QUADRA-FIRE®

NOTHING BURNS LIKE A QUAD

QUADRA-FIRE 2100 & 4300 MILLENNIUM ACC WOOD BURNER INSTALLATION INSTRUCTIONS

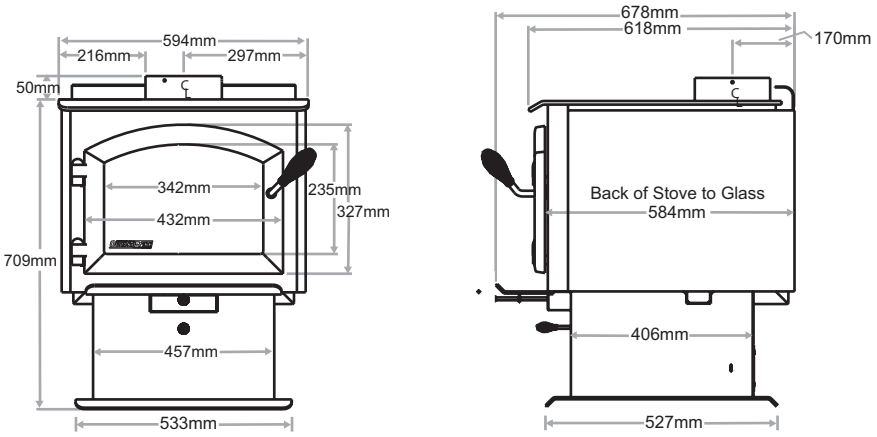
INSTALLATIONS TO COMPLY WITH AS/NZS2918:2001
2100 ECAN No: **083786**
4300 ECAN No: **083785**

IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these instructions may result in a fire hazard and will void the warranty. The Quadra-Fire unit is to be installed by a certified Fireplace Installer or an Approved NZHHA Installation Technician See www.homeheat.co.nz/members for a Certified NZHHA SFAIT installer in your area.

- Fig 3,4,5 and Table 1 & 2 relate to installations with tested flue systems; as per **AS/NZS 2918:2001 - Appendix F**, with a ceiling angle between 0° - 30° inclusive.
- For installations with a ceiling angle greater than 30°, refer to Fig. 6 & 7 and **AS/NZS 2918:2001 4.6.3(b)**
- Ceiling Plate may vary in size depending on ceiling angle. Please specify ceiling pitch prior to ordering the ceiling plate.
- Quadra-Fire 2100 & 4300 Millennium ACC wood burner's are tested and approved to the N.Z. National Environmental Standards;

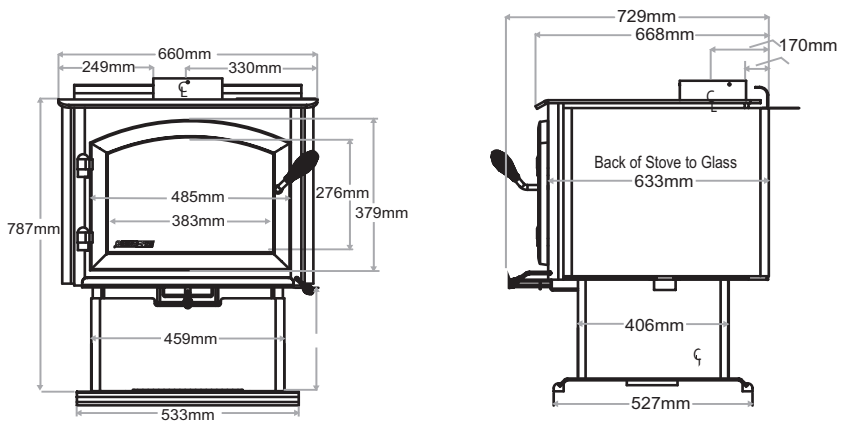
  2100 Millennium ACC Particulate Emissions = 0.6 g/kg Space Heating Efficiency = 72%
  4300 MIllennium ACC Particulate Emissions = 0.4 g/kg Space Heating Efficiency = 71%

