STOVAX

Studio Duplex

Inset Convector

Installation Instructions

IMPORTANT

THE OUTER CASING, FRONT AND GLASS PANEL BECOME EXTREMELY HOT DURING OPERATION AND WILL RESULT IN SERIOUS INJURY AND BURNS IF TOUCHED. IT IS THEREFORE RECOMMENDED THAT A FIREGUARD COMPLYING WITH BS 8423 (LATEST EDITION) IS USED IN THE PRESENCE OF YOUNG CHILDREN, THE ELDERLY OR INFIRM.

Do not attempt to burn rubbish in this appliance. Please read these Instructions carefully before installation or use.

Keep them in a safe place for future reference and when servicing the fire.

The commissioning sheet found on page 3 of these instructions should be completed by the Installer.

PM1983.1.07.2021

CONTENTS

Studio Duplex Inset Convector

Covering the following models:

Studio Duplex
RVST-2DSHT

APPLIANCE COMMISSIONING SHEET

To assist us in any guarantee claim please complete the following information:-

Dealer appliance was purchased from:

Name:

Address:

Telephone number:

Essential information - MUST be completed:

Date Installed:

Model Description:

Serial Number:

Installation Engineer:

Company Name:

Address:

Telephone number:

Commissioning Checks - to be completed and signed:

Is flue system correct for the appliance:	YES ☐	NO ☐
Flue swept and soundness test complete:	YES ☐	NO ☐
Smoke test completed on installed appliance	YES ☐	NO ☐
Spillage test completed	YES ☐	NO ☐
Use of appliance and operation of controls explained	YES ☐	NO ☐
Clearance to combustible materials checked	YES ☐	NO ☐
Instruction book handed to customer	YES ☐	NO ☐
CO Alarm Fitted	YES ☐	NO ☐
Flue draught Reading (Pa)	HOT ☐	COLD ☐

Signature: ..... Print Name: .....

ESSENTIAL INFORMATION

GENERAL	**Model:** Studio Duplex			**Studio Duplex**
	Nominal Heat Output	Wood	kW	9.4
	Efficiency	Wood	%	75.0
	CO @ 13% O_2	Wood	%	0.29
	Weight		Kg	144
	Recommended Fuels	Wood	Seasoned Wood (less than 20% moisture content)	
As tested to the requirements of EN 13229 for intermittent operation				
FLUES	Flue/Chimney Size	With Liner of Factory made system (diameter) Installed in accordance with manufacturers instructions	mm	153
			inch	6
	Flue/Chimney Minimum height	All products	m	4.5
			feet	13
	Flue Draught	Min	Pa	10
		Nominal		12
		Max		20
	Flue Gas Mass Flow	Wood	g/s	8.3
	Average Flue Gas Temperature	Wood	°C	312
	Flue Outlet Size (Top Option)		mm	153
			inch	6
European Min Spec for Solid Fuel Chimney Flue - T400 N2 D 3 G50				
VENTILATION	**A) Traditionally Built Homes** • Where leakage is greater than 5m^3/hour/m^2. • Ventilation normally required = 550mm^2 per kW output over 5kW		**B) Modern Construction Homes** • Where leakage is less than 5m^3/hour/m^2. • Ventilation normally required = 550mm^2 per kW	
	A	Additional Ventilation	mm2	2310
			cm2	23.1
			in2	3.6
	B	Additional Ventilation	mm2	5060
			cm2	50.6
			in2	7.8

GENERAL INFORMATION

Appliance Location

This appliance sits in a recess, all nearby walls that are not classed as fire walls or are considered unsuitable for exposure to heat must be protected by non-combustible building material in accordance with the specifications below.
Seal all joins in the non-combustible material using the method recommended by the manufacturer.

Ventilate the space between the insert and the recess as specified in these instructions.
Refer to the manufacturer's installation instructions when connecting the chimney system ensuring that the distance to combustible materials are maintained.
Ensure all combustible materials are not placed closer than 1m from the front of this appliance.
The appliance must be installed with clearance to the building material, not in direct contact with it, to allow for thermal expansion of the insert.

Ventilation

Do not pack the void around or above the appliance with insulation materials such as mineral wool or vermiculite.

The void built for the cassette must be ventilated to prevent a build up of heat. If the void is sealed then you must fit vents at both low and high levels of approximately 20cm^2 each. These vents must take cold air from the room and return warm air back into the room. An access hatch must be left in the side of the chimney breast for future servicing and inspection of the flue and appliance.

Building Materials

Stovax recommend building the enclosure from the following materials:

Metal Studwork
Non-combustible board: Calcium Silicate Board - NOT PINK BOARD
Heat Resistant Plaster: Purimacho (any spider cracks that develop after installation will need to be rubbed down and refilled with Purimacho heat resistant filler to stabilise).

Ensure all distances to combustible materials are maintained.

Registered Professional

Before installation and/or use of this appliance please read these instructions fully and carefully to ensure that you have fully understood their requirements.
The appliance must be fitted by a registered installer, or approved by your local building control officer.

Structural Support

If installing on a wooden floor check that the floor joists are strong enough to bear the weight of the insert, chimney and construction parts.

Hearth

A Constructional Hearth with a depth of 125mm and a 12mm Decorative Hearth Plate must be installed to protect a combustible floor from the risk of falling embers if mounted directly on the floor.
The Decorative Hearth must extend 300mm in front of the hearth and can be made of natural stone, concrete, metal or glass.

Clearance to Combustible Materials

Make sure that the connected flue system is positioned at a reasonable distance from any combustible material
Stovax recommend the use of a flue liner when installing into a masonry chimney. Alternative methods can be used if the chimney is sound and correctly sized, however access may be required to make an effective seal - ie Using a sump adapter.
Stovax recommend using an approved twin wall insulated chimney system when installing within studwork.

Do not pack the void around or above the appliance with insulation materials such as mineral wool or vermiculite.

The void built for the cassette must be ventilated to prevent a build up of heat. If the void is sealed then you must fit vents at both low and high levels of approximately 50cm^2 each.
These vents must take cold air from the room and return warm air back into the room.

An access hatch must be left in the side of the chimney breast for future servicing and inspection of the flue and appliance.
Support the outer box using metal framework (ie Unistrut) construction secured to the non-combustible floor/wall.

Final inspection of the installation

When it has been installed, the appliance must be commissioned in accordance with standards and practices to ensure full working order and a correct handover given to the customer.

Flue and Chimney

The flue or chimney system must be able to withstanding flue temperatures of up to 400^{O}C.
The external diameter of the connection sleeve is 155mm.
In normal operating mode, draught in the chimney should be 20-25 Pa close to the connection sleeve. The draught is affected primarily by the length and area of the chimney and also by how well sealed it is.
The minimum recommended chimney length is 3.5m and a suitable cross-section area is 150-200cm² (140-160 mm in diameter).
Sharp bends and horizontal lengths in a flue pipe reduce the draught in the chimney.
It must be possible to sweep the full length of the flue, and the soot doors must be easily accessible.
Carefully check that the chimney is sealed and that there is no leakage of smoke from the connections.

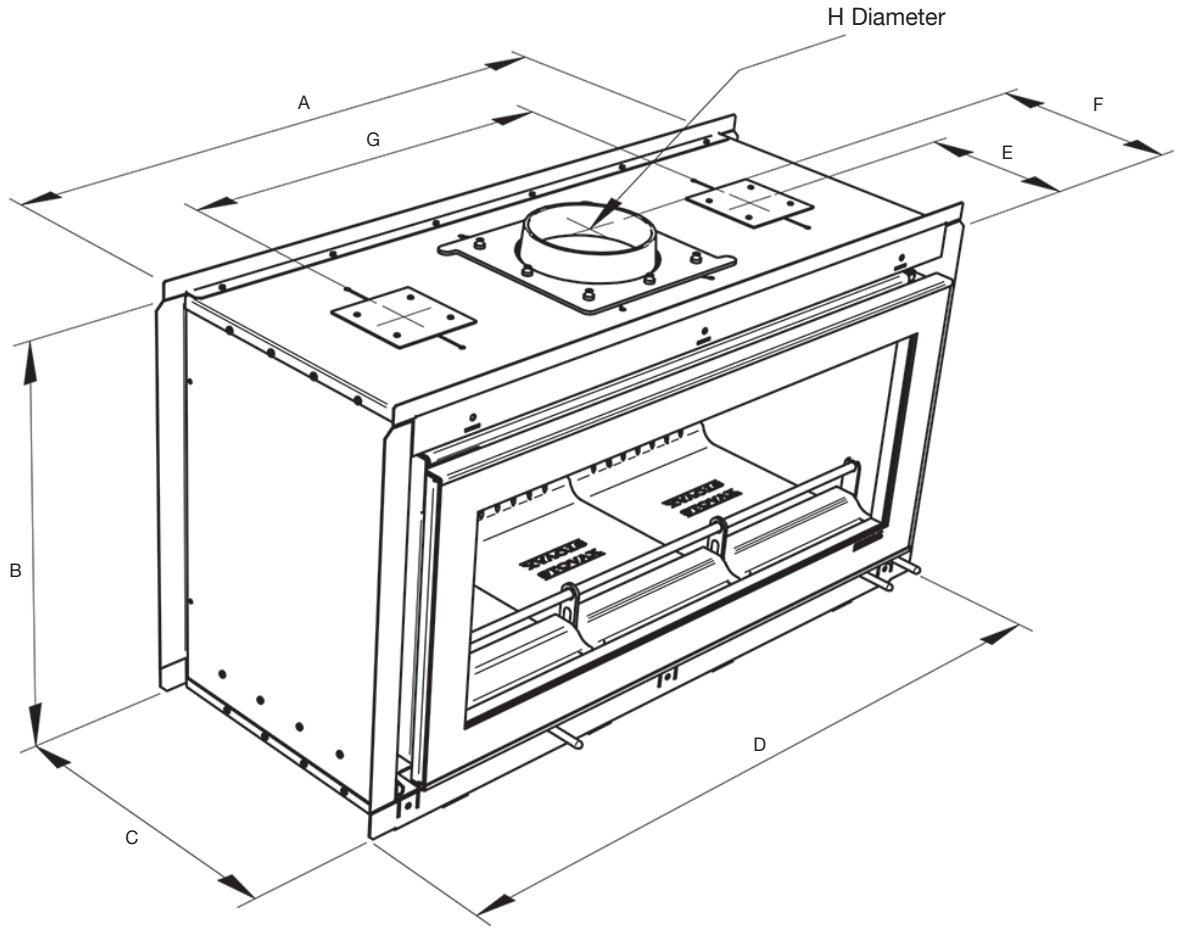
Combustion Air Supply

When the appliance is installed, it is essential to ensure adequate air is supplied to the room. Air can be provided indirectly via a vent in the outer wall or via a duct from the outside that connects to the sleeve on the underside of the insert. The required volume of combustion air is about 20 m3/hour.

The outer diameter of the combustion air connection sleeve is 80mm.
If a pipe is longer than 1m, its diameter must be increased to 100mm and a larger wall vent will be required.
In heated spaces, the flue must be insulated to prevent condensation using 30mm mineral wool covered with a vapour barrier. The hole in the wall (or floor) at the exit point must be properly sealed with flue jointing compound.

A flexible pipe to provide external directly into the appliance is available and must be fitted at the time of installation.

