



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



IMPORTANT:

The Jetmaster Quadro structure must be freestanding and must not be connected to the envelope of a building .

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 UNATTENDED PLEASE 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.

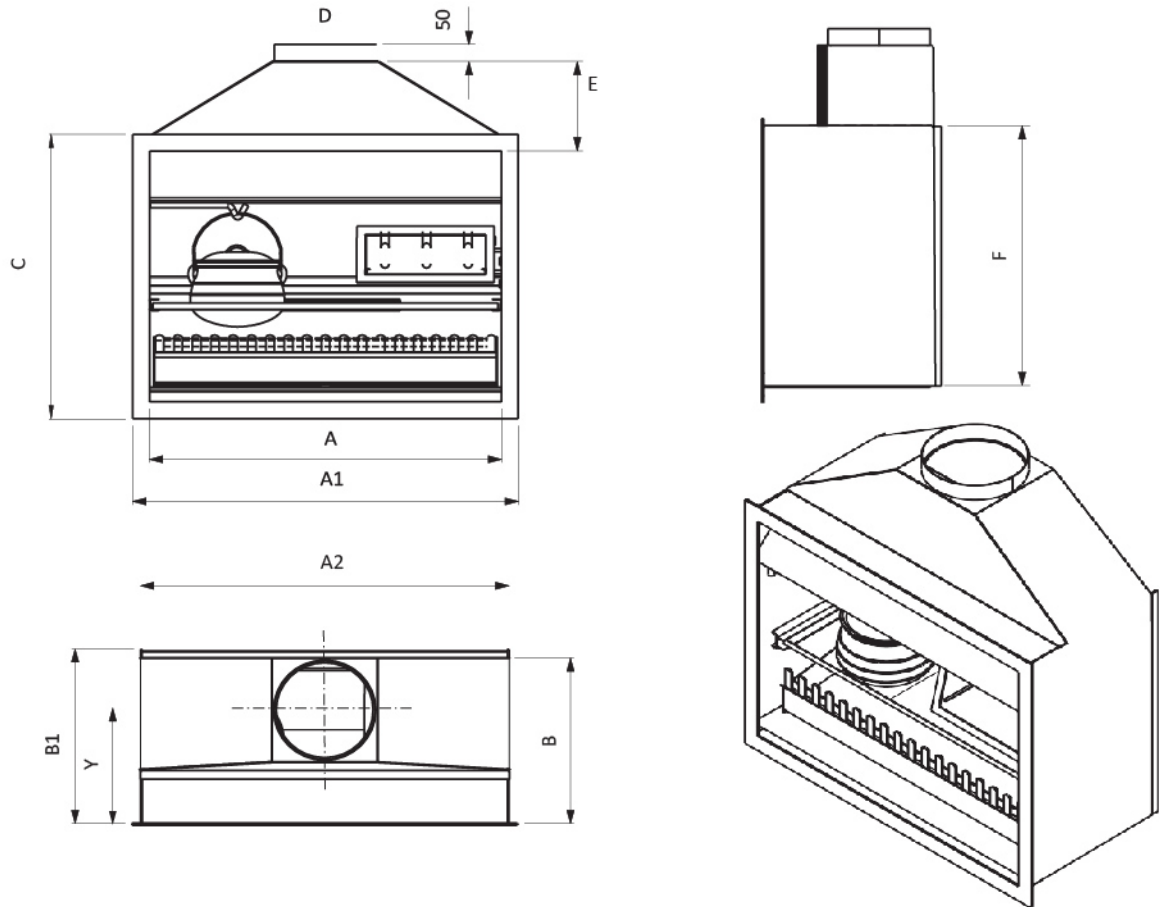
THE JETMASTER UNIT IS TO BE INSTALLED BY A CERTIFIED FIREPLACE INSTALLER , APPROVED NZHHA INSTALLATION TECHNICIAN

JETMASTER FIREBOX DIMENSIONS

MODEL	A	A1	A2	B	B1	C	D	E	F	Y
1050	1050	1150	1100	502	530	850	300/400	240	780	350

Fig. 1

Drawings Not To



TIMBER FRAME DIMENSIONS

CAVITY FRAMING	A	B	C	D	E	F
1050	1400	800	500	850	2 x 160 dia. or 2 x (100 x200)	1275 height of Hebel cell

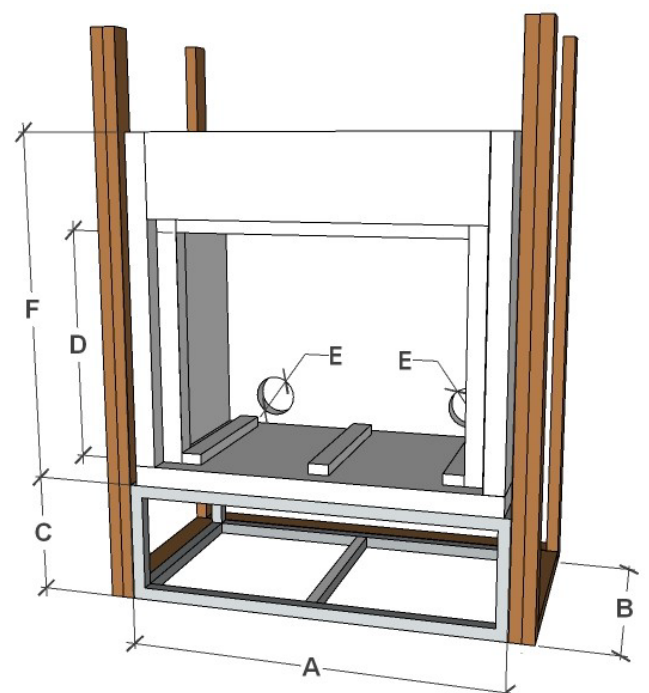
Table 2

Timber frame-out with 75mm Hebel cell on a steel base.

IMPORTANT: If the firebox is raised it must sit on top of a 75mm Hebel panel, the base structure must be either steel or masonry .

