



**TYPICAL JETMASTER IN-BUILT TIMBER FRAME & MASONRY
FIREBOX INSTALLATION INSTRUCTIONS FOR
ALFRESCO OUTDOOR WOOD FIRE & BBQ GRILL**



IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these instructions may result in a fire hazard and will void the warranty.

Due to continued product improvement, The Fireplace Ltd reserves the right to change product specifications without prior notification. Please check to ensure you have the latest installation instructions.

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IMPORTANT

AS/NZS2918:2001 GENERAL NOTES – SOLID FUEL

THE APPLIANCE AND FLUE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.

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.

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

DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE OR IN THE VICINITY OF THIS APPLIANCE WHEN OPERATING.

DO NOT STORE FUEL WITHIN HEATER INSTALLATION CLEARANCES.

WHEN OPERATING THIS APPLIANCE AS AN OPEN FIRE USE A FIRE SCREEN.

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

USE OF SOME TYPES OF PRESERVATIVE-TREATED WOOD AS A FUEL CAN BE HAZARDOUS.

IF INSTALLED IN A COMMERCIAL SETTING A SACRIFICIAL PLATE MUST BE FITTED TO THE BACK OF THE FIRE TO COMPLY WITH JM FIREBOX WARRANTY CONDITIONS.

THE FLUE SYSTEM SHOULD BE CLEANED EVERY 12 MONTHS.

THE JETMASTER UNIT IS TO BE INSTALLED BY A CERTIFIED FIREPLACE INSTALLER , APPROVED NZHHA INSTALLATION TECHNICIAN

JETMASTER FIREBOX DIMENSIONS

Table 1

MODEL	A	A1	A2	B	C	D	E	F	Y	Off-set Gather
700	700	800	750	400	700	225/325	200	680	295	395
850	850	950	900	450	700	250/350	220	680	322	422
1050LL	1050	1150	1100	500	700	300/400	240	680	345	445
1050U	1050	1150	1100	500	800	300/400	240	780	345	445
1200 *	1200	1300	1250	600	1020	400/500	400	1000	435	-
1500 *	1500	1600	1550	600	1020	450/550	410	1000	435	-

* Twin flue gather available – made to order

Fig. 2

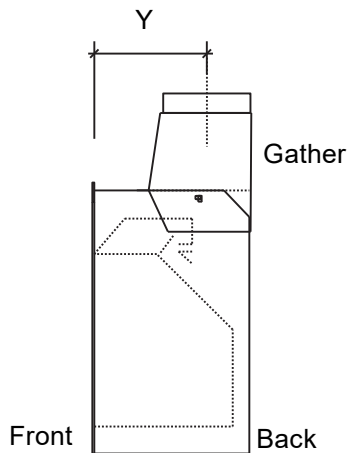
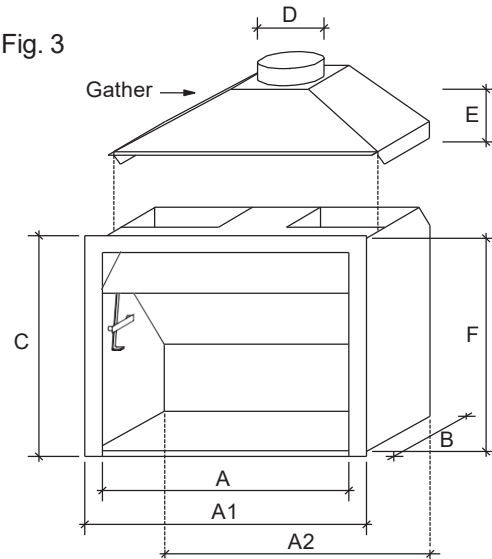


Fig. 3



Note: If the appliance is exposed not under protective cover please recess the appliance

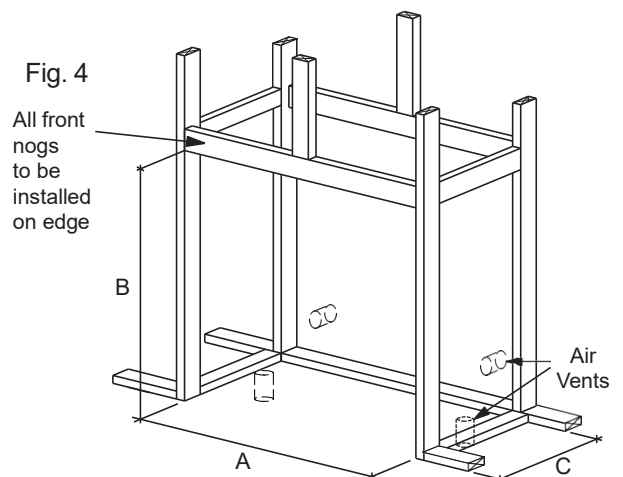
Fig. 10 & Fig. 11 refers to installations where the firebox is recessed. **Min =40mm/Max recess = 100mm.** Add recess dimension to C in table 2.

TIMBER FRAME DIMENSIONS

Table 2

MODEL	A	B	C
700	960	1200	525
850	1110	1200	560
1050LL	1310	1350	610
1050U	1310	1450	610
1200	1500	1620	785
1500	1800	1620	810

Fig. 4



Please note that these dimensions (based on Hebel Block margins) are the absolute minimum sizes - widths (A & C) maybe increased if desired.

It is important to ensure the Jetmaster firebox is seated on top of the finished floor protector level.

MARGIN SET

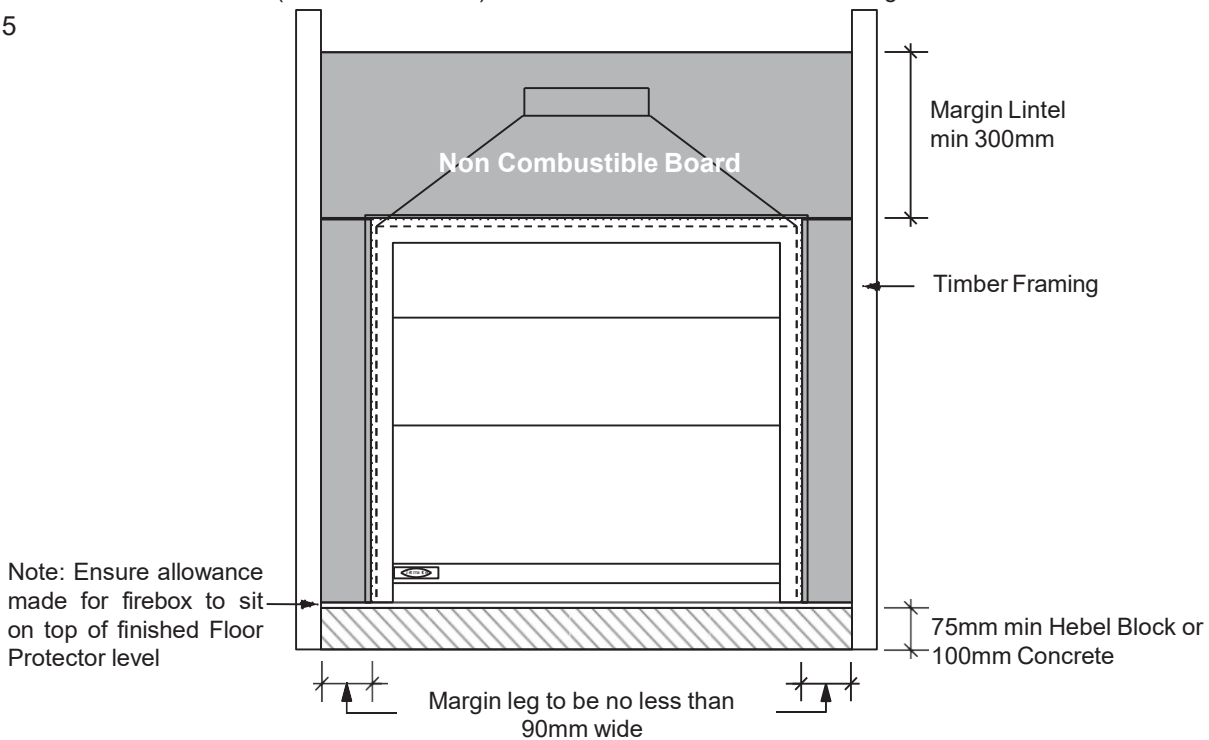
All Hebel Block margins have been made to fit firebox timber frame trim out dimensions (see Table 2). Suggested method to cut Hebel Block - skill saw fitted with masonry blade.