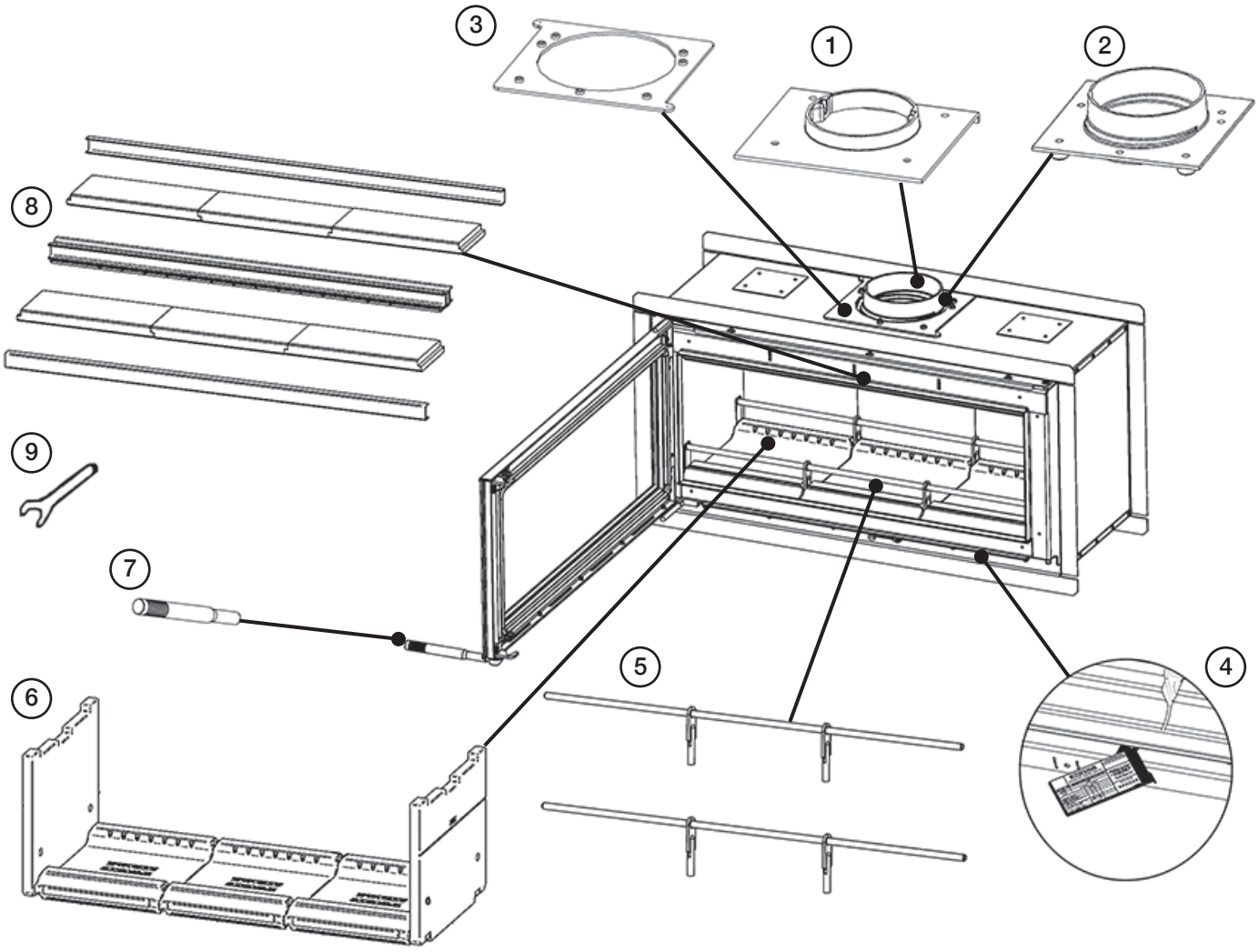
DIMENSIONS



DESCRIPTION	Model	A	B	C	D	E	F	G	H
Studio Duplex	RVST-2DSHT	950	550	402-414	1020	200	200	610	153 (6")

All dimensions in mm. (25.4 mm = 1”)

PARTS IDENTIFIER

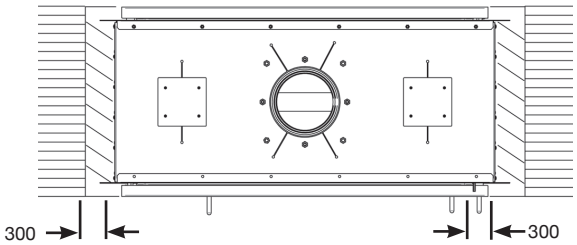


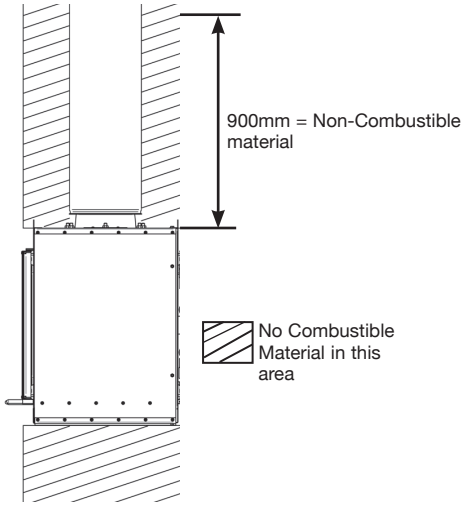
REF.	DESCRIPTION
1	Inner Flue Collar
2	Top Flue Collar
3	Clamp Ring
4	Data Plate
5	Log Guards
6	Brick Assembly
7	Tool Handle
8	Baffle Assembly
9	Spanner

CLEARANCE TO COMBUSTIBLE MATERIAL

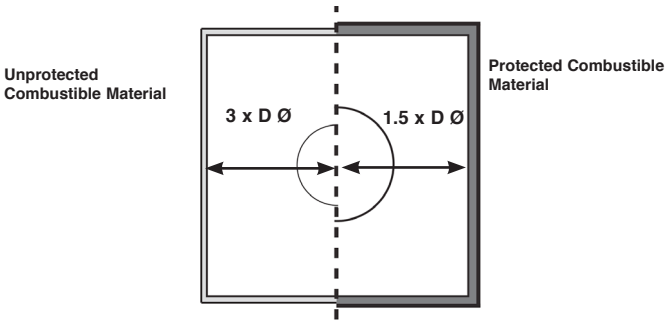
MINIMUM DISTANCE TO COMBUSTIBLE MATERIAL

When fitting the appliance use the minimum clearances between any point of the appliance and any combustible material.



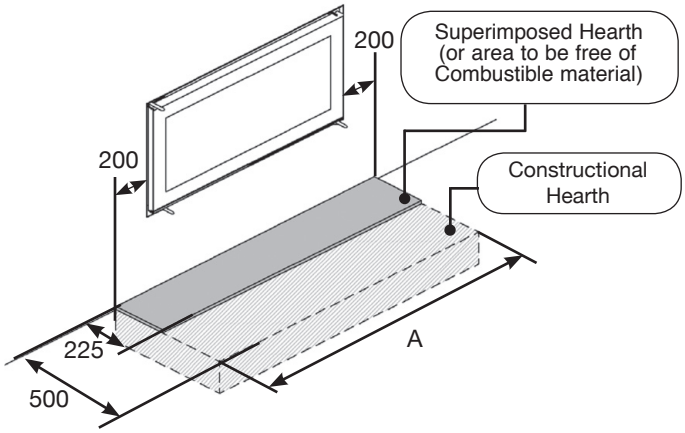


FLUE CLEARANCES



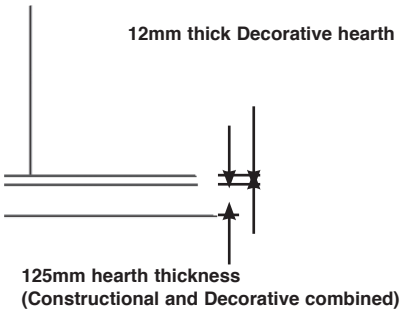
Dimension	A
Studio Duplex	1250

HEARTH DIMENSIONS



***Stovax recommends that the depth of the Decorative Hearth is equal to or greater than the height of the appliance from the floor, OR, the length of the door from the wall when in the open position.**
USE WHICHEVER FIGURE IS GREATER.

HEARTH THICKNESS



If installed at a height above 600mm from the floor there is no need for a constructional hearth in front of the appliance.

PRE-INSTALLATION

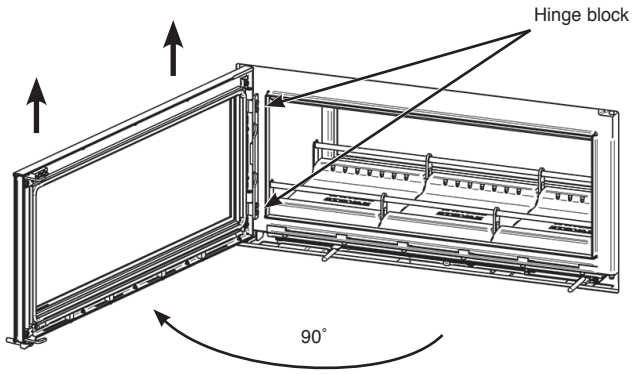
To make the installation of the appliance easier it is best to remove the internal components before fitting into the builders opening.
For the best results removing the following components as set out below.

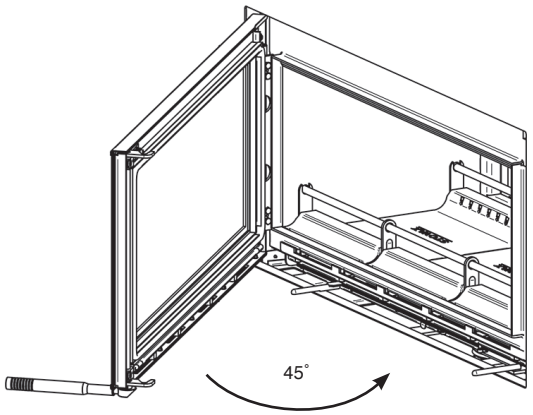
DOOR

Before removing the doors it is recommended to protect the left edge from damage using masking tape.

Both doors are removed using the same method.

It is recommended that both doors are removed at this stage to avoid damage during installation.





Lift the door vertically to remove from the hinge block.

Close the door 45˚ and carefully manoeuvre the door clear of the hinge mechanism.

Lie the door face down on a soft flat surface to protect the paint work and glass.

Reverse the procedure to re-fit the door.

REMOVAL OF INTERNAL COMPONENTS

In the firebox of the appliance are several loose items including:

A box containing:

-Baffle Bricks
-Firebricks
-Bag containing Instruction Manual, Warranty & Door Tools
-Log Guard End Supports
-Log Guards x 2
-Front Baffle Supports x 2

Remove these carefully and put them safely to one side.
They can be fitted after the appliance has been installed, see Installation Section.

SEPARATE THE INNER & OUTER BOX

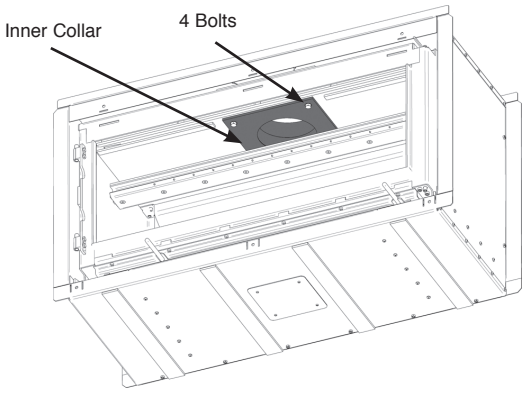
To protect the delicate parts of the appliance the product has been designed so that the inner box can be removed from the outer box.

Keep the inner box in a safe place whilst the outer box is installed into the fabric of the house, the main flue connections made and the walls finished.

When all the heavy work is complete the inner box can be re-installed into the outer box and the final connection made.

The internal components, bricks, baffles and the door etc should be removed to make the installation process easier and prevent damage.

First remove the inner collar.

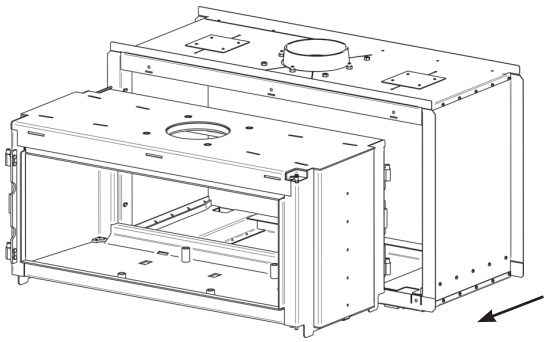


First remove the inner collar. Using a 13 A/F spanner, remove the 4 x bolts.

The inner box can now be slid out of the outer box.

The inner box can only be removed from the opening opposite the side with the adjustable flange and bolts.

This will require at least two people.



INSTALLATION

Do not support the structure with the appliance or the flue system. Take care when installing the appliance. Careless handling and use of tools can damage the finish and/or area.

Stovax recommends this appliance is installed into a purpose built metal Studwork construction.

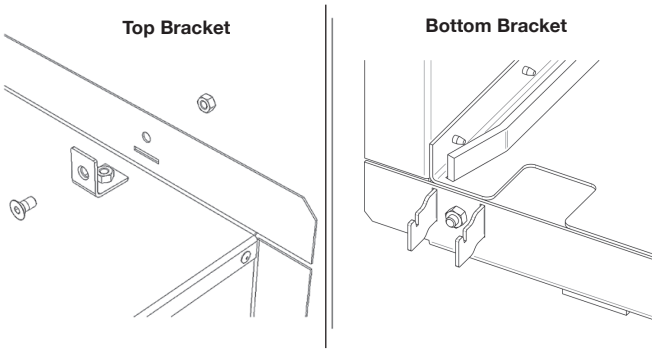
Do not attempt to retrofit this appliance into an existing opening.

FRAME BRACKET

This method of installation will require the attachment of frame fixing brackets prior to the installation of the outer box.

See the frame fitting instruction for the individual fixing methods.

(Not required if Edge or Cool Wall frames are fitted)



Fit frame fixing brackets or Edge/Cool Wall frame as required. See alternative frame instructions (PM378) for individual fixing methods.