Fig. 1 **Quadra-Fire 2100 Millennium ACC Wood Burner**



Drawing not to scale

Fig. 2 **Quadra-Fire 4300 Millennium ACC Wood Burner**



FLOOR PROTECTOR

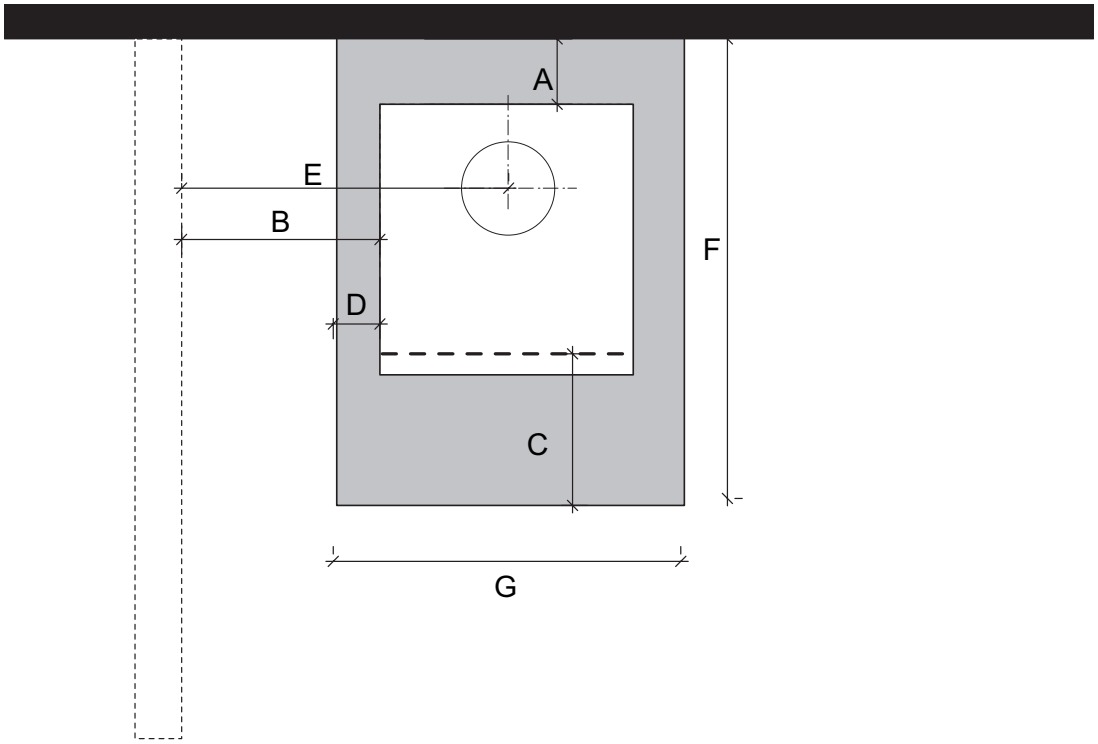
1.QF.1B

Quadra-fire 2100 & 4300 Millennium ACC do not require a insulating Floor Protector, as they are tested and comply with the minimum Floor Protector requirements of **AS/NZS 2918:2001**.

Note:
- The minimum Floor Protector sizes are specified in the clearance chart, see Table 1 & 2.
- A Floor Protector can include ceramic tiles with grouted joints fixed directly onto a wooden floor or a sheet of toughened glass, panel steel or any other non combustible material laid directly onto a wooden floor.
- If installed directly onto a concrete slab, the concrete slab can be considered as the floor protector, but must maintain the minimum measurement listed.