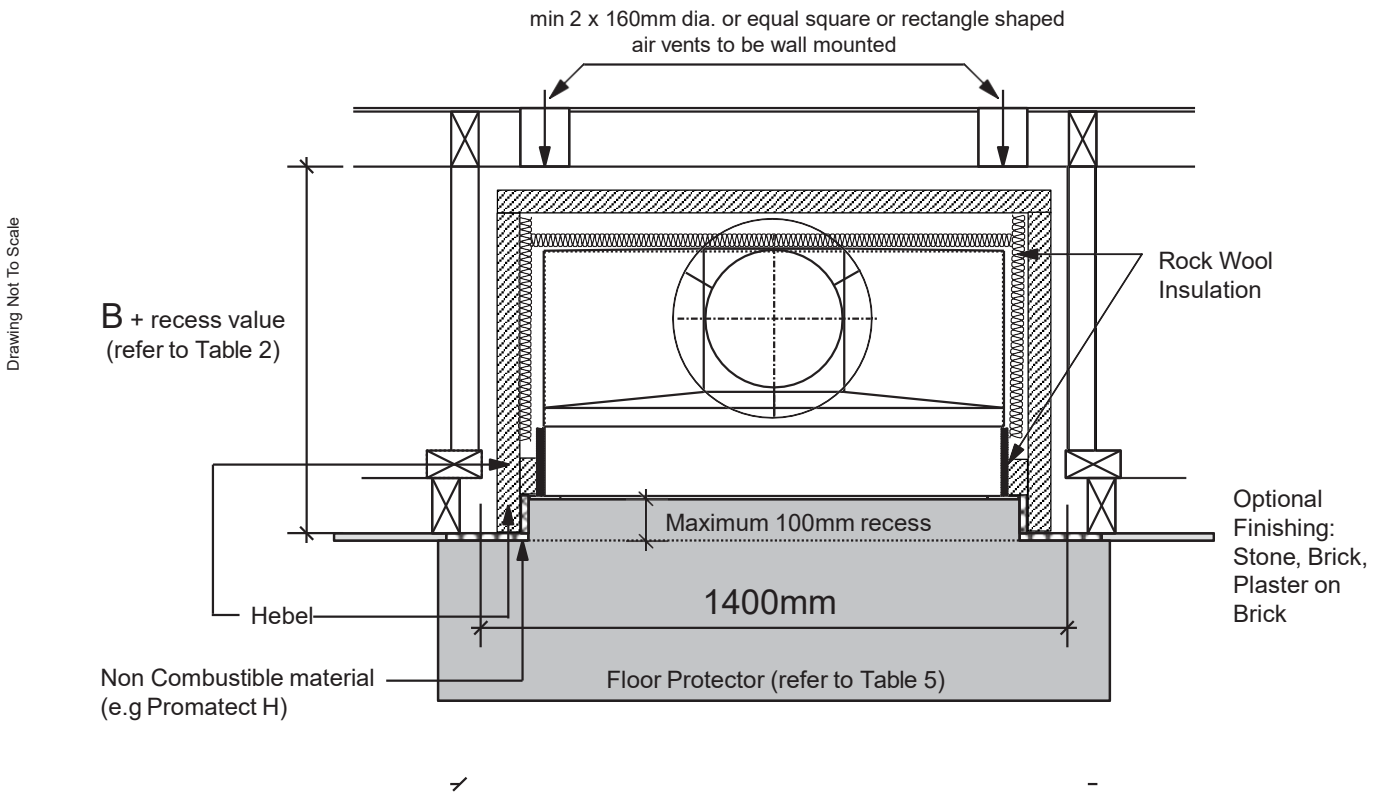
A TIMBER BASE IS NOT ACCEPTABLE

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

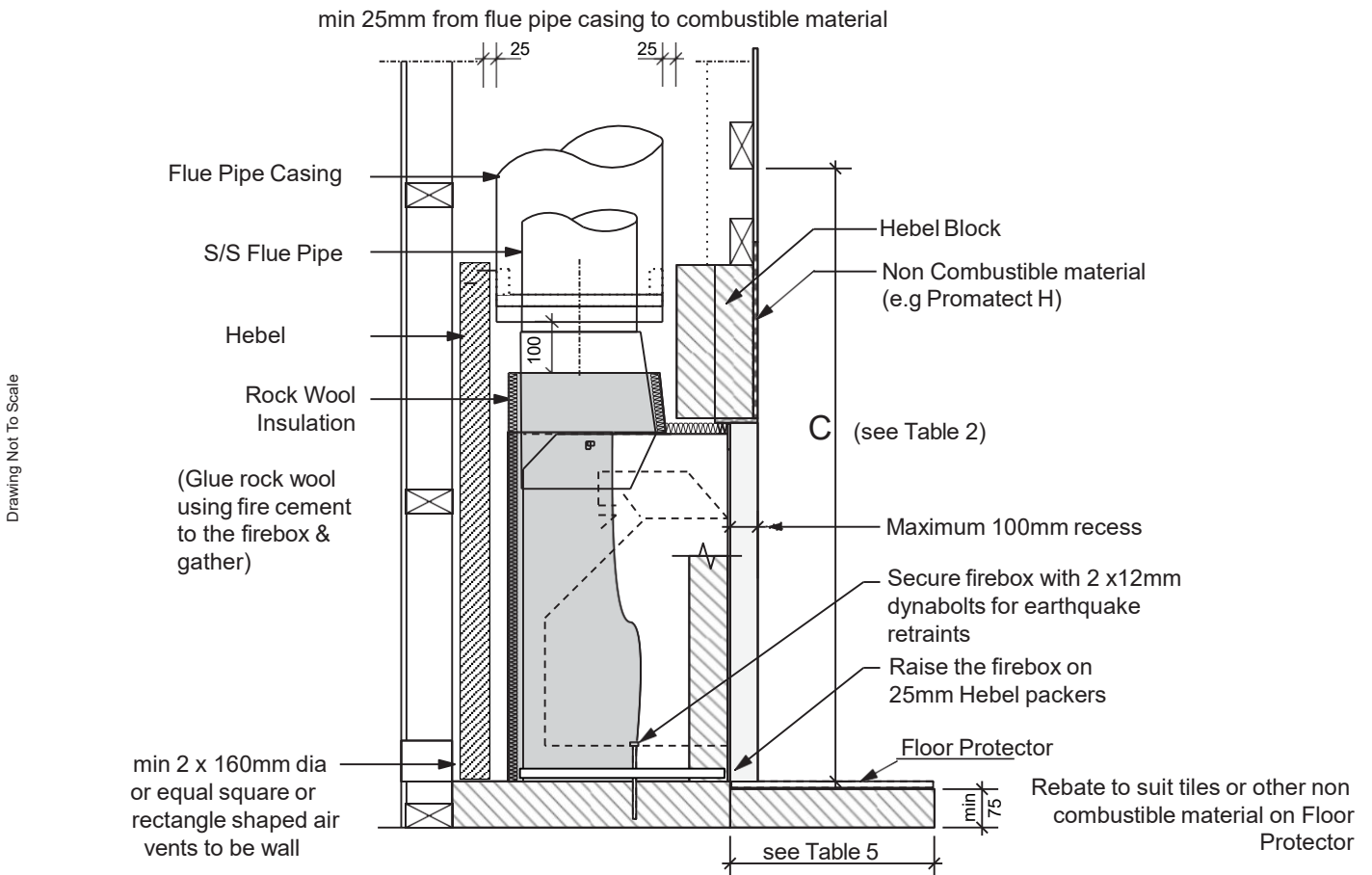


TIMBER FRAME PLAN - RECESS

Note: If the appliance is exposed, not under protective cover please recess the appliance
 . Min =40mm/Max recess = 100mm



TIMBER FRAME CROSS SECTION - RECESS



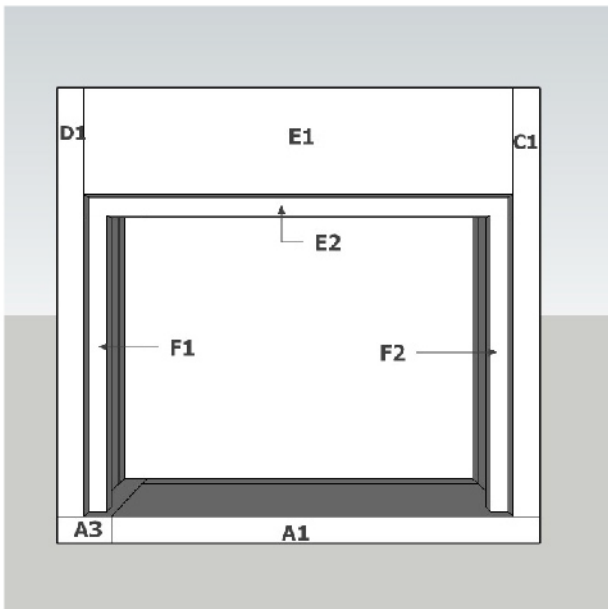
Note: All external air vents must be bird & rodent proofed with permanently fixed screen

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