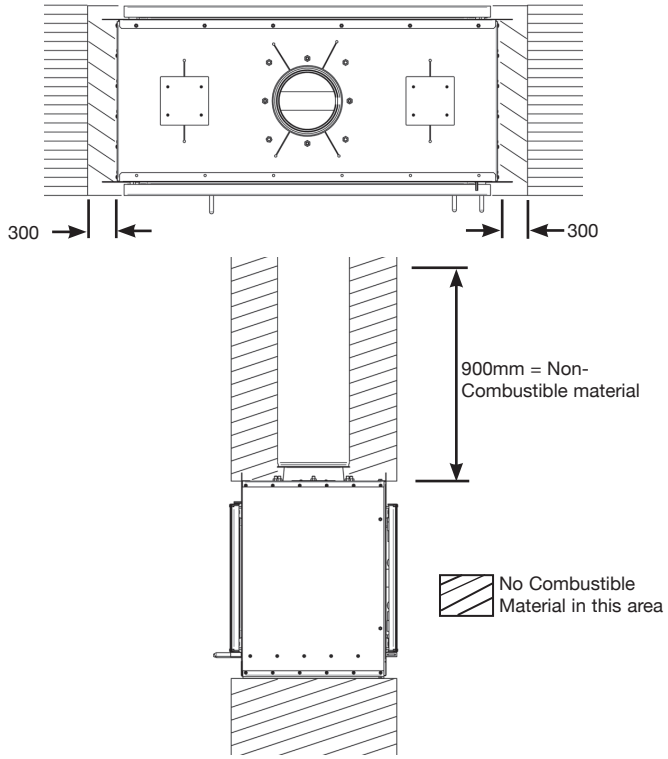
The outer box can now be installed into a studwork wall.

STUDWORK INSTALLATION

DISTANCE TO COMBUSTIBLE MATERIAL

ALL PARTS OF THE STUDWORK MUST BE NON-COMBUSTIBLE - FOR EXAMPLE METAL STUDDING.

DO NOT USE COMBUSTIBLE MATERIAL WITHIN THE DIMENSIONS BELOW.



Do not pack the void around or above the appliance with insulation materials such as mineral wool or vermiculite.

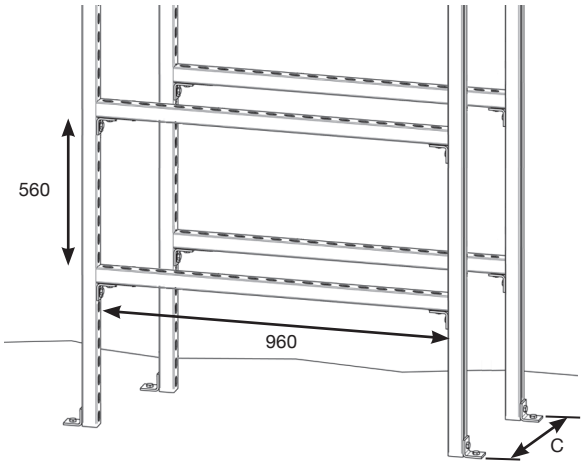
The void built for the appliance must be ventilated to prevent a build up of heat. If the void is sealed then you must fit vents at both low and high levels of approximately 200cm^2 each. These vents must take cold air from the room and return warm air back into the room.

An access hatch must be left in the side of the studwork for future servicing and inspection of the flue and appliance.

If constructing studwork for an Edge or Cool Wall finish consult the following sections before proceeding:

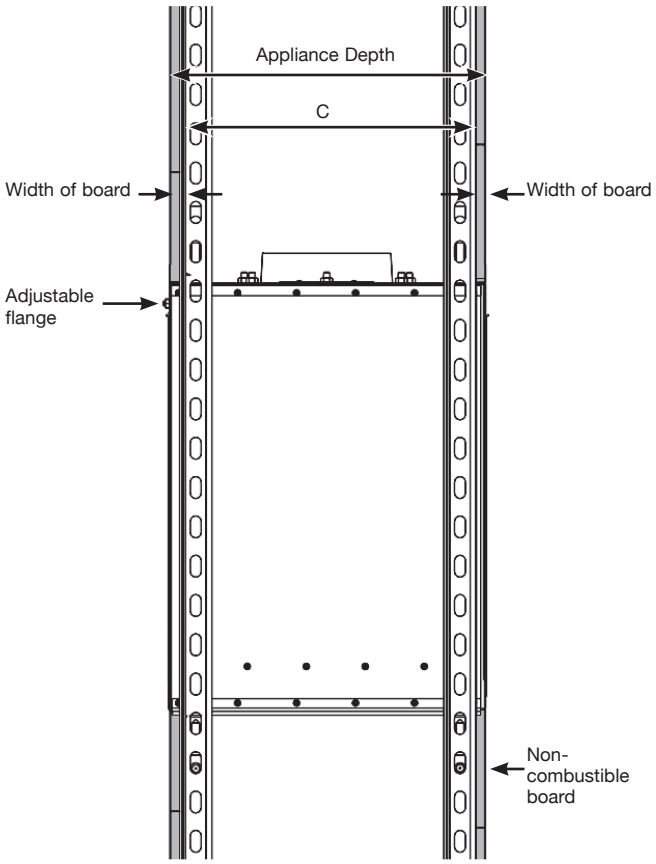
-Frameless Edge and Edge Plus
-Cool Wall

When constructing the framework for the Duplex the following dimensions must be observed to create the correct sized opening to fit flush to the appliance.

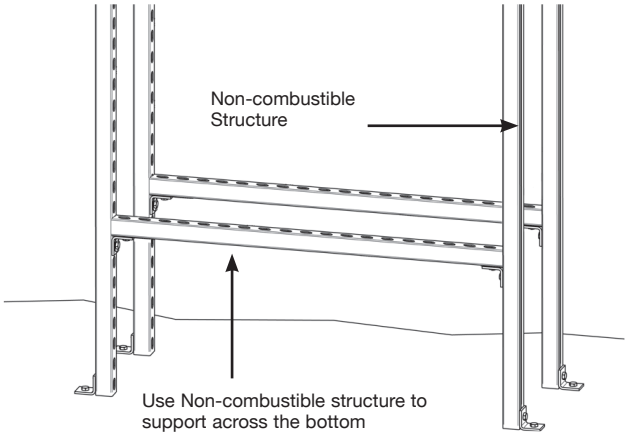


Dimension C (to the outside of the frame work) must equal the appliance depth (400mm) minus the thickness of the non-combustible board chosen.

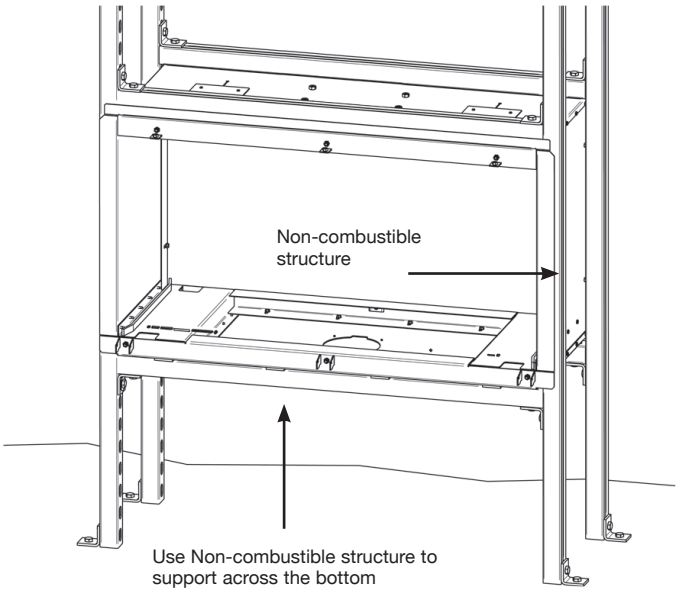
There is an adjustable flange which can be moved up to 5mm to allow refinement of the installation.



Support the outer box using metal framework (I.e Unistrut) construction secured to a non-combustible floor.

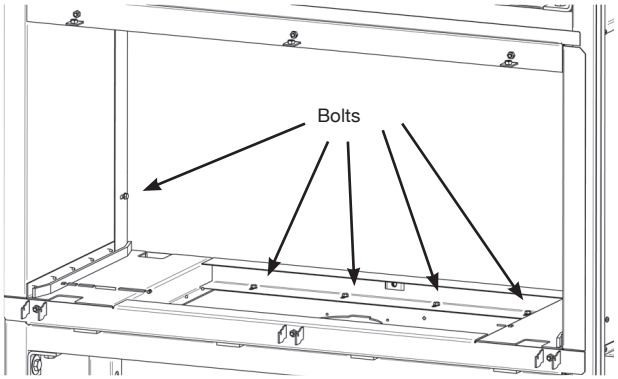


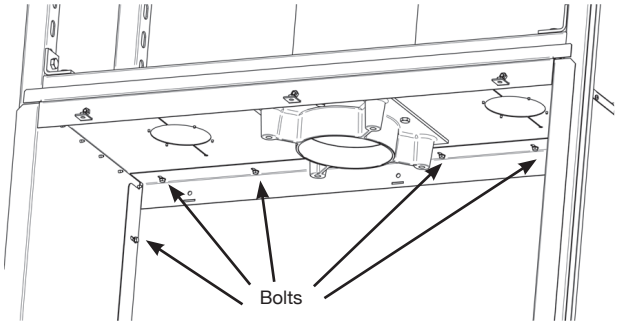
Mount the outer box onto the frame and finish the studwork support.
Note: Do not secure to the studwork at this point.



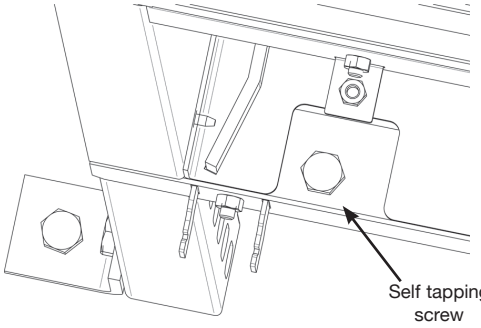
The bolts can be loosened on the adjustable flange and the frame moved outwards to allow refinement of the installation.

The frame is one complete item.





Secure the box to the frame with 4 self tapping screws, one in each corner.

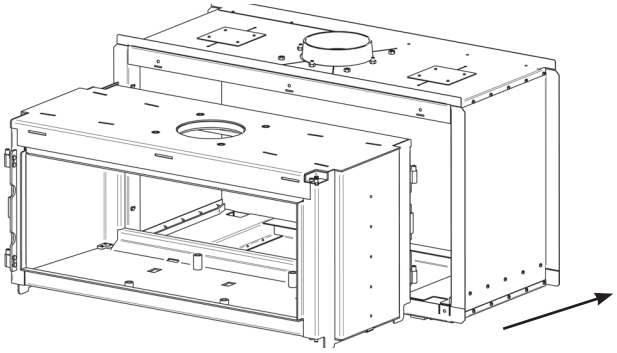


INSERTING THE INNER BOX

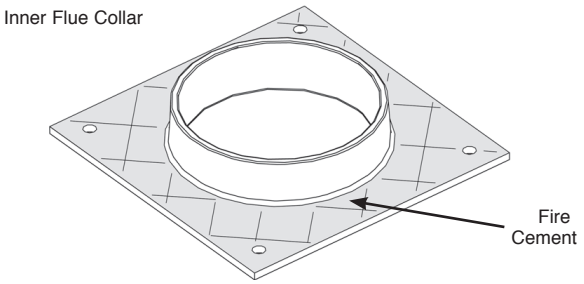
Fit the inner box so that the edge is flush with the flange of the outer box.

The inner box can only be fitted through the opening opposite the side with the adjustable flange and bolts.

This will require at least 2 people.



Apply fire cement in to the faces shown prior to fitting the inner collar.

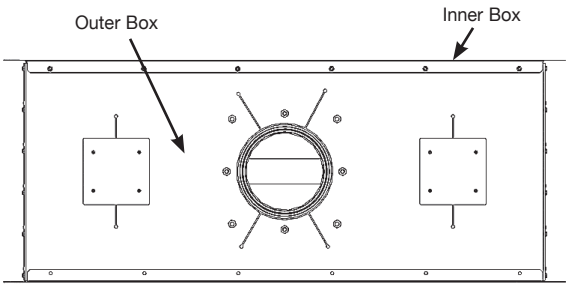


Fit the inner flue collar using the 4 x bolts. This should be done by hand and the bolts should be finger tight only.

Ensure that the front of the inner box is flush to the outer box.

This may require several adjustments to find the correct position.

Fully tighten the 4 x bolts. Do not over tighten.



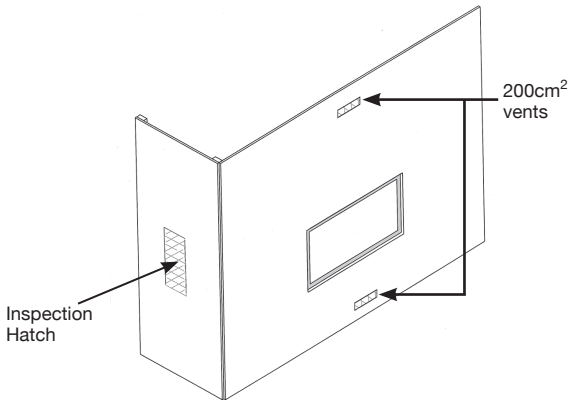
Ensure both boxes are flush before tightening collar fixing bolts

Replace the internal components (baffles, bricks, doors etc), see relevant Pre-Installation section.

