

town  country fires

ALANDALE SMOKE CONTROL ECO
WOODBURNING STOVE
INSTALLATION AND USER INSTRUCTIONS



Read these instructions carefully before installation and use.
These instructions should be retained by the user for future reference.

The Alandale stove has a nominal heat output of 4.6 kW and a weight of 70kg. The flue gas mass flow 4.5g/s for wood logs. The mean flue gas temperature directly downstream of the flue spigot at nominal heat output is 261 degrees C (Wood). The stove is designed as a closed appliance and is capable of intermittent operation.

Tested Wood Net efficiency = 78.5%

WARNING

The stove must be installed to comply with Health and Safety at Work Act 1974 and to all local Building Regulations, including those referring to National and European standards. These need to be complied with when installing the appliance.

The Alandale must be installed to British Standard BS 8303, Code of Practice for installation of domestic heating and cooking appliances burning solid mineral fuel, Building Regulations, Local Authority Byelaws and other specifications/regulations as they affect the installation of the appliance.

Ensure that the flue pipe diameter is not less than the 125mm diameter outlet on the appliance.

There must not be an extractor fan fitted in the same room as the Alandale Smoke Control.

If there is a possibility of disturbing asbestos during the installation it is necessary to take the appropriate steps to protect the installer.

Fire cement is caustic and protective gloves should be worn.

The chimney must be swept and examined for soundness and suitability before the stove is installed. Remedial action should be taken if required, seeking expert advice if necessary. Where the chimney is believed to have previously served an open fire installation it is possible that the higher flue gas temperature from a closed appliance may loosen deposits that were previously firmly adhered, with the consequent risk of flue blockage.

It is therefore recommended that the chimney be swept a second time within a month of regular use after installation.

CO Alarms:-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 BS EN 50292:2002 and from the alarm manufacturer's instructions.

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.

The Clean Air Act 1993 and Smoke Control Areas

Under the Clean Air Act local authorities may declare the whole or part of the district of the authority to be a smoke control area. It is an offence to emit smoke from a chimney of a building, from a furnace or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an "unauthorised fuel" for use within a smoke control area unless it is used in an "exempt" appliance ("exempted" from the controls which generally apply in the smoke control area).

In England appliances are exempted by publication on a list by the Secretary of State in accordance with changes made to sections 20 and 21 of the Clean Air Act 1993 by section 15 of the Deregulation Act 2015. In Scotland appliances are exempted by publication on a list by Scottish Ministers under section 50 of the Regulatory Reform (Scotland) Act 2014. Similarly, In Northern Ireland appliances are exempted by publication on a list by the Department of Agriculture, Environment and Rural Affairs under Section 16 of the Environmental Better regulation Act (Northern Ireland) 2016. In Wales appliances are exempted by regulations made by Welsh Ministers.

Further information on the requirements of the Clean Air Act can be found here:
<https://www.gov.uk/smoke-control-area-rules>

Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirements.

The Alandale Eco Design Smoke Control wood-burning stove has been recommended as suitable for use in smoke control areas when burning dry seasoned wood logs (less than 20% moisture), the air control on the stove is factory set to prevent closure of the rear air vent beyond 10mm open position.

Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirement

Technical Information

Appliance Alandale ECO SC		
Fuel		Wood
Total Efficiency	%	78.5
Nominal heat output	kW	4.6
Mean CO emission (at 13 % O ₂)	%	0.11
Mean flue gas temperature	°C	261
Flue gas mass flow	g/s	4.5
Mean C _n H _m (at 13 % O ₂)	Nmg/m ³	89
Mean NO _x (at 13 % O ₂)	Nmg/m ³	93
DIN Plus dust (at 13 % O ₂)	Nmg/m ³	22
Appliance weight	kg	70

UNPACK THE STOVE

Carefully cut the straps and lift the box up over the top of the stove. Remove the packing from round the outside of the stove, **it is important to protect the paint finish from any damage, water, dust or fire cement.** Using a 17mm spanner, remove the two bolts attaching the stove to the pallet, and then replace the bolts into the stove legs, these are used as levelling bolts if required. Open the stove door and remove the packaging from inside the stove, there is some behind the baffle. Remove the bag inside the stove, this contains the operating tool, instructions and a pair of stove gloves.

