



A division of Terry Young Ltd, New Zealand

INSTALLATION INSTRUCTIONS for

TOMMI INBUILT WOOD BURNER

• Clean Air 0.4g/kg

INBUILT “ZC” INSTALLATIONS

AUGUST 2024

- ❖ Tested to AS/NZS 2918:2001 Appendix B.
- ❖ These instructions cover installations of the Yunca Tommi Inbuilt, where the factory-fitted “Zero Clearance Box” is being used - enabling installation into a suitably constructed enclosure as per AS/NZS 2918: 2001.
- ❖ The term “Zero Clearance”, or “ZC” is in common parlance, however it refers to reduced rather than actual nil clearances. Please refer to specifications in this document in conjunction with the relevant building code if unsure of clearances.

SAFETY INFORMATION

General:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- For the protection of young children, install an effective fire safety screen around your fire. Always keep children well away from the wood burner when it is alight.
- Supervise young children to ensure they do not play with the appliance.
- During initial burns of the appliance, ventilate the rooms well. It is recommended that babies, small children, pregnant women and pets should not be present in the area during initial burns as this is the firebox paint curing period.
- Do not make any modifications to the unit and use it only in the manner described in the manual. Using it in any manner not recommended by the manufacturer may result in injury or death.

Electrical connections:

- As the Tommi Inbuilt wood burner is required to be permanently connected to an electrical source, an isolating switch (wall switch) must be installed.
- New circuits or modifications, if required, but be made using the services of a certified electrician only.
- Ensure that the outlets you use are grounded properly, polarised and provided with fuse units.
- Ensure that the isolation switch is readily accessible after installation. The wood burner must not be located immediately below an electrical socket.
- Never operate the appliance with a damaged plug or cord, or if you observe the fan unit is malfunctioning or the heater has been damaged in any way. Call the authorised service person immediately for repairs or making electrical or mechanical adjustments. – Isolate the electrical supply to alleviate any potential risk.
- If the supply cord is damaged, the manufacturer, its service agent or a suitably qualified person must replace it to avoid electrical hazard. Any cord similar to the original can be used.

IMPORTANT INFORMATION

- I. It is imperative that you familiarise yourself with this entire document, and also ensure you have sufficient knowledge of relevant building regulations prior to proceeding with an installation.
- II. The term “Zero Clearance”, or “ZC” is in common parlance, however it refers to reduced rather than actual nil clearances. Please refer to specifications in this document in conjunction with the relevant building code if unsure of clearances.
- III. The appliance and flue system shall be installed in compliance with AS/NZS 2918:2001 and the appropriate requirements of the relevant building code or codes.
- IV. 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 4013”
- V. 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
- VI. 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.
- VII. Cracked and broken components e.g. glass panels or fire bricks, may render the installation unsafe.

- A. Yunca recommends that competent trades persons carry out all installations (e.g. a NZHHA Registered Installer), to obtain maximum performance and safe, efficient heating.
- B. A consent is required. We suggest you check with local building inspectors as by-laws do vary from area to area. Also notify your Insurance Company that a solid fuel heater has been installed.

C. Floor Protector

- C1. A **minimum** 920mm deep x 1445mm wide x 50mm thick Hebel Block floor protector should be used under and in front of the appliance.
- C2. In addition to above, the “hearth” area floor protector must be a **minimum** of 1110mm wide x 600mm deep x 50mm thick Hebel Blocks.
- C3. The floor protector should extend a **minimum** of 600mm in front of the appliance door aperture.
- C4. Appliance must be placed centrally within the minimum hearth width in order to achieve required side clearances.

D. Seismic restraint.

- D1. Heater must be restrained from seismic movement (per [Fig. 9](#)) as required by AS/NZS 2918:2001

E. Heat sensitive materials exclusion zone.

- E1. Non-combustible front cladding **must be used** to a minimum of 600mm above the Zero Clearance Box, and a minimum of 100mm either side of the Zero Clearance Box down to the floor on both sides of the enclosure. (Fig. 5)
- E2. No heat-sensitive material is permitted to contact the fascia forming or surrounding the front of the installation.
- E3. No heat-sensitive material is to be placed any closer than 1435mm from the base of the Zero Clearance Box, 100mm from either side, or 100mm from the rear.
- E4. Where a nogging or lintel is required, a steel angle or other suitable non-combustible alternative should be used if within the aforementioned exclusion zone.

F. Mantel Clearances.

- F1.** Mantel shelf and mantel upright clearances have not been tested with this appliance, and should therefore be installed as per clause 3.4.1.3(b) of AS/NZS 2918:2001.

