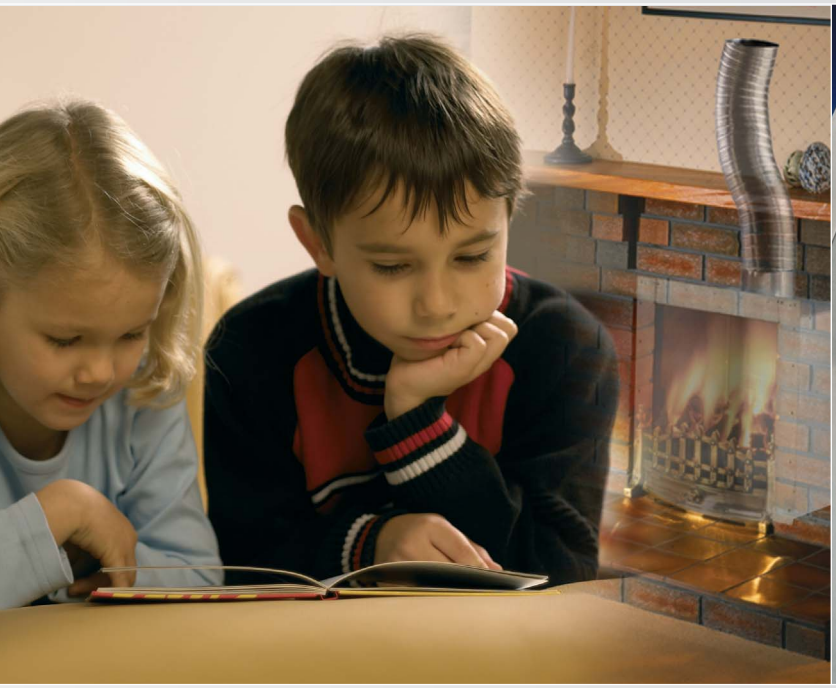
SCHIEDEL

RITE-VENT



FLEXIBLE LINERS & FLUE BOXES

For relining existing chimneys to take gas, oil and multi-fuel appliances including stoves & open fires.

- Single skin Wonderflex and Triplelock for gas and oil (28 sec)
- Twin skin Tecnoflex for oil and multi-fuel

CE

DOC/CP3/40 Issue 6 July 2009

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Application

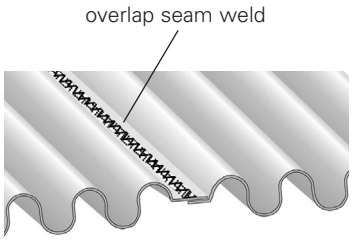
Flexible flue and chimney liners designed for lining an existing flue or chimney.

Wonderflex and Triplelock are single wall stainless steel flexible flue liners designed for atmospheric gas and kerosene appliances where the flue gas temperature does not exceed 260°C. Diameter range Wonderflex 100 - 200mm, Triplelock 80 - 500mm.

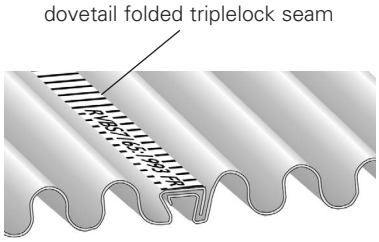
Tecnoflex is a twin skin flexible chimney liner designed for gas, oil and multifuel, where the maximum flue gas temperature does not exceed 600°C. Diameter range 80 - 300mm.

Product Description

Wonderflex



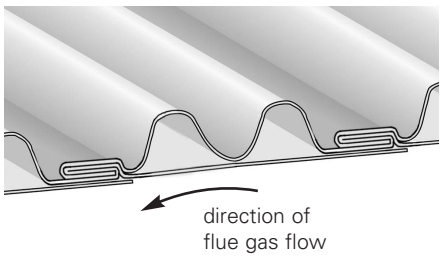
Triplelock



Single Wall Liners

- Made from corrosion-resistant 316L stainless steel.
- Leak resistant construction due to continuous weld (Wonderflex) or dovetail folded seam (Triplelock).
- Highest corrosion resistance.
- Deep corrugations for high crush resistance and better flexibility when installing.
- Strong seam construction resists the rigours of pulling the liner into place during construction.

Tecnoflex



Twin Wall Liner

- Both inner and outer layers made from corrosion-resistant 316L stainless steel. 904L stainless steel is also available as an option for the extreme conditions found with appliances like slumbering stoves.
- Corrugated outer skin for high crush resistance.
- Smooth inner skin resists corrosive attack due to easy drain down of condensate, less opportunity for soot collection and smooth surface for ease of sweeping.
- Inner skin remains overlapping to protect the joint from corrosion penetration even at minimum bending radius.
- Inner skin remains smooth and protective even after the rigours of installation.

Approvals

HETAS TÜV

Wonderflex and Triplelock are both tested and Kitemarked to BS715:1993 in diameters l00, 125 and l50mm. Tecnoflex , Wonderflex and Triplelock (Flexrite) are approved by HETAS and by CSTB (France) in diameters 125 to 200mm. All Schiedel Chimney Systems flexible flue liners are manufactured under the stringent requirements of BS EN ISO 9001 - 2000 Quality management scheme. And are tested and approved by TÜV to EN 1856-2.

Flue Sizing

This information and sizes are provided as a nominal guide only. Flue sizing for appliances, particularly commercial/industrial applications will vary depending on siting details and appliance manufacturer's instructions and design criteria. These will override the sizing guide below and reference must be made to appliance manufacturer.