To finish this installation, connect:

- The Outside Air Kit
- Convection Ducting Kit (optional)

After commissioning:
Finish the sides of the chimney breast.



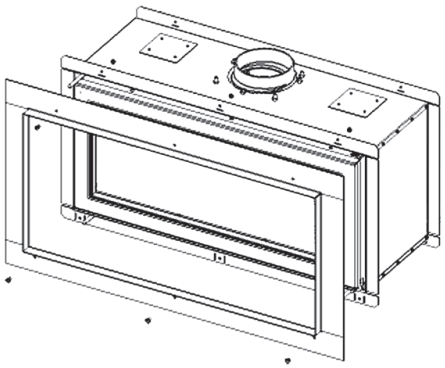
FRAMELESS EDGE INSTALLATION KIT

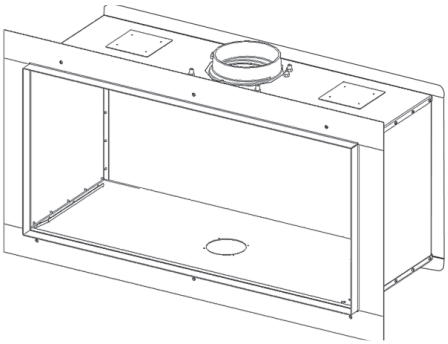
There is an optional Studio Edge Installation Kit designed to create a minimalist frameless finish making the appliance a focal point of any room:
Studio Duplex 2 Code No. RVS-2FEKW,

The Edge installation kit is provided in Matt Black. If necessary the kit can be finished to match the front face decor.

To fit the frame:

Position on appliance and secure as detailed in the frame fitting instructions (PM378).

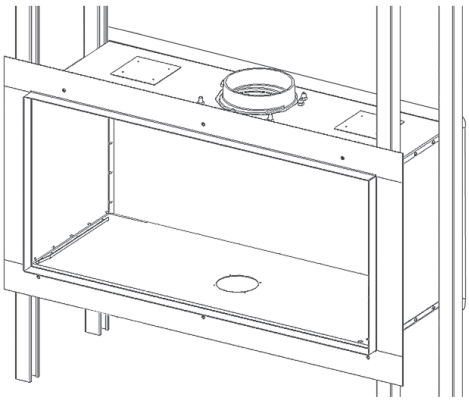




Build the studwork chimney breast to support the cassette.

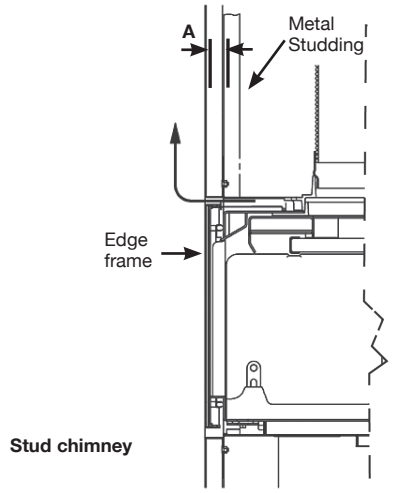
Ensure all clearances to combustible material are maintained, See Pre-Installation.

To prevent cracking ensure no joints above the appliance.



Fit non-combustible board to studwork/frame/masonry and leave enough room for the final skim of heat resistant plaster.

The depth of the Edge flange will vary depending on the model of Studio. To ensure a flush finish the non-combustible board and the final plaster skim must add up to Dimension A, see Diagram and the table below.

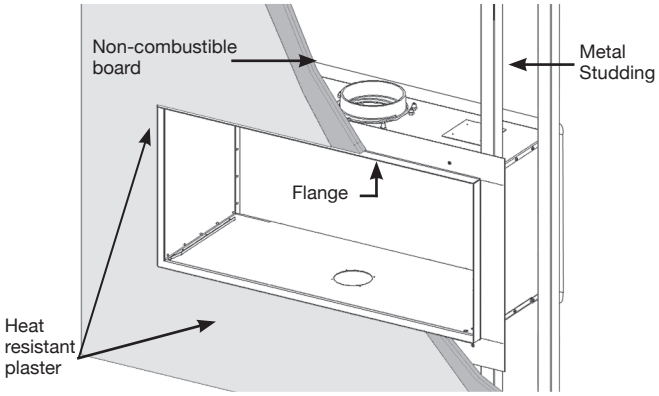


Model	A (mm)
Studio Duplex	34

Standard plasterboard is not suitable

This should extend a minimum of 600mm to the sides and above the appliance.

Apply a heat resistant plaster finish to **at least 900mm above and to the sides of the chimney breast**, making sure it is not too thin or it will crack.

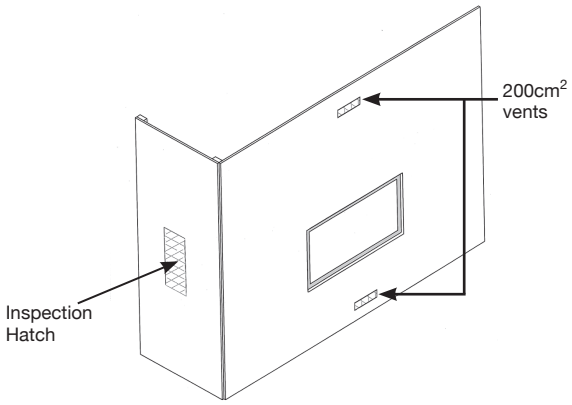


Allow for the connection of the following:

- Electrical services (for fan installation) using the opening in the side of the chimney breast for access.
- The Outside Air Kit (optional)
- Convection Ducting Kit (optional)
- The flue system (see Installation, Flue Assembly)

To finish this installation re-install the inner box.

After commissioning, finish the sides of the chimney breast.



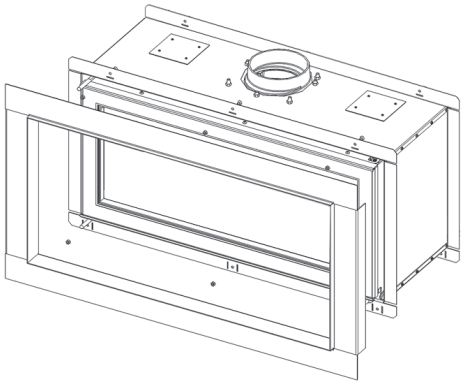
'COOL WALL' INSTALLATION KIT

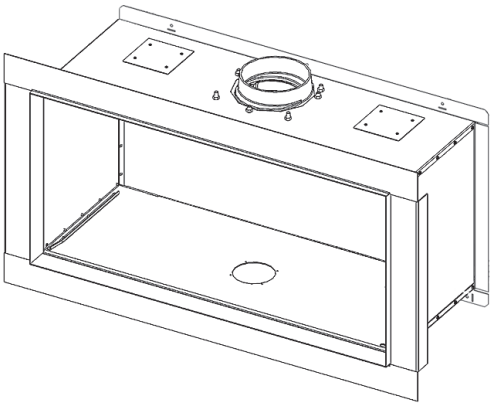
The Cool Wall kit gives the appliance a stylish frameless edge finish but allows the convected heat of the fire to be channelled into the chimney cavity and vented at the top:
Studio Duplex 2 Code No. RVS-2FCWKW.

The Cool Wall installation kit is provided unfinished. This allows the kit to be finished to match the front face decor.

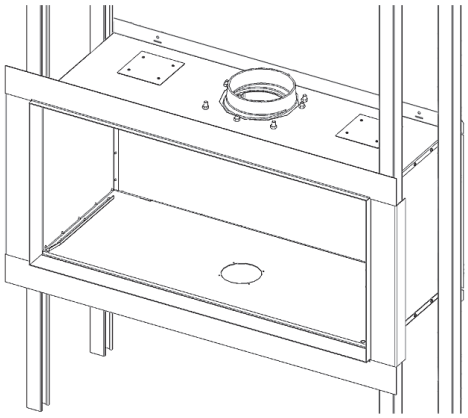
To fit the frame:

Position on appliance and secure as detailed in the frame fitting instructions (PM378).
There is a gap at the top for convected heat to pass behind the finished wall.



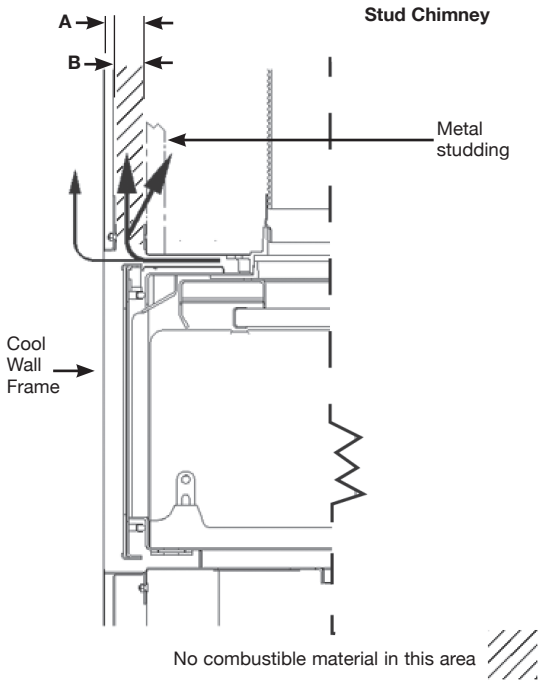


The frame determines the width of the two vertical studwork supports. The kit has been designed so that non-combustible board can be taken right up to the edge of the frame.



When constructing the studwork chimney breast the depth of the Cool Wall flange will vary depending on the model of Studio.

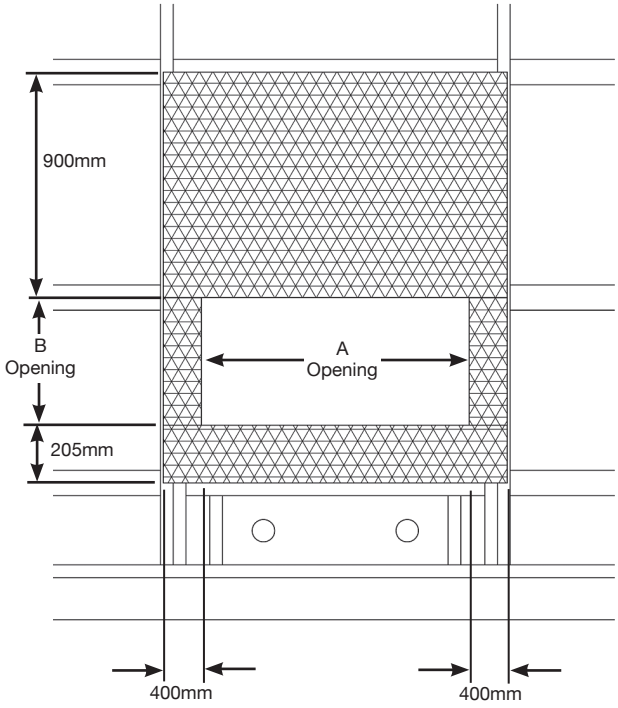
To ensure a flush finish the non-combustible board and the final plaster skim must add up to Dimension A, see Diagram and the table below.
Dimension B is the depth of the convection channel. Do not place combustible material in this area.



Model	A (mm)	B (mm)
Studio Duplex	59	43

Fit non-combustible board to the studwork above the fire.
Leave enough room for a final skim of plaster.

Standard plasterboard is not suitable
This should extend to the whole height of the wall and a minimum of 600mm to the sides of the appliance. To prevent cracking ensure there are no joints above the appliance. No combustible materials are to be placed in the convection aperture.



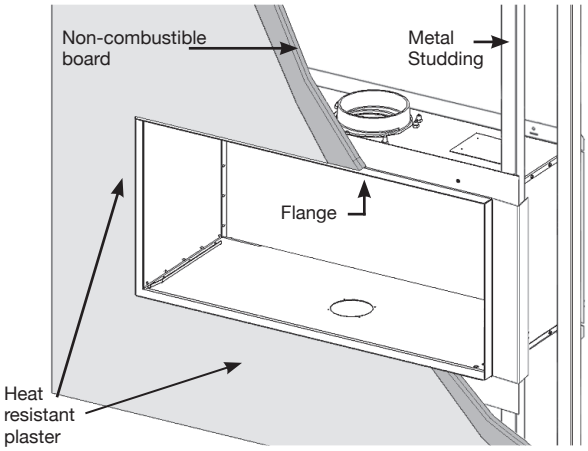
Model	A	B
Studio Duplex	950	452

Do not pack the void around or above the appliance with insulation materials such as mineral wool or vermiculite.

An access hatch must be left in the side of the chimney breast for future servicing and inspection of the flue and appliance.