Tommi Inbuilt Wood Burner Dimensions

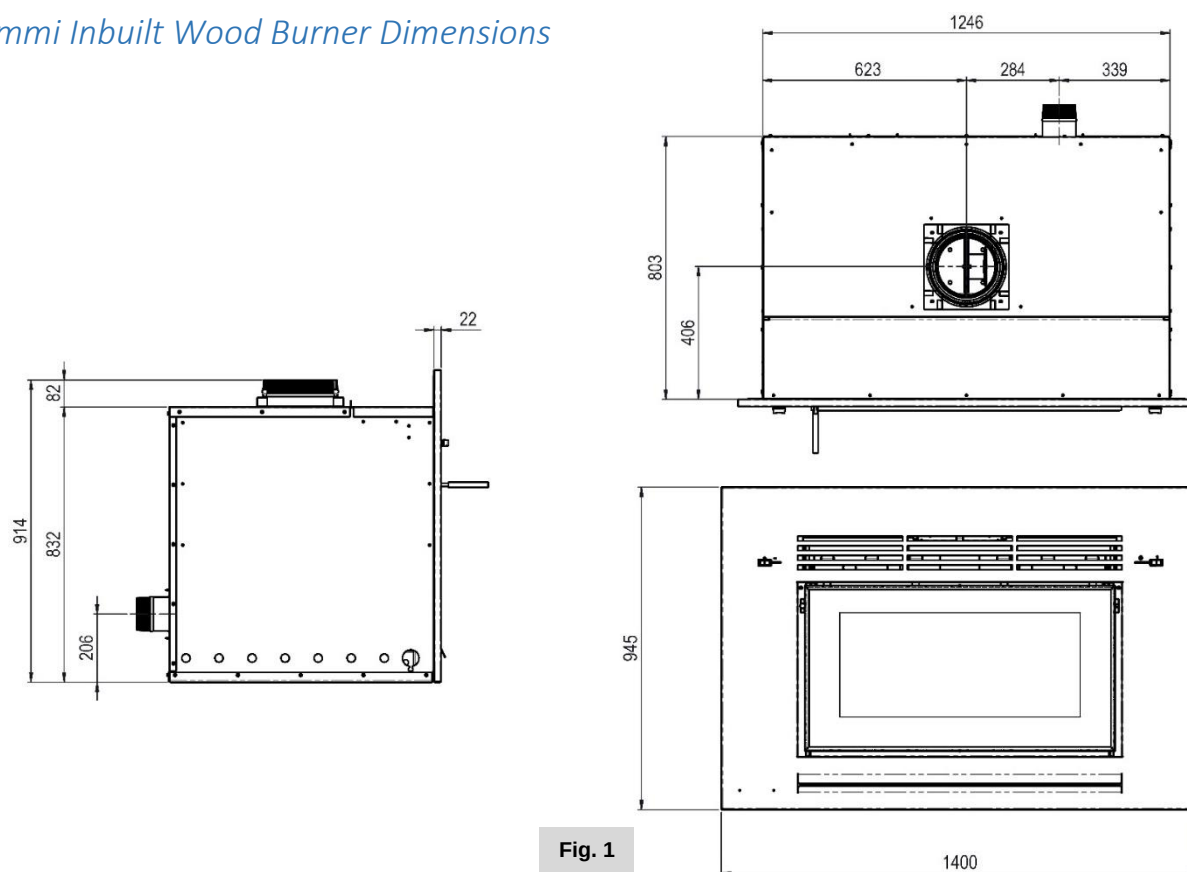


Fig. 1

- Dimensions given include the factory-fitted Inbuilt “Zero Clearance” cabinet.

G. Cavity Dimensions

- G1.** Cavity should be prepared based on the given clearances **or greater**. (Table 1) & (Fig. 2)
- G2.** Non-combustible material must be used on front wall between appliance and first noggin/dwang/frame of enclosure.
- G3.** The front wall of the enclosure must be made of non-combustible material to a **minimum** height of 600mm above the zero clearance box, and must extend to at least 100mm either side of the zero clearance box, down to the floor on both sides of the enclosure.

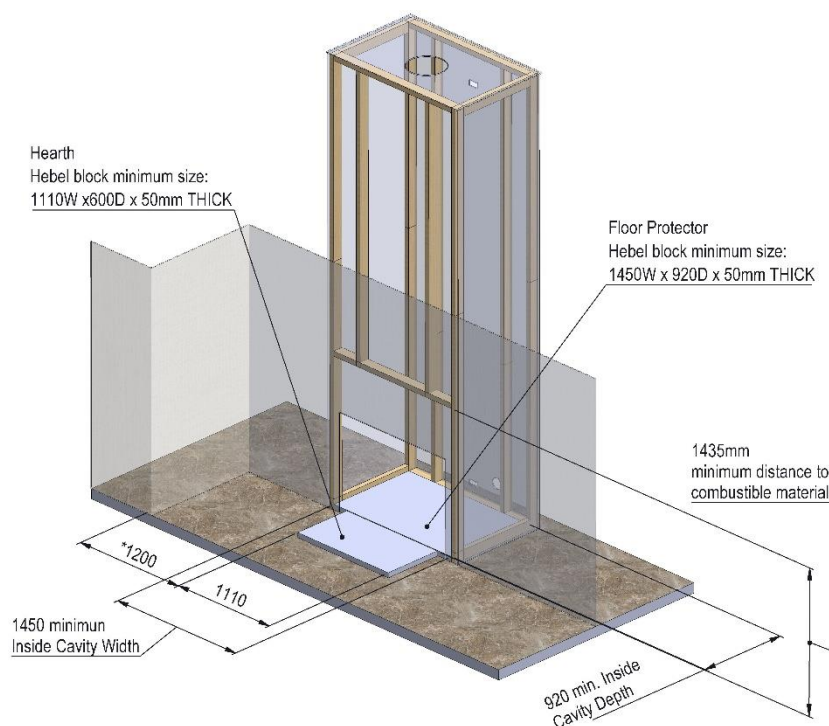


Fig. 2

- G4.** The first internal noggin/dwang must be a minimum of 600mm above the top of the zero clearance box. The noggin must not be closer than 190mm to the outer flue casing.
- G5.** The rear wall of the combustible enclosure must be a minimum of 100mm from the rear of the zero clearance box.
- G6.** The side wall of the combustible enclosure must be a minimum of 100mm from the sides of the zero clearance box.

TOMMI INBUILT (ZC) CAVITY MINIMUM DIMENSIONS (mm)		
WIDTH (W)	HEIGHT (H)	DEPTH (D)
1450	1435 (incl. Hebel)	920
Min timber cavity framing height 1435mm		

Table 1

- G7.** Heat-sensitive structures are not to contact carcass or appliance fascia.
- G8.** Ensure wiring for the fan is taken into account when preparing the cavity.

TOMMI INBUILT (ZC) CAVITY OPENING DIMENSIONS (mm)	
WIDTH (W)	HEIGHT (H)
1300	920 min 935 max

Table 2

- G9. WARNING:**
Cavity Dimensions must be determined in conjunction with requirements as per Section E and Section M, with particular note made to the heat sensitive material exclusion zone.

- G10.** The finished floor protector should be the same level both inside and outside the cavity. A difference in floor level will prevent the panel set being properly fitted.