When installing the Alandale stove please ensure that both the lower and upper baffles are pushed to the back of the stove. There should be no gap at the back when the baffles are in their correct position.

CLEARANCES

The Alandale Smoke Control needs to be sited next to and on a non-combustible surface. A minimum clearance of 150mm at the sides and at least 300mm above and 50mm from the back of the stove body will allow air circulation and not impede the performance of the stove. If it is necessary to site the stove near a combustible surface a minimum of 350mm at the back and 350 mm at the sides must be maintained. It is a requirement that this appliance is installed on a solid, level, non-combustible hearth conforming to current Building Regulations.

This appliance has been tested for hearth temperatures and the maximum temperature was 51 degrees C so is also suitable for a 12mm hearth.

INSTALLATION

A minimum flue draught of 24 Pa is required for nominal heat output. As referred to in document J of the Building Regulations, no purpose provided ventilation is normally required for the Alandale stove. It is important that any inlet grilles are so positioned that they are not liable to blockage. The Appliance must be installed on a floor with an adequate load-bearing capacity. If an existing construction doesn't meet the prerequisite, suitable measures (e.g. load distributing plate) shall be taken to achieve it. It is important that any inlet grilles are so positioned that they are not liable to blockage.

It is essential that the stove has adequate air supply for combustion and ventilation. Apertures provided for this purpose shall not be restricted.

Please note where the external air kit is fitted an air vent is still required in the same room as the stove depending on air tightness of the room, please refer to Building Regulations Part J

The flue collar is already fixed to the top of the stove.

The Alandale smoke control stove requires a Class 1 chimney of it's own, a shared chimney will not be suitable. The chimney must be sound, free from leaks and swept before installation. If the chimney requires lining, a lining must be used which is suitable for wood and solid fuel, with a minimum of 125mm internal diameter. A metre of flue pipe should be used from the stove before the chimney lining, and the lining must be installed to manufacturers' instructions. Alternatively if there is no chimney then an insulated stainless steel flue may be used to BS EN 15287-1:2007+A1:2010 with a minimum of 125mm internal diameter and must be installed to manufacturers' instructions and to relevant Building Regulations. The length of the chimney or flue must be at least 4.5 meters from the top of the stove and must finish in a down draught free area.

A stove must not be installed into a room where there is an extractor fan or fumes could be pulled down the chimney.

It is essential to provide a facility for sweeping the chimney - this may be done by installing a soot door in the brickwork or providing an access plate in the register plate or flue pipe. With the flue fitted from the top of the stove the baffles can be removed to sweep up through the stove.

To connect the flue pipe to an existing chimney a register plate is required, preferably made of metal. A collar is welded to the underside of the register plate so that the flue pipe can be placed into the spigot on top of the stove and round the outside of the collar on the register plate, so forming a 'funnel' effect. In this way any moisture running down the chimney will be directed back into the stove instead of seeping out onto the top of the stove.

Connect the stove to the chimney using vitreous enamelled flue pipe from the top of the

stove. Make sure that all joints and connections are well sealed.

TO INSTALL EXTERNAL AIR SUPPLY

Put one jubilee clip over the flexi vent pipe. Attach the bracket to the air intake at the rear of the stove with the bolts provided, Push the vent pipe onto the rear air outlet on the stove and tighten the jubilee clip. Drill a 100mm hole through the wall with a core drill and push the vent pipe through the wall, cutting to correct length. Put the second jubilee clip round the vent pipe then fasten to louvre grill. Back fill round the outside of the vent pipe with insulating material to prevent draught getting into the house. Then fasten the louvre grill onto the wall.

When installation is complete allow a suitable time for fire cement and mortar to dry, light a fire and make sure all joints are sealed. The stove is painted with a high temperature paint finish. The paint will be cured when most surfaces have reached about 246 degrees C. During this burn off period you will notice an unpleasant smell; you should not touch or wipe the paint during this period as it will be soft and may mark. The room should be well ventilated, children and pets should be kept away. Do not use water to clean the stove, either before or after it is cured.