Apply a heat resistant plaster finish to **at least 900mm above and 400mm to the sides of the chimney breast**, making sure it is not too thin or it will crack.

The top of the chimney breast must have a minimum 200cm^2 vent.



Fit plasterboard to the remaining chimney breast front.

Allow for the connection of the following:

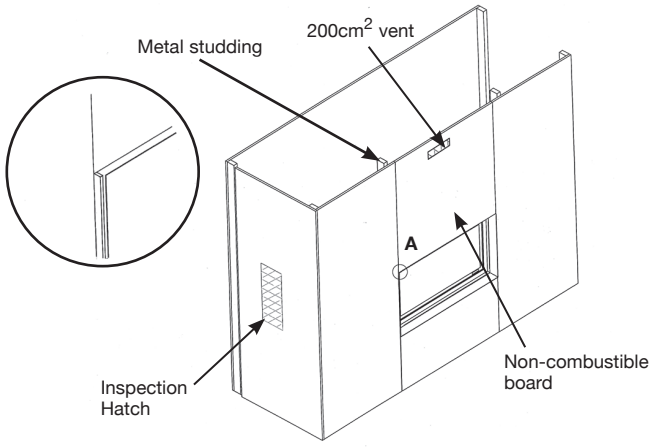
- Electrical services (for fan installation) using the opening in the side of the chimney breast for access.
- The Outside Air Kit (optional)
- Convection Ducting Kit (optional)
- The Flue System (see Installation, Flue Assembly)

Connect the flue system and electrical services if fan is to be fitted using the opening in the side of the chimney breast for access.

Apply a heat resistant plaster finish to **at least 900mm above and to the sides** of the chimney breast

To finish this installation re-install the inner box.

After commissioning, finish the sides of the chimney breast.



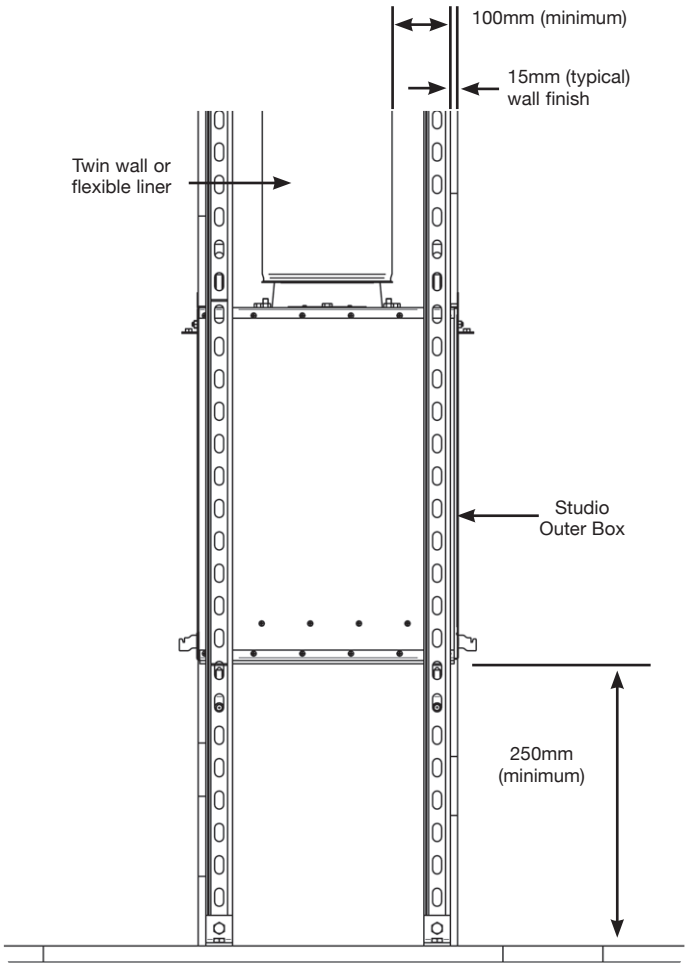
FLUE ASSEMBLY

TWIN WALL FLUE SYSTEM

It is recommended that this appliance is used in conjunction with a twin wall flue system. Stovax have designed their own Professional XQ range and details of this product are available from your Stovax retailer.

Alternatively it can be used with a flexible liner in accordance with manufacturers instructions.

NOTE: The flue liner must be supported in accordance with the manufacturers instructions, there should be no weight on the Outer Box.



Ensure the clearances to combustibles are maintained, see Installation Section.

External Air Kit

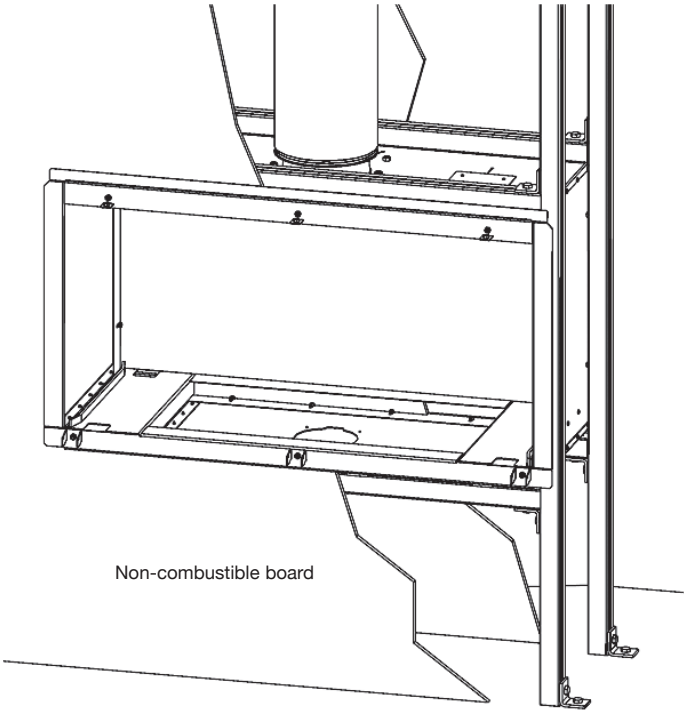
If an External Air kit is to be used with the Duplex it is best to install it at this point. To install the Dedicated Sealed External Air Kit see separate installation instructions (Stovax Code: PM959).

The Stovax Duplex has a dedicated air system that allows the supply of air directly to the appliance without the need for an air brick to be added to the room where it is installed for additional ventilation.
However due to conditions in the current edition of Building Regulations, a registered HETAS installer cannot sign off such an installation. If you wish to avoid fitting an air brick by using the Stovax Dedicated Outdoor Air System, it will be necessary to contact your local Building Control Officer who will be able to sign off the installation provided it meets the requirements of the manufacturer.

Fit non-combustible board to both sides of the studwork and behind the flange to a height of at least 900mm above the opening and 400mm to the sides.

Use the adjustable flange to ensure that there is no gap between the outer box and the boarding.

Apply a heat resistant plaster finish to at least 600mm above and 300mm to both sides of the studwork frame.



FITTING OF INTERNAL COMPONENTS

Once the inner box has been installed the internal components can be fitted.

The Firebricks and Baffle bricks are supplied in a box for safe transportation. It is advisable to carefully remove all of the bricks from the container in order to correctly identify the various types.

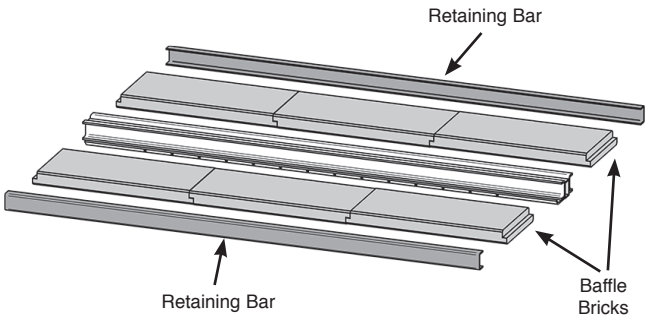
The baffle components must be fitted before the firebricks.

BAFFLE

The appliance is fitted with baffles in the top of the firebox to maintain efficient combustion.

Fit the baffle bricks on each side ensuring that they are in the correct orientation. The cut outs on the side baffle bricks must be at the top.

Place the two outer bricks in position and use them to support the centre.



Push all the bricks together to close any gaps and secure with the retaining bars.

Repeat for the other side.

Now fit the firebricks in the correct order, see relevant section.

When finished pull the baffle bricks down so the bars sit flush on the side firebricks.

The baffle system is designed to give safe and efficient operation of the appliance.
Replace damaged baffles immediately.

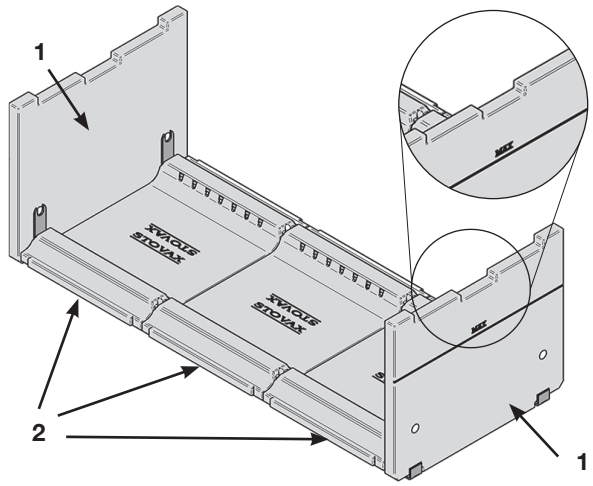
Do not modify the baffle system.
Do not operate with the baffle system removed.

FIREBRICKS

Once the Baffle has been fitted it is possible to install the Firebricks.

The side bricks have part of the Log bar supports attached. These must be fitted and removed at the same time as the bricks.

Install in the following order.
Take care when handling and do not force into position.



To do this:

Fit the side bricks (1) with the Log Guard Supports in place.

The Log Bar Support holes can be used as a finger hold.

Place the base bricks in the firebox (2).

Fit the left and right hand base bricks, then the middle.

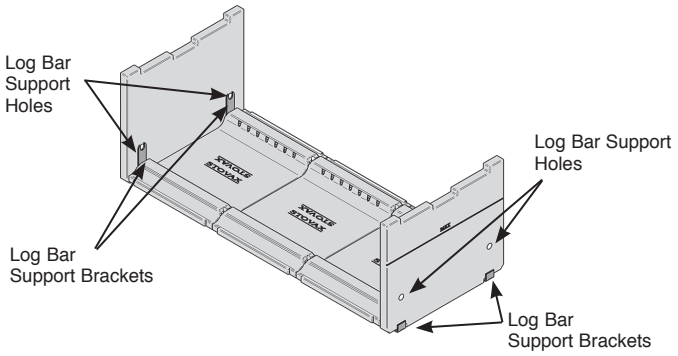
Removal is the reverse of this procedure.

Allow the appliance to cool fully before removing baffle system.

Do not modify firebricks.
Do not operate with firebricks removed.

LOG GUARD

Ensure that the side supports have been fitted at the same time as the side Firebricks.

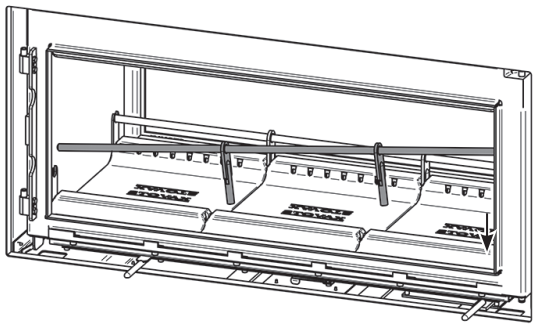


To fit the Log Guards:

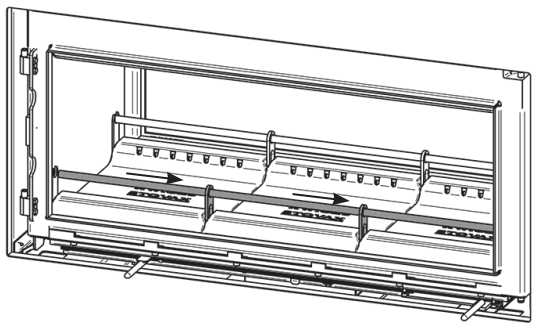
Insert the Log Guard through the front of the appliance at an angle and rotate.

With one end raised place the other end into one of the holes in the side bricks.

Lower the Log Guard and insert the supports into the gaps between the base bricks and into the retaining brackets.



Slide the Log Guard across so both ends locate evenly in the holes in the side bricks.



Repeat on the other side.

Do not use appliance without the log guard in position.

CO ALARMS

All open flued appliances can be affected by temporary atmospheric conditions which may allow fumes to enter the house. **Building regulations require that whenever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling a carbon monoxide alarm must be fitted in the same room as the appliance. Further guidance on the installation of the carbon monoxide alarm is available in the latest edition of**
BS EN50292 and from the alarm manufacturer's instructions.

