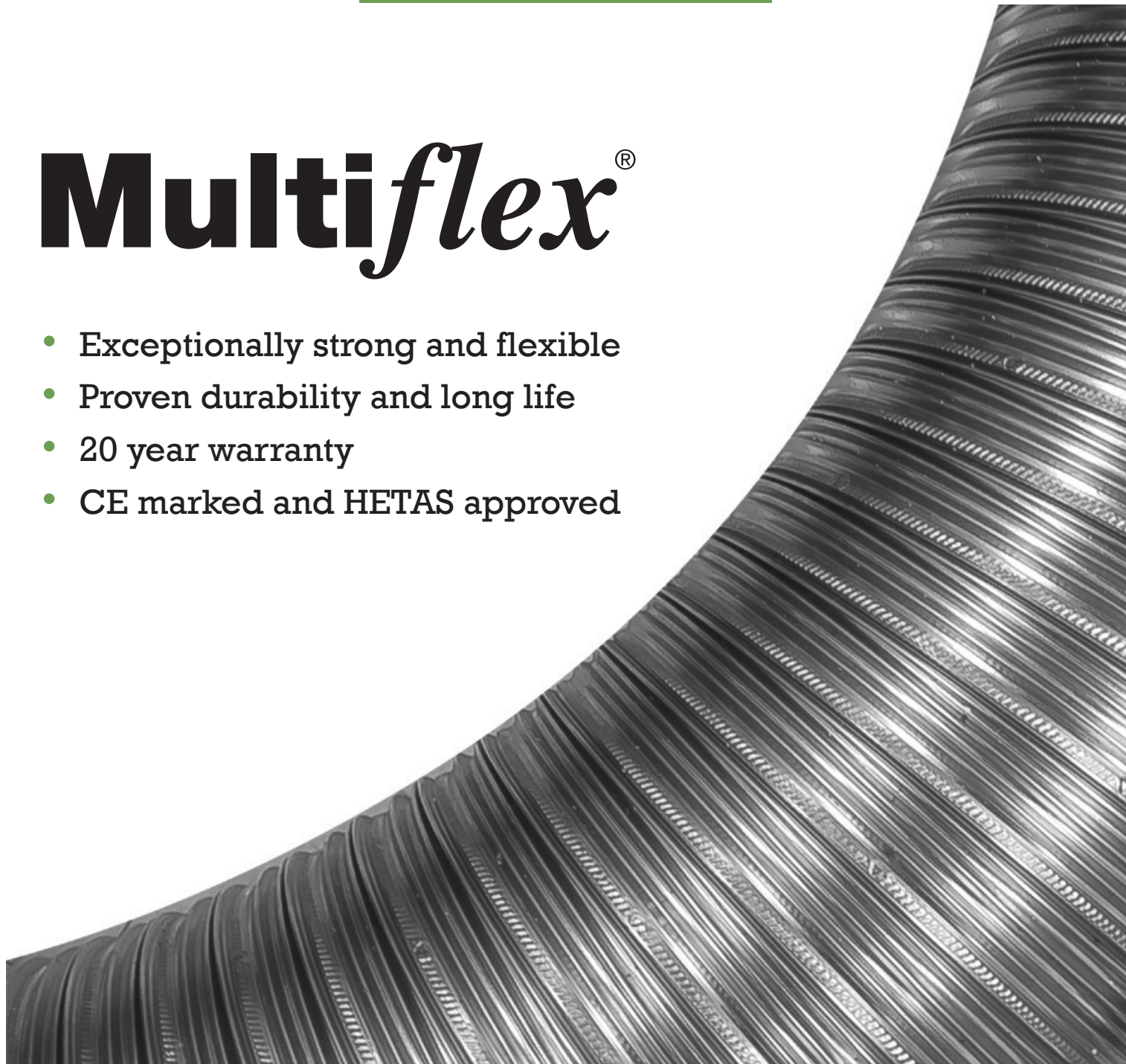


Multiflex[®]