Wonderflex and Triplelock

Flue Size Selection Guide	80 mm	100 mm	130 mm	150 mm	180 to 400mm
Gas - Atmospheric Boiler					
Input up to 25kW		•			
Input 25kW to 40kW			•		
Input 40kW to 60kW				•	
Gas - Commercial/ Industrial Boilers					
Input up to 50kW to 70kW					•2
Gas Fires					
'Radiant' - BS7977-1 2002			•		
'Inset' - BS7977-1 2002			•1		•1
'Backboiler' - BS7977-2 2003			•		
Gas Water Heaters					
Input up to 25kW	•	•			
Input 25kW to 55kW			•		
Input 55kW to 60kW				•	
Input over 60kW					•2
Gas Warm Air Units					
Input up to 18kW		•			
Input 18kW to 35kW			•		
Input 35kW to 60kW				•	
Input over 60kW					•2
Gas Stove/Cooker		•2	•2	•2	
Kerosene (28 sec Class C2) Heating Boiler					
Output up to 25kW		•			
Input 25kW to 45kW			•		
Input 45kW to 70kW				•	
Kerosene Stove/Cooker		•3	•3	•3	
Kerosene Water Heater					
Input up to 41kW				•	
Kerosene Visual Effect Stove					
Output up to 17kW		•3	•3		

Notes: 1 Subject to appliance manufacturer's testing criteria.
2 Subject to manufacturer's input rating and chimney height.
3 Subject to manufacturer's output rating and chimney height.
4 Min 300mm depending on opening, chimney size and height.
S Smokeless fuel only.
SC Smokeless fuel or coal.

Tecnoflex

Flue Size Selection Guide	100 mm	130 mm	150 mm	180 mm	200 mm	230 mm	250 to 400mm
Gas Boiler - Forced Draught							
Input up to 25kW	•						
Input 25kW to 45kW		•					
Input 45kW to 50kW			•				
Input 50kW to 75kW				•			
Input 75kW to 100kW					•		
Input over 100kW						•	•2
Gas Fires							
'Inset' to BS7977-1 2002				•1			
'Decorative' to BSEN 509:2000				•			
Gas Oil (35 sec Class D) Heating Boiler							
Output up to 25kW	•						
Input 25kW to 45kW		•					
Input 45kW to 70kW			•				
Input 70kW to 100kW				•			
Output over 100kW					•3	•3	•3
Solid Fuel Heating Boiler							
Output up to 20kW			•S	•SC			
Output 20kW to 30kW				•S	•SC	•SC	
Output 30kW to 60kW					•SC	•SC	•SC
Open Fires (Standard opening) 500mm x 550mm					• 200 min		
'Avant Garde' Feature Open Fires							•4
Room Heaters			•S				
Wood burning Stoves/Cookers. Use only seasoned wood which has been stored 1/2 years in dry conditions.			•	• 180 min			
Inglenook or nonstandard opening. The Cross sectional area of the chimney liner must be a minimum of 15% of the total cross sectional area of the fireplace opening.						• 230 min	

Notes: 1 Subject to appliance manufacturer's testing criteria.
2 Subject to manufacturer's input rating and chimney height.
3 Subject to manufacturer's output rating and chimney height.
4 Min 300mm depending on opening, chimney size and height.
S Smokeless fuel only.
SC Smokeless fuel or coal.

System Design

Mandatory requirements on acceptable chimney, flexible liner and appliance combinations.
Building Regulations Document J requires that a flexible flue liner can only be installed completely enclosed inside a masonry chimney. A non masonry enclosure such as timber or plasterboard boxing in is not acceptable.

The type of flue liner permitted depends on the fuel to be used, the type of appliance and the type and year of chimney construction in which it is to be fitted.

Building Regulations Document J, outlines different requirements for relining masonry chimneys built before and after 1st February 1966. This is summarised in the table below.

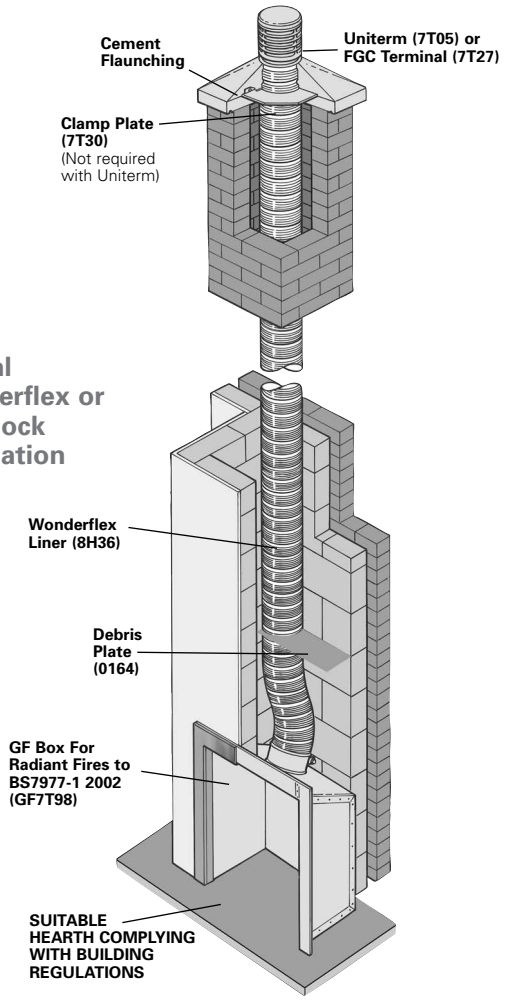
Appliance	Chimneys built before 1.2.1966	Chimneys built after 1.2.1966
Gas burning Input up to 45kW	BS Wonderflex or Triplelock can be used in unlined chimney	BS Wonderflex or Triplelock can be used in lined chimney
Kerosene burning Output up to 45kW	**F.G.T. under 260˚** BS715 Wonderflex or Triplelock can be used in unlined chimney & surrounding airspace insulated	**F.G.T. over 260˚** BS715 Wonderflex or Triplelock can be used in lined chimney & surrounding airspace insulated
Gas/Oil burning Output up to 45kW	Tecnoflex can be used in unlined chimney & surrounding airspace insulated	Tecnoflex can be used in lined chimney & surrounding airspace insulated
Solid Fuel burning Output up to 45kW	Tecnoflex can be used in unlined chimney & surrounding airspace insulated & ventilated	Tecnoflex can be used in lined chimney & surrounding airspace insulated & ventilated