Under no circumstance is the width of the vertical margin legs to be less than 90mm and the height of the margin lintel to be less than 300mm (see Fig 5).

Where an internal wall board finish is required around the fire, ensure allowance is made to place non combustible internal wall lining (eg: Promatect H) to cover the extent of the Hebel panel surround (shown shaded). Directly touching the firebox with any board or plaster finish will cause cracking from heat expansion. Allow 2mm minimum space away from the firebox.

Bond Hebel Block together using appropriate adhesive eg: Gorilla Grip or similar (non-solvent based) & secure with screws for added strength

Fig. 5



METAL HEAT SHIELD

Available for the 700, 850 and 1050 firebox. Hebel power panel enclosure required for the 1200 and 1500 firebox.

Fig. 6

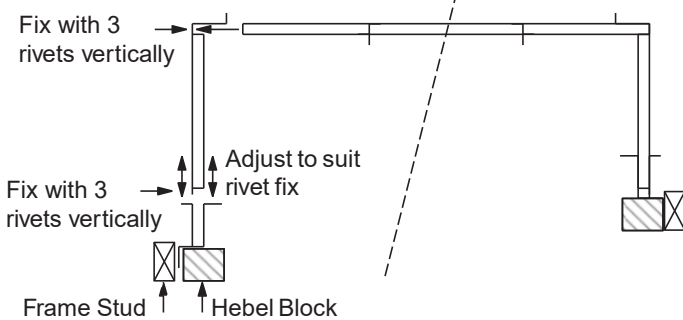
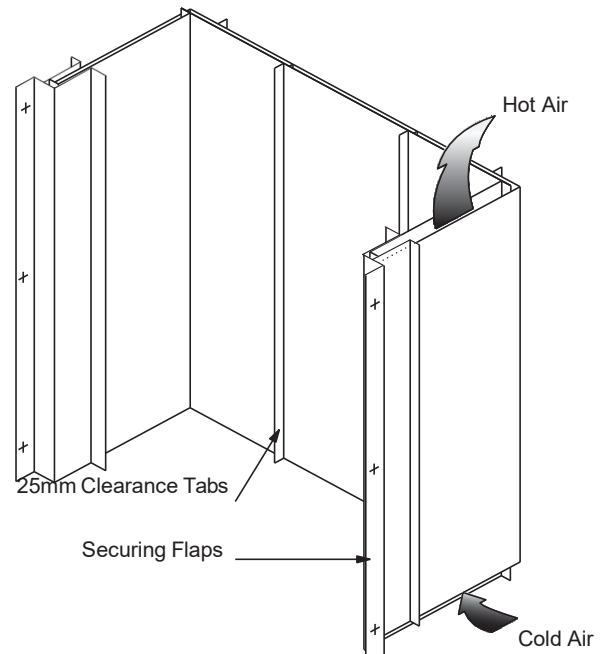


Fig. 7



TIMBER FRAMING PREPARATION

Refer to the minimum framing dimensions as per table 2. Allow a temporary lintel height (see table 2 'B') from the finished floor protector level until the firebox and flue system is installed. Install front nogs on edge to increase chimney chase dimension.

Ensure suitable air vents (2 x 80mm diameter or equivalent) in place to vent firebox space - these may be located in the floor or in the side wall space. Ensure vents must be bird and vermin proofed.

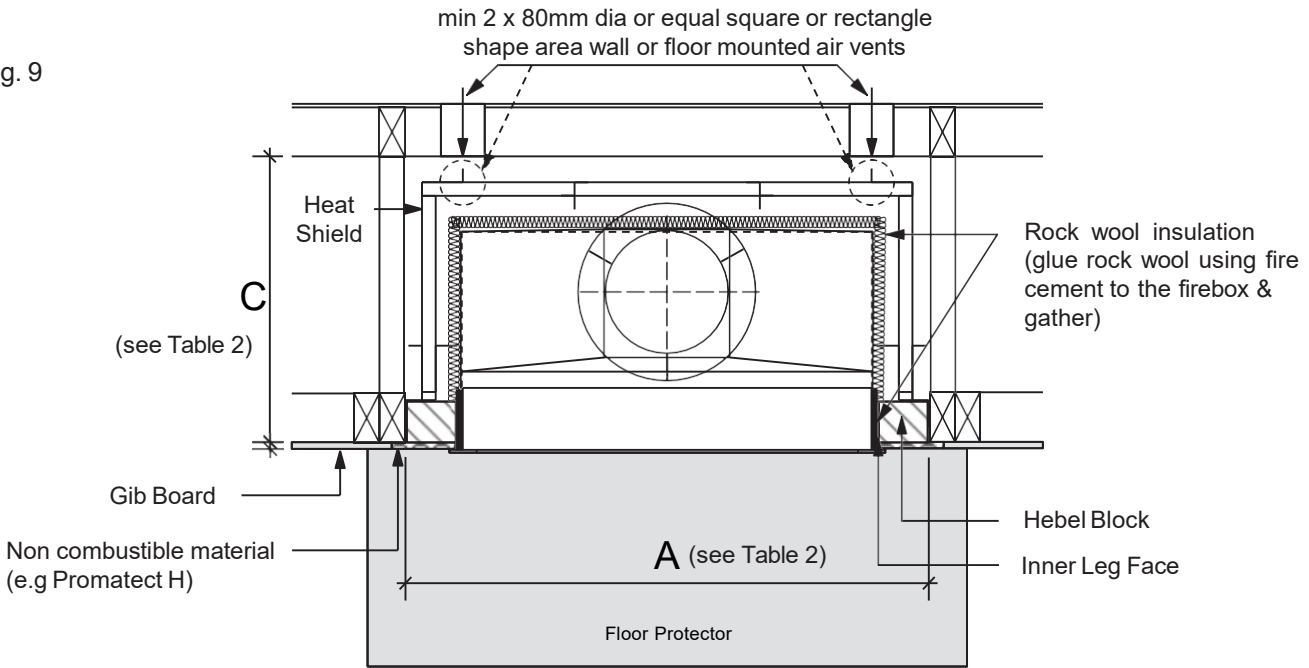
FIREBOX INSTALLATION

1. All dimensions shown for the framing trim out and metal heat shields, are based on a maximum frontal clearance between the timber framing and the rear of the firebox fascia, **being not more than 15mm.**
2. Locate floor protector in trim out cavity. If on a concrete floor, suggest a mortar screed to the underside of the floor protector. If on a wooden floor, screw or dynabolt in place.
3. Locate stud openings on both sides.
4. Position and ensure a strip of glass rock wool insulation is between the inner hebel leg face and the firebox. Nail through stud into hebel leg to secure in place.
5. Locate and position firebox, fit and seal gather in cavity (refer to Cross Section). Earthquake restraints may be positioned by drilling through firebox into the floor protector, in a position midway beneath the log-pan. Two 12mm dynabolts or similar will suffice. Do not over tighten and deform firebox.
6. Attach rock wool to the sides & back of the firebox and gather. **DO NOT BLOCK OFF** the air entry between the inner flue pipe and flue pipe casing or the air circulation between the vent holes in the cavity.
7. Once the flue system is installed, place a minimum 300mm hebel block over the top of the firebox (see Fig. 8).
Ensure the hebel block does not rest on top of the firebox. A Lintel Bar may be required.