TO INSTALL EXTERNAL AIR SUPPLY WITH REMOTE CONTROL

WARNING – DO NOT FIT ANY OF THE BATTERIES UNTIL INSTALLATION IS COMPLETE

Put one of the jubilee clips provided over the flexi vent pipe. Push the vent pipe onto the rear air outlet on the stove and tighten the jubilee clip. Drill a 100mm hole through the wall with a core drill and push the vent pipe through the wall.

Take the cover off the stainless steel air intake box by undoing the two rear screws at either side. Feed the 1.5m braided lead through the wall into the stove position. Connect the flexi air intake pipe to the back of the stove using the clip provided. Feed the flexi pipe through the wall, gently pushing the stove into place and connect the outside air vent onto the metal tube connected to the back plate. Wrap the 13mm ceramic rope provided round the pipe and place silicone sealer round the outside of the back plate. Screw the back plate to the wall and replace the cover.

Connect the receiver box to the cable near the stove, insert 4 x AA batteries. Place the 9v battery into the handset.

To open the air vent press the smallest button on the handset at the same time as the button next to the arrow pointing upwards. To close the air vent, just press the button next to the arrow pointing downwards.

TURBO BURNER

There is a Turbo Burner which brings air in allowing plenty of oxygen into the rear and top of the stove, thus burning off gases which normally do not ignite. This gives the stove more efficiency and better combustion, less pollution. The turbo burner is built in and needs no adjustment.

LIGHTING THE STOVE

When ready to light the stove for the first time, open the door and make sure that everything is removed from inside the stove and open the lever below the door by moving the lever to the left, this is operated by hand with a glove or by foot. First burn some newspaper in the stove, with the door closed to warm the flue, as there may be down draught initially. The temperature in the flue has to be increased to change the down draught to up draught. If down draught persists, try burning a blow torch in the stove, facing the flue for a minute or two. If there is a soot door fitted, try warming the flue through the soot door. If the stove has not been lit for a while the chimney should be checked for blockages before lighting.

When ready to light the stove, put a small piece of fire lighter, about 25mm square is big enough light with a match and then add small sticks taking care not to smother the flames.

When the sticks are well alight add small logs, gradually increasing the size. When the fire is well established, close the control lever to the required setting by moving it to the right.

The Alandale will give more heat output with increased air supply, so the control can be adjusted to increase or decrease the burning rate of fuel, as desired.

The appliance is hot whilst in operation. Keep children and furniture a safe distance away. In the presence of children, elderly or infirm people a fireguard should be used. The fireguard should be manufactured in accordance with BS 8423:2002 – Fireguards for use with solid fuel appliances.

User warning - parts become very hot while the stove is running so should not be touched with bare hands. The special operating tool and a pair of gloves are provided for operation of the hot stove.

To close the stove down slide the control lever fully to the right. Depending on the fuel and the amount of draught in the chimney, it may be necessary to leave the air control slightly open to allow the glass to burn clean.

The appliance is designed to operate efficiently with the fire door closed. The door should be kept closed at all times, except when re fueling or removing ashes.

Operation with the stove door open can cause excessive smoke. The appliance must not be operated with the stove door left open.

TO RE-FUEL THE STOVE

Do not over fill the firebox, The maximum filling height is 200 mm. The maximum amount of fuel specified should not be exceeded, overloading can cause excessive smoke. Before opening the door to re-fuel, slide the air control to the left, add the fuel and close the door.

Refueling on to a low fire bed

If there is insufficient burning material in the fire bed to light a new fuel charge, excessive smoke emission can occur. Refueling must be carried out onto a sufficient quantity of glowing embers and ash that the new fuel charge will ignite in a reasonable period. If there are too few embers in the fire bed add suitable kindling to prevent excessive smoke and open the air control for two minutes to get the fire bed hot.