I. Cavity Venting

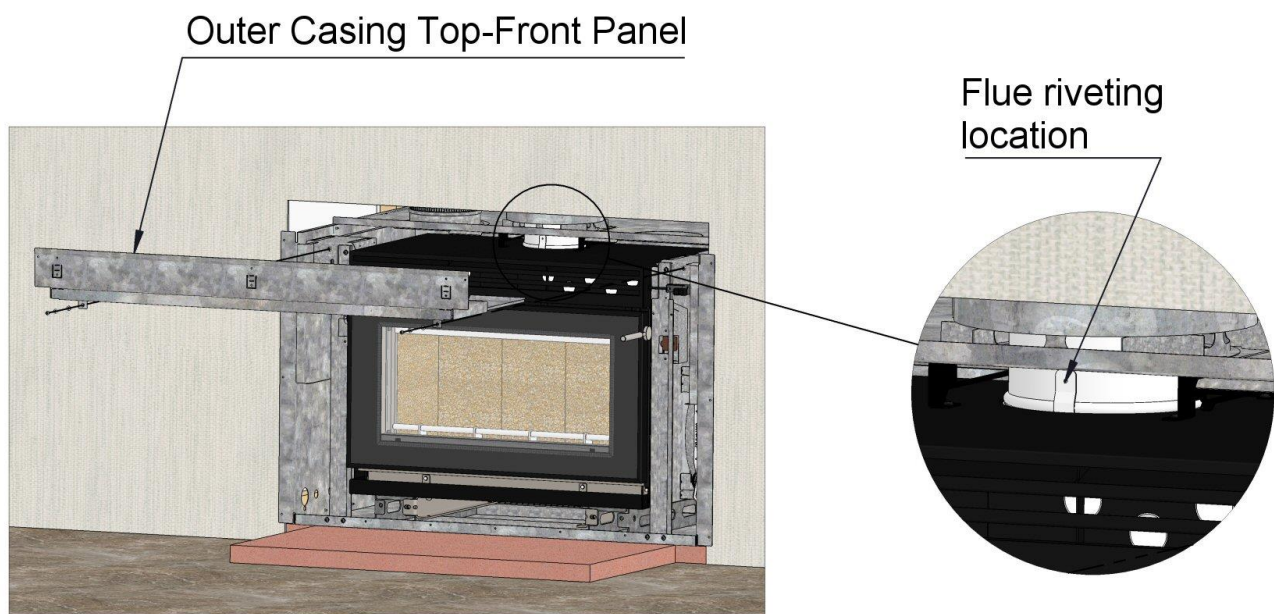
- I1.** A 5,000mm² vent must be installed 80mm up from the floor of the enclosure. This vent is to be 50mm high x 100mm wide.
- I2.** An additional 5,000mm² vent must be installed 300mm down from the top ceiling of the enclosure. This vent should also be 50mm high x 100mm wide.
- I3.** The appliance must have a minimum of 8,109mm² outside air venting from outside of the living area.
- I4.** Suitable precautions should be taken to prevent rodents, birds and/or debris from entering or obscuring the air vents. If grilles are used; ensure the minimum vent area is maintained through the grille.
- I5. WARNINGS:**
- A minimum of 50mm air gap around the flue liner, in the enclosure ceiling through which the flue system passes, should be maintained to provide sufficient ventilation in order to prevent heat build-up within the enclosure.
 - The constructed enclosure should **not** be capped off at ceiling level, as there would be a considerable risk of fire from the build-up of heat. Such an installation should be properly vented into the ceiling cavity with sufficient clearances to comply with relevant building codes and practices.
 - For standard flue installations (Fig. 3); if any support is required under the chimney cap, it should be constructed of non-combustible materials only.

I. YUNCA Insert Flue Kit – Zero Clearance (Complies with AS/NZS 2918:2001):

1. Zero Clearance Inbuilt Flue Kit consists of the following:

- 175mm x 1200mm stainless steel flue (3x)
- 175mm x 600mm stainless steel flue (1x)
- 225mm x 1200mm galvanised inner liner (3x)
- 225mm x 600mm galvanised inner liner (1x)
- 275mm x 1200mm galvanised outer liner (3x)
- 275mm x 600mm galvanised outer liner (1x)
- Top Cap / Cowl (1x)
- Casing Cover / Cone (1x)

⇒ **Please Note:** All flue joints must be sealed with flue sealing compound. Use stainless steel screws or rivets to join the flue pipe (three equally spaced places at each joint). The first length of flue must be fixed to the flue spigot with at least one stainless steel screw or rivet. The required minimum flue termination height is 4.6 metres above the floor protector.



➤ **Note:** Outer Casing Top-Front Panel must be installed **after** the flue is fixed in place.

J. Typical Inbuilt (ZC) Flue Installation (Fig. 3)

Complies (with heater) to AS/NZS 2918:2001

(Not drawn to scale)