- Exceptionally strong and flexible
- Proven durability and long life
- 20 year warranty
- CE marked and HETAS approved



Topstak

Chimneys | Liners | Renewables



The trusted name for Multifuel flexible liners for over 30 years

www.topstak.co.uk

01446 771567

sales@topstak.co.uk

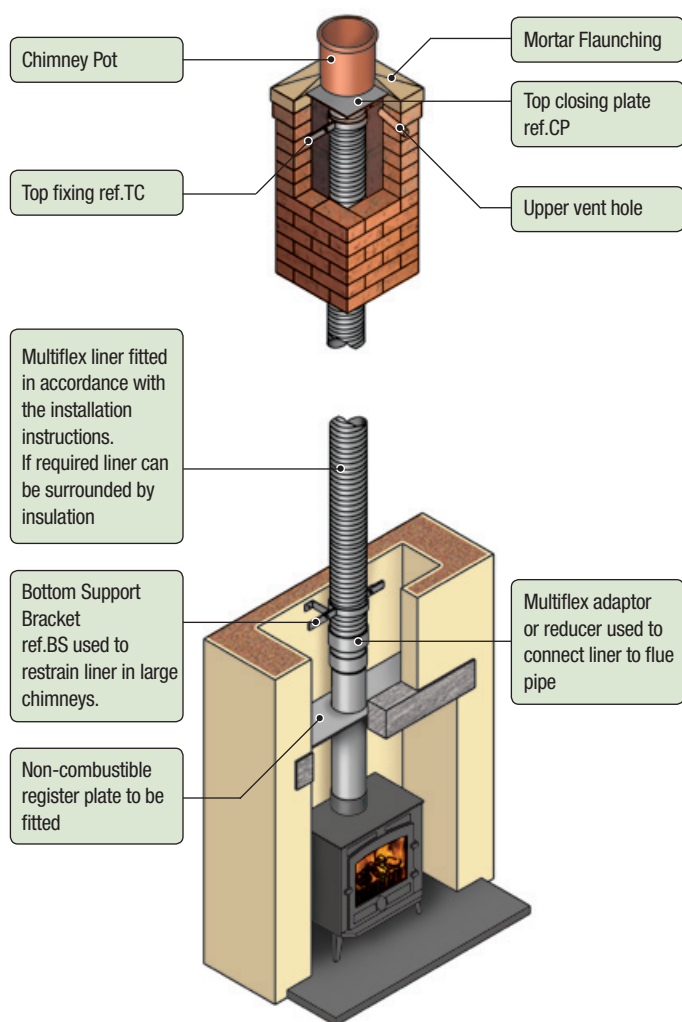
Why old chimneys need relining

After many years use old, and particularly unlined chimneys can create many problems. Over time hot smoke, tars and acids eat into the chimney walls and erode mortar joints causing staining to the exterior stone or brickwork, and leakage of dangerous fumes into the property.

Multiflex protects old chimneys against deterioration and leakage by providing a new gastight flue liner that withstands high temperatures and minimises the risk of tar deposits.

As many old chimneys were built without flue liners and risk leakage it is always prudent to have a new liner fitted. Indeed, most stove and fire manufacturers require a suitable flue liner of the correct size and specification is installed to ensure safe and efficient operation.

A typical Multiflex installation with a stove



Free technical advice and information

With over 40 years' experience to draw on, the Topstak technical staff are always pleased to assist customers in selecting Multiflex or any of our other systems for renovating or installing chimneys



Wide choice of liner sizes and fittings

Multiflex is available in wide choice of sizes complete with fittings for easy connection to stoves or fires. The liners are specially designed for quick installation with the minimum of disruption, and their flexibility can cope with bends of up to 45 degrees and typical 'offset' Victorian chimneys.

Nationwide delivery

A next working day delivery service is available for cut lengths or full coils with a choice of fittings to suit individual installations.