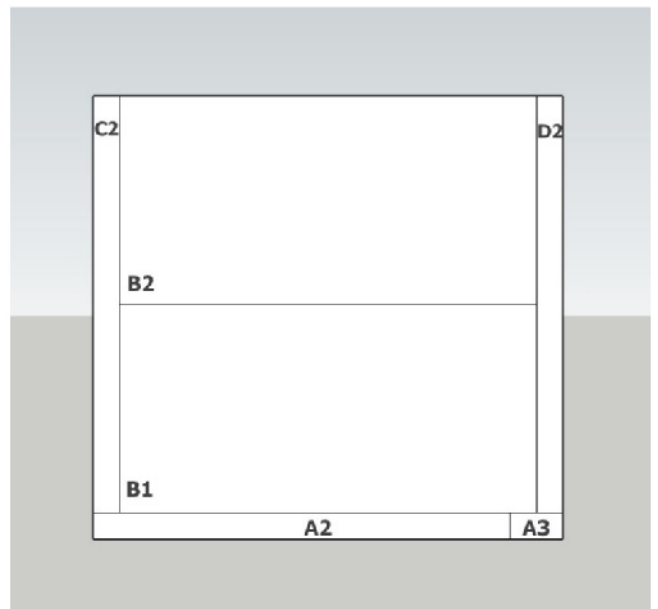
HEBEL CUT-OUT PLAN

Hebel Panels x 8 (1200mm x 600mm x 75mm) – Does not include floor protector.
 Cut-out plan – Appendix A.

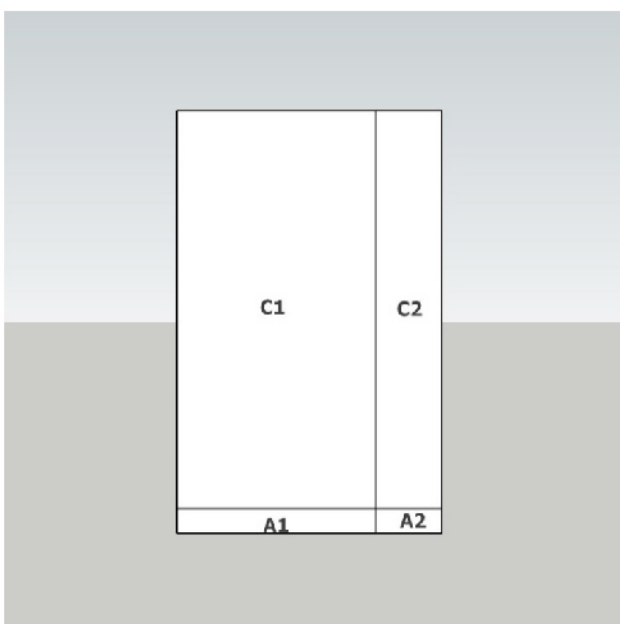
	Full Panels	Full Panels	Part Panels
Base (3)	A1		A2 (200 x 1200) A3 (150 x 800)
Rear (2)	B1	B2	
Sides RHS (2)	C1		C2 (200 x 1200)
Sides LHS (2)	D1		D2 (200 x 1200)
Front face above firebox			E2 (350 x 1200)
Front face above firebox			E1 (300 x 1200)
Front LHS			F1 (50 x 850)
Front RHS			F2 (50 x 850)