Termination methods recommended by BS7566 Part 4
For gas burning installations, a flue terminal is required that complies with section 5 of BS715:1993. Where a proprietary terminal is not used, the free area of outlet openings on the termination shall be at least twice the cross sectional area of the flue. Outlet openings shall be such that they will admit a ball of 6mm diameter but not of 16mm diameter. The openings shall be uniformly distributed around the terminal or arranged at two opposite faces. (BS5440 Part I). An approved terminal should be used to protect the end of the flue. A gas flue terminal must be fitted to an all gas installations of 170mm diameter or less.

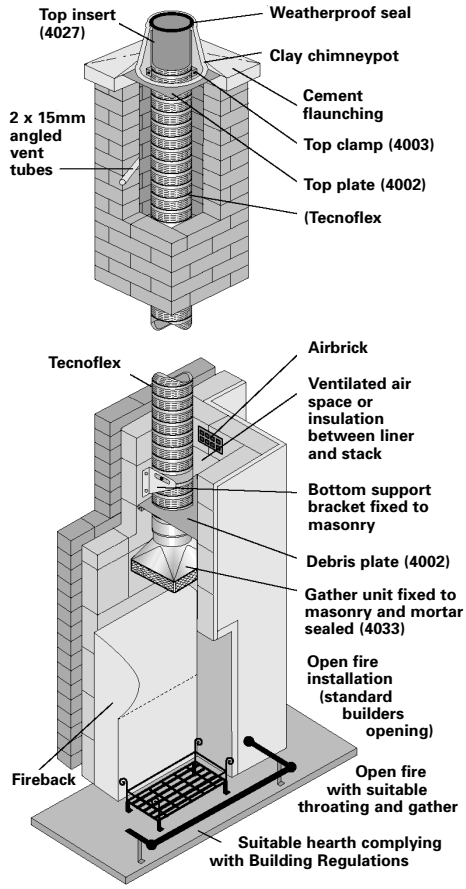
For oil burning installations, a rain cap or universal terminal may be used, however, as there is a corrosion risk on such systems, regular inspection is recommended.

Multi-fuel Applications, Rain caps and universal terminals are not recommended for use on solid fuels, as the use of covered terminals will increase flow resistance and encourage the formation of aggressive condensates and deposits. In some instances, a terminal incorporating a spark guard may be demanded to reduce the risk of fire hazard. For all multifuel systems, regular cleaning is essential to prevent the accumulation of material which could ignite and create a fire hazard.