20 year warranty

Multiflex liners are available with a 20 year conditional warranty. The printed registration form and terms are available on request or can be viewed and downloaded from our website www.topstak.co.uk



Technical Specifications and Approvals

Multiflex liners have a special spirally wound double-skin construction with an exceptionally strong joint proven by high pressure testing. The outer skin has a robust corrugated construction to allow maximum flexibility and ease of installation. The inner skin is designed to provide a smooth flue for the safe and efficient passage of flue gases.

There are two grades of Multiflex liner for use with multifuel or wood burning stoves, boilers, open fires and appliances burning gas or oil.

Multiflex 316 is made from 316 grade stainless Steel. Performance designation is EN 1856-2 T600 N1 W V2 L50010 G

Multiflex 904 made entirely from 904L grade stainless steel where a higher specification of liner is required. Performance designation is EN 1856-2 T600 N1 W V2 L70010 G

Approvals and certification

- ✓ CE marked and certified to European Standard EN 1856-2.
- ✓ Approved by HETAS and included in their list of approved products for use with solid fuel.
- ✓ Complies with UK Building Regulations.

Performance Designation - A brief explanation

Approved Document J 2010 of the Building Regulations specifies a minimum performance designation of T400 N2 D3 G for flexible flue liners used with solid fuel or wood burning appliances. This means they have to be tested to European Standard EN 1856-2 to prove their performance designation. Multiflex has a far higher designation, which proves its strength, flexibility and resistance to high temperatures.

- **T600** means Multiflex has passed testing for a nominal working temperature of 600°C, which gives a better safety margin than the minimum T400.
- **N1** means the liners have passed gas tightness testing at DOUBLE the pressure of the minimum N2 requirement. This test is done after the liner is subjected to the flexibility and temperature testing.
- **W** means the liners are designated suitable for wet operating conditions. V2 shows they have passed tests proving corrosion resistance to the products of combustion from light oil and natural wood. This is far higher than the D3 minimum requirement for dry operating conditions.
- **G** means our liners have passed the 1000°C soot fire test and passed the N1 pressure test after exposure to this temperature.

Multiflex Installation Instructions

To be read before choosing, handling or installing the liner

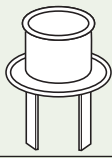

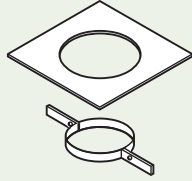

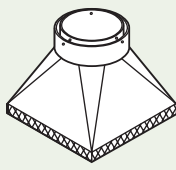
Diameters and lengths

The liners are available in cut lengths or full coils in the following diameters.

Internal diameter mm	125	154	180	200	230	250	300
Internal diameter Inches	5	6	7	8	9	10	12
Full coil length	40m	40m	30m	25m	20m	15m	10m
Coil on cradle	100m	100m	60m	60m	30m	30m	N/A

External diameter is approximately 7mm greater than the internal diameter.

Fitting accessories

	PH- Pot hanger For securing the top of the liner on top of a chimney pot
	MFS- Inner sleeve insert To fit into the cut end of the liner.
	TC- Top fixing clamp & CP - Top closing plate. Used to secure the liner at the top of the chimney.
	Multiflex adaptor and Reducers The MAA, MAB, MRR, MRB and GA have a socket into which the liner is pushed. The MAS and MRS adaptors are screwed onto the end of the liner. The Reducers reduce down from the liner diameter to flue pipe.
	GA- Gather adaptor For securing into the gather above an open fire.

Topstak offers a bespoke service for making metal register plates and gathers. See the website for further details.

1. Chimney inspection and preparation

Check the chimney is structurally sound, watertight and the walls are at least 100mm thick solid masonry. Make good any defects. Sweep the flue to be lined. Safely remove and dispose of all tar, soot and combustible deposits. Measure the liner length required and select the appropriate fittings. Remove any terminal or pot affecting installation of the liner.