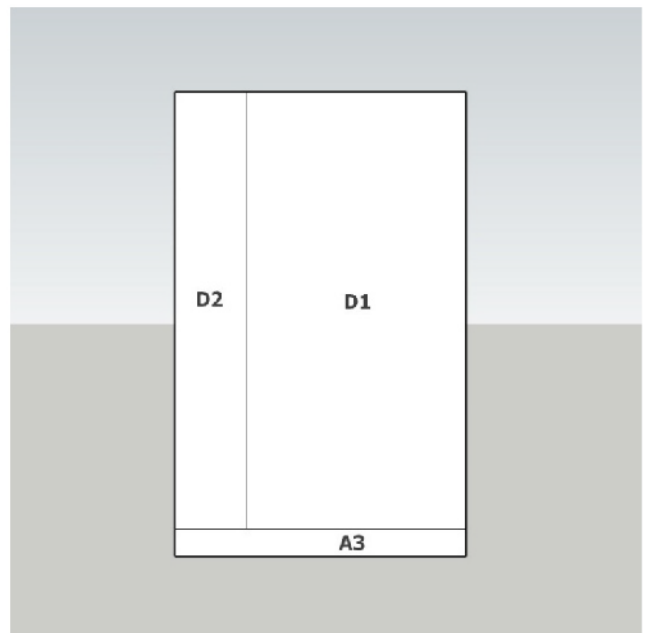
Front



Rear



Right Side



Left Side

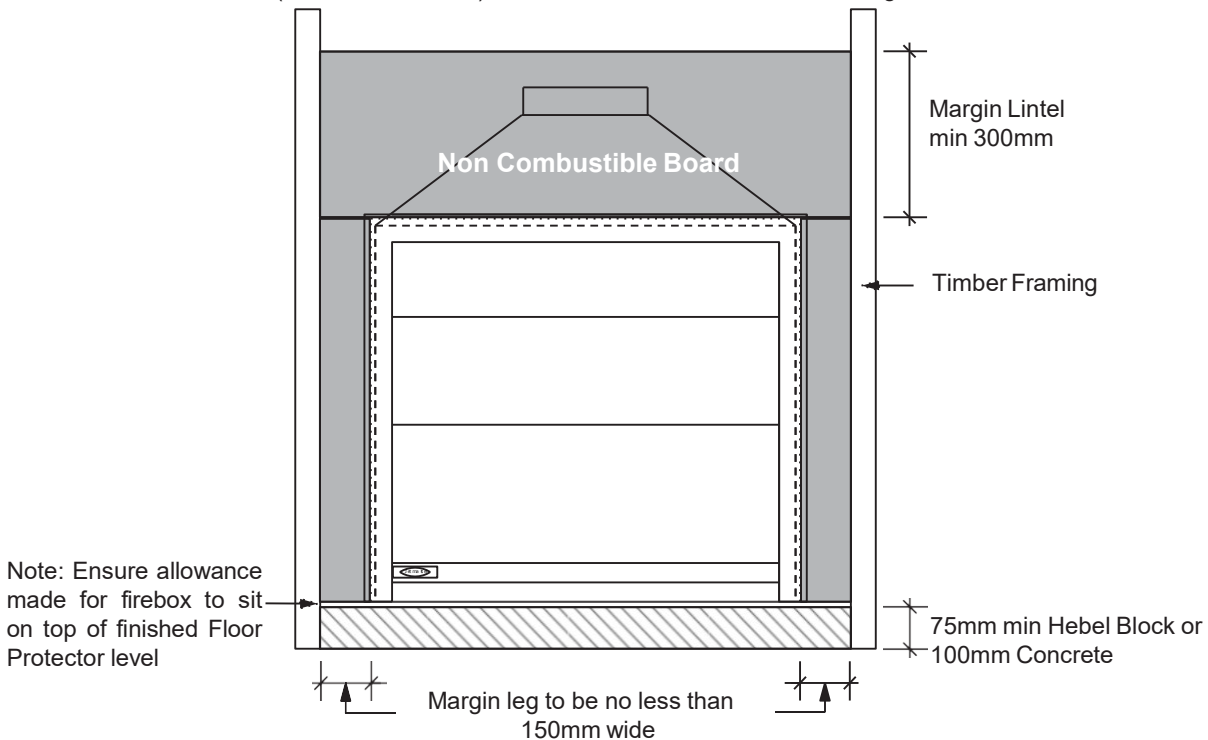
MARGIN SET

All Hebel Block margins have been made to fit firebox timber frame trim out dimensions (see Hebel cut-out plan). 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 150mm and the height of the margin lintel to be less than 300mm