Typical Wonderflex or Triplelock Installation

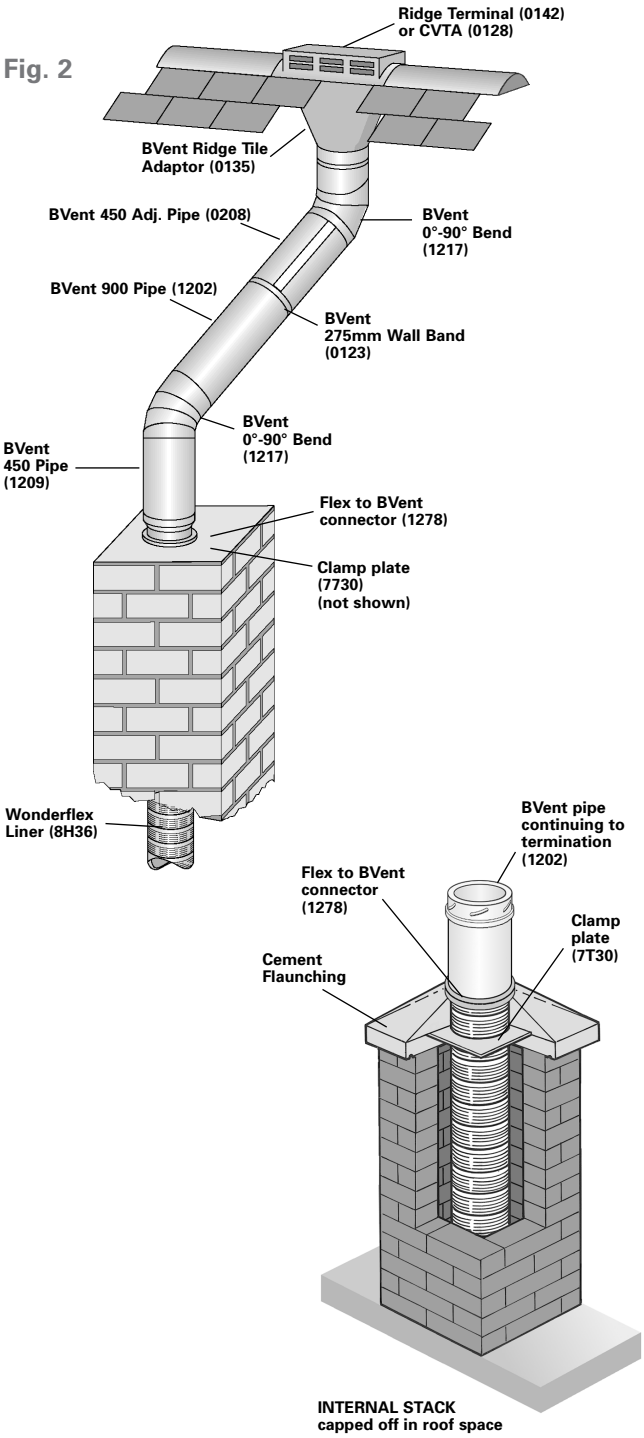


Typical Multi-fuel Installation



Re-use of a previously capped or shortened chimney.
The chimney can be reused providing the existing brickwork is inspected to ensure it is in good condition. The chimney can be lined with the appropriate liner, ensuring that the liner is used only inside the stack. Connection to flue pipe - see Fig.1, or to BVent (gas), KVent (kerosene) or ICS (multifuel) system can be made to the appliance/ termination, by using the appropriate connector inside the chimney, and suitably sealed with fire cement. The stack can be extended using ICS, BVent , KVent or ICID depending on the application see Fig.2.

Fig. 2



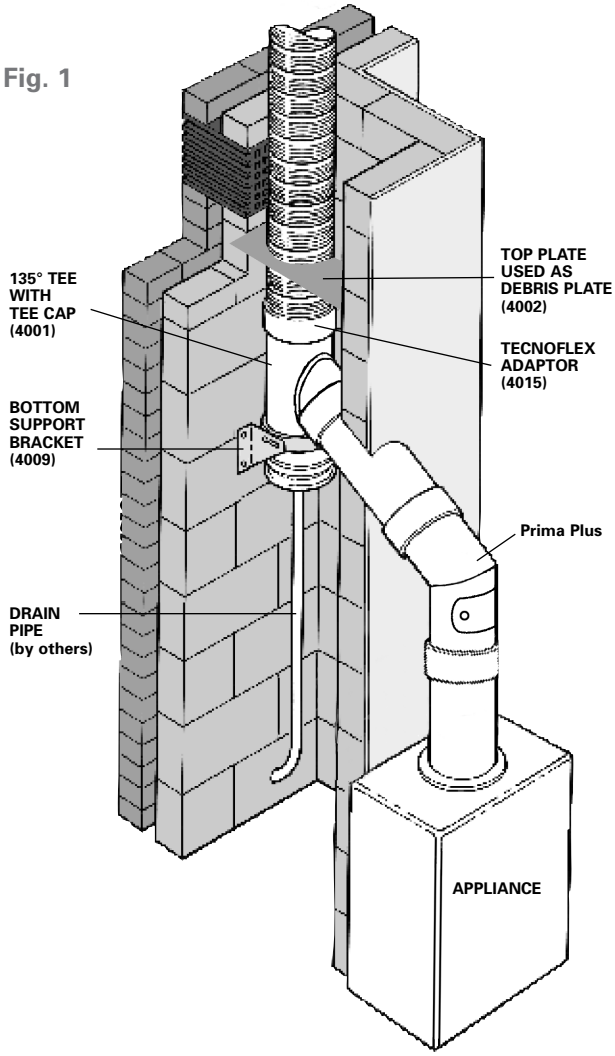
Re-use of a fitted flexible liner when changing the appliance.
Provided the diameter and type of flex is suitable for the new appliance to be fitted and the installer has inspected the liner and is satisfied with its condition the liner can be reused.

However, as the lifespan of the previous appliance and liner may not be known, it is strongly recommended the old flueliner is removed, the chimney swept, then a suitable new liner installed.

Use of flue liner on condensing appliances.
Wonderflex & Triplelock is not suitable for use on condensing appliances as the internal surface profile is convoluted and can hold aggressive residues caused by the flue gases which will attack and eventually corrode the stainless steel. Tecnoflex can be used on condensing appliances, which have pressure at the flue outlet of 200Pa maximum, and provided the liner is insulated so condensation formation is minimised. It is also necessary to fit a tee and drain point at the base of the vertical system, adequately supported, and connected to a drainpipe to a suitable drain point.

Typical Condensing Appliance Connection

Fig. 1



Flue boxes for existing chimneys

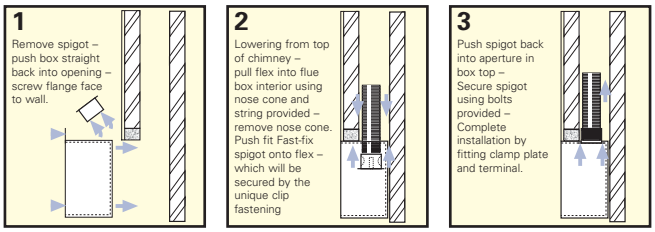
Which flue box and liner to choose

TYPES OF FIRE	SPECIFICATION	STANDARD	TYPE OF FLUE BOX	FLUE SIZE & TYPE
RADIANT	Suitable for radiant and convector radiant gas appliances using town gas, natural gas and liquid propane.	BS 7977-1 2002	Standard 0182125 Recessed 0183125 VRV T/Wall 7T95125 VRV S/Wall 7T91125 GF Box 7T98125	125mm Conforming to BS 715 e.g. B Vent or Flex
BACK BOILER UNIT	Combined Appliances: Gas fires/Back Boiler.	BS 7977-2 2003	Back Boiler Box 0165125 Flex	125mm Conforming to BS 715 e.g. B Vent or Flex
DFE OR DGF FIRES	Decorative Gas Log and other Fuel Effect Appliances up to 15 kW using natural gas and liquid propane.	BS EN 509: 2000	DGF Box 4090180 Tecnoflex	180mm Conforming to BS 4543 Pt 3
LIVING FLAME FIRES	Inset Live Fuel Effect Gas Fires up to 15kW. Not applicable to DFE fires as in BS 7977-1 2002 using natural gas and liquid propane.	BS 7977-1 2002	ILFE Box 0188125 Flex/ 4089180 Tecnoflex	180mm Conforming to BS 4543 Pt 3 can be relaxed to accept 125mm flue to BS 715 (see appliance manufacturers installation specifications for appliance).