TIMBER FRAME PLAN

Fig. 9

Drawing Not To Scale

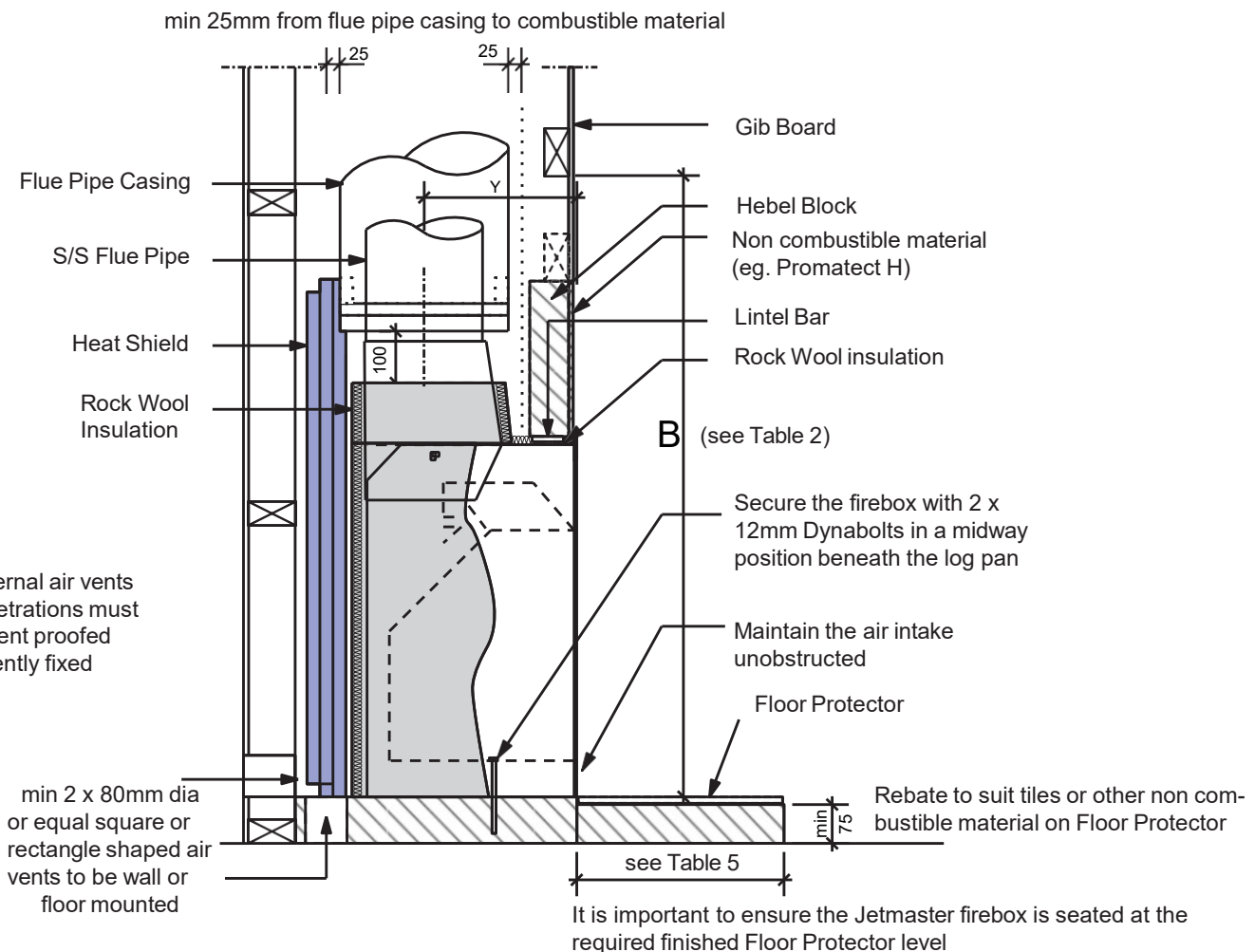


Note: The firebox can be raised to a desired height (eg 400mm above the floor), ensure the appliance sits on a hebel base and the hearth dimensions are met.

TIMBER FRAME CROSS SECTION

Fig.8

Drawing Not To Scale



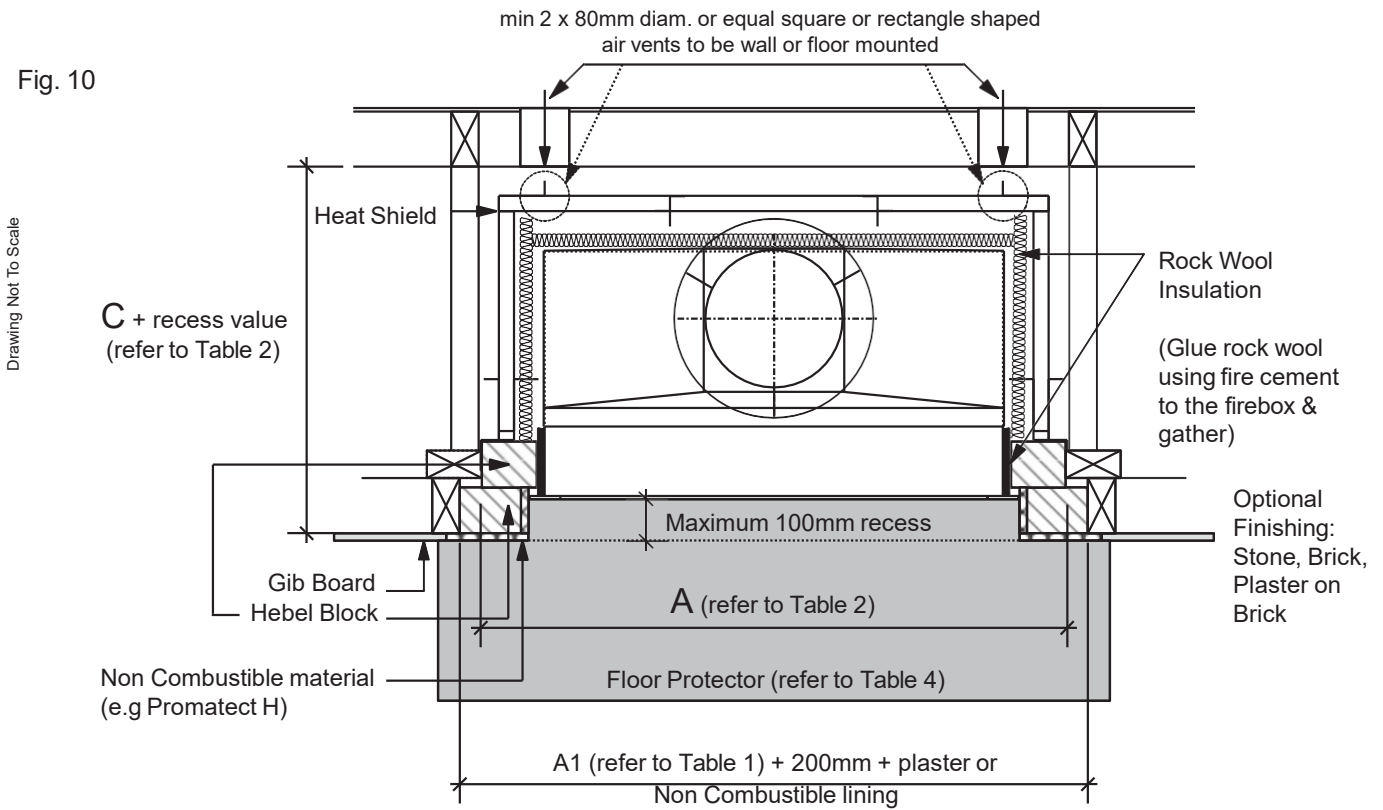
Note: All external air vents & ceiling penetrations must be bird & rodent proofed with permanently fixed screens

TIMBER FRAME PLAN - RECESS

Note: If the appliance is exposed not under protective cover please recess the appliance

Fig. 10 & Fig. 11 refers to installations where the firebox is recessed. **Min = 40mm/Max recess = 100mm**