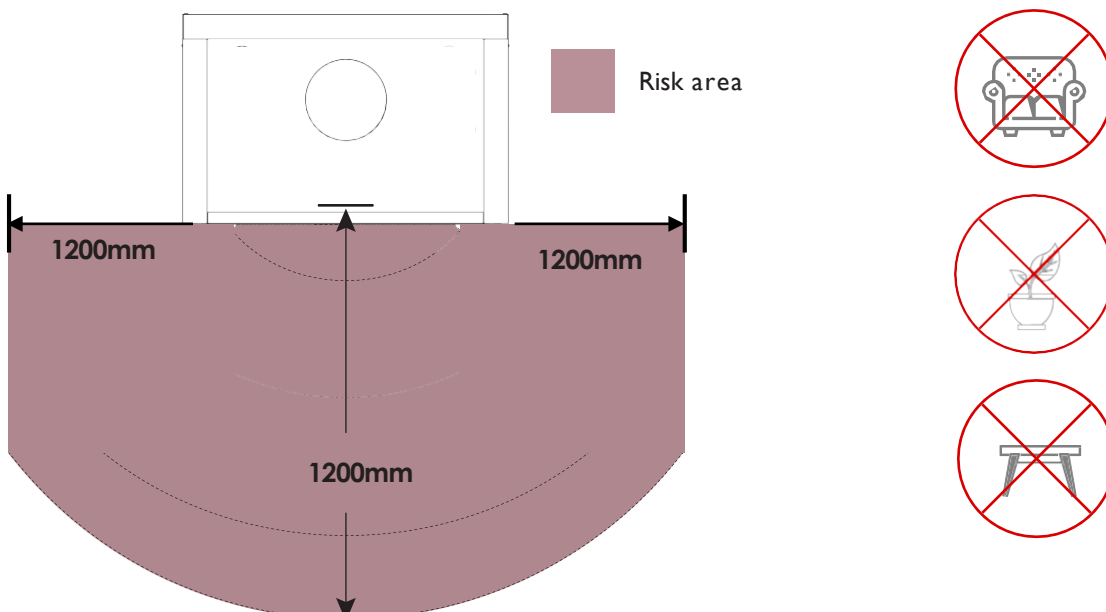
Where a board finish is required around the fire, ensure allowance is made to place non combustible internal wall lining (eg: Promatect H) to cover the extent of the Hebel panel surround (shown shaded). Directly touching the firebox with any board or plaster finish will cause cracking from heat expansion.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



RISK AREA

The heat from the firebox is significant. Any combustible object must be placed at a minimum distance of 1200mm by 180° from the face of the firebox and 1200mm by 90° to avoid any fire risk.



TIMBER FRAMING PREPARATION

IMPORTANT: The appliance must be located a minimum of **1200mm** away from combustible adjacent walls and not be installed against the envelope of the building. (See Risk Area pg. 7)

The appliance, gather, flue and Hebel panel weighs approx. 400kg. Ensure the base structure can withstand this load.

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 160mm diameter or equivalent) in place to vent firebox space - these maybe 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. 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
8. **Ensure the hebel block does not rest on top of the firebox.** A Lintel Bar may be required.

MASONRY MINIMUM CAVITY SIZE

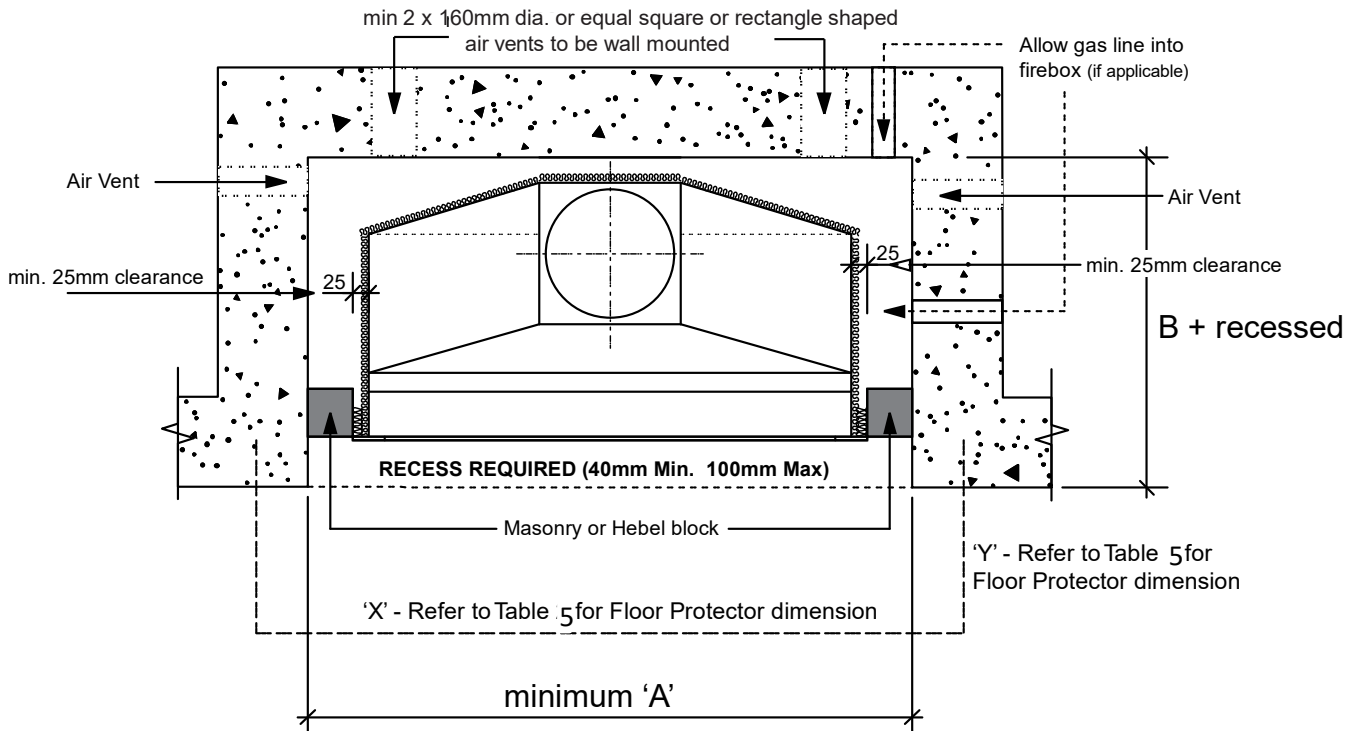
Table 3

MODEL	A	B	Temporary Lintel	C	D	E - Vents
1050	1150	700	1200	100	860	2 x 160dia. or 2 x (100x 200)