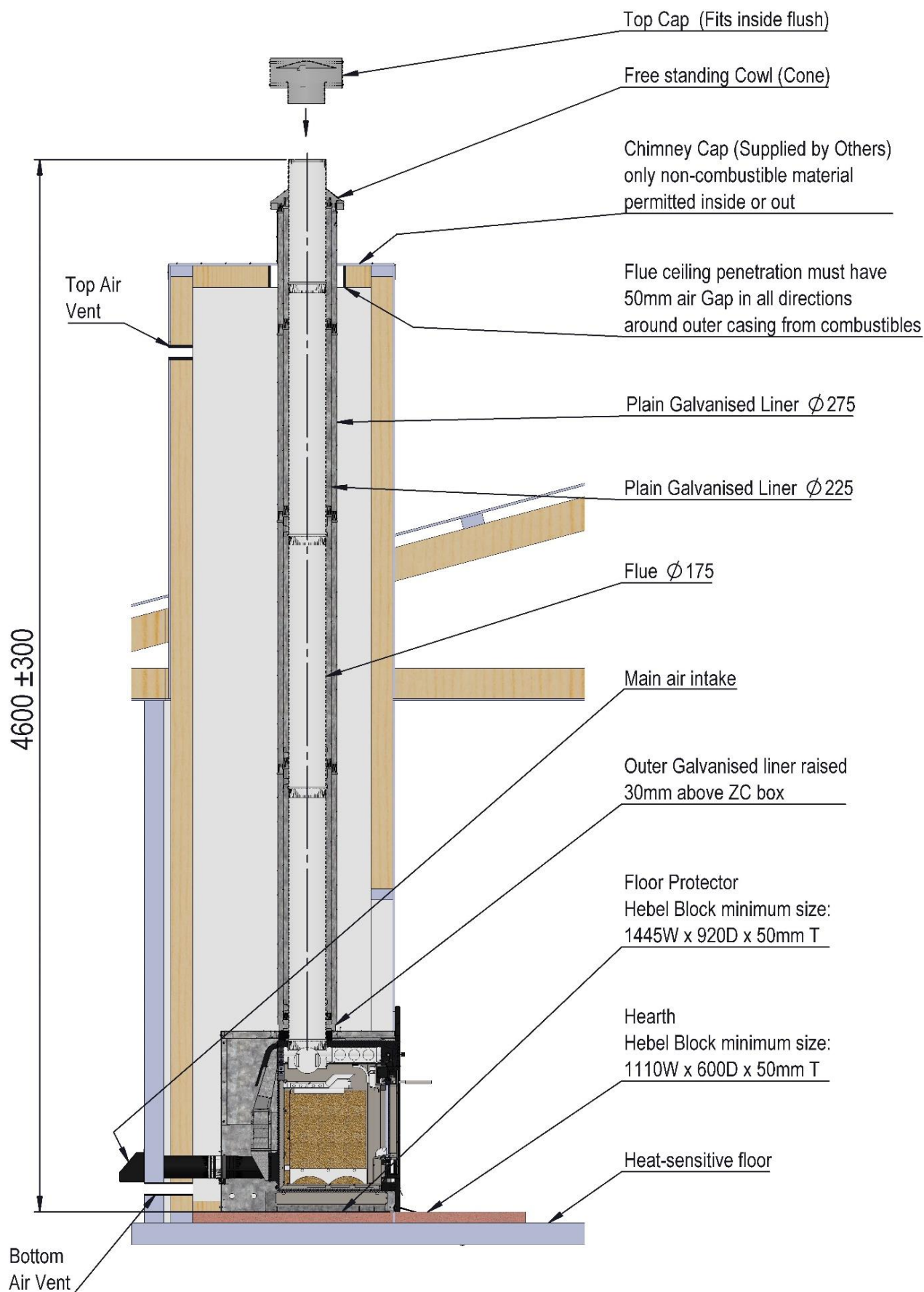


Fig. 3

K. Conditions for Flues (Fig. 4)

K1. The FLUE shall extend to:

- Not less than 600mm above the highest point on the roof if within 3.0m of that point, or
- Not less than 1000mm above the intersection point with the roof and not lower than any point of the roof within 3.0m.
- In any case the length of the flue shall not be less than 4.6m from the ash floor protector.

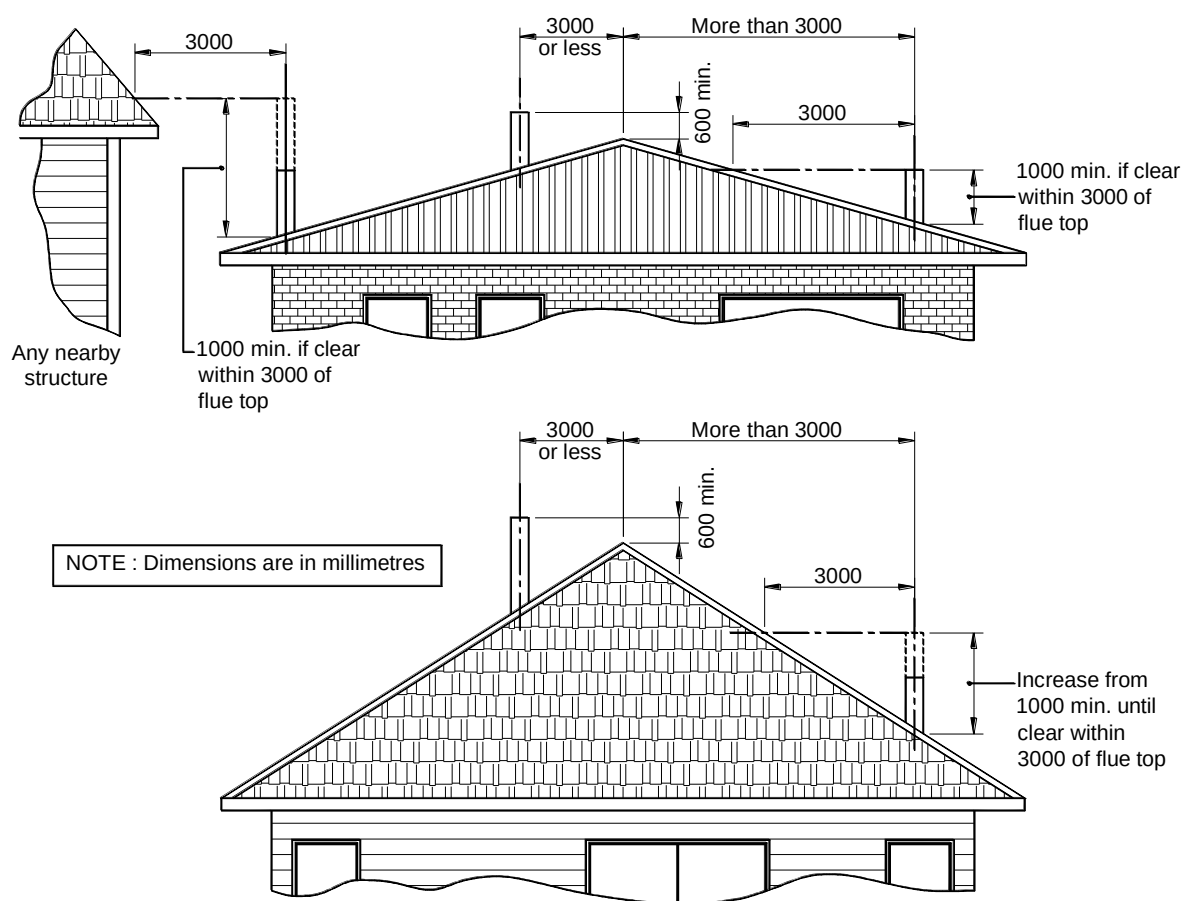
K2. The flue system must comply with AS/NZS2918:2001.