Operation with door left open

Operation with the door open can cause excess smoke. The appliance must not be operated with the appliance door left open except as directed in the instructions.

Dampers left open

Operation with the air control open can cause excess smoke. The appliance must not be operated with air control or door left open except as directed in the instructions.

FUELS

This appliance has been tested using seasoned wood logs in a smoke control area. The logs need to be dry, seasoned logs, i.e. no more than 20% moisture content, maximum log size up to 250mm x 75mm diameter. Small pieces of kiln dried timber can burn very hot, take care that the fire does not get out of control. The stove is only designed to burn wood - no other fuels should be used.

The Alandale Smoke Control stove is only exempt for use in a smoke control area if it is burning clean, dry (no more than 20% moisture) and seasoned logs of maximum length 250mm. No fuel that contains halogenated organic compounds or heavy metals as result of treatment with wood-preservedatives or coatings must be burnt in the appliance. The stove is designed to burn wood .

WARNING – USING A NON APPROVED FUEL MAY CAUSE DAMAGE TO THE STOVE AND WILL NOT BE COVERED BY OUR GUARANTEE. WOOD NEEDS TO BE DRY AND SEASONED (MAXIMUM 20% MOISTURE CONTENT)

CLEANING THE STOVE AND FLUE

It is important to remove the ashes regularly.

Open the fire door with the stove glove provided and remove ashes with a shovel, when the stove is cold.

When the stove is being used regularly, it will be necessary to remove the baffles once a year to clean any debris that may have collected there. The chimney/flue should be swept and checked every year. The glass on the stove door can be cleaned (when the glass is cool), using a damp cloth or sponge pan scrubber for any stubborn marks. Stove glass cleaner may be used if required.

The body of the stove can be brushed with a soft brush, do not use water on the paint work. If, in time the body of the stove needs touching up a touch-up aerosol of paint, the same as originally used in the factory can be obtained from your supplier.

Warning – do not use an aerosol spray near the stove when the stove is alight.

This appliance should be regularly maintained by a competent service engineer. There must be no unauthorised modification of the appliance. Any replacement parts must be recommended by the Manufacturer

If the stove is to be left unused for a prolonged period of time then it should be given a thorough clean to remove ash and unburned fuel residues. To enable a good flow of air through the appliance to reduce condensation and subsequent damage, leave the air controls fully open.

It is important that the flue connection, any appliance baffles or throat plates and the chimney are swept prior to lighting up after a prolonged shutdown period

TROUBLE SHOOTING

1. The stove is not burning well.

The stove may need more fuel loading - load more fuel, see 'lighting the stove'

The wood may be un-seasoned or damp - avoid using unsuitable wood.

The chimney may need sweeping, or there may be a buildup of debris above the baffle - see 'Cleaning the Stove and Flue'

There may not be the required flue draught in the chimney/flue. In this case a longer chimney pot may help, or there may be a blockage in the flue.

2. Smoke is coming into the room.

There may be down draught conditions, see paragraph 1 of 'Lighting the Stove'. If it is not possible to stop the down draught by warming the flue as described, it is advisable to

leave the stove unlit and test conditions later.

3. The stove is burning too hot.

Make sure the stove door is closed properly, and check that all air controls are closed. Check the rope seal on the door. If this needs replacing ceramic rope and heatproof adhesive can be obtained from your supplier.

4. Smoke is being emitted from the chimney.

Check that the fuel being used is as described and that the operation of this manual is being followed. If smoke is being emitted whilst refueling onto a low fire bed then kindling should be used.

WARNING NOTE

Properly installed, operated and maintained this stove will not emit fumes into the dwelling. Occasional fumes from de-ashing and re-fueling may occur. However persistent fume emission is potentially dangerous and must not be tolerated.

If fume emission does persist then the following immediate action should be taken:-

- (a) Open doors and windows to ventilate the room and then leave the premises.
- (b) Let the fire go out.
- (c) Check for flue or chimney blockage and clean if required.
- (d) Do not attempt to relight the fire until the cause of the fume emission has been identified and corrected. If necessary seek expert advice.