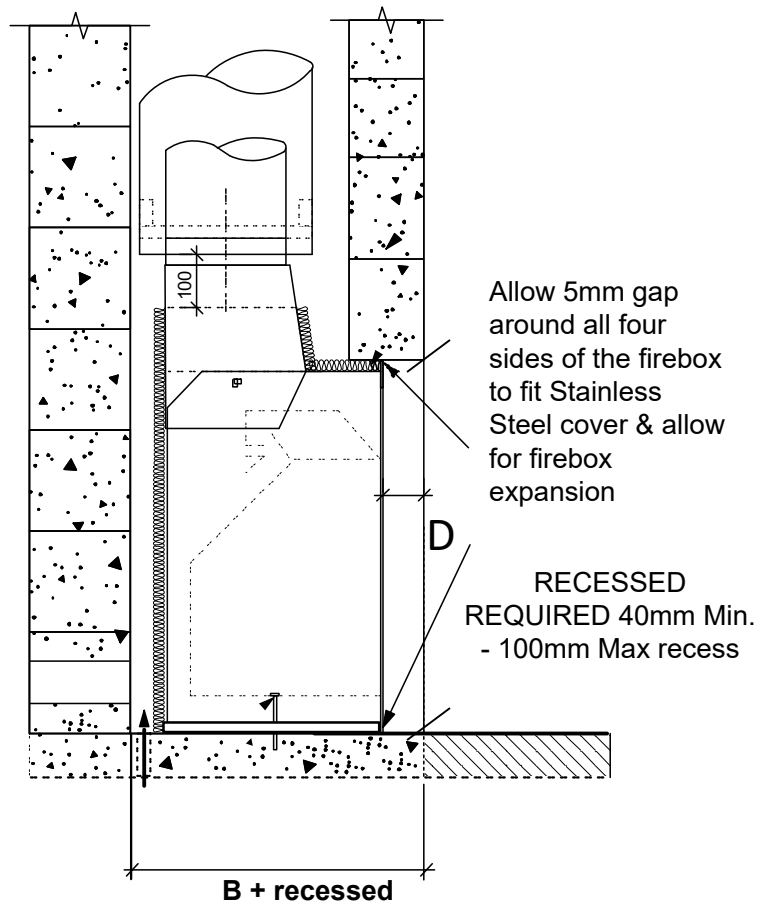
Note: If the appliance is exposed not under protective cover please recess the appliance
 . Min =40mm/Max recess = 100mm. Add recess dimension to B dimension in Table 3.

PLAN - RECESS DETAIL

Drawings Not To Scale



CROSS SECTION



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

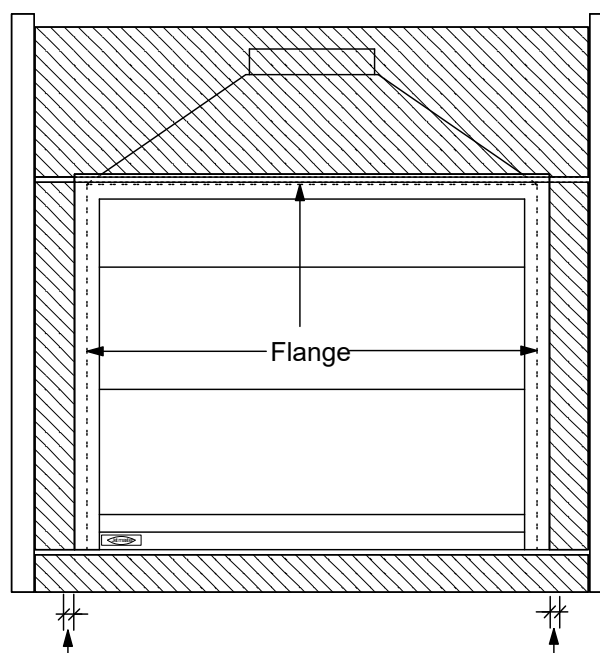
A minimum 75mm thick Floor protector is only required if finished surface is combustible e.g:timber.

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 160mm diameter or equivalent) in place to vent firebox space - these maybe located in the rear or in the side wall space; make allowance (min. 2 x 160mm diameter or equivalent) at the top of the chimney chase, Pg. 13. Ensure vents are bird and vermin proofed.



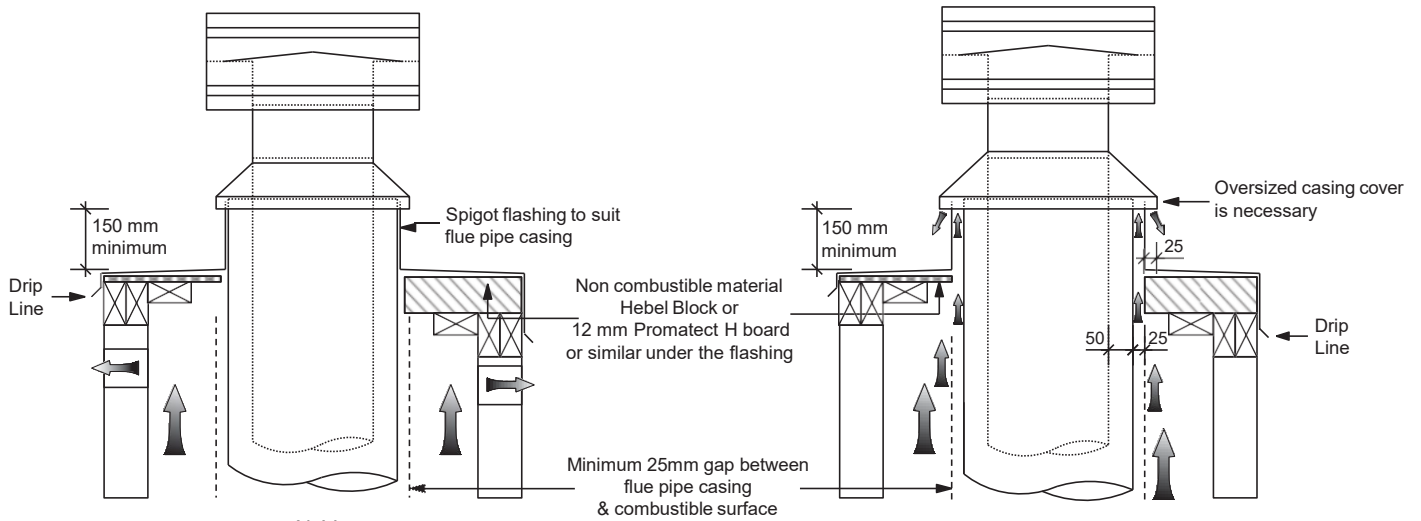
Allow 5mm gap between plaster and flange to ensure stainless steel cover can be fitted to the box. **DO NOT PLASTER OVER THE FLANGE.**

