

# FLEX LINERS & FLUE BOXES

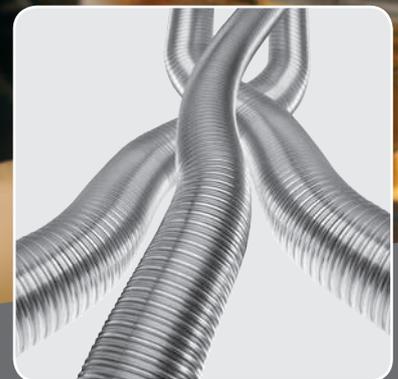
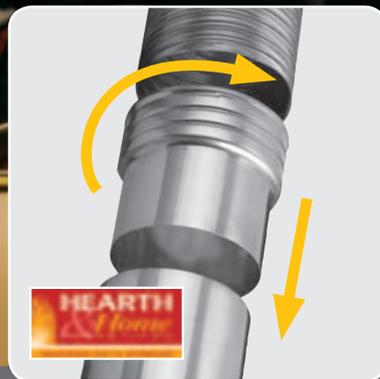
*For relining existing chimneys to take gas, oil and multi-fuel appliances including stoves and open fires.*

**UPDATED  
RANGE!**

*Includes*

**NEW UNIQUE**

*TecnoFlex Plus  
Installation kits*



# Application

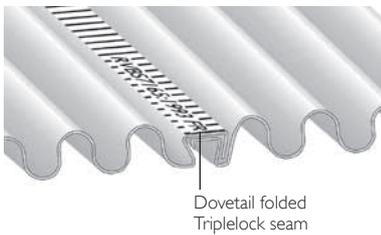
Flexible flue and chimney liners designed for lining an existing flue or chimney.

Triplelock is a single wall stainless steel flexible flue liner designed for atmospheric gas and kerosene appliances where the flue gas temperature does not exceed 260°C. Diameter range Triplelock 100 - 300mm.

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

## Product Description

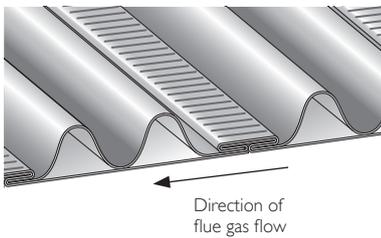
### TRIPLELOCK



### SINGLE WALL LINERS

- Made from corrosion-resistant 316L stainless steel.
- Leak resistant construction due to 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 PLUS



### TWIN WALL LINER

- Unique joint design giving exceptional strength to the lock.
- 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.  
Extra smooth inner skin allows for easy drain down of condensates, less opportunity for soot to collect in the joint area and ease of sweeping.
- Inner skin remains smooth and protective even after the rigours of installation.

## Approvals



TecnoFlex Plus is CE Certified to EN1856-2 TÜV 0036 CPD 9195 035 with designations:

High Temperature Applications	Low Temperature Applications
T600 NI W V2 L50012 G T600 NI W V2 L70012 G	T200 PI W V2 L50012 O T200 PI W V2 L70012 O

Triplelock is CE Certified to EN1856-2 TÜV 0036 CPD 9195 023 with designations:

Applications
T300 NI W V2 L50010 O

# Packaging Options

TECNOFLEX PLUS IS AVAILABLE IN 3 PACKAGING OPTIONS:

## TecnoFlex Plus Option 1 - Shrink Wrap Packs

Code	Description	Internal Ø (mm)						
Order Ref	Pack Lengths	80	100	125	150	155	180	200
SAP Code 316L version (Please contact us for 904L version Code)	5m Pack	130490	124511	125034	COA	126418	126549	127128
	6m Pack	130493	124516	125040	125776	126420	126550	127129
	7m Pack	130494	124520	125045	125777	126421	126551	127130
	8m Pack	130497	124524	125049	125779	126422	126552	127131
	9m Pack	130498	124647	125054	125783	126423	126553	127132
	10m Pack	130457	124633	125002	125764	126396	126530	127112
	11m Pack	130458	124486	125006	125765	126397	126531	127113
	12m Pack	130461	124490	125010	125766	126398	126532	127114
	30m Pack	130467	124507	125028	125771	126413	126545	127126
40m Pack	-	124509	125030	125772	126415	-	-	