The most common cause of fume emission is flue way or chimney blockage. For your own safety these must be kept clean at all times.

IN CASE OF A CHIMNEY FIRE –

CLOSE ALL AIR VENTS IF POSSIBLE.

MAKE SURE THERE IS NOTHING COMBUSTIBLE NEAR THE STOVE.

MOVE PEOPLE AWAY FROM THE ROOM.

CLOSE THE ROOM DOOR

PHONE THE FIRE BRIGADE.

Product Fiche	
Commission Delegated Regulation (EU) 2015/1187 Energy Labelling of Local Space Heaters	
Supplier`s Name or Trademark:	Town & Country Fires
Suppliers Model Identifier:	Alandale Eco Design
Energy Efficiency Class of Model:	A
Nominal Heat Output to Room (kW):	4.6
Nominal Heat Output to Water (kW):	n/a
Net Efficiency (%):	78.5
Energy Efficiency Index (%):	99.3

Recycling Guidance.

When your Alandale stove reaches the end of its life, The vermiculite bricks, door rope seal and glass should be carefully removed from the stove and disposed of according to local authority requirements. The body of the Langdale is made from steel, The grate is made of cast iron. Both the steel and cast components of the stove can be recycled via a local metal collection company / authority



Supplementary Information for the verification of Ecodesign Compliance under the HETAS Product Approval Scheme

Appliance Manufacturer: Town & Country
1 Enterprise Way, Thornton Road Industrial Estate
Alandale, North Yorkshire, YO18 7NA

Model Name(s):	Alandale EcoDesign Smoke Control Stove
Direct Heat Output:	4.6 kW
Indirect Heating Functionality:	No
Type of Heat Output Room Temperature Control:	Two or more manual stages, no temperature control
Other control options:	N/A

Space Heating Performance at Nominal Output						
Fuel(s)	Primary Fuel	Seasonal Efficiency (%)	(mg/m ³)			
			PM	OGC	CO	NOx
Wood Logs	Yes	71.9	22	89	0.11	93

Performance when Operated on Primary Fuel					
Rated Heat Output (kW)	4	Nominal Net Efficiency (%)			78.5
Electrical Consumption Nominal (kW)	N/A	Electrical Consumption Minimum (kW)			N/A
Electrical Consumption Standby (kW)	N/A	Energy Efficiency Index	99.3	EEI Rating	A

Specific Precautions during Assembling, Installing & Maintenance: See installation instructions for more information

Product End-of-Life/Recycling: To dispose of the stove after the product life has expired, please observe the following information

- ✓ Dispose of the items correctly i.e. separate the parts to be disposed of in material groups
- ✓ Always dispose of items in a way that is as sustainable as possible and that is in line with the current environmental protection, reprocessing/recycling and disposal technology

HETAS confirms the above information is accurate and the stove complies with the Ecodesign regulation at nominal heat output.

COMMISSIONING AND HANDOVER INSTRUCTIONS

Ensure all parts are fitted in accordance with the instructions.

On completion of the installation allow a suitable period of time for any fire cement and mortar to dry out, before lighting the stove.

Once the stove is under fire check all seals for soundness and check that the flue is functioning correctly and that all products of combustion are vented safely to atmosphere via the chimney terminal.

On completion of the installation and commissioning ensure that the operating instructions for the stove are left with the customer.

Ensure to advise the customer on the correct use of the appliance and operating tools and warn them to use only the recommended fuel for the stoves.

Advise the user what to do should smoke or fumes be emitted from the stove.

The customer should be warned to use a fireguard to BS8423:2002 in the presence of children, elderly and / or infirm persons.