Ensure all Health and Safety requirements are followed including provision of good safe working access and platforms. Wear suitable protective clothing and gloves when handling the liner and fittings to avoid injury from sharp edges. Take care when unpacking the liner as it can 'spring' out. Also wear goggles and dust mask when handling soot deposits, insulation or similar materials.

2. Choosing liner and diameter

The following is a general guide. Always follow the appliance manufacturer's installation instructions and relevant Building Regulation for flue sizing.

Stoves, room heaters, boilers or cookers burning solid fuel or wood- Minimum 150mm, but Regulations and manufacturers may allow some approved appliances to be used with 125mm diameter. Larger appliances and cookers may require a bigger diameter.

Open Fires including decorative flame effect gas open fires - Minimum 200mm for fire opening up to 500mm x 550mm. Larger openings require a flue area equal to 15% of the fire opening, but seek expert advice as arrangements can vary.

Other appliances - Consult the appliance manufacturer.

3. Pre-installation check

If the flue is clearly not big enough to give a 20mm clearance around the liner, make a pre-installation check by securing a nose cone with pull rope to a minimum 1 metre length of the chosen liner and pull it through the flue. Investigate and repair any defects that prevent easy passage of the liner then repeat the check.

4. Installing the liner

Remove any tape or labels on the liner. Use a nose cone with guide rope to pull the liner through the chimney in one complete length. The arrow printed on the liner must point up the chimney. One person should feed the liner into the chimney, whilst another pulls it on the guide rope taking care to prevent the liner being damaged by snagging or overstretching.

Bends in the chimney must not be more than 45° from the vertical. The minimum bending radius for the liner is 3 times the flue diameter. If any access is cut into the chimney, make good after installation.

5. Connecting the base of the liner

The liner must be secured and sealed into the socket end of the appropriate Multiflex adaptor. The MAA, MAB, MRR, MRB and GA have a socket into which the liner is pushed then sealed with fire cement and secured with bolts or self-tapping stainless steel screws. The MAS and MRS adaptors are designed to be screwed onto the end of the liner.

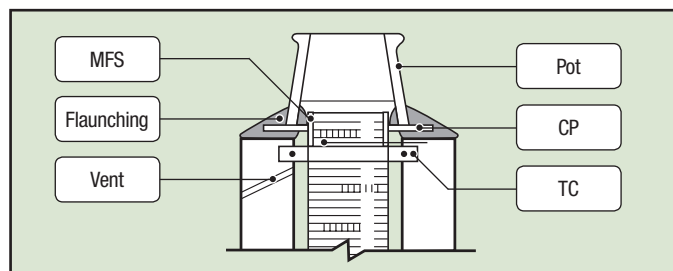
Ensure the spigot of the adaptor is sealed and secured into connecting flue pipe that complies with the relevant Building Regulation requirements. (A complete range of flue pipes is available from Topstak). Fit a suitable non-combustible register plate to close off the base of the chimney opening if the appliance is freestanding in a fireplace recess. If the flue liner cannot be swept through the appliance provide separate access, such as a flue pipe with access door. For open fires secure and seal with fire cement a GA-Gather adaptor into a suitable masonry gather above the fireplace recess.

6. The gap around the liner

When the gap around the liner is 20 to 50mm it can be left as a ventilated air space. If the gap is larger, the chimney is exposed or tall, the liner should be insulated to ensure a good draw and reduce risk of condensation inside the liner.

The gap around the liner can be insulated by completely filling with dry granular insulation such as Perlite, Leca or Vermiculite. Ensure the gap at the bottom is closed off and sealed with a suitable register plate that can carry the weight of the insulation. The RWP pipe insulation can also be secured around the liner and also needs to be suitably supported.

7. Securing the top of the liner



If a pot has been removed and will be refitted or replaced use the top plate and clamp. Cut the top of the liner allowing for a 100mm projection above the plate and secure a MFS - inner sleeve into the end of the liner. Tighten the TC - Top clamp around the liner and secure into the masonry. Using suitable mortar, bed the CP - Top plate onto the masonry above the clamp. Using the same mortar, bed the pot onto the plate and flaunching between the liner and pot. Flaunch around the pot at an angle sloping away from the pot to prevent moisture penetration.