## TecnoFlex Plus Option 2 - Unwinder Cartons

Carton Dims. (m) Length x Width x Height	Order Ref	Internal Ø (mm)						
		80	100	125	150	155	180	200
1.2(l) x 1.2(w) x 1(h)	Length (m)	50	50	40	-	-	-	-
	Old Code	SBI250080D	124917	125420	-	-	-	-
	SAP Code	COA	COA	COA	-	-	-	-
1.2(l) x 1.2(w) x 1.6(h)	Length (m)	-	-	-	37	37	23	20
	Old Code	-	-	-	SBI237150D	SBI237155D	SBI223180D	SBI220200D
	SAP Code	-	-	-	COA	126440	COA	COA
1.2(l) x 1.2(w) x 1.2(h)	Length (m)	-	50	50	30	30	-	-
	Old Code	-	SBI250100D	SBI250125D	SBI230150D	SBI230155D	-	-
	SAP Code	-	124917	125421	126326	126439	-	-

COA : Code on application



## TecnoFlex Plus Option 3 - Unwinder Boats

Unwinder Dims. (m) Length x Width x Height	Order Ref	Description Coil Lengths	Internal Ø (mm)						
			100	125	150	155	180	200	
2.1(l) x 1.28(w) x 2.2(h)	SAP Code	80m Coil	COA	COA	-	-	-	-	
		60m Coil	-	-	COA	126419	-	-	
		40m Coil	-	-	-	-	COA	-	
		30m Coil	-	-	-	-	-	COA	

COA : Code on application



SINGLE WALL FLEX IS AVAILABLE IN 3 PACKAGING OPTIONS:

## Single Wall Flex Option 1 - Shrink Wrap Packs (Ø 100-125mm only)

Flex Type	Description Length (m)	Internal Ø								
		6	7	8	9	10	11	12	13	14
Triplelock	Liner only Ø100	124514	124519	124523	124527	124632	124485	124489	124493	124497
	Liner only Ø125	125037	125044	125048	125052	125001	125005	125009	125013	125017
	Liner & Clamp Plate Ø100	124513	124518	124522	124526	124631	124635	124488	124492	124496
	Liner & Clamp Plate Ø125	125036	125043	125047	125051	125000	125004	125008	125012	125016
	Liner, Clamp Plate & Terminal Ø100	124512	124517	124521	124525	124630	124634	124487	124491	124495
Liner, Clamp Plate & Terminal Ø125	125035	125042	125046	125050	124999	125003	125007	125011	125015	



## Single Wall Flex Option 2 - Reels (Ø 100-300mm only)

Flex Type	Description Reel Lengths	Internal Ø (mm)							
		100	125	150	180	200	225	250	300
Triplelock	80m	124546	125182	-	-	-	-	-	-
	50m	-	-	125883	-	-	-	-	-
	30m	-	-	-	126610	127183	-	-	-
	25m	-	-	-	-	-	127701	128187	-
	12m	-	-	-	-	-	-	-	128689



# TecnoFlex Plus Installation Kits

## Traditional & Pot Hanger Options



Chimney Notice Plate



Installation Instructions



Top Plate



Top Clamp



Top Insert



Screw Fit Adaptor  
Plain End to TecnoFlex Plus



Screw Fit Increasing Adaptor  
Plain End to TecnoFlex Plus



Screw Fit Nosecone



Screw Fit Terminal



Screw Fit Combined Pot Hanger & Terminal

Kit Contents	Traditional Kit						Pot Hanger Kit	
	A	B	D	E	G	H	C	F
Chimney Notice Plate	✓	✓	✓	✓	✓	✓	✓	✓
Installation Instructions	✓	✓	✓	✓	✓	✓	✓	✓
Top Plate	✓	✓	✓	✓	✓	✓		
Top Clamp	✓	✓	✓	✓	✓	✓		
Top Insert	✓		✓					
Screw Fit Adaptor - Plain End to TecnoFlex Plus	✓	✓			✓		✓	
Screw Fit Increasing Adaptor - Plain End to TecnoFlex Plus			✓	✓		✓		✓
Screw Fit Nose Cone	✓	✓	✓	✓			✓	✓
Screw Fit Terminal		✓		✓	✓	✓		
Screw Fit Combined Pot Hanger & Terminal							✓	✓