K3. A minimum of 50mm clearance must be left between the outer casing of the flue and any surrounding combustible materials.

K4. The outer galvanised casing of the flue (275mm) must be raised 30mm above the Zero Clearance Box.

K5. The inner galvanised casing of the flue (225mm) must be vented at the base no higher than 10mm above the zero clearance box, with a minimum venting of 1,514mm².

K6. For situations where the cavity terminates at ceiling level, suitable measures must be taken to prevent accidental migration of loose-fill or any combustible material by any action of wind or by persons moving in the ceiling space. Such installations are not detailed in these instructions, so please refer to AS/NZS 2918:2001, and your local authorities for requirements.



MINIMUM HEIGHT OF FLUE SYSTEM EXIT

Fig. 4

L. Tommi Inbuilt (ZC) Installation Thermal Clearances

➤ THERMAL CLEARANCES FRONT VIEW

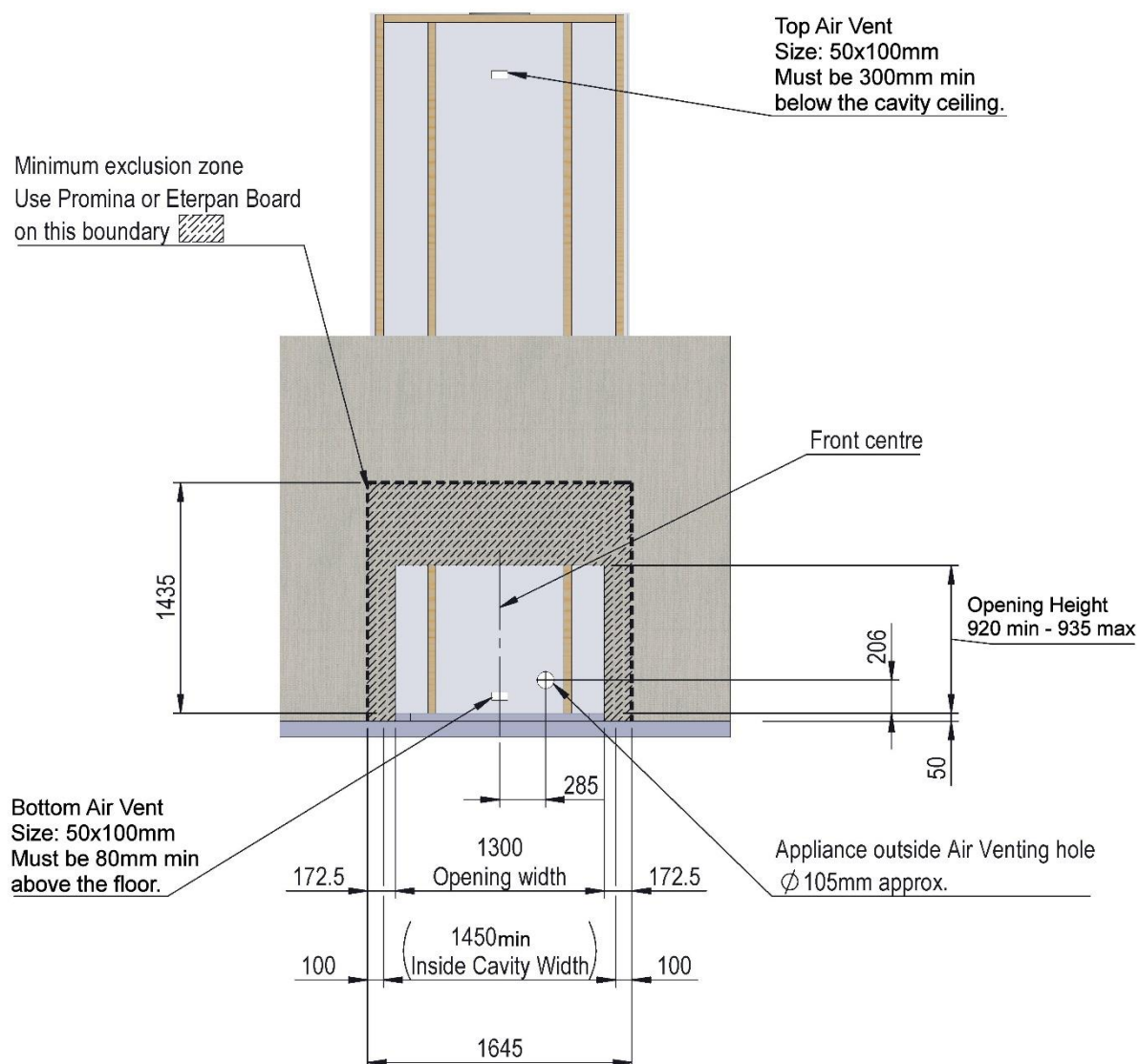


Fig. 5