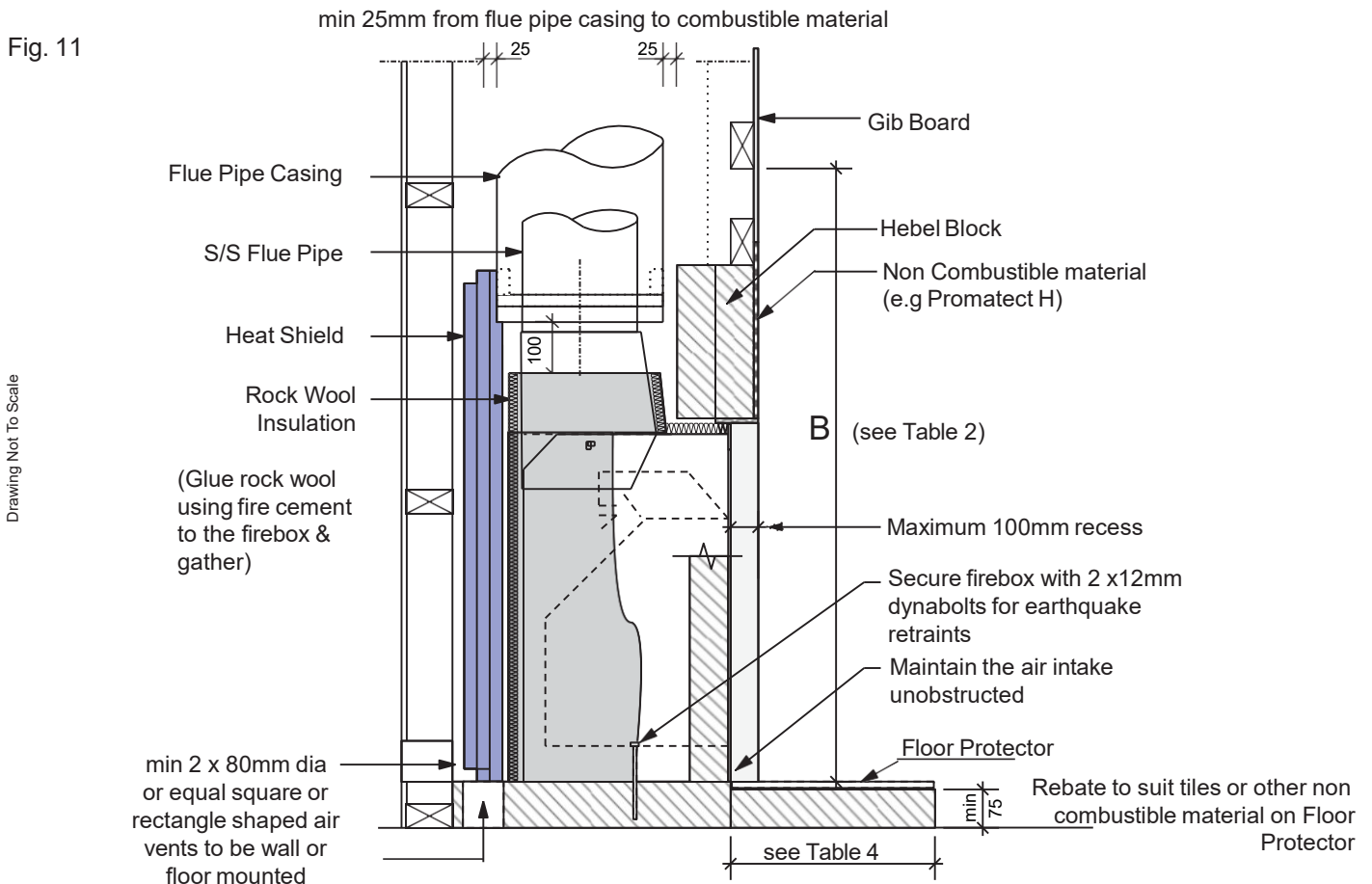
Fig. 10



Drawing Not To Scale

TIMBER FRAME CROSS SECTION - RECESS

Fig. 11



Drawing Not To Scale

Note: All external air vents & ceiling penetrations must be bird & rodent proofed with permanently fixed screen

It is important to ensure the Jetmaster firebox is seated at the required finished Floor Protector level

MASONRY MINIMUM CAVITY SIZE

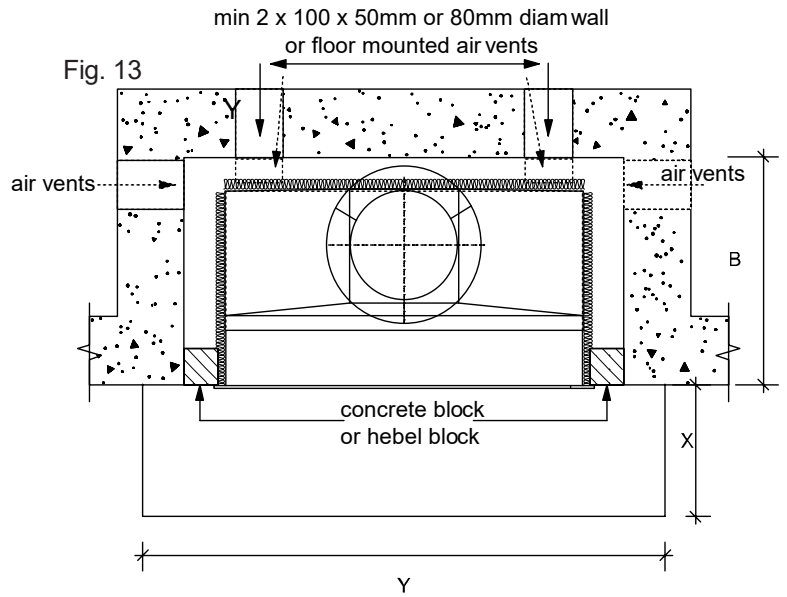
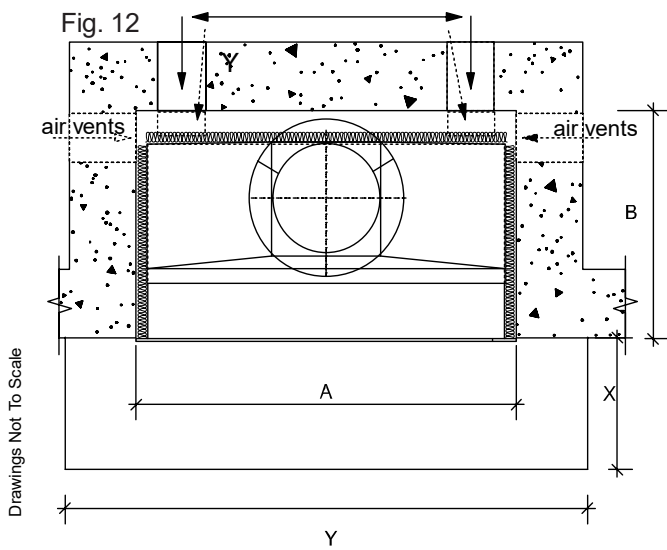
Table 3

MODEL	A	B	Temporary Lintel	X min*	Y min*	Z min*
700	800	470	1200	400	1100	75
850	950	530	1200	450	1250	75
1050	1150	565	1200	600	1450	75
1200	1300	785	1500	750	1600	75
1500	1600	800	1500	850	1900	75

Note: If the appliance is exposed not under protective cover please recess the appliance