Fast-fix spigot

For existing chimneys the flue box is normally connected to a flexible chimney liner. Schiedel Chimney Systems's unique new Fast-fix spigot makes the job much quicker and easier than before. Fast-fix greatly reduces the need for expensive builder's work and costly reparation after completion of the installation.

Fast-fix works like this

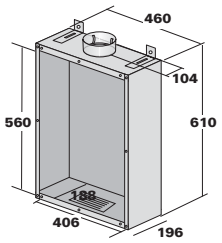


Condensation in the single skin flue box is minimised by insulating the outside of the box on site to comply with the appliance manufacturers installation instructions. Because of the air cavity in the twin skin box further insulation is generally not required

Flue boxes

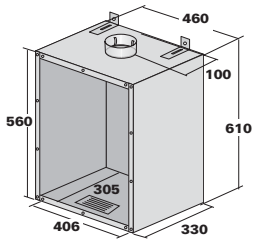
Standard Flue Box Ref: 0182125

Designed for use with radiant and decorative gas fires complying to BS 7977-1 2002. Constructed with an aluminium liner and coated steel outer case.



Recessed Flue Box Ref: 0183125

Designed with the spigot at the rear, for use with larger radiant and decorative gas fires. For gas fires to BS 7977-1 2002.

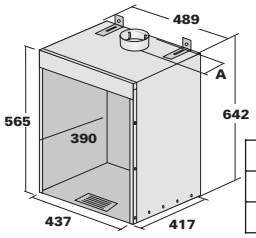


ILFE Flue Box

Ref: 0188125 for use with Wonderflex & Triplelock

Ref: 4089180 for use with Tecnoflex

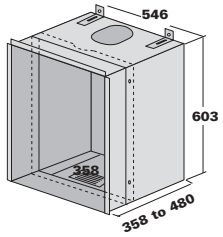
For use with Inset Live Fuel Effect gas fires complying to BS 7977-1 2002, with a heat output not exceeding 7kW.



	A
Wonderflex Triplock	122
Tecnoflex	149

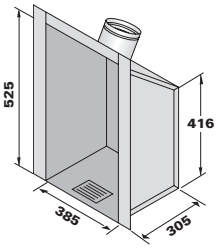
Large Flue Box for Back Boiler Ref: 0165125

Adjustable in depth from 358mm to 480mm to accommodate a wide range of back boilers, Suitable for fires complying with BS 7977-2 2003. ***Universal opening allowing connection to the boiler with B Vent or Flex.***



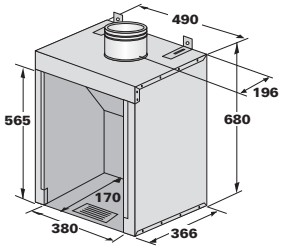
GF Flue Box Ref: 7T98125

Single wall design with sloping back to help fit some openings. For radiant gas fires complying with BS7977-1 2002.



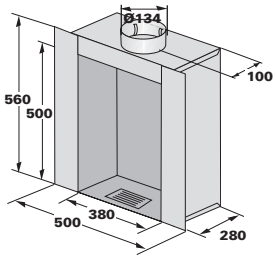
DGF Flue Box Ref: 4090180 for use with Tecnoflex

Manufactured with a ceramic inner wall, which simulates a fireplace opening, and a coated steel outer casing. Suitable for decorative gas fires with a heat input not exceeding 8kW. For appliances complying with BS EN 509: 2000.



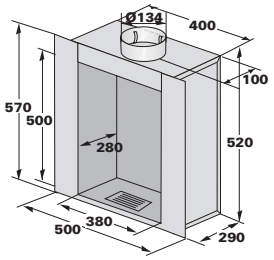
VRV Single Skin Flue Box Ref: 7T91125

Suitable for fires complying with BS7977-1 2002. Fits most popular radiant gas fires including the widely used Valor Firelite Oxysafe. Reduced height, extra depth and extra large flanges minimise builders work on installation.



VRV Twin Wall Flue Box Ref: 7T95125

Twin wall construction for reduced condensation. Otherwise as VRV Single Skin Box.



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Wonderflex and Triplelock Single Wall Liners

Available in either drums or individual packs for the most common sizes.

Drums

Drums available for diameters 80,100, 125, 150, 180, 200, 225 and 250mm.

300, 350 and 400mm diameters are only available in 10m lengths.

Drum length 80 metres for 100mm and 125mm, reducing thereafter. See price list for full details.

Packs

PACKS available for 100mm and 125mm diameters in the following lengths:

Length metres	6	7	8	9	10	11	12	13	14	15
Code	20	23	27	30	33	36	40	43	46	49

When ordering state:
Product Code / Length Code / Diameter.

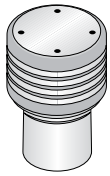
e.g. to order an 11m pack of Wonderflex 125mm diameter complete with clamp plate and terminal the code would be 9E36125.

	Product Code
Wonderflex	
Cut length	9H
Cut length & clamp plate only	9G
Cut length, clamp plate & terminal	9E
Triplelock	
Cut length	8H
Cut length & clamp plate only	8G
Cut length, clamp plate & terminal	8E

Wonderflex and Triplelock Accessories

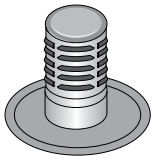
FGC Economy Terminal

Int Ø mm	100	125	150
Part No.	7T26100	7T27125	7T28150



Cast Aluminium Terminal

Int Ø mm	100	125
Part No.	7T16100	7T15125

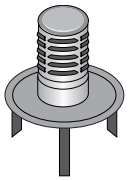


Uniterm Type A 7T05125

Int Ø mm	125

This Uniterm assembly is designed to be installed to a potless chimney. (Typical 9"x 9"stack)

Tested and Certified to BS715: 1993

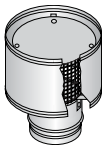


Uniterm Type B 7T04125

Int Ø mm	125

This Uniterm assembly is designed to be installed directly to the top of an existing round chimney pot.

