OUTER and INNER CASINGS using rivets or self-tapping screws.

   NB: for unprotected flue pipe installations or where MESH SCREENS will be fitted the CASINGS must extend a minimum of 300mm ABOVE floor level. (Order separately from SFP to suit installation type).

5. Fit FLOOR PENETRATION UNIT into hole and secure with screws or nails through flange on unit into floor.

6. Drill (not necessary on pre-punched FLOOR TRIM PLATES) and fasten FLOOR TRIM PLATE to floor using self-tapping screws and spacers. Ensure an even air gap around OUTER CASING of FLOOR PENETRATION UNIT.

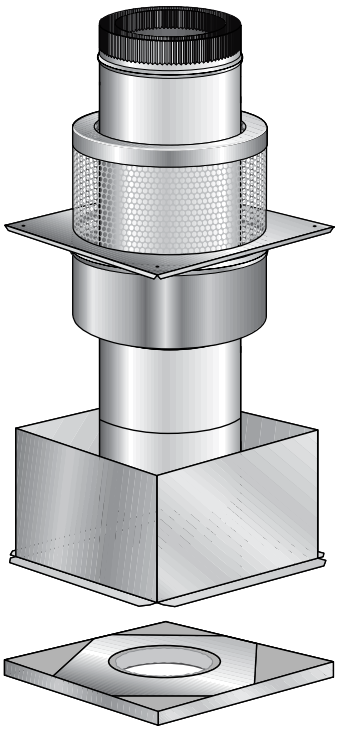
   NB: 12mm air gap between floor trim plate and floor must be maintained.

7. Remove protective plastic from FLOOR TRIM PLATE (stainless steel plates only)

   The FLOOR PENETRATION UNIT is now ready for the fitting of MESH SCREENS or OUTER CASING and the completion of installation of the FLUE KIT.

Floor Penetration E Kit

1. With heater located in its proposed position mark a point on the first floor/ceiling that is directly above the centre of heaters flue outlet. Check that the heater's location allows the FLOOR PENETRATION UNIT to clear all structural floor timbers.
2. Cut a 305mm square hole in the floor.
3. Measure length from the surface of floor to ceiling below. If this measurement is less than 205mm the square CEILING SUPPORT UNIT will need to be trimmed accordingly.
4. Fit the square CEILING SUPPORT UNIT into the ceiling/floor aperture, securing with screws or nails. The flange should be flush with the underside of the ceiling.
5. Fit the MESH FLOOR PLATE into the CEILING SUPPORT UNIT and secure using the screws and spacers provided.
6. The FLOOR PENETRATION E KIT is now ready for installing the OUTER/INNER CASING COMBINATION, FLUE PIPE and INSULATED CEILING PLATE



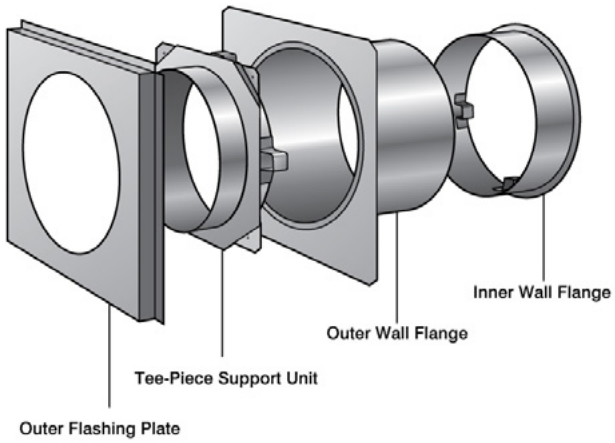
THE INSTRUCTIONS FOR THE FLOOR PENETRATION E KIT MUST BE FOLLOWED. THIS UNIT IS DESIGNED FOR USE WITH 250/200 OUTER/INNER CASING COMBINATION ONLY.

THE OUTER/INNER COMBINATION MUST BE CONTINUOUS FROM THE FLOOR PENETRATION UNIT THROUGH CEILING AND ROOF STRUCTURES AND VENTILATE AT THE CASING COVER.

THIS UNIT IS NOT DESIGNED FOR USE WITH MESH SCREENS.

150mm Wall Penetration Unit

1. Cut a 305 square hole through wall structure. Nog if necessary for structural support.
2. Measure overall depth of wall. On site trim OUTER WALL FLANGE as required. Ensure OUTER WALL FLANGE is flush with the surface of the inner wall or no more than 50mm shorter.
3. Fix OUTER WALL FLANGE through wall structure, securing the square outer flange to outer surface of external wall.
4. Insert INNER WALL FLANGE through the inner wall into the OUTER WALL FLANGE and secure with rivets or screws.



5. Insert TEE-PIECE SUPPORT UNIT into OUTER WALL FLANGE and secure with screws or rivets.
6. Measure the overall length of the installed WALL PENETRATION UNIT making allowance for the distance the OUTER CASING will stand off the outside wall surface. Calculate the required lengths of FLUE PIPE STUB, INNER CASING STUB and OUTER CASING STUB.
   According to AS/NZS 2918:2001 both double flue pipe casing's must extend a distance of not less than 150mm on both sides from the surface of a heat sensitive wall through which the flue pipe passes.
7. Secure the square OUTER FLASHING PLATE to the OUTER WALL FLANGE.
8. With the FLUE PIPE STUB, INNER CASING STUB and OUTER CASING STUB riveted to the TEE-PIECE, fit and secure the TEE-PIECE to the SUPPORT UNIT and secure with rivets or screws.
9. Fix the WALL TRIM PLATE (not supplied) to the surface of the inner wall. Use 12mm ceramic spacers to space the plate off the wall surface.
10. Silicone all joints to weather proof.
11. Check installation is in accordance with summary.

Insert Page Here

Insert Page Here