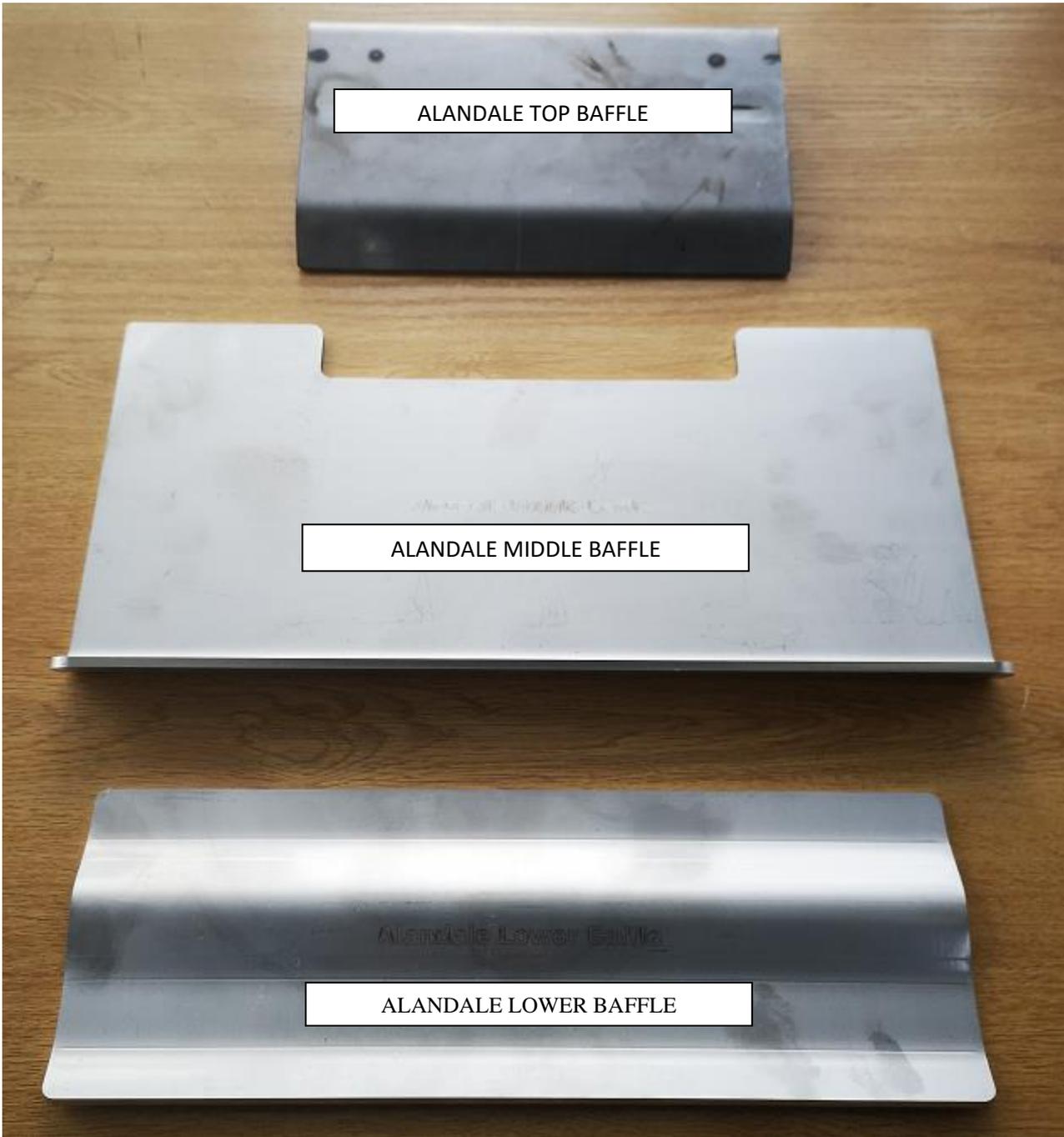
SPARES-

The approved dealer whom you purchased your stove from will be able to supply you with spares you may require in the future.