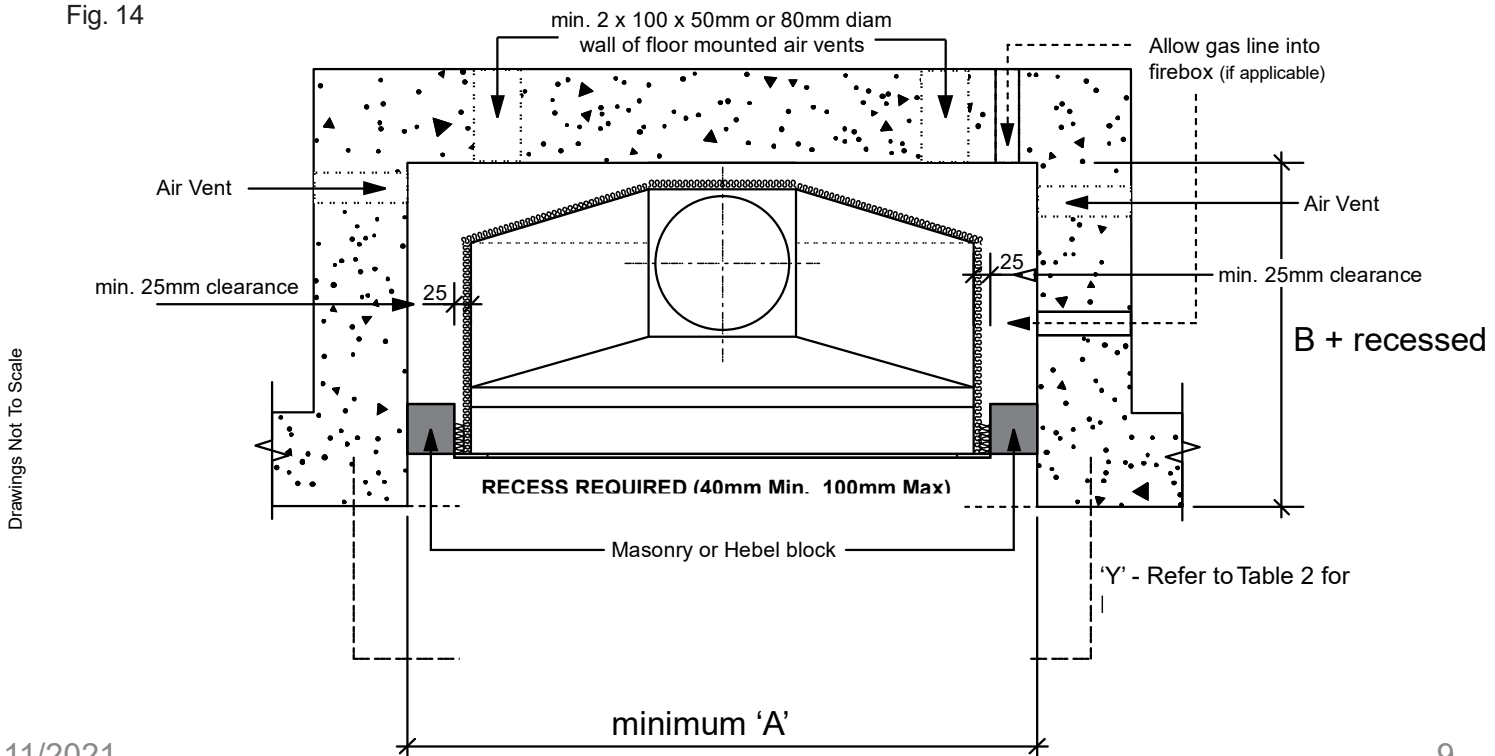
Fig. 14 & Fig. 16 refers to installations where the firebox is recessed. **Min =40mm/Max recess = 100mm.** Add recess dimension to B dimension in Table 3.

PLAN VIEW



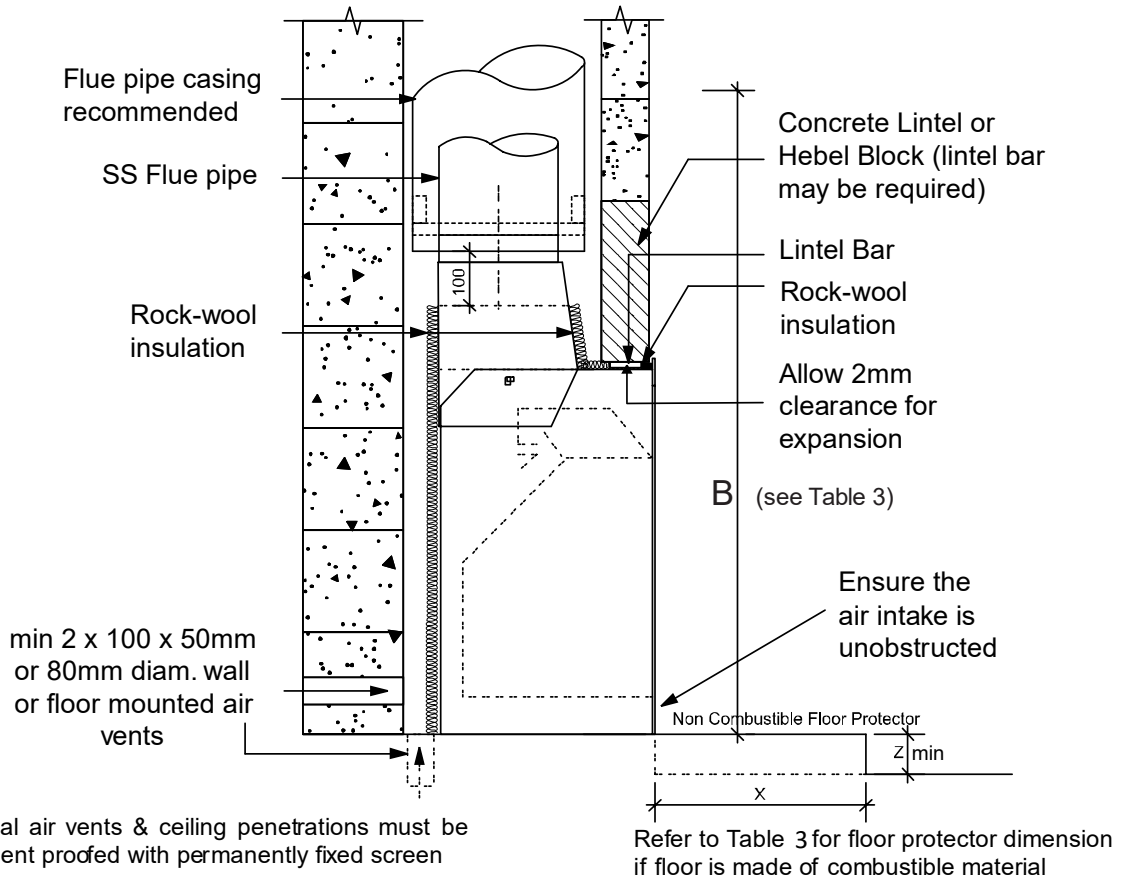
PLAN - RECESS DETAIL

Fig. 14



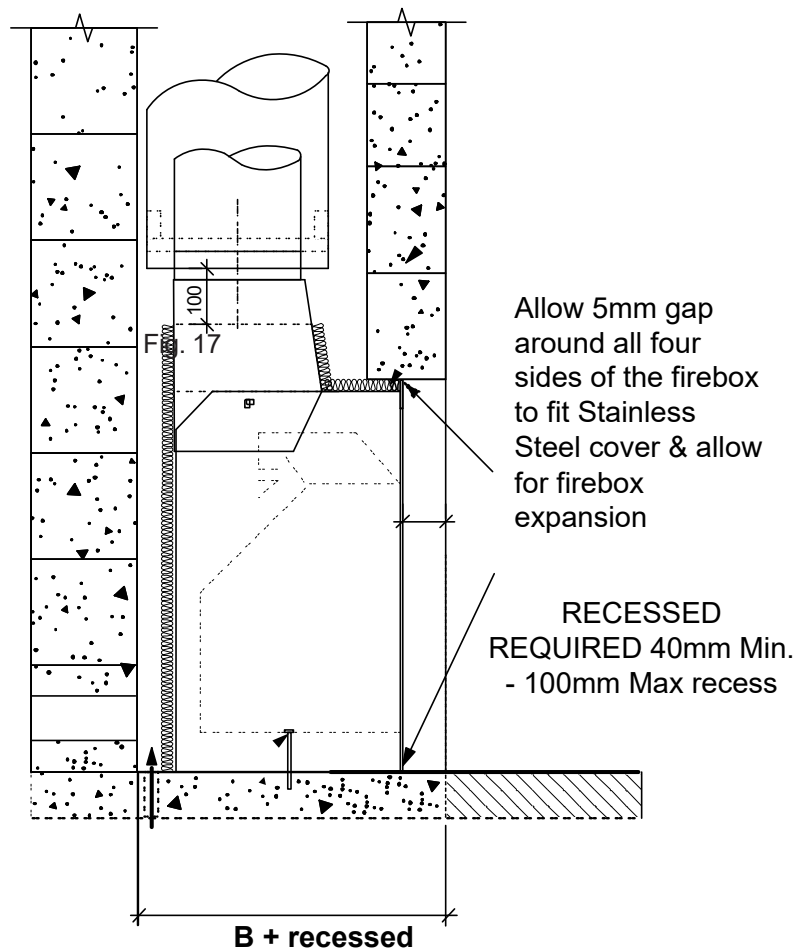
CROSS SECTION

Fig. 15



Note: The firebox can be raised to a desired height (eg 400mm above the floor), ensure the appliance sits on a hebel base and the hearth dimensions are met.

Fig. 16



FIREBOX INSTALLATION

1. Locate and position firebox, fit and seal gather in cavity using fire cement (exhaust cement) and bolts (supplied), to the firebox.
2. Note: Pop rivet back of gather to firebox if required (refer to Cross Section). Earthquake restraints may be positioned by drilling through firebox into the floor protector, in a position midway beneath the log-pan. Two 6mm dynabolts or similar will suffice. Do not over tighten and deform firebox.
2. Attach rock wool (supplied) to the sides of the firebox and gather (using fire cement).
3. DO NOT BLOCK OFF the air entry between the inner flue pipe and flue pipe casing or the air circulation between the vent holes in the cavity.
3. Refer to Table 5, for minimum hearth sizes.

