

The background of the entire page is a close-up, high-contrast photograph of a helix flue liner. It consists of numerous thin, parallel metal strips that are tightly packed and curved into a large 'X' shape, creating a complex, textured pattern of light and shadow.

HELIX[®]

PREMIUM FLUE LINER

STRENGTH AND FLEXIBILITY IN ITS DNA

INSTALLATION GUIDE

WHY DO YOU EVEN NEED FLEXIBLE CHIMNEY LINER?

Let's begin at the beginning with why you actually need a Flexible Chimney Liner. Gone are the days of inefficient open fires losing the majority of their heat up into cavernous open chimneys and we now live in an age of highly efficient, closed heating appliances. However, a common misconception remains that a stove and a length of stove pipe is all it takes to install a modern burner and get it up and running. If only life was that simple. Often referred to as 'the engine of the stove', it is a sealed flue system that powers a wood burner and without one, a stove will never fulfil its potential or even ignite.

By lining your existing masonry chimney with a Helix Flexible Chimney Liner, you ensure your flue system is safely sealed from stove to chimney pot, complies with all manner of building regulations concerning diameters of flues and gives your lovely new stove a fighting chance of operating as hassle free as possible.

WHO CAN ACTUALLY INSTALL A FLUE SYSTEM?

For the safe and legal installation of a Helix Flexible Chimney Liner, we only advise using the services of a HETAS registered stove and flue installer or alternative member of the Competent Persons Scheme. This ensures compliance with all building regulations and HETAS recommendations. Should you wish to undertake the work yourself, you must inform the local Planning Office (Building Control Body) of the intended work and they will advise how to proceed in-line with their requirements and be competent with working at heights.

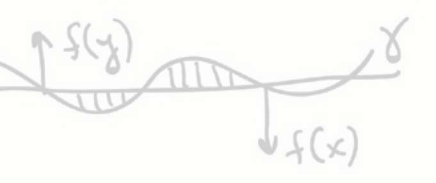
BEFORE INSTALLING A FLEXIBLE CHIMNEY LINER

Firstly, and crucially, check that the items you have purchased are correct for your installation; not only compatibility-wise but do they comply with the building regulations concerning correct diameters of flue systems? Below is a basic guide to the regulations:

Stove Outlet Diameter	Defra Approved	Diameter of Helix Liner to use
4"	Yes	5"
4"	No	6"
5"	Yes	5"
5"	No	6"
6"	Yes or No	6"
7"	Yes or No	7"
8"	Yes or No	8"



$$\iiint_G f(x,y,z) dx dy dz = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(x_i, y_i, z_i) \Delta V_i$$



Chimney liners tend to be cut-to-order items and as such, are not covered under the various Consumer Rights Acts and Distance Selling Regulations concerning returning/refunding items ordered in error so study the building regulations, measure twice and order it right first time!

Now it's time to contact your local, friendly chimney sweep to pay you a visit and get that chimney cleaned. Chances are, you have no idea what condition your chimney is actually in and sadly, sticking your head up from the fireplace or checking for visible cracks on exterior walls isn't enough. For complete peace of mind (and to honour the terms of the Helix warranty), please arrange a sweep through one of the following registered bodies only:

- APICS (Association of Professional and Independent Chimney Sweeps)
- Guild of Master Chimney Sweeps
- NACS (The National Association of Chimney Sweeps)

Your chimney sweep can also help identify any problems with the chimney pot that may need fixing, advise on access for cleaning the flue once in place, confirm the length of Helix Chimney Liner to order and check for potential asbestos risks.

Finally, always check with your home insurer that your policy covers closed heating appliances and flue systems.