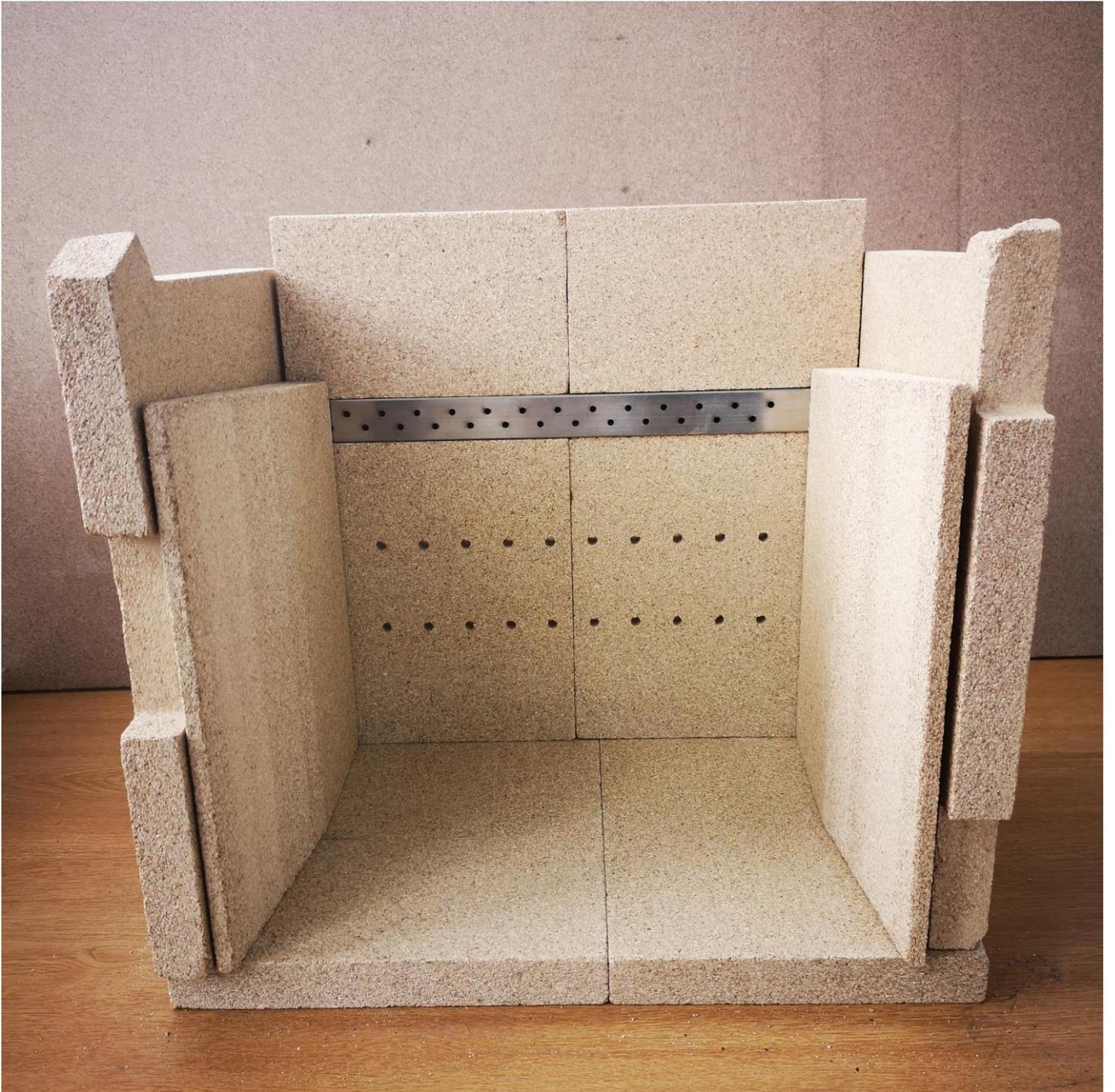
TO REMOVE BRICKS & BAFFLES FROM THE ALANDALE STOVE

1. There are two sets of side bricks in a Alandale. To remove the inner bricks simply lift the steel baffle at one side and remove the brick whilst holding the baffle. Then remove the baffle by tilting, and then remove the other side brick.
2. The tool with a loop is needed to remove the next set of bricks. Put the tool into the top front edge, in front of the second baffle and lever the brick out from the top, holding on to the second baffle. Then remove the baffle, taking care to note which way round it goes back in. Then remove the second side brick.
3. Remove the top small baffle, making sure it goes back in the way it came out. See Figure below
4. To remove the top rear brick which is on top of the steel turbo charger, take the tool with the loop handle and put into one of the holes in one of the back bricks and pull forward to remove. Repeat with the second rear brick, noting that these two bricks are right and left handed and need to be the right way up.