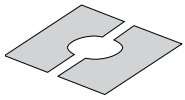
Tested and Certified to BS715: 1993



Universal Terminal 7T41

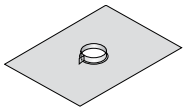
Int Ø mm	100	125	150	180	225	250	300	350	400

This item is manufactured in accordance with the requirements of BS5440.



Clamp Plate (2 piece)

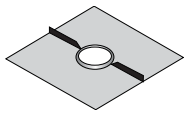
Int Ø mm	100	125	150
Part No.	7T29100	7T30125	7T31150



Debris Plate 0164

Int Ø mm	100	125	150

This item is used to seal the space between the liner and the chimney at the base of the stack.



Clamp and Plate

Int Ø mm	180	200	225	250	300	350	400
Part No.	7T32180	7T33200	7T34225	7T47250	7T48300	7T49350	7T50400

Tecnoflex Twin Wall Liners

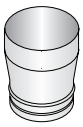
Tecnoflex is available for all diameters: 80, 100, 125, 155, 180, 200, 230, 250, 300, as cut lengths. When ordering state Product Code followed by Diameter.
eg. a 9m cut length of 180mm Tecnoflex is TPB09180.

	Product Code
Tecnoflex	TPB

Maximum Lengths Available

Diameter	Metres	Diameter	Metres
80 to 155	50	230	20
180	40	250	12
200	30	300	12

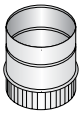
Tecnoflex Accessories



Adaptor 4015

Int Ø mm	125	155	180	200	230	250	300	350	400

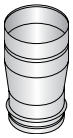
Use in conjunction with Prima 1mm Single Wall 90° and 135° tees to connect to Tecnoflex .



Appliance Connector 4013

Int Ø mm	125	155	180	200	230	250	300	350	400

This item is used to connect from the appliance to Tecnoflex .



Increaser Adaptor 4014

Int Ø mm	125	155	180	200	230	250	300	350	400

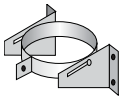
This item is used to increase from Prima 1mm Single Wall to the next diameter of Tecnoflex .

90° Tee with Drain 4005

Int Ø mm	125	155	180	200	230	250	300	350	400

135° Tee with Drain 4011

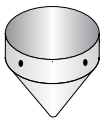
Int Ø mm	125	155	180	200	230	250	300	350	400



Bottom Support Bracket 4009

Int Ø mm	125	155	180	200	230	250	300	350	400

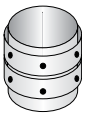
For use where a tee is fitted to the base of the stack. Can also be used as an intermediate support.



Nose Cone 4004

Int Ø mm	125	155	180	200	230	250	300	350	400

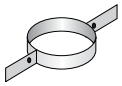
For attaching to one end of Tecnoflex in order to facilitate the installation of the liner into the chimney stack.



Joiner 4007

Int Ø mm	125	155	180	200	230	250	300	350	400

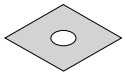
Suitable for use in joining lengths of Tecnoflex only when exceeding maximum coil length.



Top Clamp 4003

Int Ø mm	125	155	180	200	230	250	300	350	400

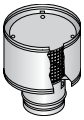
This item is used in conjunction with the top plate to secure the liner at the top of the stack. Can also be used as an intermediate support.



Top Plate 4002

Int Ø mm	125	155	180	200	230	250	300	350	400

This item is used in conjunction with the top clamp to support the liner at the top of the stack. Can also be used as an intermediate support and to be used as a debris plate above the appliance, gather unit or flue box.



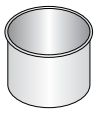
Universal Terminal 7T42

Int Ø mm	125	155	180	200	230	250	300	350	400

This item is manufactured in accordance with the requirements of BS5440 and suitable for use on gas and oil applications only.

Gather Unit 4033

Int Ø mm	180	200



Top Insert 4027

Int Ø mm	125	155	180	200	230	250	300	350	400

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Installation

Mandatory Requirements

Connection to an appliance which is not connected to the fuel supply, should be carried out by a competent person. Connection to an appliance that is connected to the fuel supply must be carried out by a GAS SAFE ENGINEER (Gas), OFTEC (Oil) or a HETAS registered installer.

Prior to installation

In all cases the chimney should be inspected for deterioration and if necessary any remedial work required should be carried out. The chimney should be swept, preferably by a member of NACS (National Association of Chimney Sweeps) or a suitably qualified chimney sweep who would provide a certificate after sweeping and checking, which should be retained for future reference.

It will be necessary to check that the flaunching at the top of the stack is not cracked, and if so replaced. The brickwork pointing and the flashings should be checked to ensure they are in good order and corrected as necessary.

Installation of the liner

The flue liner should be pulled down the chimney using a nose cone and string/rope. All Wonderflex & Triplelock packs are supplied with a nose cone.

In the case of Tecnoflex, a nose cone can be purchased and connected to the end of the Tecnoflex by using self tapping screws.

It is strongly recommended that a 1m test section, with nose cone attached, is pulled through the chimney prior to installation in order to ensure the chimney is suitably sized, and free from obstructions. These can be purchased separately from your local distributor.

When securing the liner to the clamp plate or clamp band, ensure 75mm of liner is protruding to secure the terminal.