CHIMNEY CHASE AIR VENTILATION

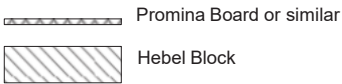
Air Ventilation Through Chimney Chase

Air Ventilation Through Top Flashing

Drawings Not To Scale



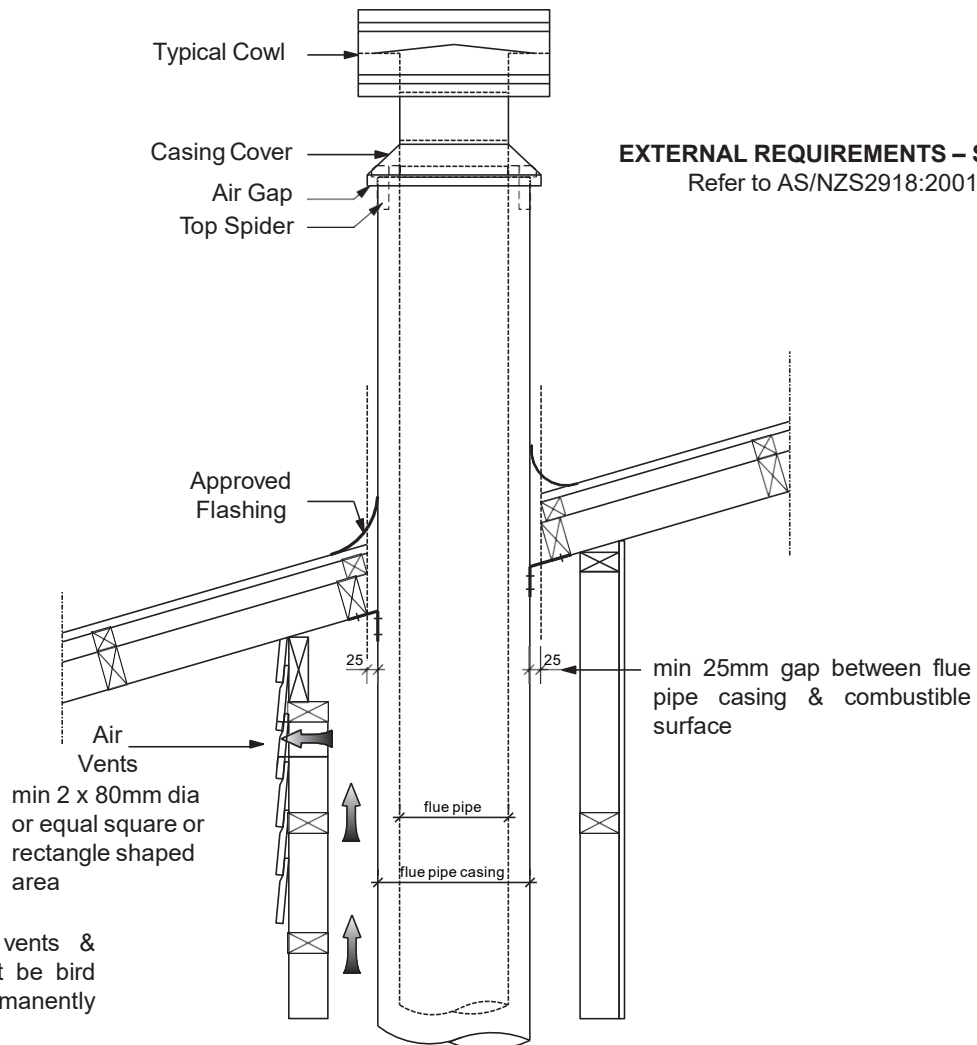
Air Vent
min 2 x 80mm diam. or equal square or rectangle shaped area



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

FLUE PENETRATION

Drawing Not To Scale



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

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

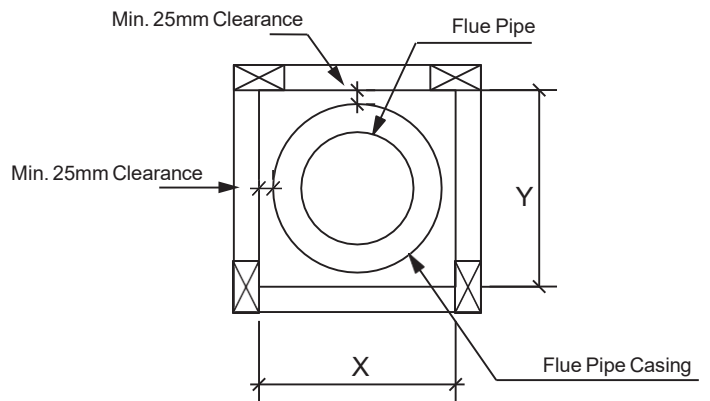
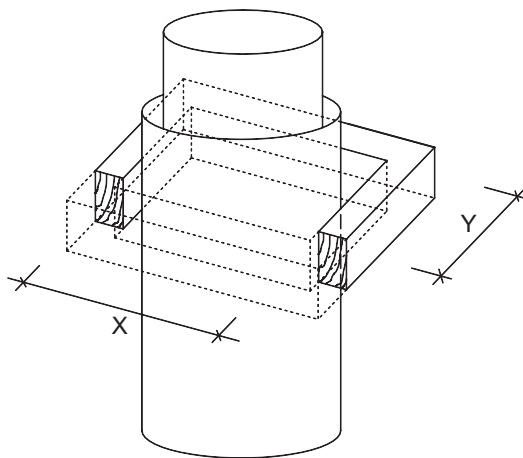
CHIMNEY CHASE MINIMUM TRIM OUT