ALANDALE BAFFLE POSTIONING



ALANDALE BRICK POSITIONING



DECLARATION OF PERFORMANCE According to Regulation (EU) 305/2011
Ref No. ALANDALE ECO DESIGN SMOKE CONTROL WOOD BURNING STOVE

Point No.		
1	Product Type	Pickering Ecodesign SC Freestanding room heater burning wood without hot water supply
2	Model	Pickering Freestanding, Serial No.ALANSC101_____
3	Intended use	Room heater burning wood without hot water supply for intermittent use
4	Manufactured By	Town and Country Fires Ltd 1 Enterprise Way, Thornton Road Ind. Estate, Pickering, North Yorkshire YO18 7NA
5	Manufacturer's authorised representative	Town and Country Fires Ltd 1 Enterprise Way, Thornton Road Ind. Estate, Pickering, North Yorkshire YO18 7NA
6	System of assessment & verification of constancy of performance	System 3
7	Notified laboratory	The notified laboratory Kiwa No.0558 UKAS 0692 performed the determination of the product type on the basis of type testing under system 3 and issued test report no. 61358

8 Declared performance

Harmonised technical specification	BS EN 13240:2001 + Amd 2:2004
Essential characteristics	Performance
Fire Safety:- Reaction to fire	A1
Distance to combustible materials	Minimum distances, in mm Rear = 350 Sides = 350 Above = 300
Risk of burning fuel falling out	Pass
Emission of combustion products	CO (at 13% O ₂) = 0.11 % (Wood) NO _x 93 Nmg/m ³ (Wood) DIN Plus Dust 22 Nmg/m ³ (Wood) CnHm 89 Nmg/m ³ (Wood)
Surface temperature	Pass
Electrical safety	N/A
Cleanability	Pass
Maximum operating pressure	N/A
Flue gas temp at nominal heat output	Wood = 261°C
Mechanical resistance (to carry a chimney/flue)	NPD
Thermal Output ;	
Nominal heat output	Wood 4.6 kW
Room heating output	Wood 4.6 kW
Water heating output	Nil
Energy efficiency	Wood 78.5%(net) 71.9% (gross)

9 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. The declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on the behalf of the manufacturer by:....Mrs Nina Hodgson (Quality Manager).....
(Name and function)

.....Town and Country Fires Ltd, Pickering...../...../2020.....

(place and date of issue)

(Signature)

The Town and Country Fires Guarantee

Town and Country Fires Ltd guarantee the quality of workmanship of their multi fuel stoves for twelve months from the date of purchase.

Stoves must be installed to current Building Regulations, National and European Standards and per our Installation / User instructions supplied with the stove. Installation must be carried out by a competent installer.

Using a non approved fuel may cause damage to the stove and will not be covered by our guarantee. Wood needs to be dry and seasoned (maximum 20% moisture content).

Usage of our woodburning stove should be as per our Installation / User Instructions provided with the stove.

Any warranty claim requires Proof of defective workmanship and delivery of the defective product to our factory within twelve months of the date of purchase.

Parts which are classed as consumables and are excluded from our Guarantee include;
Fire Bricks, Baffles, Fuel Guards, Ash Pan, Glass, Door / Glass Seals and Paint.

Claims under this guarantee should be made through the Approved Town and Country Dealer the appliance was originally purchased from.

Please complete the enclosed form in full to validate your guarantee, and extend the guarantee from one year to ten years. Please note the extended guarantee is only valid when your stove was purchased from a Local Approved Town and Country Dealer and not a third party reseller.

Town and Country Fires are not liable for any incidental loss, damage or injury, however caused.

This Guarantee is only applicable in the UK.

This Guarantee does not affect your statutory rights.

Please keep this page for your future reference.

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