HETAS recommend the unit is permanently fixed in accordance with the manufacturer's installation instructions or with the guidance contained in Approved Document J where no other information is available.

Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance and chimney system.

COMMISSIONING

To commission:

— Replace the internal components

— Check the door alignment and catch operation and adjust if required (see Maintenance and Servicing).

— Check the soundness of door seals, castings and joints.

— Check the operation of the air controls.

Now carry out a final smoke draw test:

— Warm the flue with a blowlamp, or similar, for about 10 minutes.

— Place a smoke pellet on the centre of the grate, with the air controls open.

— Close the door. Smoke should now be drawn up the flue and be seen to exit from the flue terminal.

— Complete test with all doors and windows closed in the room where the appliance is fitted.

— If there are any extractor fans in adjacent rooms the test must be repeated with the fans running on maximum and with interconnecting doors open.

— Check the effect of ceiling fans during the test.

Finally:

— Explain to the user the safe operation of the appliance, use of the controls and the importance of only using suitable fuels.

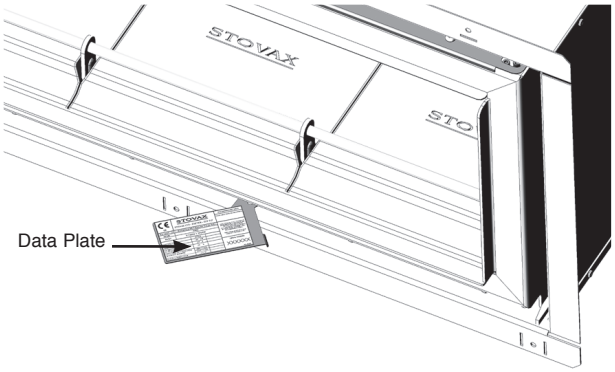
— Ensure that a CO alarm has been fitted and make the user aware of its operation and importance, referring them to the Warning section of the User Instructions.

— Explain the cleaning and routine maintenance requirements.

— Explain the requirement to use a suitable fireguard when children, elderly or infirm persons are near the appliance.

— Record retailer/supplier and installer details in Appliance Commissioning Checklist (see, User Instructions).

— Record serial number in Appliance Commissioning Checklist (User Instructions). The serial number is found on the appliance data plate.



This number is required when ordering spare parts and making warranty claims.

— Give this instruction manual to the customer.

SERVICING

For a complete list of spare parts and accessories contact your Stovax Retailer or visit www.stovaxspares.co.uk

Before the start of the heating season strip, inspect and clean the appliance as detailed:

— Allow appliance to cool.

— Remove all internal parts: baffle, log guard, cast bases and firebricks.
Take care handling firebricks as they can become fragile after a period of use.
— Sweep the appliance at this point if necessary.

— Vacuum clean any remaining ash and debris from the inside of the appliance. Stovax offer a filter/collection attachment for vacuum cleaners to protect them from fire ash: Ash Clean (Stovax Part No. 2091).

— Check the parts for any damage. Replace any damaged parts using genuine Stovax replacements parts.

— Check and clean the firebricks with a soft brush.
Some surface damage will occur during use. The life of the bricks will depend on the type of fuels burnt and the level of use.

Replace damaged bricks as soon as possible.

— Re-fit cleaned internal parts.

— **Use Stovax Glass Cleaner (Stovax No.4103) which is better formulated for this application.**

Do not use abrasive cleaners to remove tar or soot deposits from the glass.

— Fit new door rope seal.

— Lightly oil the door catch mechanism and hinge pins. Avoid getting oil onto the door seals and glass.

— To refresh painted finishes a touch up spray is available.
Contact your Stovax retailer quoting the serial number found on the appliance data badge.

Use genuine Stovax replacement parts to keep the appliance in safe, efficient working order. This is a list of the maintenance products that may be required:

Products to assist in the cleaning and maintenance of your Studio Duplex are available online at **www.stovax.com** or from your local Stovax dealer which, along with regular maintenance and use of correct fuels, will keep the appliance in the best possible condition.

For more information about the Stovax Group products please visit our web site at **www.stovax.com**

Burn at a low temperature for the first day of use after any maintenance. This allows the seals, fixing glues and paint to fully cure.

During this time the appliance may give off some unpleasant odours. Keep the room well ventilated to avoid a build-up of fumes.

Your Stovax dealer can carry out service and maintenance.

TASK	PRODUCT NAME	NO.
Preventing build-up of creosote in flue	Protector (15 sachets)	7002
	Protector (1kg tub)	7025
Sealing flue pipe joints	Fire Cement (500g tub)	2024
	Fire Cement (600g cartridge)	2021
Re-painting	Touch Up Paint (150ml aerosol)	2056
Protecting your hands	Heat resistant leather gloves	4008 4027 - Long
Thermic seal glue	(50ml bottle)	5037
Cleaning Glass	Stovax Glass Cleaner	4103
Ash Clean	Vacuum Cleaner Attachment	2091M

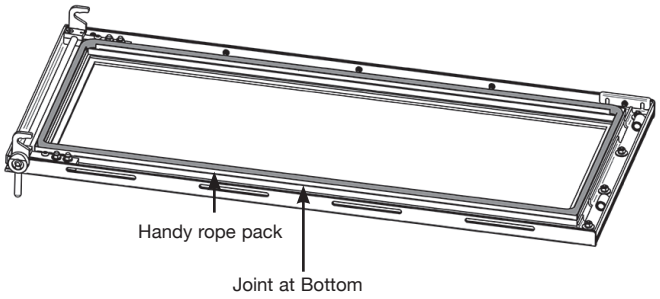
SERVICING AND SUPPORT

STOVAX GAZCO
SERVICE & SUPPORT ENGINEER TEAM

Servicing and Support
To keep your appliance looking and performing at its best, it must be serviced annually. This service must be undertaken by a suitably qualified individual and your retailer can organise this for you. Alternatively, Stovax offer a manufacturers premium service with our friendly team of qualified engineers which can be booked at www.stovax.com/support

IMPORTANT: Stovax provide gauntlet style gloves for the users protection from heat and any sharp edges when using the appliance.
For your safety ensure that gloves are always worn when opening, operating, refuelling or handling internal metalwork.

FITTING A NEW DOOR SEAL



To maintain the safe use of your appliance you need to replace damaged or worn door sealing rope. To complete this operation remove the door see Removal of the Door in the Pre-Installation section.

Remove the old rope and scrape old glue from the locating groove. Clean the locating groove with a clean dry cloth to remove all old dust and debris.

Squeeze a generous bead of fresh Stovax Thermic Seal glue into the rope locating groove.

Press the new Stovax rope into the locating groove, placing the joint in the middle of the top edge of the door using tape supplied for the ends.

Refit the door and close the door to apply pressure to the new rope.

Leave the appliance closed for at least 12 hours before lighting the appliance and using at a low output for approximately one day.

Using the appliance with a damaged door seal can cause dangerous fumes to enter the room, or the appliance to over fire, resulting in damage.

ADJUSTING DOOR HINGES

To maintain the safe use of your appliance, you may need to adjust the door hinges to ensure the safe, correct closing of the door. The door must be horizontal/level with the top of the inner box and the door catch engages correctly.

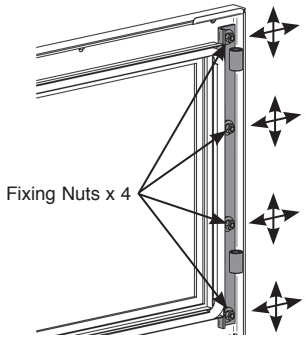
Adjustment is possible in 2 places:

- Door Hinge Assembly
- Hinge Blocks on Inner Box

Open the door to give access to these 2 positions.

Door Hinge Assembly

Use a 10mm socket to slightly loosen the fixing nuts on the Door Hinge Assembly.



Loosening the Door Hinge Assembly allows for fine vertical and horizontal adjustment of the door position. This may require a trial and error approach to find the correct position.

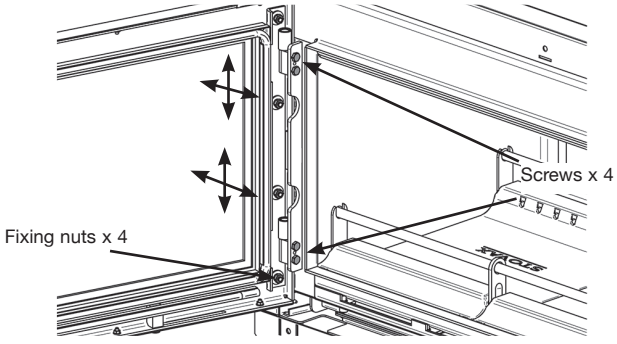
Ensure the door is horizontal before tightening the fixing nuts.

Hinge Blocks on Inner Box

Using a 10mm A/F spanner slightly loosen the fixing nuts inside the stove.

This will give vertical and horizontal adjustment which may need a trial and error approach to find the correct position.

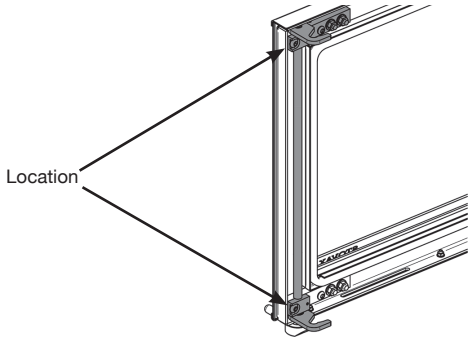
The door must be horizontally level.



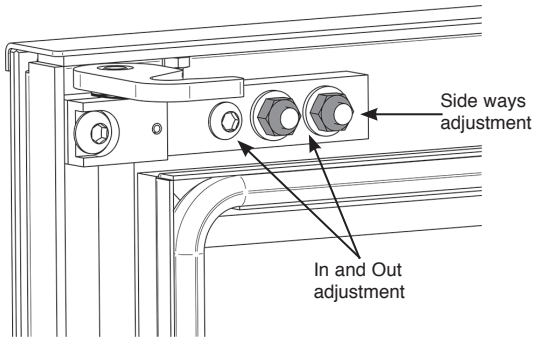
ADJUSTING THE DOOR CATCH

To maintain the safe use of your appliance you may need to adjust the door catch to ensure the safe, correct closing of the door. If the door hinges have been adjusted the door catch may need adjustment.

The catches are located at the top and the bottom of the right side of the door.



The top and bottom catches will need to be adjusted separately and in the same manner.
The catch block can move in two directions.



Sideways Adjustment

Using a 10mm A/F Spanner loosen the 2 nuts that hold the catch block to the door.

Do not remove the nuts completely.

This will allow some movement left or right to suit.

Tighten the nuts and recheck the catch operation.

In and Out Adjustment

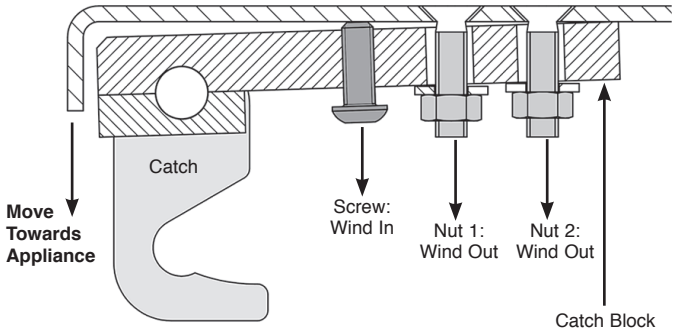
Loosening or tightening the M6 screw and the nuts on the catch block will cause the catch to move in or out from the door and allow the hook to gain better purchase on the door rollers.

Do not remove screw or nuts completely.

To move Door Catch in

Loosen Nuts 1 & 2.
Wind screw **IN** until the Door Catch is in desired position.
Tighten Nuts 1 & 2 down to Catch Block.

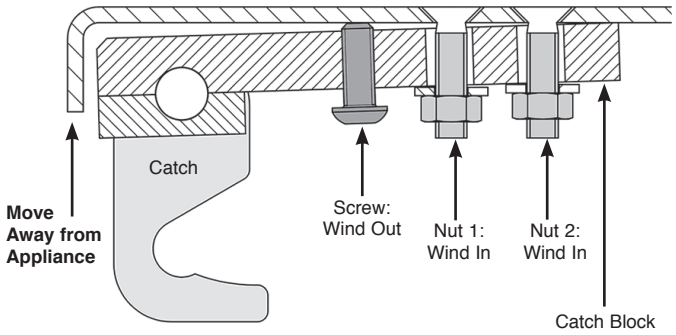
View from above Appliance door



To move Door Catch Out

Loosen Nuts 1 & 2.
Wind screw **OUT** until the Door Catch is in desired position.
Tighten Nuts 1 & 2 down to Catch Block.

View from above Appliance door



DO A PAPER TEST

To do a paper test shut a piece of paper in the door at the edges to test how well the rope seal stops the air from entering the appliance. If the paper can be pulled out easily then the seal is not sufficient and the rope must be replaced.