If the existing pot is suitable the top of the liner can be secured with a PH - Pot hanger with inner sleeve. Cut the liner level with the top of the pot and fit the pot hanger, then use a stainless steel strap to secure the legs of the hanger tight against the outside of the pot. Secure the inner sleeve in the liner with stainless steel rivets or self-tapping screws.

Pots, terminals and venting – When fitting a pot, terminal or bird guard ensure it is compatible with the appliance and relevant regulations. Provide a 15mm diameter vent hole just below the CP - Top plate or chimney pot to allow any moisture in the air gap or insulation around the liner to evaporate freely. Angle the vent to prevent water ingress into the gap.

8. Completing the installation

Check the liner, appliance, all fittings and connections are correctly installed. If necessary carry out a smoke test as specified in the relevant British Standard. Good practice recommends using a HETAS approved installer for solid fuel or wood burning installations. Installation of an appliance connected to a fuel supply must be carried out by a Gas Safe (for gas) or OFTEC (for oil) registered installer.

A chimney notice plate must be completed and fixed alongside the appliance, fuse box or water mains in the property. See the Topstak chimney notice plate leaflet at www.topstak.co.uk

Call the hotline for the Topstak information service 01446 771567



Multiflex[®]

1st choice for flexible multifuel liners

When choosing a flexible flue liner features such as strength, durability and safety are essential.

Multiflex is the leading and trusted name for multifuel flexible flue liners, a position that is still held since the first liners were produced over 30 years ago.

Continual improvement using advances in manufacturing technology means the liners have possibly the highest performance designation proven by passing the European Standards tests.



Multiflex offers many benefits...

- ✓ Exceptionally strong and flexible.
- ✓ Proven durability and long life.
- ✓ CE marked and HETAS approved.
- ✓ Passes highest temperature testing class and gas tightness at double the pressure of the minimum N2 for solid fuel.
- ✓ 20 year warranty.
- ✓ Customer service considered to be best available.

“Multiflex is recommended and used by stove installers and chimney lining experts throughout the UK”

Multiflex[®]

User and Maintenance Instructions

The performance and life of any flue liner is dependent on correct use and maintenance.

Failure to follow these instructions may create situations where the installation and liner can suffer damage.

Fuel Burning

For gas or oil follow the appliance manufacturer's operating instructions.

When burning wood it must be fully seasoned (i.e. logs that are air-dried for 1 to 2 years under a waterproof cover open on all sides or kiln dried to a moisture content less than 25%).

Only use approved solid mineral fuel that complies with the appliance manufacturer's operating instructions.

Always burn solid fuel or wood on a bright fire and avoid burning in slumbering conditions, particularly if using a closed appliance with processed or smokeless fuels that can produce high concentrations of corrosive soot deposits. If these deposits are allowed to accumulate in the flue this greatly increases the risk of damage due to chimney fires or corrosion.

Do not burn household waste, plastics, treated timber or use chemical chimney cleaners that produce harmful toxic or corrosive gases. Note - The liners must not be used where halogenic or chlorine vapours are present.

Maintenance

British Standards recommend all flue ways are regularly checked and kept clean. Chimneys used with solid fuel or wood should ideally be swept before, during and after the heating season or at least twice a year using sweeping rods attached to a bristle brush matching the flue diameter and fitted with ball end. Use a NACS member or qualified chimney sweep that gives a sweeping certificate.

Failure to follow these user and maintenance instructions will invalidate any warranties and risk damaging the liner.

Details of the 20 year conditional warranty which needs to be registered within 21 days of the liner installation can be viewed at www.topstak.co.uk

Topstak has a policy of continual development and improvements and reserves the right to alter product specification and details without notice. Topstak and Multiflex are registered Trademarks.

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Topstak

Chimneys | Liners | Renewables

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