

## Installation Instructions

Midflex 316 & 904 Flexible Liner



### PLEASE NOTE

Installations must be carried out by a two person team with one person being a registered HETAS installer or a competent individual and inspected by a local building control officer.

A carbon monoxide detector must be fitted as part of the installation. Instruction on suitable fuels/operation, cleaning and maintenance should be given by the installer to the home owner based on their installation.

### UNPACKING INSTRUCTIONS

Uncoil the flex from the outside of the coil, removing the packaging to do so. This is necessary to avoid exceeding the minimum curvature radii. Uncoiling from the inside of the coil will damage the flex and void your warranty. Please retain the packaging for future reference as this includes your batch number which is needed to register your warranty.



# CHIMNEY PREPARATION

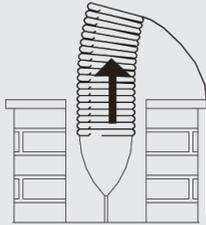
Chimney to be lined must be thoroughly cleaned using the correct equipment by a competent chimney sweep. Check internal face of the chimney to ensure cleanliness. External face should be checked for damage and repaired prior to installing liner, to ensure it is structurally sound and rainwater cannot penetrate into the cavity.



## PASSAGEWAY CHECK

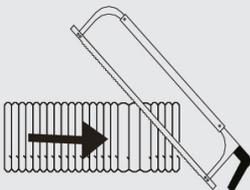
Prior to installing the chimney liner the internal passageway of the chimney must be checked. Use a one metre test length of liner of the same diameter as that to be installed. The one metre test length should be fitted with a nose cone and two suitable lengths of rope. The check/test should then be conducted by drawing the test length through the chimney passageway in the proposed direction of installation of the main liner.

**NOTE:** Recommended clearance between the chimney shaft and outside diameter of the flue liner is 25mm, this is only applicable to chimney shafts made in bricks or other non-combustible material. Any combustible material in the shaft should be removed before installation.



## CUTTING INSTRUCTIONS

Place the liner on a flat surface and clamp, fully stretch the liner in the region to be cut and twice bound with an adhesive duct tape. Cut on the raised convolution, not in the groove, using a deep-bow hand saw. To secure the cut ends the adhesive tape method is satisfactory.

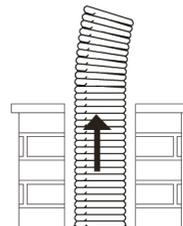


## INSTALLING LINER

The work required for securing bottom support bracket/plate and clamp bracket at the top and bottom of the stack should be carried out in such a way as to allow free passage of the liner without possibility of causing friction on the liner or catching the stack. The nose cone will allow easy penetration of the liner without causing friction.

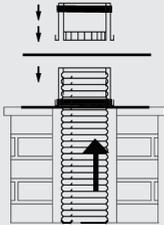
The length required to be installed should be either on the roof or positioned at the base of the chimney, depending from which end of the chimney it is to be installed. Prior to installing the liner a nose cone and rope (the rope being passed through the chimney passage way first) should be fixed to the correct end of the liner in keeping with the direction of the flue gas flow as indicated by the arrows on the liner (arrows must point upwards). Robust nose cones are available.

The liner should then be introduced into the chimney by pulling the rope through the aperture. One person should stand at the point of entry to the stack to guide the liner through during installation. The liner should project from the base of the chimney by just sufficient length to connect the stainless steel or Midtherm Vitrelux flue pipe using a Midtherm Flex adaptor. If the installed length is over 12 metres, supports should be installed at 12 metre intervals.



## PLATE, CLAMP AND PROTECTION SLEEVE

Fit clamp bracket and closure plate at top of the chimney. With the increased use of mechanical aids to clean products, we recommend the use of a protection sleeve. If it's intended to mortar clay pot, apply mix over the plate, re-locate the pot.



## BACKFILL/INSULATE

We recommend that all installations be back filled or insulated with a high density mineral wool such as Rockwool to improve the resistance to corrosion of the liner. We offer an effective alternative with the Midtherm Flue Jacket, designed to reduce corrosion and maintain flue gas temperature.

## CONNECTION TO APPLIANCE

When connecting the liner to a wood burning stove, a short length of connecting flue pipe e.g. Vitrelux, SW 316 0.9mm etc. (complete with a clean out door for access to sweep) must be used directly off the appliance. To link the liner and connecting flue pipe, the liner should be pushed into a Midtherm flex adaptor and all joints sealed. Then secure the liner in place with snap fit adaptor taps or stainless steel self-tapping screws. Remember that the spigot (crimped end) of the flue pipe must point downward to allow condensation to drain.

Midflex is also suitable for use on gas and oil condensing applications. In this instance the connections to and from the flex should be sealed with silicone sealant suitable for the appliance operating temperature.

## CLAY POT COWLS

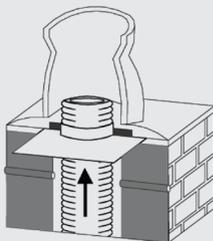
Offer the flex up to the plain end of the clay pot adaptor and secure a jubilee band around the flex, tighten and fix in place. With the clay pot adaptor secured firmly to the Midflex liner, apply a bead of silicone to the skirt then feed the liner into the chimney ensuring the arrows on the flexible liner point up to the chimney. Secure the clay pot adaptor to the pot. Sit the three attaching straps on the outside of the clay pot and secure with a jubilee band, tighten until secure

## DATA PLATE

The plate should be permanently and indelibly marked and fixed in a visible position. The plate must not be covered or removed. Possible locations are by the cleaning / inspection access, the side of the fire place, at the chimney inlet or possibly by the electricity / gas / water meter. The actual 'Installation Designation' written onto the data plate should reflect the combination of products installed. IF IN DOUBT please call the sales or technical departments.

## AIR GAP VENTING

A simple way of maintaining the air gap is to insert, at an angle to prevent rain ingress, a 15mm diameter copper pipe to allow any moisture in the air gap to evaporate.



## OPERATION, CLEANING AND MAINTENANCE

The homeowner should be advised on the suitable fuels / operation / cleaning and maintenance requirements by the installer and be specific to their installation. The 316L grade stainless steel, is classified as being suitable for constant operation at temperatures up to 600°C and is classified as being soot fire resistant. Relatively high sulphur content fuels, such as processed coal products (smokeless fuels), particularly if the appliance can be left burning all night should be avoided with Midflex 316L liner. Midflex 904L liner has even better corrosion resistance than 316L and should be used for such applications. The chimney should be checked at least twice a year, and swept annually as a minimum and as and when indicated by the inspection, because soot deposits may form in the liner, particularly if low grade fuels, wet wood or coal mixes are used. If soot/tar is allowed to build up, a blockage or soot fire may result. In the event of a soot fire the liner may suffer structural damage and should be checked and replaced as necessary. Exposure to high temperature may affect the corrosion resistance of the material as well as the structural integrity of the liner. If the performance of the fire changes, or any fume is noticed in the room, the appliance should not be used and the chimney should be tested and checked immediately.

## Waranty Registration

You can now apply for warranties quicker and easier online



SCAN ME

Midflex 316 is eligible for a 20 year warranty and Midflex 904 is eligible for a 35 year warranty. To register your installation and apply for warranty, follow the instructions below:

1. Scan the QR code below with your phone camera, or visit: <https://midthermflue.co.uk/products/midflex>
2. Fill out the online form carefully and submit it to us
3. Batch number is found on the outside of the pack
4. Keep your unique Warranty ID from the registration email receipt

Note: any incorrectly submitted information may void the warranty