CAVITY PREPARATION

A minimum 75mm thick Floor protector is only required if finished surface is combustible e.g:timber.

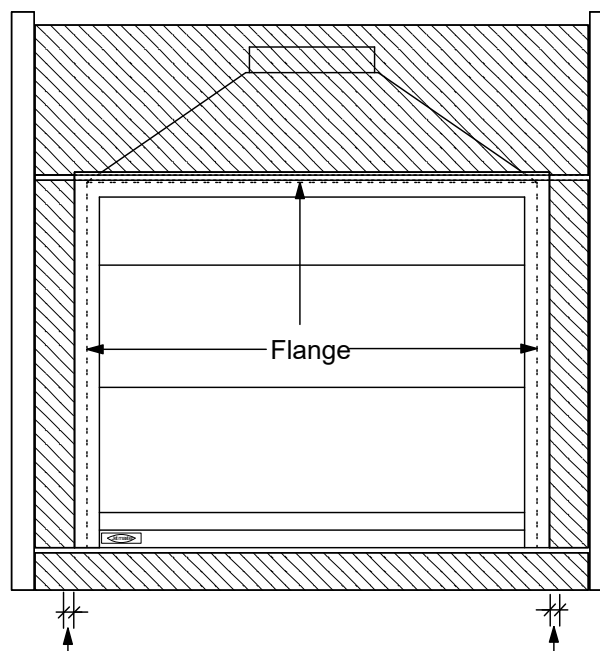
Please note that these dimensions (based on Masonry margins) are the absolute minimum sizes - widths (A & B) maybe increased if desired. If you intend on recessing the firebox, please add the recess value to Dimension 'B'.

WARNING: Minimum cavity sizes leave NO MARGIN FOR ERROR . If the cavity is larger than minimum dimensions (A & B) close up the lateral sides using hebel block, concrete block or similar (do not use any combustible material).

Refer to Table 3 for the minimum cavity dimensions and temporary lintel height measurements, until the firebox and flue system is installed. Note: Temporary lintel height is measured from finished floor protector level.

Ensure suitable air vents (min. 2 x 80mm diameter or equivalent) in place to vent firebox space - these maybe located in the floor or in the side wall space; make allowance (min. 2 x 80mm diameter or equivalent) at the top of the chimney chase, Pg. 13. Ensure vents are bird and vermin proofed.

Fig. 17



Allow 5mm gap between plaster and flange to ensure stainless steel cover can be fitted to the box. **DO NOT PLASTER OVER THE FLANGE.**

FLUE INSTALLATION – SOLID FUEL

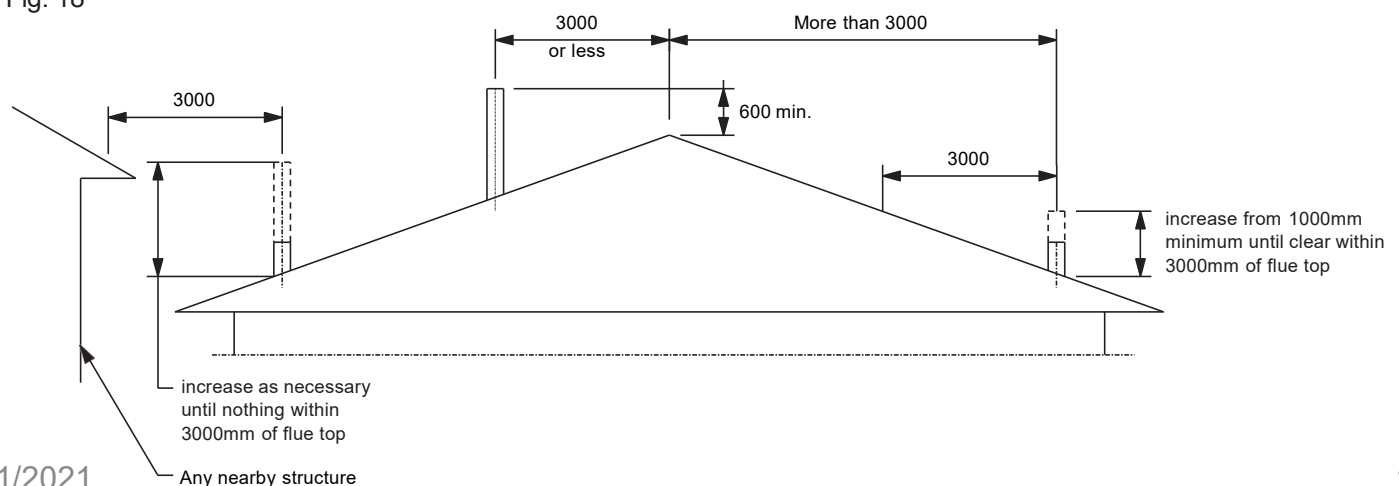
Note: 2 x flue lengths are supplied as a minimum for free standing built installations. If the outdoor fire structure is attached to the house the flue will need to be extended and meet the following requirements;

1. Install first length of flue pipe crimped end down, inside gather collar. Rivet flue pipe in 3 places around gather collar. Place bottom flue spider bracket around gather flue pipe collar, secure in position by tightening up coach bolt/screw (supplied).
2. Install second length of the flue pipe crimped end down and fix by riveting in at least 3 places around the flue pipe joint.
3. Install first length of the flue pipe casing by positioning on installed bottom flue spider bracket crimped end up.
4. Position flue spacer at the flue pipe joint.
5. Repeat steps 1 - 4 to the required flue height. As per AS/NZS2918:2001 4.9.1
 - a. “the flue pipe shall extend not less than 4.6m above the top floor protector”.
 - b. “the minimum height of the flue system within 3m distance from the highest point of the roof shall be 600mm above that point”.
 - c. “the minimum height of a flue system further than 3m from the highest point of the roof shall be” a minimum “1000mm above roof penetration”.
 - d. “no part of any building lies in or above a circular area described by a horizontal radius of 3m about the flue system exit”.
6. The last length of flue pipe needs to extend past the flue pipe casing by at least 150mm or flush with the top of the casing cover spigot when fitted - sizing/measuring and cutting down should be carried out prior to the flue pipe casing being fitted over the flue pipe.
7. Before fitting casing cover, place the spider in opposition with the spider post facing down between the flue pipe and flue pipe casing. Secure spider in position. Place the casing cover over the flue pipe, press down firmly onto the spider. Check airway around the casing cover is clear, then secure in position using three stainless steel rivets.
8. Fit cowl to top of flue - DO NOT RIVET IN POSITION. In high wind areas, it is recommended that the cowl be secured in position with a stainless steel self tapping screw, this will enable the cowl to be removed for cleaning. Discuss Bird Proofing needs with your installer.
9. If flue is concealed in a chase, allow for air vents (2 x 80mm diam. or equivalent) at the highest possible point on the chimney chase or alternatively, allow a min 25mm air space between the casing cover spigot and the outer casing. Refer to pg. 13.