➤ **THERMAL CLEARANCES CROSS SECTION**

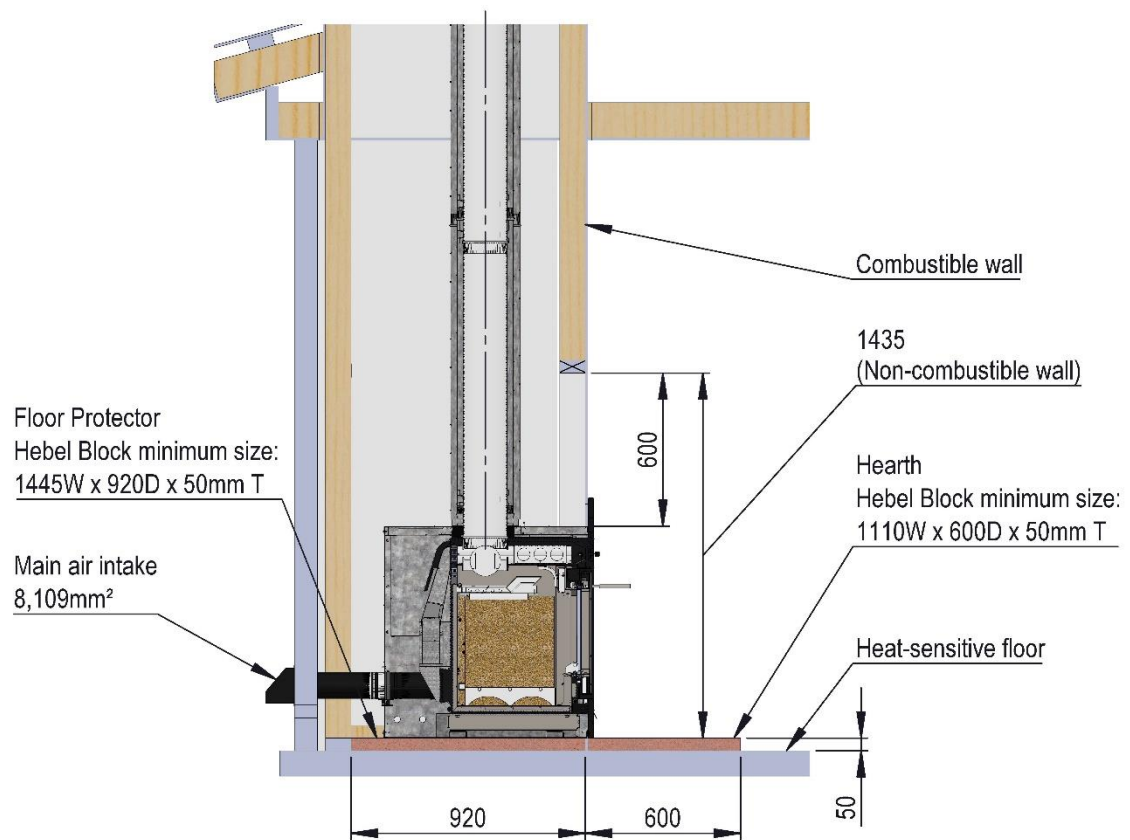


Fig. 6

M. Attaching Flue System to ZC Box / Firebox

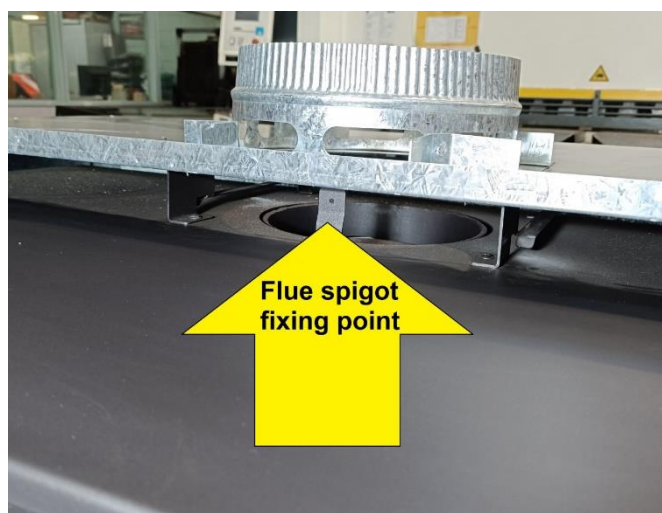
- M1. Remove the Door and Fascia panel set as per [Section Q](#)
- M2. Once the fascia is removed, unscrew the Outer Casing Top-Front Panel using a 4mm Hex Key / Allen Key (2 screws).



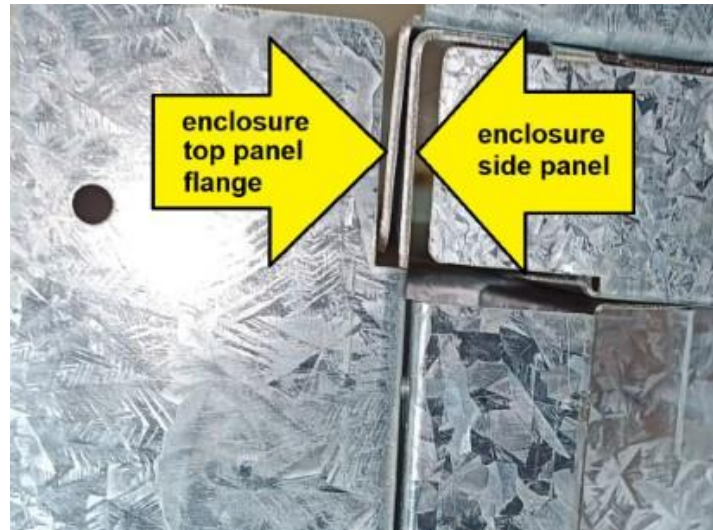
- M3. Pull the Top-Front Panel towards you to remove it from the outer casing assembly.



- M4. Apply a fire cement sealant as required to the flue spigot, then lower the Flue into the spigot on top of the firebox and ensure it is fully seated.
- M5. Secure the flue using a rivet or screw in the Flue Spigot.



- M6.** Reinstall the Outer Casing Top-Front Panel by sliding it into place, from front to back [a reversal of the removal procedure], while taking care to position the sides of this panel over the outside edges of the ZC Box side panels.