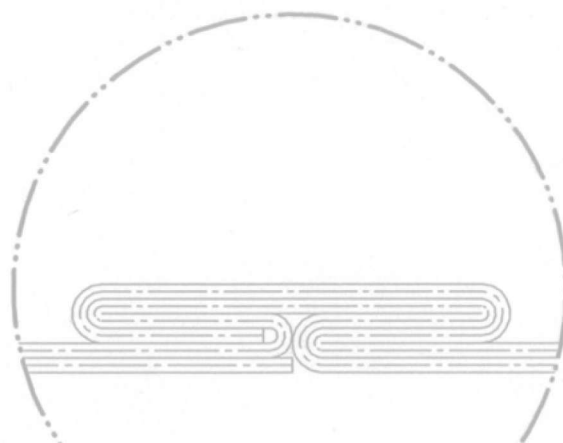
TOOLS FOR THE JOB

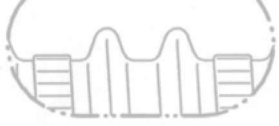
1. Protective gloves (Liner edges are sharp!)
2. Hacksaw & Tin Snips (to trim/cut liner down to size)
3. Eye Protection (no eyes have been lost to date but there's a first time for everything)
4. Nose Cone, Rope & Gaffer Tape (to pull liner down the chimney)
5. Access Equipment (discuss this with your HETAS registered installer)
6. A stove
7. Length of Vitreous Enamel Stove Pipe
8. Chimney Register Plate (1.5mm thick and strong enough to support any insulation)
9. Helix Flexible Chimney Liner (always over-estimate the length needed and cut back)
10. Liner Installation Kit (includes all the bits and bobs to connect and secure the liner)
11. High-Temp Sealant
12. 2 x People who know what they're doing and don't mind working at heights

IS HELIX FLEXIBLE LINER SUITABLE FOR YOUR APPLIANCE?

In a word, probably... Helix Flexible Liner is designed for use with the following heating appliances:

- Wood Burning Stoves
- Multi-Fuel Stoves
- Gas Stoves
- Oil Boilers and Stoves
- Atmospheric Gas Boilers
- Industrial and Domestic Appliances





HANDLING HELIX FLEXIBLE CHIMNEY LINER

How well adept are you in wrangling a 10m long, uncoiled, flexible tube of steel? Bear this in mind before approaching your Helix Flexible Chimney Liner and don't let the neatly wrapped coil fool you, Helix is a robust, heavy product and once it's unleashed, there's no going back!

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Carefully remove any protective packaging the Helix Flexible Liner is delivered to you in, making sure you do not damage the liner itself as a stray knife/scissor incision or being dragged across rough ground could pierce the liner.

At this point upon receipt, check the Helix Flexible Liner for any damage such as dents, piercings or issues with seams and report this immediately to your supplier. Failing to do so will void your Helix Warranty as any damage reported once installed will be deemed to be caused by the user.

Lubricant used during the manufacturing process may leak from the liner so be cautious where you handle the liner. This is not harmful but could stain.

CHECKING CHIMNEY SIZE

Assuming that you have followed the steps of this guide thus far and a registered Chimney Sweep has confirmed your chimney is clear and ready to accept a length of Helix Flexible Liner, it is still important that a test is run to ensure the liner passes freely through the entire length of your chimney.

1. Cut a test length of Helix Flexible Liner (typically 1m)
2. Attach a Nose Cone to both ends of the liner using gaffer tape
3. Connect rope to both Nose Cones and drop the liner down the chimney
4. Only continue with your install if the liner runs freely top to bottom of the chimney

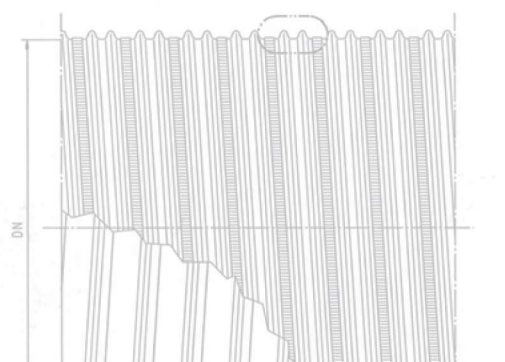
It is advised a minimum 25mm gap between the liner and the chimney wall must be maintained for the entire length of the liner.

CUTTING HELIX FLEXIBLE LINER

Checking first that you have enough clear floor space to lay out your liner, carefully uncoil and cut the liner down to the length required. Take out your trusty tin snips if needed to neaten the edges and tape over for safety whilst handling (obviously remove this once installed).