MINIMUM HEIGHT OF FLUE SYSTEM EXIT

As per AS/NZS 2918:2001 4.9.1 Fig 4.9

Fig. 18

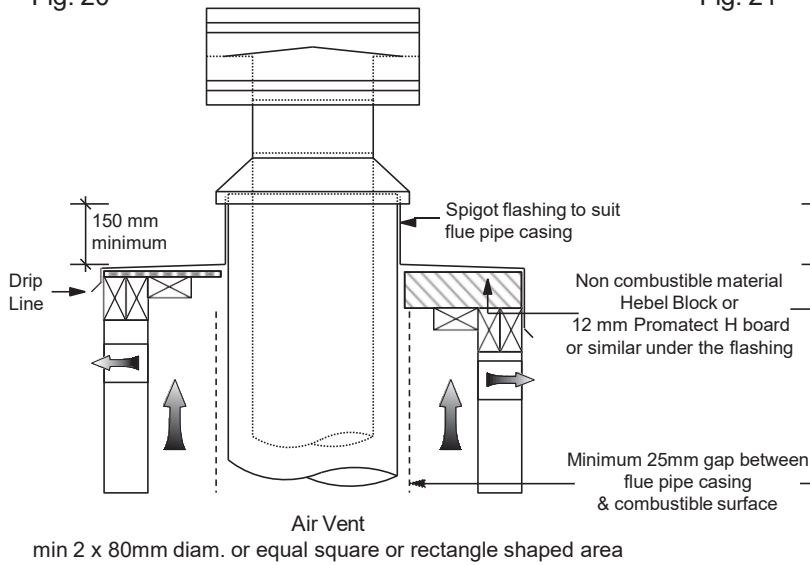


CHIMNEY CHASE AIR VENTILATION

Air Ventilation Through Chimney Chase

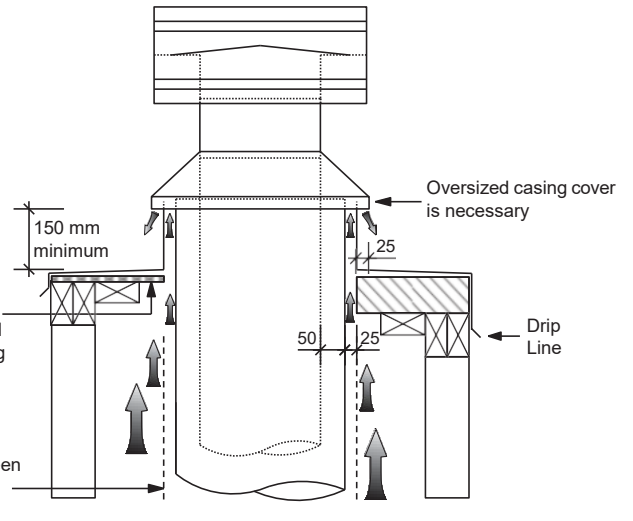
Fig. 20

Drawings Not To Scale



Air Ventilation Through Top Flashing

Fig. 21



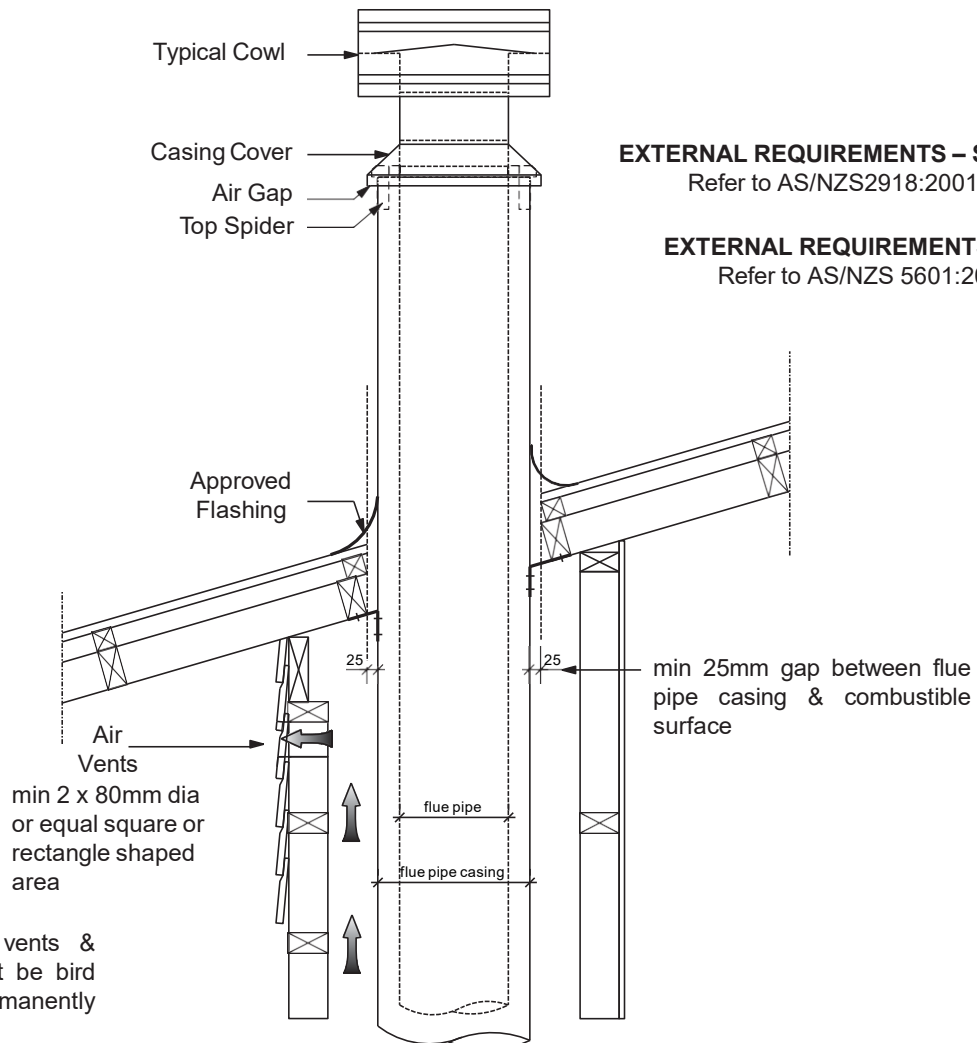
- Promina Board or similar
- Hebel Block

Note: All external air vents & ceiling penetrations must be bird & rodent proofed with permanently fixed screens

FLUE PENETRATION

Fig. 22

Drawing Not To Scale



EXTERNAL REQUIREMENTS – SOLID FUEL
Refer to AS/NZS2918:2001; 4.9.1

EXTERNAL REQUIREMENTS – GAS
Refer to AS/NZS 5601:2013

Note: All external air vents & ceiling penetrations must be bird & rodent proofed with permanently fixed screens

CHIMNEY CHASE MINIMUM TRIM OUT

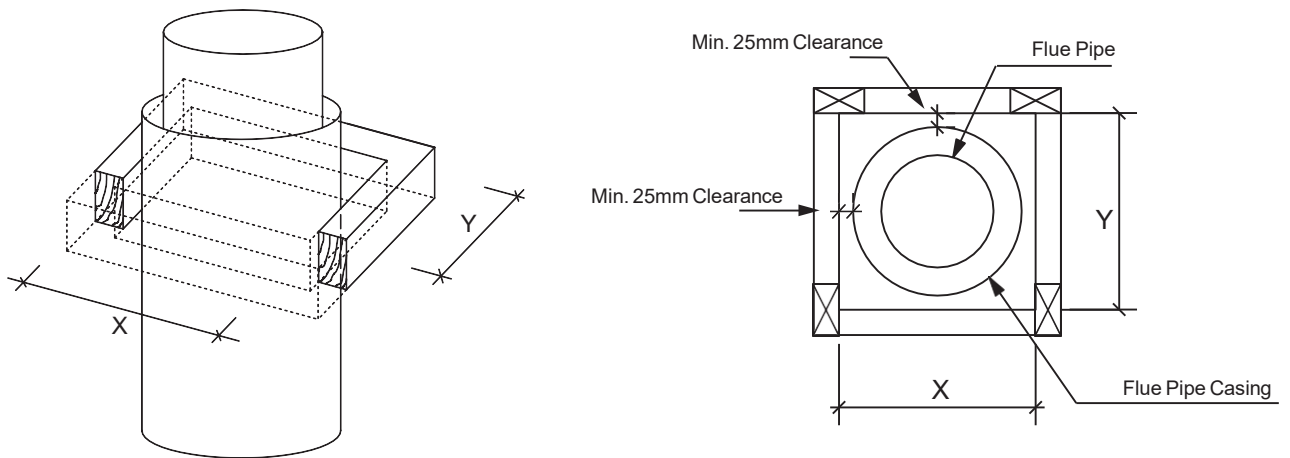
Table 4

MODEL	FLUE SYSTEM	MINIMUM TRIM OUT DIMENSION	
		X (min)	Y (min)
700	225/325	375	375
850	250/350	400	400
1050	300/400	450	450
1200	400/500	550	550
1500	450/550	600	600

Dimensions in mm

Note: A minimum 25mm clearance from flue pipe casing to combustible material must be maintained.
A Minimum clearance of 200mm above Heat Shield must be maintained.