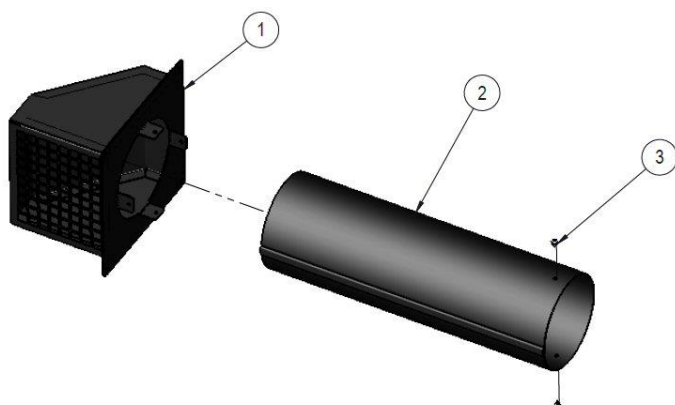
- M7.** Secure the outer casing panel in place using the 2 screws removed earlier.



- M8.** Re-install the fascia and door as per [Section R](#)

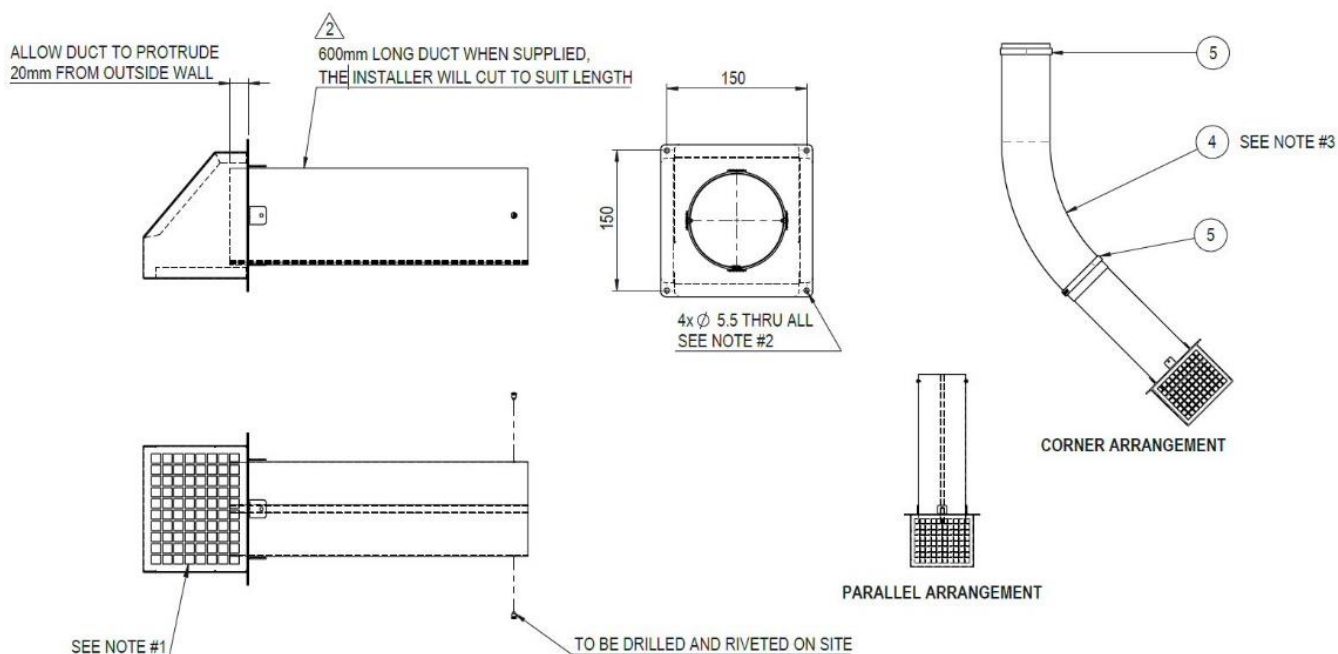
N. Main Outside Air Intake Assembly (Not to scale)

Item Ref.	Drawing Number	Description	Corner Arrangement Parts Qty.	Parallel Arrangement Parts Qty.
1	0007400	100mm OUTER WALL VENT ASSEMBLY	1	1
2	0007393	100 x 600mm S/S INLET DUCT	1	1
3	0007338	AS 4-2 BLIND RIVET	-	2
4	0007399	FLEXI-DUCT (Optional)	1	-
5	0007405	HOSE CLAMP SS 90-110mm (Optional)	2	-



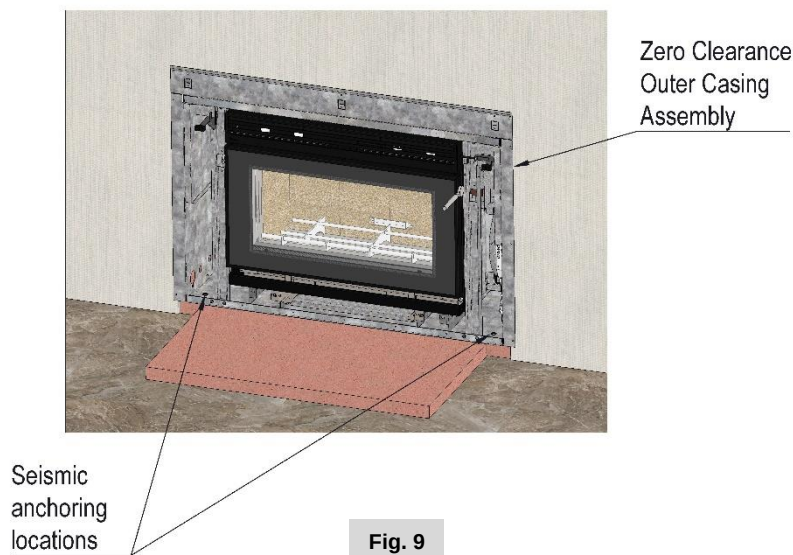
Note:

1. WHEN CHOOSING ALTERNATIVE VENT COWL OR PIPES, TOTAL VENT OPENING AREA MUST BE NO LESS THAN 7854 mm²
2. USE 8G x 30 CONCRETE / GIB SCREWS TO MOUNT THE COWL AND WALL PLATE ON THE WALL.
3. USE ALUMINIUM FLEXI-DUCT TO EXTEND CONNECTIONS BETWEEN THE STAINLESS DUCT AND THE DAMPER.
4. ALL PARTS MUST BE PAINTED HIGH TEMPERATURE METALLIC BLACK



O. Tommi Inbuilt Seismic Fixings

- O1.** Prior to installation, ensure the cavity floor is level both ways, smooth and bump free.
- O2.** Ensure the unit is securely fixed using sleeve anchors or similar at the locations shown in the images on this page. (Fig. 9)



P. Tommi Fan - Electrical Supply

- P1.** Although the fan is controlled automatically by a thermostat, an isolator switch must be installed in conjunction with the fire.
- P2.** On completion of installation and when you are confident everything is electrically safe, turn on the isolation switch to liven the unit prior to lighting a fire and conducting initial burns.