Liner Orientation

It is essential in the case of Tecnoflex that the liner is installed the right way up. The arrow on the outside of the liner indicates the direction of flue gas flow and must be pointing upwards towards termination. Gas flex can be installed either way up.

Bending of the liner

Great care should be taken to avoid overbending or kinking the liner on installation. The maximum bending radii are shown in the table below.

Maximum Bending Radius (mm)													
Product	80	100	125	155	180	200	230	250	300	350	400	450	500
Wonderflex Triplelock	200	250	310	375	450	500	575	625	750	885	1000	1125	1250
Tecnoflex	240	300	375	465	540	600	690	750	900	1065	1200	-	-

Insulation

If insulation is required, normally granules such as Vermiculite, should be poured in at this stage after fitting a suitable debris plate at the bottom of the system. Alternatively a solid tube of high quality insulation can be used.

Support of the liner.

Wonderflex & Triplelock is relatively light and can be supported at the top of the chimney using a clamp plate fixed to the top of the masonry stack. Tecnoflex however, is heavier and must be supported using a separate plate and clamp securely fixed to the top of the stack. Where a tee is used at the base of the system to provide a drain point/cleaning access or connection to a flue pipe from the appliance, a bottom support bracket is required, fixed to the inside of the stack. In all cases, liner lengths exceeding 20 metres should be provided with intermediate support, by using additional clamp plates/support brackets.

Cutting the liner to the correct length for the chimney.

After the length of flue liner has been connected to the appliance, allow at least 75mm of liner to protrude above the clamp plate and cut. For Wonderflex & Triplelock, an industrial knife can be used. For Tecnoflex use metal snips. The cut ends must be secured using either electric tack welding or stainless steel rivets to avoid the liner risking unravelling. At all times extreme care must be taken when cutting the liner and strong industrial gloves long sleeved overalls should be worn as cut edges are very sharp. In addition, any tape secured to the ends of the liner, which is provided for safe handling prior to installation, must be removed before completion and commissioning of the full system.

Sealing the flue liner to the chimney pot.

The clamp plate or plate and clamp holding the liner to the chimney top should be fixed using screws and wall plugs. To weather the top of the chimney stack and seal any gaps between the liner installation and the chimney pot appropriate acid resistant mortar should be used.

Connection of the Terminal to the flue liner.

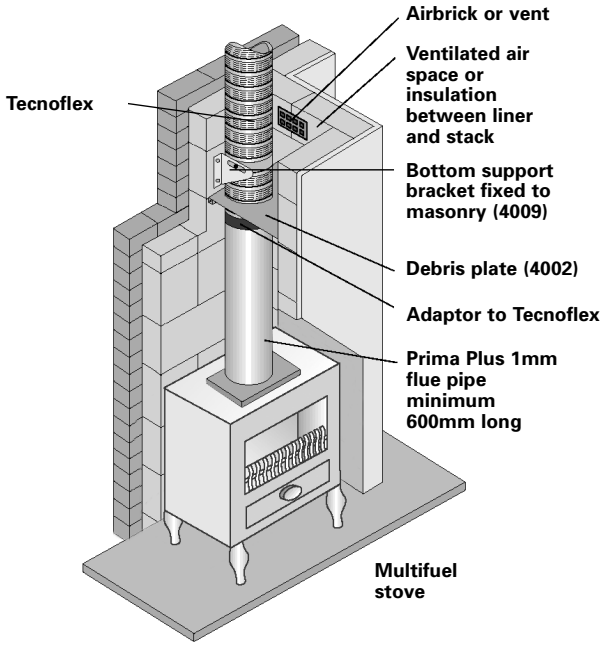
For gas and oil systems, the terminal should be fitted over the protruding 75mm of liner and rivetted or secured using self tapping screws. On Tecnoflex, where used on solid fuel appliances, a proprietary chimney pot must be fitted by bedding the pot on to the top plate.

Joining of flexible flue liner.

Flexible flue liners must be installed in continuous lengths without joiners. Schiedel Chimney Systems can supply all flue liners in specific lengths on drums or in pack form upon request. On Tecnoflex installations, joiners are only permitted where the chimney liner length exceeds the maximum drum length available and details of the installation are agreed in advance, in writing, in compliance with product warranty conditions.

Connection to the appliance or flue box.
The connection to the appliance should be made using fire cement/rope or high temperature sealant to ensure a positive seal. Generally an appliance connector is not required. Where Tecnoflex is to be fitted to the top of an open fire place, a Schiedel Chimney Systems gather unit should be fitted into the throat of the chimney connected to the Tecnoflex and sealed off.
When connecting to a Schiedel Chimney Systems flue box, the flexible liner simply pushes directly on to the fast fix spigot. No sealant is required.
When making a connection to a fluepipe in another product type, then the appropriate connector to/from flexible should be used. When making a connection to a fluepipe which is to be joined to the appliance spigot, then the appropriate BVent (gas), KVent (kerosene), ICS (multifuel) or Prima Plus 1mm (multifuel) appliance connector must be used, suitably sealed to the appliance spigot ensuring a gas tight joint.

Typical Flue Pipe Connection



After Installation

Testing before use.
This is done by means of a flue flow test as described in BS5440. This can be summarised as follows:- After a visual and physical check of the joints in the system, and ensuring an adequate air supply for combustion has been provided, close all doors and windows in the room in which the appliance is to be installed. It will be necessary to introduce heat to the flue system for a minimum of 10 mins and possibly up to 30 mins using a blow torch or similar. Position a smoke pellet (providing a performance of $5m^3$ of smoke in 30 secs burn time) at the intended position of the appliance. The test is satisfactory if there is no significant spillage from the appliance position, no seepage over the length of the system, and discharge only from the terminal. If these conditions are not met, the test has failed and all faults must be rectified before connection of the appliance to the fuel supply. In the event of any further problems, reference to BS5440 and BS6461 must be made.