### TRADITIONAL KITS

**Kit A**

Int Ømm	125	155	180	200
SAP Code	125422	126441	127019	127623

**Kit B**

Int Ømm	125	155	180	200
SAP Code	125423	126442	127020	127624

**Kit D**

Int Ømm	125	155	180	200
SAP Code	125425	126444	127022	127626

**Kit E**

Int Ømm	125	155	180	200
SAP Code	125426	126445	127023	127627

**Kit G**

Int Ømm	125	155	180	200
SAP Code	125428	126447	127025	127629

**Kit H**

Int Ømm	125	155	180	200
SAP Code	125429	126448	127026	127630

### POT HANGER KITS

**Kit C**

Int Ømm	125	155	180	200
SAP Code	125424	126443	127021	127625

**Kit F**

Int Ømm	125	155	180	200
SAP Code	125427	126446	127024	127628

### FLEX TESTER KIT

Int Ømm	125	155	180	200
SAP Code	125418	126436	127017	127621

# 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.

## TRIPLELOCK

Flue Size Selection Guide				
	100 mm	125 mm	150 mm	180 to 400mm
<b>Gas - Atmospheric Boiler</b> Input up to 25kW Input 25kW to 40kW Input 40kW to 60kW	•	•	•	
<b>Gas - Commercial/ Industrial Boiler</b> Input up to 50kW to 70kW				•2
<b>Gas Fires</b> 'Radiant' to BS7977-1 2002 'Inset' to BS7977-1 2002 'Backboiler' to BS7977-2 2003		• •1 •		•1
<b>Gas Water Heaters</b> Input up to 25kW Input 25kW to 55kW Input 55kW to 60kW Input over 60kW	•	•	•	•2
<b>Gas Warm Air Units</b> Input up to 18kW Input 18kW to 35kW Input 35kW to 60kW Input over 60kW	•	•	•	•2
<b>Gas Stove Cooker</b>	•2	•2	•2	
<b>Kerosene (28 sec Class C2) Heating Boiler</b> Output up to 25kW Input 25kW to 45kW Input 45kW to 70kW	•	•	•	
<b>Kerosene Stove/Cooker</b>	•3	•3	•3	
<b>Kerosene Water Heater</b> Input up to 41kW			•	
<b>Kerosene Visual Effect Stove</b> 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 PLUS

Flue Size Selection Guide							
	80 to 100mm	130 mm	150 mm	180 mm	200 mm	230 mm	250 to 300mm
<b>Gas Boiler - Forced Draught</b> Input up to 25kW Input 25kW to 45kW Input 45kW to 50kW Input 50kW to 75kW Input 75kW to 100kW Input over 100kW	•	•	•	•	•	•	•2
<b>Gas Fires</b> 'Inset' to BS7977-1 2002 'Decorative' to BSEN 509:2000				•1 •			
<b>Gas Oil (35 sec Class D) Heating Boiler</b> Output up to 25kW Input 25kW to 45kW Input 45kW to 70kW Input 70kW to 100kW Output over 100kW	•	•	•	•	•3	•3	•3
<b>Solid Fuel Heating Boiler</b> Output up to 20kW Output 20kW to 30kW Output 30kW to 60kW			•S	•S	•SC	•SC	•SC
<b>Open Fires (Standard Opening)</b> 500mm x 550mm					•200 min		
<b>'Avant Garde' Feature Open Fires</b>							•4
<b>Room Heaters</b>			•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 & 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 alongside.