Repeat this around all the edges of the appliance.

LEGAL REQUIREMENTS

Before installation and/or use of this appliance please read these instructions carefully to ensure that all requirements are fully understood.

The appliance must be fitted by a registered installer, or approved by your local building control officer.

It is very important to understand the requirements of the national Building Regulations and standards, along with any local regulations and working practices that may apply. Should any conflict occur between these instructions and these regulations then the regulations must apply.

Your local Building Control Office can advise regarding the requirements of the regulations.

Works must be carried out with care to meet the requirements of Health and Safety and comply with the Health and Safety rules, and any new regulations introduced during the lifetime of these instructions. Particular attention should be drawn to:

—**Handling**: The appliance is heavy. Adequate facilities must be available for loading, unloading and on site handling.
—**Fire Cement**: Some fire cement is caustic and must not come into contact with the skin. Protective gloves must be worn. Wash hands thoroughly with plenty of water after contact with skin.
—**Asbestos**: This appliance contains no asbestos. If there is the possibility of disturbing any asbestos in the course of installation seek specialist guidance and use appropriate equipment.
—**Metal Parts**: Take care when installing or servicing the stove to avoid personal injury.

A faulty installation can cause danger to the inhabitants and structure of the building.

For users of this appliance:

Your building insurance company may require you to inform them that a new heating appliance has been installed on your property. Check that your cover is still valid after installing the appliance.

FLUE OR CHIMNEY

The flue or chimney system must be in good condition.
It must be inspected by a competent person and passed for use with the appliance before installation.

Products of combustion entering the room can cause serious health risks.

The following must be checked:

— The construction of the masonry chimneys, flue block chimneys and connecting flue pipe system must meet the requirements of the Building Regulations.

— A flexible flue liner system can be used if certified for use with solid fuel systems and installation complies with manufacturer's instructions and Building Regulations.

The flue liner must be replaced when an appliance is replaced, unless proven to be recently installed and in good condition.

— If it is necessary to fit a register plate it must conform to the Building Regulations.

— The minimum height of the flue or chimney must be 4.5m from the hearth to the top of the flue, with no horizontal sections and a maximum of 4 bends. Bends must have angles of less than 45 degrees from the vertical.

—There should be at least 600mm of vertical flue pipe above the appliance before any bends are introduced.

— Ensure the connecting flue pipe is kept a suitable distance from any combustible material and does not form part of the supporting structure of the building.

— The installer must ensure the flue pipe diameter is not less than the diameter of the outlet of the appliance and does not narrow to less than the size of the outlet at any point in the system.

— Make provision to remove the appliance without the need to dismantle the chimney.

— Any existing flue must be confirmed as suitable for the new intended use as defined in the Building Regulations.

— The flue or chimney systems must be inspected and swept to confirm the system is structurally sound and free from obstructions.

— If the chimney is believed to have previously served an open fire it must be swept a second time within a month of regular use after installation to clear any soot falls that may have occurred due to difference in combustion levels.

— The flue exit from the building must comply with local building control rules.

—Chimney heights and/or separations may need to be increased in particular cases where wind exposure, surrounding tall buildings, high trees or high ground could have adverse effects on flue draught.

— Do not connect or share the flue or chimney system with another heating appliance.

Do not connect to systems containing large voids or spaces over 230mm square.

Suitable access must be provided to enable the collection and removal of debris.

The flue must be swept and inspected when the appliance is installed.

Flue Draught

The flue draught must be checked with all windows and doors closed and any extraction fans in this, or adjoining rooms, running at maximum speed (see Installation Checklist for ventilation requirements).

TWIN WALL FLUE SYSTEM

If this appliance is to be used in conjunction with a twin wall flue system then Stovax recommend the use of their Professional XQ range. Details of this product are available from your Stovax retailer.

VENTILATION

Many older buildings are sufficiently ventilated by natural leakage of air to provide suitable air supply for an appliance of 5kW output or less.

Modern building techniques have reduced the amount of air that leaks in or out of a house. A modern construction with an air tightness of less than 5m3 per hour per m2 requires an air vent for **ALL** solid fuel appliances including those with a rated heat output of less than 5kW.

NOTE: The air leakage of a modern house is tested at the completion of construction and a certificate issued confirming this.

This appliance requires a constant supply of air to maintain proper combustion and effective flue performance.

An inadequate air supply can result in poor combustion and smoke entering the room which is potentially dangerous.

This supply of air can come from either:

— Purpose provided ventilation.

— Some Stovax appliances can also be fitted with an optional outdoor air kit which allows air to be drawn in from the outside.

The amount of air required must comply with local building regulations and the rules in force.

If spillage is detected during commissioning then there may be insufficient natural ventilation and an additional air supply will be necessary.

Permanent air vents should be non-adjustable and positioned where they are unlikely to be become blocked.

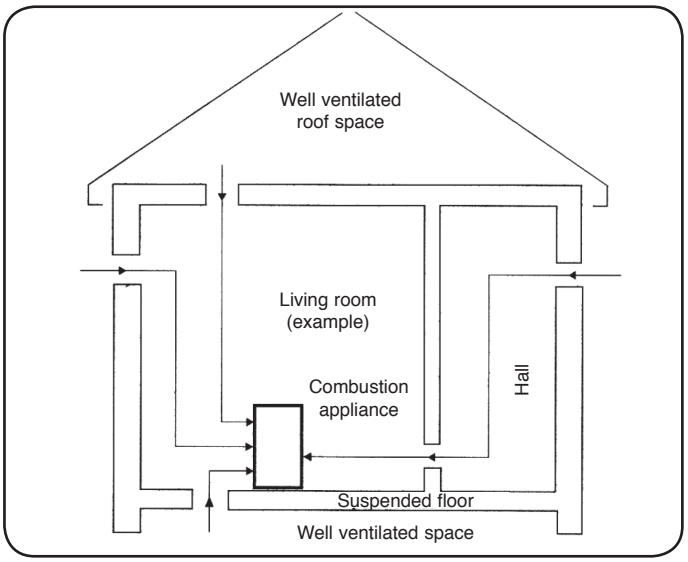
If vents open into adjoining rooms or spaces there must be an air vent of at least the same size direct to the outside.

Site the vents where cold draught is unlikely to cause discomfort. This can be avoided by placing vents near ceilings or close to the appliance (See diagram).

Extractor fans or cooker hoods must not be placed in the same room or space as this can cause the appliance to emit fumes into the room.

Increase air supply provisions where a room contains multiple appliances.

If any checks reveal problems do not proceed with the fitting of the appliance until they have been rectified.



BUILDERS OPENING

Many fireplace openings have a supporting lintel. Remove the covering plaster to identify it's position before starting any constructive work. Do not remove constructional lintels without making provision to support the remaining structure of the building. The appliance must not form any part of the supporting structure.

The chimney/flue must have a sealed connection to the appliance flue spigot.

The structure of the builders opening will reach high temperatures. Use insulating blockwork to reduce the heat transfer to the external walls.

Take care when finishing the chimney breast and surrounding area. The conducted and convected heat emitted by the appliance could be high enough to crack normal plaster. Use a high temperature plaster, or face the area with a suitable non combustible board avoiding any joints above the appliance. New plaster should be fully dried before the appliance is used, or cracking could occur.

If you are in any doubt about your ability to produce a safe opening contact your Stovax dealer for professional advice.

FIRE SURROUND CLEARANCES

We recommend you obtain expert advice before proceeding with work of this nature.

Some finishes may discolour with heat and some lower quality products may distort, or crack, when in use.

If stone / granite / marble or any other natural material is used to construct the fire surround, or any part of it, provision should be made for expansion and movement of the parts due to heating and cooling.

If you are in any doubt about the installation requirements, or suitability of fire surrounds contact your Stovax dealer.

All fire surrounds should be suitable for use with solid fuel heating products.

MINIMUM HEARTH DIMENSIONS

The appliance must stand on a non-combustible constructional hearth which is at least 125mm thick with the minimum dimensions as shown in diagram.

As this appliance can be installed in an elevated setting it is recommended to increase the 225mm hearth depth to safely contain any falling logs or embers. The higher the appliance is installed the deeper the hearth should be to protect the floor.

The building must have a suitable load-bearing capacity for the hearth and appliance. Consult a structural engineer for advice before proceeding.

When fitting into an existing hearth check that the appliance complies with current construction regulations and is at least the minimum sizes shown.

If there is no existing fireplace or chimney it is possible to construct a suitable non-combustible housing and hearth setting. The flue must be installed in accordance with all local and national regulations and current rules in force.

Check if adding a new chimney to your property requires planning permission.

Some houses are built using a timber frame construction with high levels of thermal insulation. Isolate the appliance from combustible materials, and provide sufficient ventilation to maintain the heating efficiency.

FITTING APPLIANCES ON A BOAT

If an appliance is to be fitted in a boat it must be done in accordance with the latest edition of BS 8511 (Code of Practice for the Installation of Solid Fuel Heating Appliances on Boats). The Code covers the design, installation and operation of solid fuel heating appliances that are suitable for fitting into inland waterway boats, and gives guidance on product selection, design considerations, installation requirements, inspection and testing, as well as maintenance and safe use tips.

Consideration should also be given to the requirements of the Boat Safety Scheme (BSS) to ensure the boat's insurance remains valid.

The appliance should only be installed by a competent person with experience of the latest edition of BS 8511 and the Boat Safety Scheme (BSS).

Secure the product to a suitably constructed non-combustible hearth.

All open flued appliances can be affected by temporary atmospheric conditions which may allow fumes to enter the boat. An electronic carbon monoxide detector conforming to the latest edition of BSEN50292 must be fitted and maintained.

Failure to safely install the appliance could endanger the boat and persons on board.

Organisations authorised to certify competence in the installation of domestic solid fuel appliances (Competent Persons Scheme):

APHC - Association of Plumbing and Heating Contractors (Certification) Ltd.
www.aphc.co.uk

BESCA - Building Engineering Services Competence Accreditation Ltd.
www.besca.org.uk

HETAS - Heating Equipment Testing and Approval Scheme Ltd.
www.hetas.co.uk

NAPIT - National Association of Professional Inspectors and Testers Ltd.
www.napit.org.uk

NICEIC - NICEIC Group Ltd.
www.niceic.org.uk

OFTEC - Oil Firing Technical Association
www.oftec.co.uk

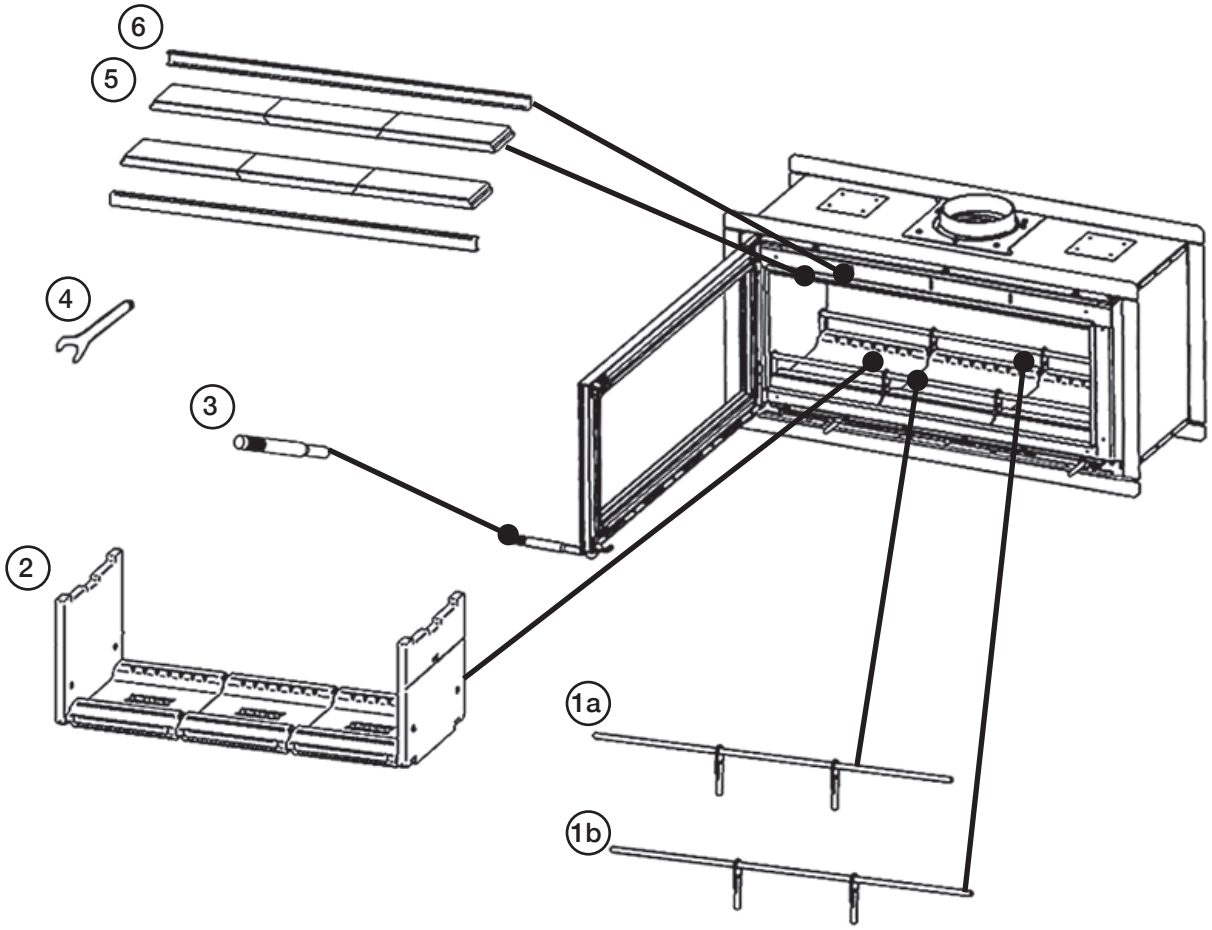
HETAS Approved Chimney Sweeps:

NACS - The National Association of Chimney Sweeps
www.chimneyworks.co.uk

APICS - The Association of Master Chimney Sweeps Ltd.
www.apics.org

The Guild of Master Chimney Sweeps -
guildofmasterchimneysweeps.co.uk

SPARE PARTS

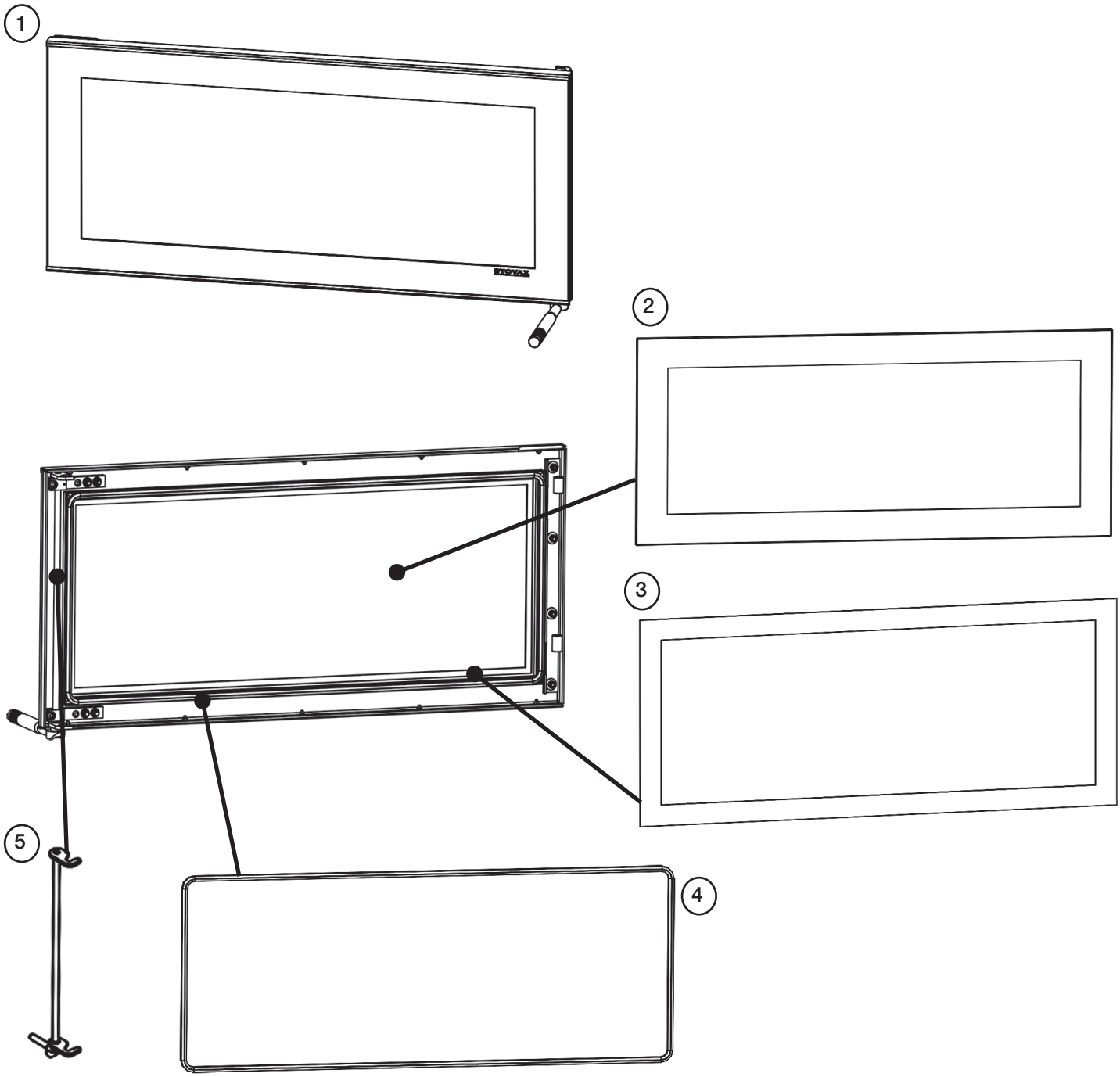


Ref.	Description	Part Code
1a	Log Guard	RVS-ME601353
1b	Log Guard Closed Door	RVS-ME601353
2	Brick Assembly	RVS-MEC10433
3	Tool Handle	RVS-ME600213
4	Spanner	RVS-ME600751
5	Baffle Brick	RVS-RA501946
6	Baffle Support	RVS-CE7855

Due to continual technical improvements please check online or with your Stovax retailer for the most up to date parts lists.

Only use Genuine Stovax spares when servicing your appliance.
All of our essential spare parts and consumable items are available to purchase from our webshop at www.stovaxspares.com.

DOOR ASSEMBLY

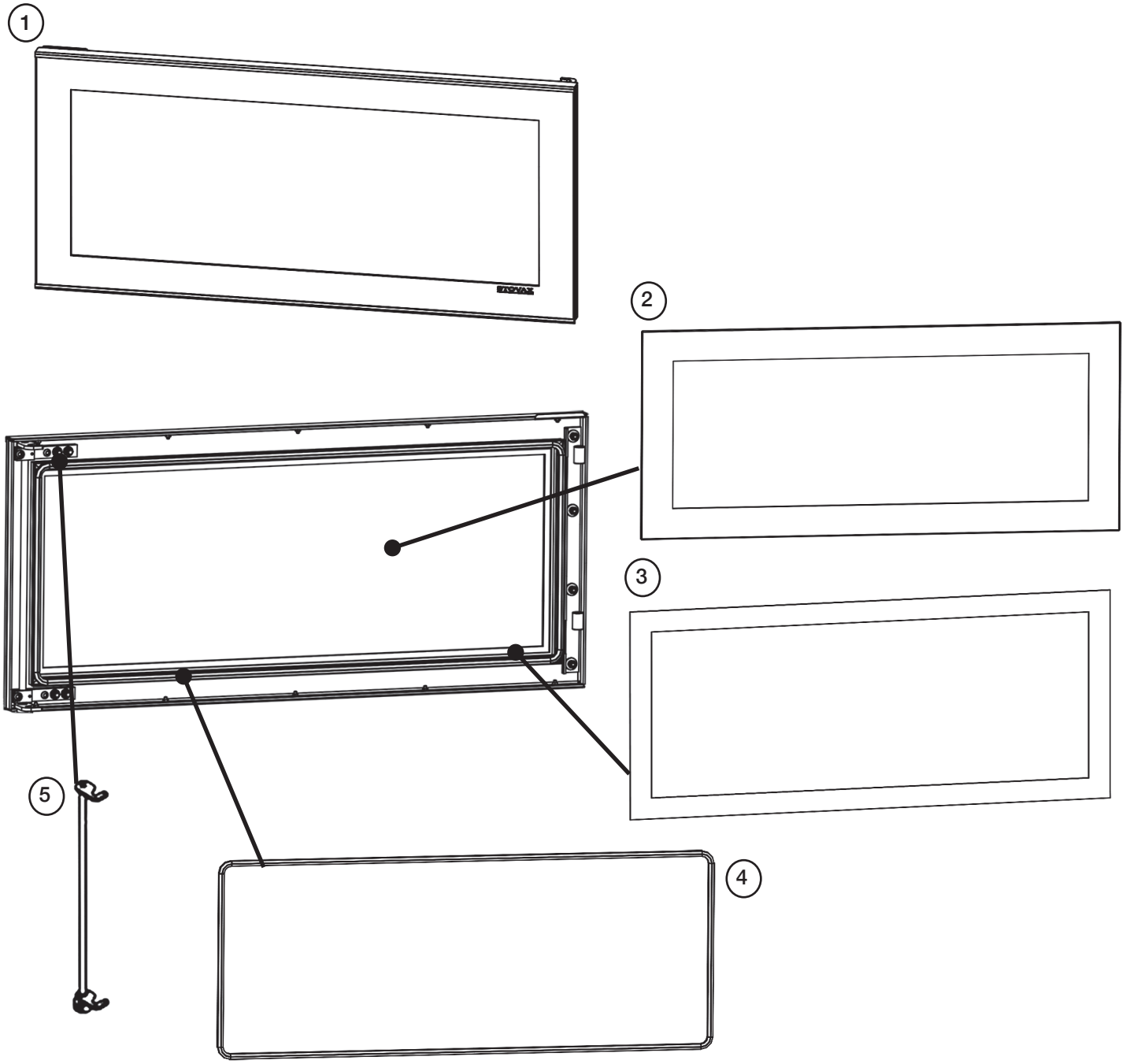


Ref.	Description	Part Code
1	Complete Door Assembly	RVS-MEC10103
2	Door Glass	CE7477
3	Glass Rope	4197 / 5705
4	Door Rope	4200F / 5702
5	Catch Assembly	RVS-MEC10010

Fixings required
These can be purchased via a local hardware merchant:

M6 x Button Head x 2 (Door Catch)
M6 x 14 (Door Catch)
M6 Nut x 4 (Door Catch)

DOOR ASSEMBLY - CLOSED DOOR



Ref.	Description	Part Code
1	Complete Closed Door Assembly	RVS-MEC10352
2	Door Glass	CE7477
3	Glass Rope	4197 / 5705
4	Door Rope	4200F / 5702
5	Catch Assembly	RVS-MEC10353

Fixings required
These can be purchased via a local hardware merchant:

M6 x Button Head x 2 (Door Catch)
M6 x 14 (Door Catch)
M6 Nut x 4 (Door Catch)

PRODUCT FICHE - INFORMATION REQUIREMENT FOR SOLID FUEL LOCAL SPACE HEATER

Model	Studio Duplex
Direct Efficiency Class	**A**
Direct Heat Output (kW)	**9.2**
Indirect Output (kW)	**-**
Energy Efficiency Index (EEI)	**100**
Useful Energy Efficiency at Nominal Heat Output	**75%**
Safety Precautions	**Appliance must be installed, Used and Maintained in accordance with the manufacturers instructions supplied**

PRODUCT MATERIAL INFORMATION

Metal	Steel	Can be taken to a local recycling centre for reuse to reduce waste going to landfill.
	Cast iron	
Glass		Can be taken to a local recycling centre for reuse to reduce waste going to landfill.
Vermiculite linings		Non-hazardous material. Vermiculite can be crushed up and used for plant bedding and ash used for composting or disposed of at a local recycling centre for reuse to reduce waste going to landfill.
Rope seals		Rope seals are made from Refractory Ceramic Fibre (RCF), a material which is commonly used for this application. Protective clothing is not required when handling these articles, but it is recommended to follow normal hygiene rules of not smoking, eating or drinking in the work area and always wash hands before eating or drinking. When servicing the appliance it is recommended that the replaced items are not broken up, but are sealed within heavy duty polythene bags and labelled as RCF waste. RCF waste is classed as stable, non-reactive hazardous waste and may be disposed of at a licensed landfill site.
Electrical components	(Fan kits etc if applicable)	Dispose of at a local recycling centre in accordance with the WEEE directive.

SERVICE RECORDS

1ST SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

2ND SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

3RD SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

4TH SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

5TH SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

6TH SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

7TH SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

8TH SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

9TH SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

10TH SERVICE

Date of Service:.....

Next Service Due:.....

Signed:.....

Dealer's Stamp/HETAS Registration Number

FOR ENQUIRIES IN THE U.K (EXCLUDING NI):

Stovax Ltd, Falcon Road, Sowton Industrial Estate, Exeter, Devon, England EX2 7LF

Tel: (01392) 474011 E-mail: info@stovax.com www.stovax.com

FOR ENQUIRIES IN EUROPE (INCLUDING NI):

Stovax Heating Group (NI) Ltd (Comp reg NI675194), 40 Linenhall Street, Belfast, BT2 8BA DX 400 NR Belfast Tel: +44 (0)1392 261990 E-mail: northernireland@stovax.com

STOVAX

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