Table 4

MODEL	FLUE SYSTEM	MINIMUM TRIM OUT DIMENSION	
		X (min)	Y (min)
1050	300/400	450	450

Dimensions in mm

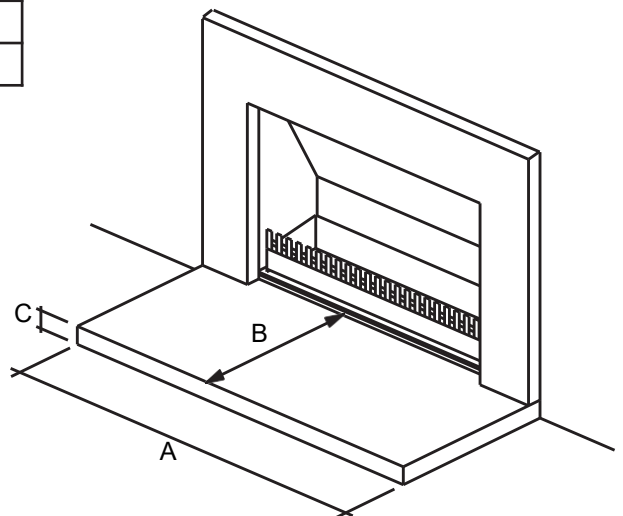
Note: A minimum 25mm clearance from flue pipe casing to combustible material must be maintained.
A Minimum clearance of 200mm above Heat Shield must be maintained.



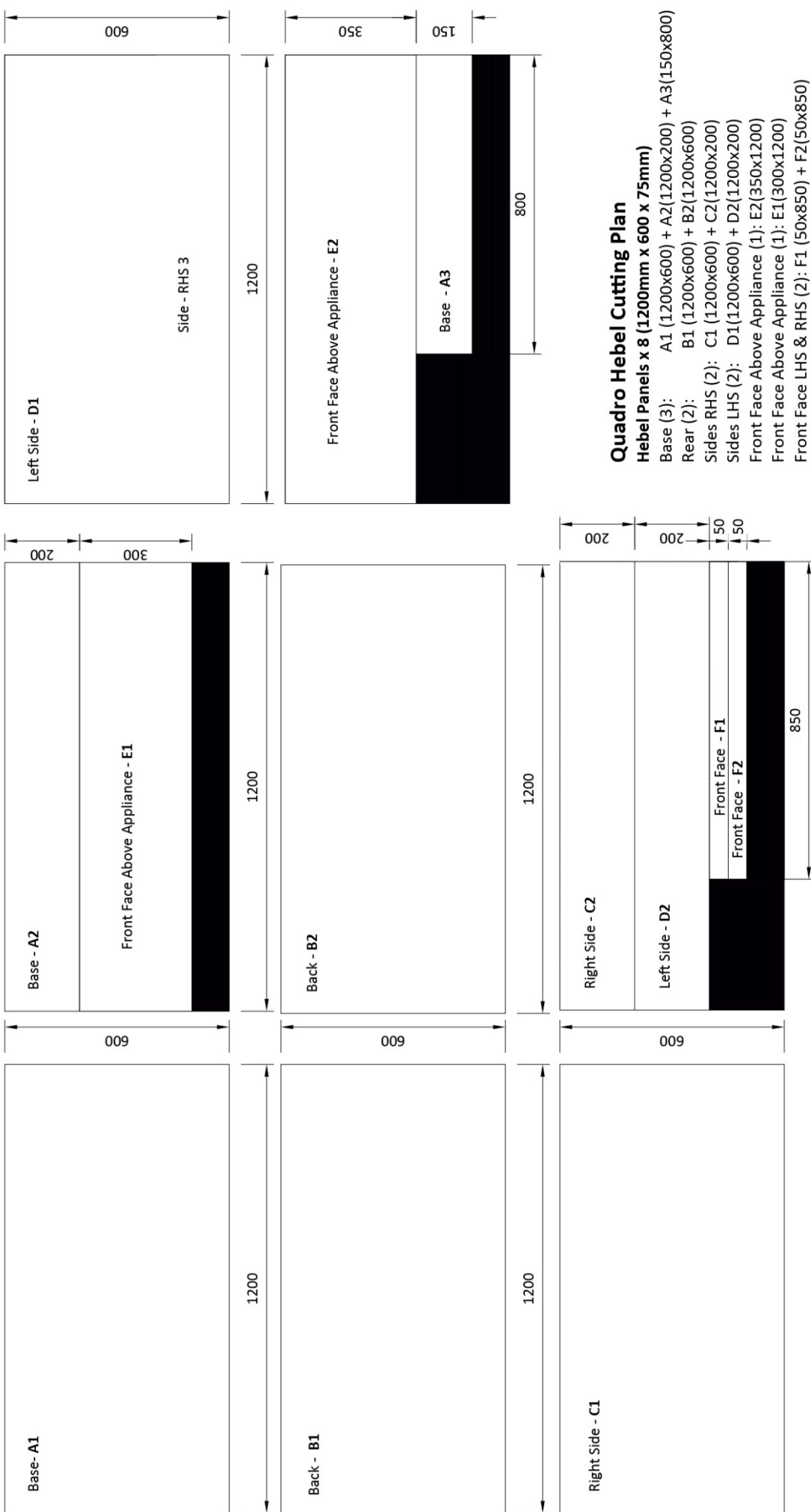
MINIMUM FLOOR PROTECTOR SIZE

Table 5

MODEL	A	B	C
Floor Level	1400	800	75
Raised 500mm	1400	1000	75



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



Quadro Hebel Cutting Plan

Hebel Panels x 8 (1200mm x 600 x 75mm)

- Base (3): A1 (1200x600) + A2(1200x200) + A3(150x800)
- Rear (2): B1 (1200x600) + B2(1200x600)
- Sides RHS (2): C1 (1200x600) + C2(1200x200)
- Sides LHS (2): D1(1200x600) + D2(1200x200)
- Front Face Above Appliance (1): E2(350x1200)
- Front Face Above Appliance (1): E1(300x1200)
- Front Face LHS & RHS (2): F1 (50x850) + F2(50x850)

Remaining black areas are free to be used for packing;
 - 40mm under the appliance
 - 25mm between the hebel cell and framing