Maintenance
Provision should be made for inspecting and cleaning the liner. This is especially important on Tecnoflex for solid fuel applications. The liner should be swept at least twice a year, and all deposits swept down the chimney must be removed. **Do not** use chemical chimney cleaners or metal scarifying devices under any circumstances. Mechanical cleaning with a stiff nylon brush and rods are the only recommended methods. Please refer to maintenance and end user instructions detailed on the reverse of the flap.

Life expectancy and warranties.
Under normal operating conditions and providing the liner is installed correctly, it should last the lifetime of the appliance which is normally 10 to 12 years. All flue liners carry a 10 year conditional warranty. The conditions are that the flue liner is correctly sized, installed, and properly maintained, burning only approved fuels in accordance with the Schiedel Chimney Systems and appliance manufacturer's instructions. For recommended fuels listings, please refer to the HETAS guide, or by contacting the Solid Fuel Association (Tel: 0845 6014406) or appliance manufacturer's instructions. Warranty registration details are provided with installation instructions for completion and registration with Schiedel Chimney Systems.

Use after a chimney fire
Whilst Tecnoflex is designed and tested to withstand chimney fire conditions the flue liner could be damaged under the conditions of a chimney fire, and must always be inspected by a suitably qualified individual (e.g. NACS/NACLE member) and replaced as necessary, before using the appliance or fire again.

End User Maintenance

1. Maintenance

CLEANING

It is recommended that chimneys serving solid fuel appliance be swept as frequently as necessary but at least twice a year. Ideally this should take place in the middle of the heating season and at the end of the season. The chimney should be inspected at the start of the heating season for blockages, such as birds nests.

CLEANING METHODS

It is advised that only mechanical sweeping methods are used, chemical cleaners are not recommended. The services of a professional chimney sweep should be employed.

2. Warning

Failure to maintain a clean chimney can result in the emission of toxic gases into the dwelling or damage from potential chimney fires. If a chimney fires does occur, professional advice should be sought regarding the condition of the chimney. The chimney should be inspected at least once a year to see if the construction materials are in good condition. Particular attention should be paid to terminals, sections externally exposed above the roof line and inspection openings. Should any component show any sign of deterioration, professional advice should be sought. It could be necessary to replace these components in order to ensure that the chimney can operate correctly.

3. Fuels

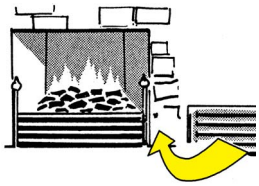
It is advisable that only the fuel recommended by the appliance manufacturer be used. Household refuse must not be burnt. Wood-burning produces considerable deposits of soot, tarry matter and wood ash. The amount of these deposits can be reduced by burning well seasoned, air-dried (preferably 12-24 months) wood, and by ensuring that an active bright fire is maintained.

4. Appliance Operation

If the appliance is slumbered overnight or for longer periods then it is advisable to run the appliance at controlled high fire condition for a period of at least 30 minutes. Prolonged slumbering of the appliance is a contributing factor to a liner failure. It is important to maintain sufficiently high flue gas temperatures in order to avoid condensate and acid corrosion problems.

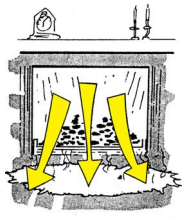
5. Ventilation

It is very important that sufficient air for combustion and ventilation is provided to the room containing the appliance to enable correct and efficient working of the appliance and chimney. Recommendations are given in the Building Regulations or CIBSE Guidance notes.



6. Downdraughts

There are many possible causes of down-draught problems including the height of the chimney. If these problems occur it is recommended that professional advice is sought. A range of anti-downdraught terminals are available.



Every effort is made to ensure accuracy at time of going to press. However, as part of our policy of continual product development, we reserve the right to alter specifications without prior notice.

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For relining existing chimneys to take gas, oil, wood, multifuel appliances and open fires.

Single skin Wonderflex and Triplelock for gas & oil (28 sec).

Twin skin Tecnoflex for oil, wood, multifuel and open fires.

80-400mm diameter range.

Flue Boxes

For installing gas fires and back boilers.

Connection to single and twin skin flexible liners, B Vent, ICS or ICID.

Fast fix spigot for flex connection avoids much of the building work.

Single skin and twin skin air-insulated versions.

Other products in the Schiedel Chimney Systems range

K Vent

Twin wall insulated venting system for oil (28 sec) and gas appliances.

Residential and small commercial applications.

100-150mm internal diameters.

Oil appliances up to 45kW output.

Gas appliances up to 60kW input.

Interfits with B Vent gas vent.

B Vent

Twin wall gas venting system.

Residential & small commercial applications.

100 - 150mm internal diameters.

Gas appliances up to 60kW input.

ICID

Quick assembly twin wall insulated chimney system for gas, oil, wood and multifuel appliances and open hearths.

Residential and small commercial applications.

125-300mm internal diameters.

Quick assembly twist-lock joint.

For atmospheric appliances and Class 1 chimneys.

Prima

Single wall stainless steel flue system.

80-755mm diameter range.

Prima Plus for large residential and commercial condensing gas and oil appliances and chimney relining, commercial warm air heaters, gas and oil venting and particle/fume extraction.

Prima Plus1mm for domestic multi fuel stoves.

ICS

Twin wall insulated chimney system for gas, oil, wood and multifuel appliances and open hearths

Residential and commercial applications.

80-705mm internal diameters.

For atmospheric, condensing and pressure appliances.

Wet or dry flue and chimney operating conditions.

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