P3. WARNING:

It is important that the fire should NOT be operated without power to the fan.

⇒ **Note:** The fan is thermostatically controlled, and therefore may take up to 30 minutes to switch on after the fire has been lit.

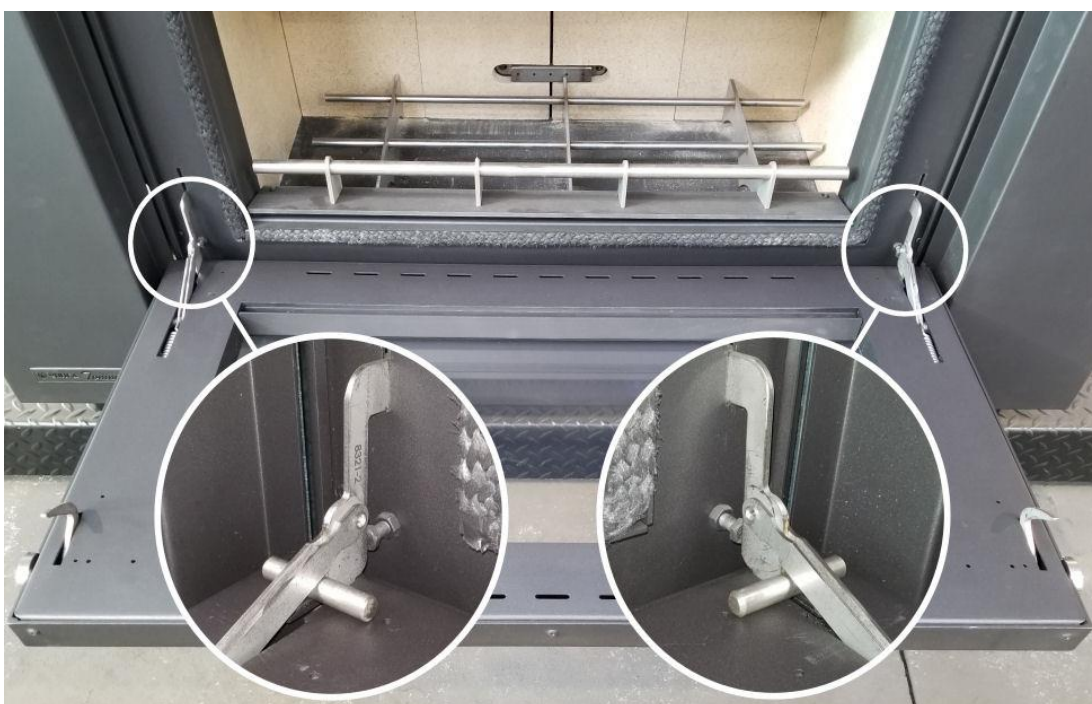
Q. Removing the Door and Fascia Panel Set

- Q1.** Remove the two air slide control knobs (1 each side of fascia), by firmly pulling them away from the panel set [there will be some resistance]



- Q2.** Open the door fully.

- Q3.** Insert one of the included metal dowels (or equivalent) under each hinge arm.



- Q4.** Slowly close the door until the dowels take up the tension, and the door is suspended partially open.
- Q5.** While ensuring the dowels do not fall out of place; carefully lift the entire door upwards to remove the hinges from their mounting slots on the front of the firebox.
- Q6.** Place the door aside in a safe place where it will not be tampered with.
⇒ [Do NOT remove the dowels]

Q7. WARNING:

With the hinges open, the springs are under considerable tension. If not careful, the hinges may snap shut with enough force to cause injury and/or shatter the glass.

Q8. Un-screw the fascia on four locations using a 4mm Hex Key.



Q9. Pull the bottom edge of the fascia out at an angle, then lift the fascia up to remove it.



Q10. Put the fascia aside in a safe place where it cannot fall or be knocked, as damage will likely occur.

R. Fitting the Door and Fascia Panel Set

R1. To install the fascia panel set, hang the top inside edge of the fascia over the top edge of the ZC Box top-front panel.

⇒ Note: The image below left shows the rear-view of the panel set, positioned over the lip of the enclosure Top-Front Panel.



R2. While holding the panel set at an angle, carefully let it down into position while enabling the two air slide levers to pass through their respective slots in the fascia.

⇒ Note: A thin ruler or similar can be used to help position the levers, as shown (below right)



- R3.** Ensure the four screw holes are all lined up correctly, and insert the screws to secure the panel set to the ZC Box.



- R4.** If the door hinges are not already propped open, do so as per removal instruction [\[Section Q\]](#).
- R5.** While ensuring the dowels do not fall out of the hinges; lift the door into approximate position and guide the hinge hooks into their respective slots on the front of the firebox.
- R6.** Open the door fully, and remove the dowels from the hinges.
⇒ Store the dowels in a safe place, as they will be required in the future for general maintenance.
- R7.** Confirm the fascia is positioned to provide equal spaces either side of the door and that the door is “square” with the fascia panel when closed and latched.
- R8.** Refit the control knobs on either side of the fascia.

WARNING:

It is important that the fire should NOT be operated without power to the fan.

The fan has been factory tested to confirm that it starts when the temperature of the thermostat reaches 40 degrees Celsius.

Confirm that the fan starts and runs during your initial burns. The fan may take up to 30 minutes to switch on.

< END >

These instructions, spare parts information, operation and maintenance guides, may be downloaded from <https://www.yunca.co.nz/installation-instructions>