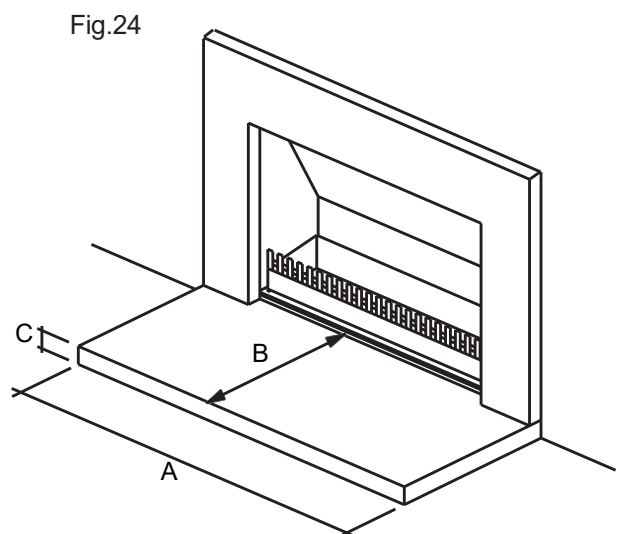
Fig. 23



MINIMUM FLOOR PROTECTOR SIZE

Table 5

MODEL	A	B	C*
700	1100	400	75
850	1250	450	75
1050	1450	600	75
1200	1600	750	75
1500	1900	850	75



* A minimum 75mm thickness refers only to Hebel Block – for solid fuel installations. Minimum 100mm thickness required if poured concrete

CLEARANCE TO COMBUSTIBLE MANTELS

If you are using a decorative surround constructed of combustible material, it must be located within the shaded area defined in Fig. 28

Fig. 28

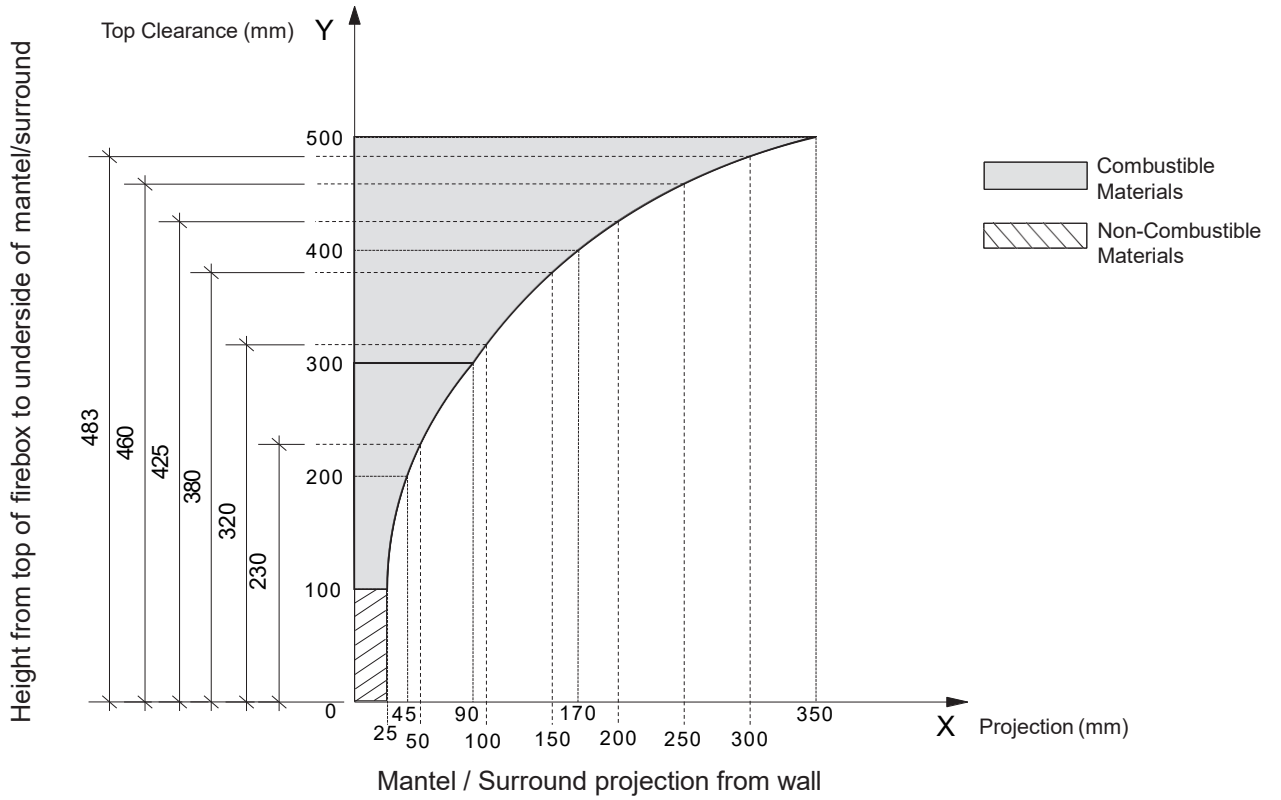
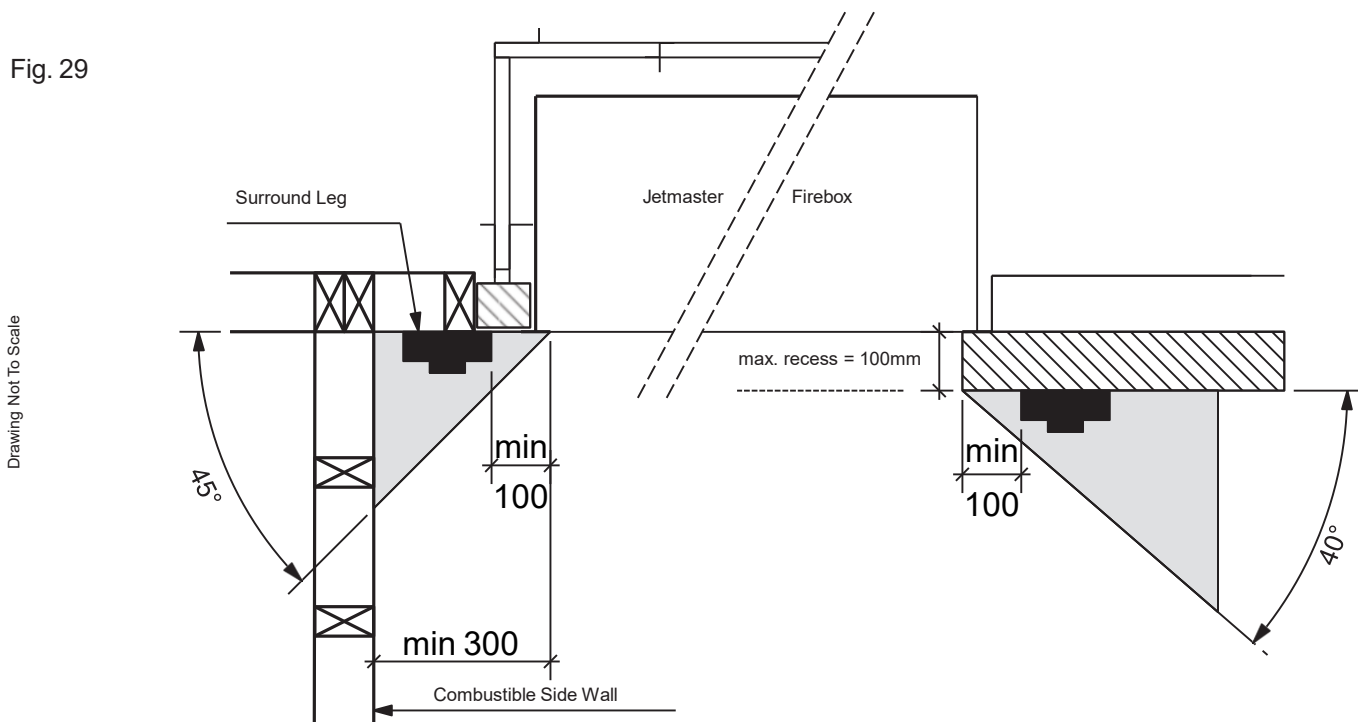


Fig. 29



Note: Adjacent combustible side walls must be located a minimum of 300mm from the fireplace opening.