PARALLEL POSITIONING

Fig. 3



Drawing not to scale

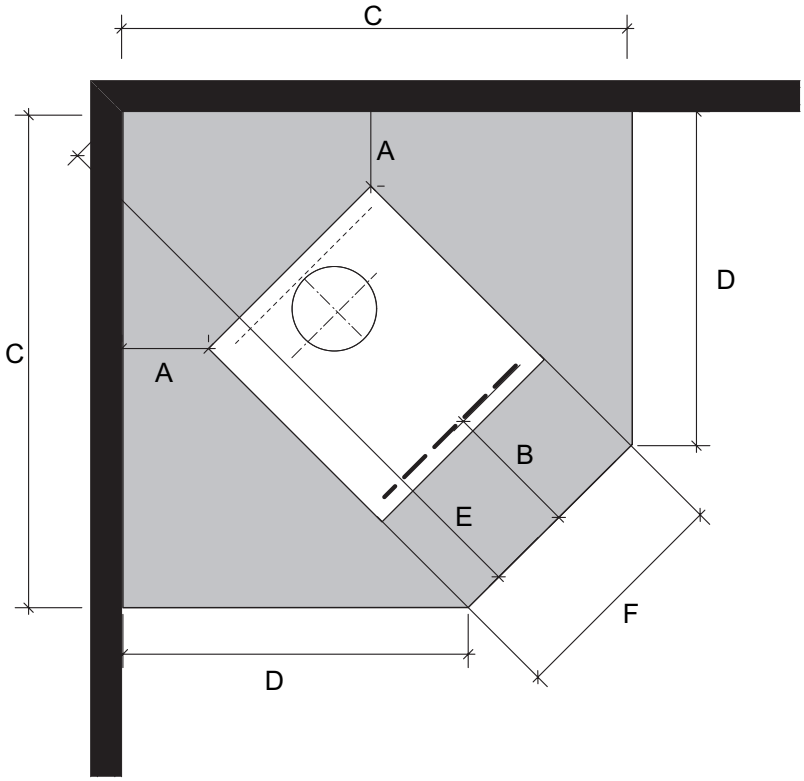
Table 1

	DESCRIPTION Pioneer Double Flue Mounted Shield Universal Shall be Fitted	With Double Flue Shield Fitted	
		2100	4300
A	Min. clearance from firebox to rear wall	150	200
B	Min. clearance from firebox to side wall	550	400
C	Min. distance from firebox opening to floor protector front	300	300
D	Min. distance from firebox to floor protector side	76	69
E	Min. distance from flue centre to side wall	847	730
F	Min distance from rear wall to front of floor protector	1034	1133
G	Width of floor protector	746	798

NOTE: HEAT SHIELD REQUIREMENTS FOR HEAT SENSITIVE WALLS
Clearances may be reduced by provision of an appropriately located heat shield refer to **AS/ NZS 2198:2001 3.2.3 Table 3.1**

CORNER POSITIONING (45˚)

Fig. 4



Drawing not to scale

Table 2

	DESCRIPTION Pioneer Double Flue Mounted Shield Universal Shall be Fitted	With Double Flue Shield Fitted	
		2100	4300
A	Min. clearance from firebox to corner walls	230	250
B	Min. distance from firebox to floor protector front	300	300
C	Min. distance from rear wall to front of protector	1280	1380
D	Min. floor protector projection from wall	860	910
E	Min. overall floor protector depth	1510	1620
F	Min floor protector front width	594	660

FIREBOX INSTALLATION

1. If a separate floor protector is being used position now. Place the firebox on the floor protector to suit the minimum installation clearances. (See Fig 3 or 4).
2. Seismically restrain the firebox and the floor protector to the floor.
3. Fit 2 x 6mm fixings suitable for the floor material. DO NOT over tighten.
4. Fit timber trim pedestal edging to front and back of base (*optional*).

GENERAL INSTRUCTIONS FOR FLUE SYSTEM

- Flue pipe installed crimp/narrow end down
- Outer casings installed crimped/narrow end up. (Critical when exposed above the roof)
- Inner casings - direction not critical
- Flue pipes - seal all joints including firebox spigot.
  - fix with a minimum of 3 stainless steel rivets
- Flue pipe spacers - affix to flue pipe
- Flue system termination point - **Refer to AS/NZS 2918:2001 4.9.1, see Fig. 9.**
- Flue pipe shall extend not less than 4.6m above top of the floor protector as per **AS/NZS 2918:2001 4.9.1(a)**
- Façade or chase systems - same rule applies as above.