INSTALLATION

- Step 1** Have a registered Chimney Installer install your Helix Flexible Liner to ensure 100% compliance with all building regulations, HETAS approvals and health & safety concerns and to maintain the terms of your Helix Warranty.
- Step 2** Enjoy your lovely new stove, powered by Helix Flexible Liner



$$\frac{1}{2} \int_0^1 dx \int_0^{1-x} \left(\frac{1}{(x+y+1)^2} \right)$$

Only if you are a competent DIYer and have notified your local Planning Office of your intended stove and flue installation can you consider proceeding with a self-install as per the following guidelines:

- Start from the top as Helix Flexible Liner must only be dropped down the chimney and not pulled up
- Ensure all access equipment is clear, secure, in place and you are well versed in working at heights
- Due to the premium quality of the unique seams of Helix Flexible Liner, it is harder to discern the correct direction for install but it will run smoother internally in one direction than the other. When installed, it must run smooth downwards.
- Attach a Hanging Cowl or Top Bracket* to prevent the liner from falling down the chimney
- Using gaffer tape, secure the Nose Cone to the leading/bottom edge of the liner
- Connect a draw cord the length of the chimney to the Nose Cone
- Drop draw cord down the chimney so your helper can guide from below and start to lower the liner through the chimney
- To help negotiate any bends, rotate the liner
- Pass liner through the chimney with enough slack to install the Stove Pipe and Flex Adapter
- When successfully passed through the chimney, neaten the bottom edge with Tin Snips if need be and secure to a Flex Adapter
- Secure a length of Vitreous Enamel Stove Pipe between bottom of Flex Adapter and the stove outlet (must go inside stove outlet), passing through the centre of the Chimney Register Plate
- Screw Register Plate up to brackets
- Seal all joints and around Register Plate with Fire Cement

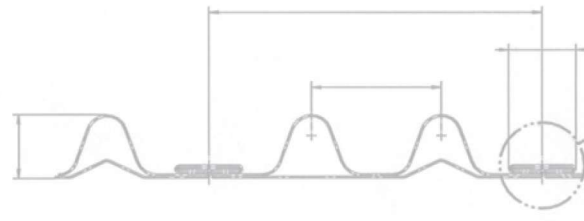
*If using a Top Bracket, cut liner with approx. 100mm excess above the roof, cement the Top Plate down, insert sleeve into liner for rigidity, secure Top Bracket, place Rain Cap over (or pot) and build up cement.



Unique seams inside Helix create the smooth surface needed for multi-directional installation

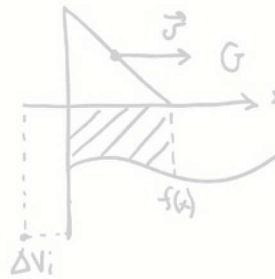


Corrugations of outer skin protect the integrity of the inner skin



WHAT IS THE APPROPRIATE TERMINAL FOR MY SYSTEM?

- Wood, Coal & solid fuel (non-thatched roof) Hanging Cowl with Bird guard or Top Bracket
- Wood, Coal & solid fuel (thatched roof) Spark Arrester (must seek guidance of local council/home insurer/HETAS)
- Gas Appliance Terminal that complies with Section 5 of BS715
- Oil Any terminal (must be inspected regularly)



INSULATING THE CHIMNEY CAVITY

The space between the masonry walls of your chimney cavity and the Helix Flexible Liner can be back filled with insulating granules (Vermiculite) or the liner itself wrapped prior to install with an insulating blanket to retain as much heat as possible within the flue gases, encourage that all important draw and avoid corrosion.

When using insulating granules, first check that the Chimney Register Plate is in place and fully sealed (to avoid a living room filled with vermiculite) and pour the granules from the top, in the space between liner and chimney walls. A steady hand is enough but special funnels are available for this job.



COMPLETING THE INSTALLATION

Upon completion of your Helix Liner installation, your registered installer will perform a number of duties; First they will smoke test the system to check for draw and any leaks in the flue, then a Chimney Notice Plate will be completed with details of the install and displayed, they shall then fit and test a Carbon Monoxide Alarm in line with Building Regulations and self-certify the install leaving you with a signed HETAS certificate.

If performing the installation, yourself, you must follow the above with the addition of obtaining a Building Control Notice.

ANNUAL MAINTENANCE

To guarantee the ongoing performance of your stove and to validate the terms of your Helix Warranty, an annual chimney sweep by a member of NACS, APICS or the Guild of Master Chimney Sweeps is essential (as a minimum, 3 times a year is preferable after every burning season).

The burning of unseasoned/wet wood or 'slumbering' your burner will all contribute sooty deposits to your chimney system which if left to build up, will block the flue, affect the draw and potentially lead to chimney fires (in which case, relining your flue will be the least of your problems).

If you are looking to clean your Helix Chimney Liner as part of a regular maintenance schedule, please refrain from any metal brushes and chemical cleaners.