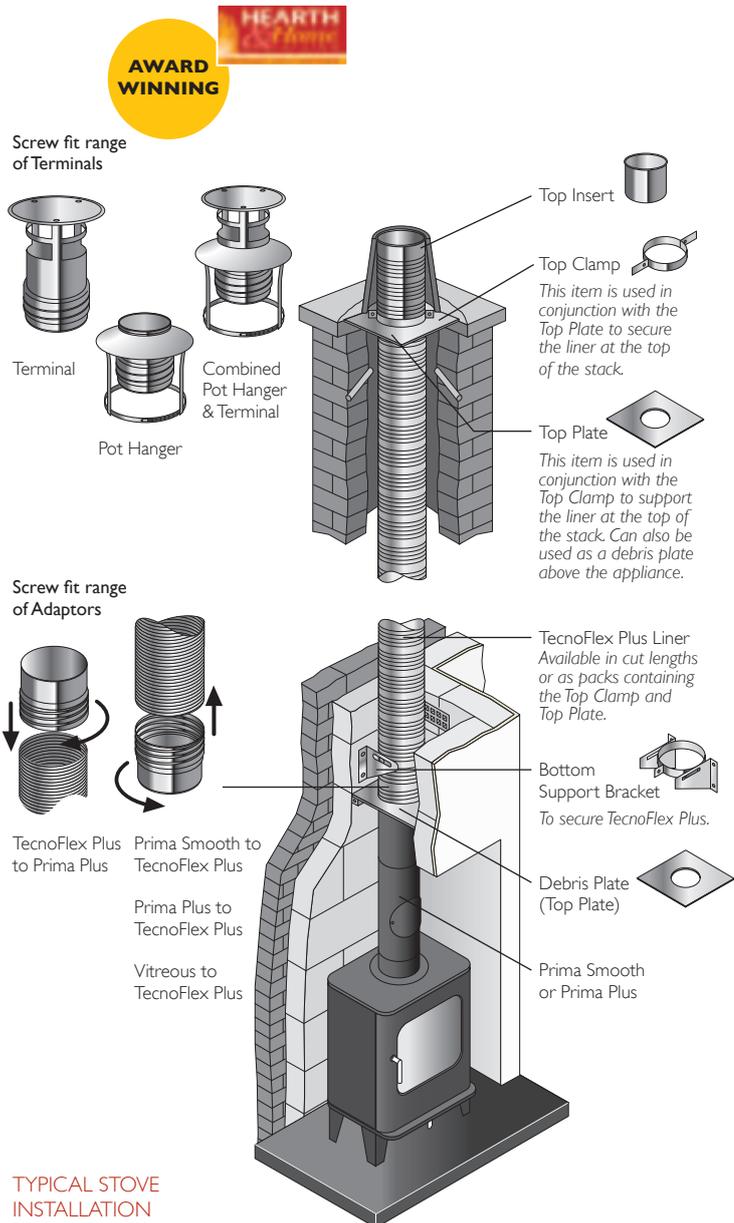
Appliance	Chimneys built before 1.2.1966	Chimneys built after 1.2.1966
<b>Gas Burning</b> Output up to 45kw	Triplelock can be used in unlined chimney on dry applications.	Triplelock can be used in lined chimney on dry applications.
<b>Kerosene Burning</b> Output up to 45kw	Triplelock can be used in unlined chimney on dry applications.	Triplelock can be used in lined chimney on dry applications.
<b>Gas/Oil Burning</b> Output up to 45kw	TecnoFlex Plus can be used in unlined chimney on wet and dry applications.	TecnoFlex Plus can be used in unlined chimney on wet and dry applications.
<b>Solid Fuel Burning</b> Output up to 45kw	TecnoFlex Plus can be used in unlined chimney.	TecnoFlex Plus can be used in lined chimney.

## TERMINATION METHODS RECOMMENDED BY BS7566 PART 4

**For gas burning installations,** a flue terminal is required that complies with section 5 of BS715. 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 1). 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 multi-fuel systems, regular cleaning is essential to prevent the accumulation of material which could ignite and create a fire hazard.



TYPICAL STOVE INSTALLATION



# TecnoFlex Plus - Flexible Twin Wall Liner

TecnoFlex Plus is available in diameters: 80, 100, 125, 155, 180, 200, 230, 250, & 300mm. Packaging options for Ø80-200mm are shown on p.3. For Ø230-300mm TecnoFlex Plus is available in cut lengths of up to a maximum length of 12m.