Note: These instructions apply to 150mm diameter flue pipe systems as tested to AS/NZS 2918:2001

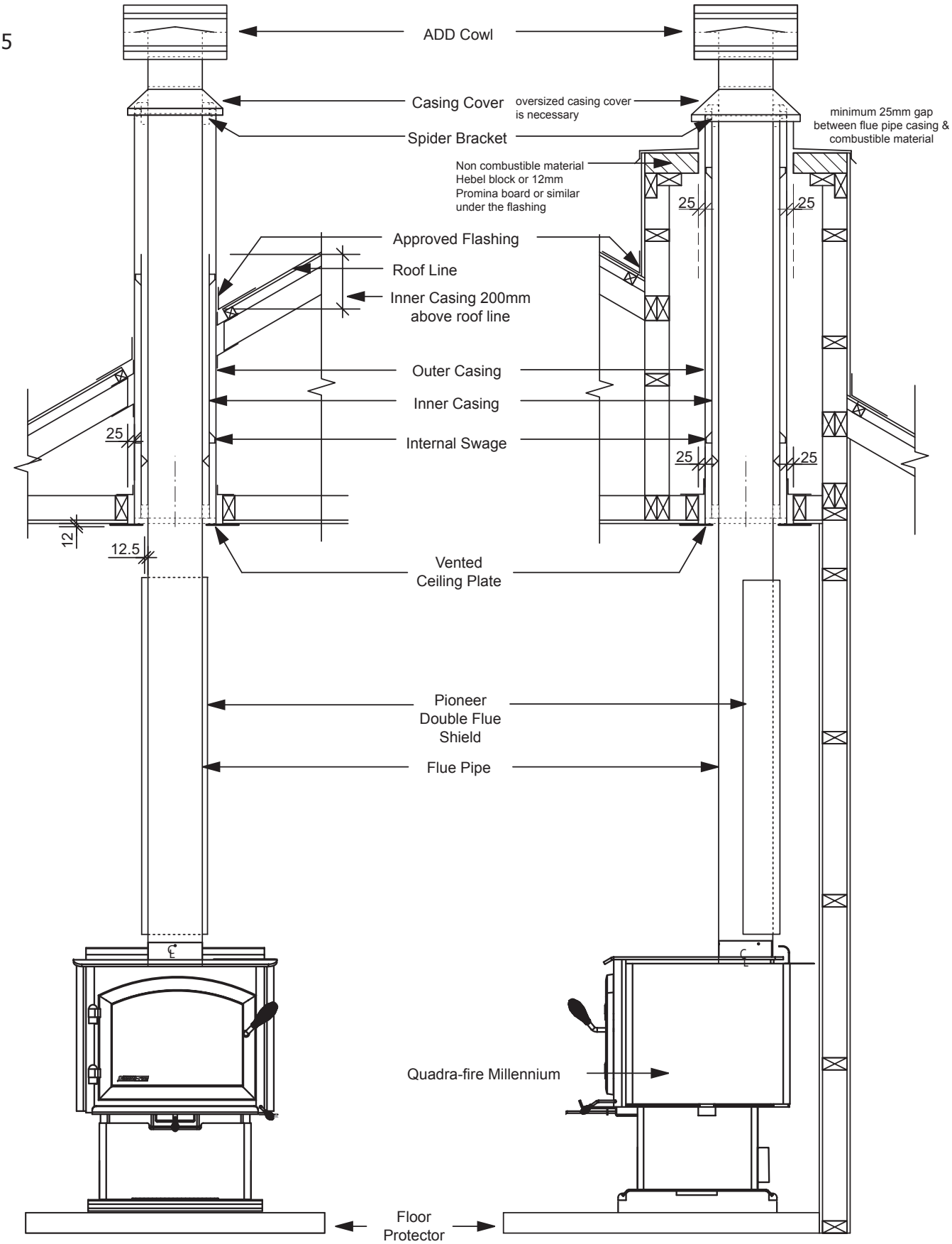
1. Either locate the appliance in position or by measuring at the ceiling mark the flue pipe centre position. Check that the outer casing is unobstructed through the attic space or roof area.
2. Spike the centre with a nail. Transfer this position to the next surface above. Plumb bob/laser.
3. Cut out the ceiling penetration hole – square or rectangle – short axis equals outer casing diameter plus 50mm, long axis as required. See Table 5 . Perform the same at the roof penetration.
4. Frame out the hole with minimum 75 x 50 timber or as required for roofing material. Minimum requirement at roof penetration see NZ Building Code E2 Acceptable Solution (from 01/07/05).
5. Install the outer casing so that :-
   (i) lower end is flush with the underside of the ceiling material and
   (ii) with the addition of metal “L” brackets, affix to the outer casing at 90 degrees secure the outer casing centrally to the ceiling and roof nogs. Alternatively substitute the “L” brackets for 25mm thick non heat sensitive packers. Secure the outer casing through the packers with horizontal fixings to the nogs. Refer to the General Instruction for termination height. The option of outer casing slips to be taken into account.
6. Flash the outer casing to the roof material with the appropriate approved flashing.
7. If using an outer/inner casing combination, now install the inner casing ensuring it extends a minimum 200mm above the high side of the roof penetration. If not using a combination see ‘11’ below.
8. Refer to Firebox Installation, points 1 & 2.
9. Prepare the ceiling plate and place upside down over the flue spigot.
10. Install the flue pipes by preferred method – either up or down the outer casing. Affix each length per the notes in General Instructions (above). Extend the flue pipe above the outer casing to suit the casing cover/cowl assembly.
11. If the inner casing has not been installed, install now. Refer to 7 above for minimum height.
12. Install the cowl assembly, i.e. Top spacer, casing cover and cowl.
13. Position and secure the ceiling plate with the screws and spacers.
14. Wipe the flue pipe to remove finger marks.
15. Refer to Firebox Installation, point 3.
16. If flue offset is required, refer to AS/NZS 2918:2001 4.1

FLUE PENETRATION

Tested flue systems, as per AS/NZS 2918:2001

Fig. 5

Drawing not to scale



Un-tested flue systems, as per AS/NZS 2918:2001, 4.6.3(b)

Fig. 6

AS/NZS2918:2001

Un-tested flue with sloped ceiling penetration greater than 30° from horizontal

A = 25mm

4.6.3(b)
Fig 4.6 = downward distance of casing and 3 x ø flue distance of the ceiling plate

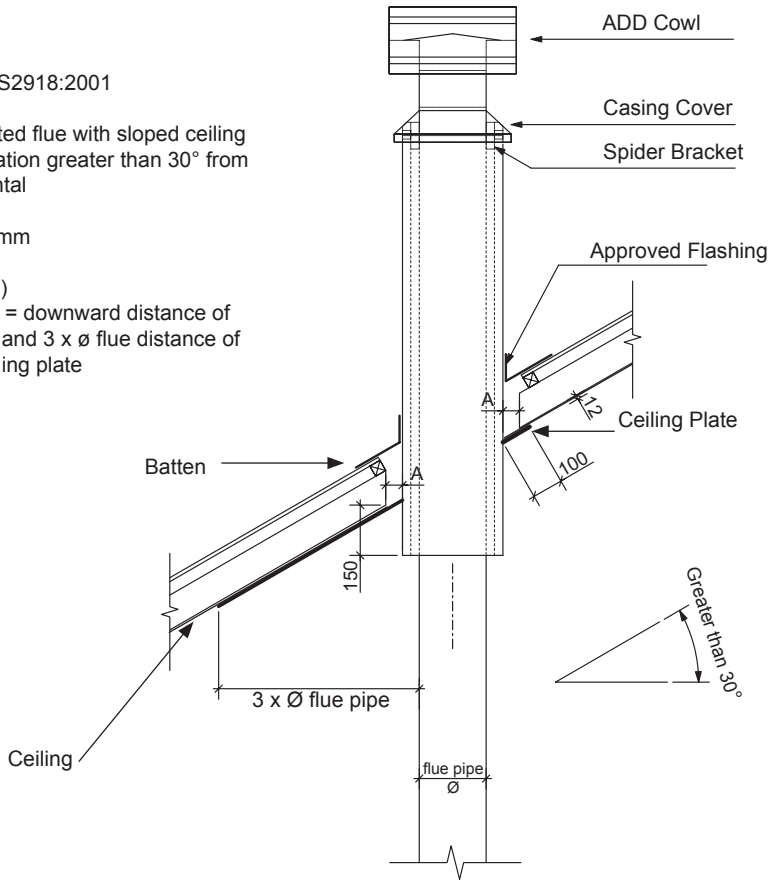


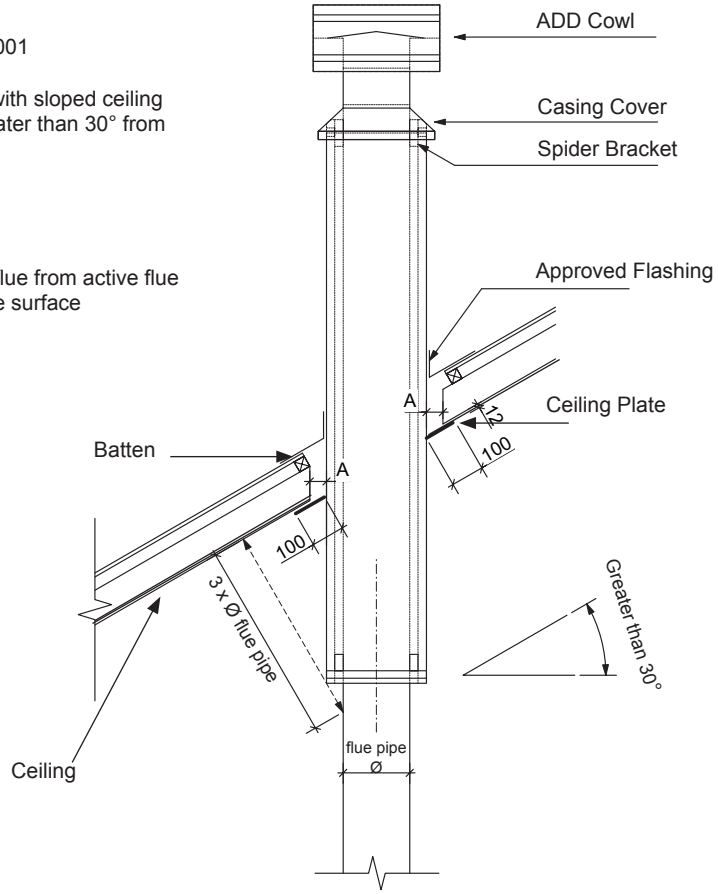
Fig. 7

AS/NZS2918:2001

Un-tested flue with sloped ceiling penetration greater than 30° from horizontal

A = 25mm

4.6.3(b)
Fig 4.6 = 3 x ø flue from active flue to heat sensitive surface



PIONEER DOUBLE FLUE SHIELD FITTING INSTRUCTIONS

1.QF.1G

1. Unpack the Flue Mounted Shield, detach the three brackets and familarize yourself with the illustrations.

2. Using a sharp knife or razor blade, carefully cut through the plastic film on the "inside face" where it meets the outer shield (refer sketch). Cut along the full length of the Flue Mounted Shield on both side, then peel off and fully remove the plastic film from the stainless steel inner shield.

3. Peel back and fully remove the plastic film from the outer shield.

4. Fit the top bracket to the Flue Mounted Shield as illustrated ensuring the rear mid section of the bracket fits "outside" while the two outer sections of the bracket fit "inside".

5. Fit the appropriate lower bracket to your woodfire.

   Lower Bracket "5B suitable for all other woodfires without an inner rear heatshield.
   On certain model woodfires without a raised flue spigot it will be necessary to cut off both the lower outer legs from the bracket "5B" leaving the entral tongue to locate inside the flue outlet only.

   Two tabs are provided and if folded back at 90 degrees the bracket and Flue Mounted Shield will mount lower onto the appliance.

   The Flue Mounted Shield then locates into the two notches provided n bracket "5B" as illustated.