## Screw Fit Accessories



Adaptor -  
Plain End to TecnoFlex Plus

4044



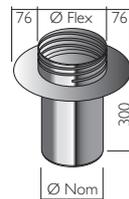
Int Ø mm	95/125	121/125	121/155	147/155	147/180	171/180	171/200	197/200
Ø Flex	125	125	155	155	180	180	200	200
Ø Nom	98	122	122	146	146	176	176	196
SAP Code	110227	110363	110459	110765	110848	111153	111290	111502

Extended Adaptor -  
Plain End to TecnoFlex Plus

4049



Int Ø mm	121/155	147/155
Ø Flex	155	155
Ø Nom	125	150
SAP Code	111420	111427



Closure Plate  
Adaptor Kit

4052

Int Ø mm	121/155	147/155
Ø Flex	155	155
Ø Nom	125	150
SAP Code	112090	112091

Increaser -  
Eccentric Plain End to TecnoFlex Plus

4051



Int Ø mm	121/155
Ø Flex	155
Ø Nom	125
SAP Code	110151

Adaptor -  
Prima Smooth to TecnoFlex Plus

PS0E3



Int Ø mm	125/125	125/155	150/155	180/180	200/200
Ø Flex	125	155	155	180	200
Ø Nom	125	125	150	200	200
SAP Code	110176	119949	110411	120028	119947

Adaptor -  
Prima Plus to TecnoFlex Plus

S0E3



Int Ø mm	80	100	130/125	150/155	180	200	230	250	300
Ø Flex	80	100	125	155	180	200	230	250	300
Ø Nom	80	100	130	150	180	200	230	250	300
SAP Code	COA	COA	110053	110189	106899	106900	COA	106902	106903

COA : Code on application

Adaptor -  
TecnoFlex Plus to Prima Plus

4040



Int Ø mm	80	100	125/130	155/150	180	200	230	250	300
Ø Flex	80	100	125	155	180	200	230	250	300
Ø Nom	80	100	130	150	180	200	230	250	300
SAP Code	COA	COA	110052	110188	106912	106913	COA	COA	COA

COA : Code on application



Pot Hanger

4047

Int Ø mm	125	155	180	200
SAP Code	111285	112305	111992	112551



Combined  
Pot Hanger & Terminal

4050

Int Ø mm	125	155	180	200
SAP Code	112086	112727	112935	114204



**Terminal** 4048

<b>Int Ø mm</b>	125	155	180	200
<b>SAP Code</b>	111292	111583	111957	112183



**Screw Fit Joiner - TecnoFlex Plus to TecnoFlex Plus**

4038

<b>Int Ø mm</b>	80	100	125	155	180	200	230	250	300
<b>SAP Code</b>	106917	106918	110297	110536	110691	106924	COA	COA	COA

COA : Code on application



**Nosecone**

4042

<b>Int Ø mm</b>	80	100	125	155	180	200	230	250	300
<b>SAP Code</b>	COA	COA	109953	109950	110395	110513	COA	COA	COA

COA : Code on application

## TecnoFlex Plus Accessories



**Top Clamp**

4003

<b>Int Ø mm</b>	80	100	125	155	180	200	230	250	300
<b>SAP Code</b>	106937	106938	125116	126427	106945	106946	106947	106948	106949

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 Insert**

4027

<b>Int Ø mm</b>	-	100	125	155	180	200	230	250	300
<b>SAP Code</b>	-	124692	125120	126430	126563	127140	127734	128154	128662

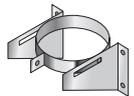


**Top Plate**

4002

<b>Int Ø mm</b>	80	100	125	155	180	200	230	250	300
<b>SAP Code</b>	130501	124690	125117	126428	126560	127138	127732	128152	128661

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.