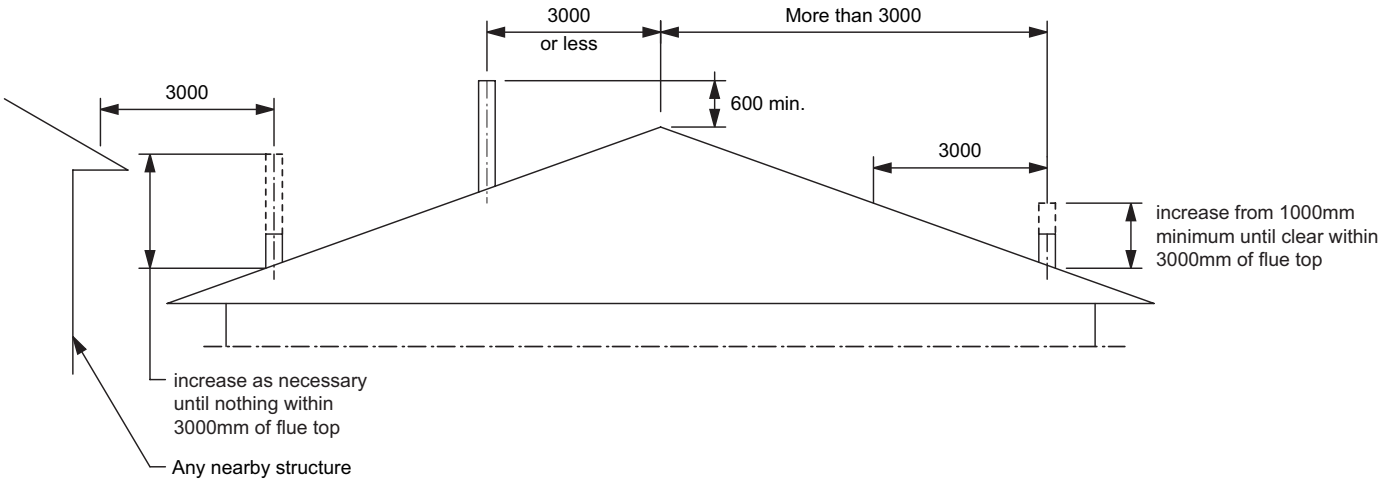
6. Once the Flue Mounted Shield is fitted in position onto either of the two lower mounting brackets, check to ensure a large gap is not present between the top of the woodfire and the base of the Flue Mounted Shield, as this may result in a hot spot on the rear wall directly behind the flue outlet. If your woodfire has a lift off top grill the Flue Mounted Shield should be raised sufficiently to enable the top grill to be removed.

7. Using the pre-punched holes in the two tabs provided on the top bracket as guides, drill into the flue pipe and secure the top bracket to the flue pipe with two stainless steel rivets (not supplied).

MINIMUM HEIGHT OF FLUE SYSTEM EXIT

As per AS/NZS 2918:2001 4.9.1 Fig 4.9

Fig. 8



WARNINGS:

WARNING: THE APPLIANCE AND FLUE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.

WARNING: APPLIANCES INSTALLED IN ACCORDANCE WITH THIS STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 4013 WHERE REQUIRED BY THE REGULATORY AUTHORITY, I.E. THE APPLIANCE SHALL BE IDENTIFIABLE BY A COMPLIANCE PLATE WITH THE MARKING 'TESTED TO AS/NZS 40ww13'.

ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED TO BE IN BREACH OF THE APPROVAL GRANTED FOR COMPLIANCE WITH AS/NZS 4013.

CAUTION: MIXING OF APPLIANCE OR 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.

CAUTIONS: CRACKED AND BROKEN COMPONENTS, e.g. GLASS PANELS OR CERAMIC TILES, MAY RENDER THE INSTALLATION UNSAFE.

WARNING: ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED AS BREACHING AS/NZS 4013.

WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE.

WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHEN ITS OPERATING.

WARNING: DO NOT STORE FUEL WITHIN HEATER INSTALLATION CLEARANCES.

WARNING: FOR OPTIMUM PERFORMANCE FUEL MUST BE LOADED SO THE LOGS LAY "FRONT TO REAR" IN PREFERENCE TO LAYING ACROSS THE WIDTH OF THE FIREBOX. SPACES SHOULD BE LEFT BETWEEN THE LOGS TO ENABLE OXYGEN TO GET TO AS MUCH OF THE SURFACE OF THE FUEL AS POSSIBLE.

CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.

QUADRA-FIRE

NOTHING BURNS LIKE A QUAD

The Fireplace

Head Office & Showroom
12 Tawari St, Mt Eden, Auckland
Ph: 09 623 6990
thefireplace.co.nz