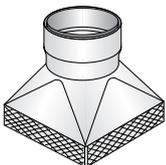


**Bottom/Intermediate Support Bracket**

4009

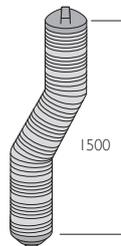
<b>Int Ø mm</b>	80	100	125	155	180	200	230	250	300
<b>SAP Code</b>	130499	124687	125114	126425	126558	127136	127729	128149	128658

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



**Gather Unit** 4033

<b>Int Ø mm</b>	180	200
<b>SAP Code</b>	126556	127135



**TecnoFlex Plus Tester Kit**

<b>Int Ø mm</b>	125	155	180	200
<b>SAP Code</b>	125418	126436	127017	127621

This kit is used as a test length prior to installing the main flex liner to ensure safe passage through the chimney for the liner.



**Push Fit Adaptor**

4046

<b>Int Ø mm</b>	98/125	122/125	122/155	146/155	146/180	176/180	176/200	196/200
<b>Ø Flex</b>	125	125	155	155	180	180	200	200
<b>Ø Nom</b>	98	122	122	146	146	176	176	196
<b>SAP Code</b>	110602	110585	110814	110808	111263	110969	111459	111262

# Triplelock - Flexible Single Wall Liner

## DRUMS

Triplelock is available in drums for diameters 100, 125, 150, 180, 200, 225 and 250mm.

300mm diameter is only available in 10m lengths.

Drum length 80 metres for 100mm and 125mm, reducing thereafter.

See p.3 for full details.

## PACKS

Triplelock is available in packs for 100mm and 125mm diameters in the following lengths:

Length (m)	6	7	8	9	10	11	12	13	14	15
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## FLEX PACKS

Triplelock
Cut Length
Cut Length, & Clamp Plate only
Cut Length, Clamp Plate & Terminal

## Triplelock Accesories



**FGC Economy Terminal**

Int Ø mm	100	125	150
Old Code	7T26100	7T27125	7T28150
SAP Code	130743	130744	130745



**Cast Aluminium Terminal**

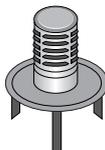
Int Ø mm	100	125
Old Code	7T16100	7T15125
SAP Code	124697	125126



**Uniterm Type A** 7T05125

Int Ø mm	125
SAP Code	125431

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
SAP Code	125432

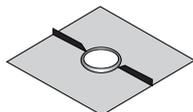
This Uniterm assembly is designed to be installed directly to the top of an existing round chimney pot.  
Tested and Certified to BS715: 1993



**Universal Terminal** 7T42

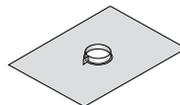
Int Ø mm	100	125	150	155	180	200	230	250	300
SAP Code	124700	125132	125823	126433	126568	127147	127736	128157	128665

This item is manufactured in accordance with the requirements of BS5440



**Clamp Plate (2 Piece)**

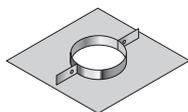
Int Ø mm	100	125	150
Old Code	7T29100	7T30125	7T31150
SAP Code	124693	125121	125817



**Debris Plate** 0164

Int Ø mm	100	125	150
SAP Code	124695	125123	125819

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
Old Code	7T32180	7T33200	7T34225	7T47250	7T48300
SAP Code	126566	127143	COA	COA	COA

COA : Code on application

# Flue Boxes

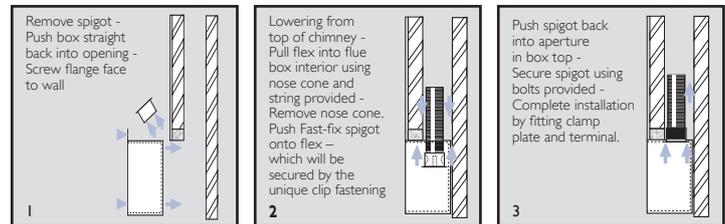
## WHICH FLUE BOX & LINER TO CHOOSE

Type of Fire	Specification	Type of Flue Box	Flue Type & Size
Radiant	Suitable for radiant and convector radiant gas appliances using natural gas or liquid propane	Standard Recessed VRV T/Wall VRV S/Wall GF Box	Diameter 125mm Flex conforming to BS EN1856-2 Diameter 125mm B Vent conforming to BS EN1856-1
Back Boiler Unit	Combined Appliances: Gas fires/Back boiler	Back Boiler Box for Flex	Diameter 125mm Flex conforming to BS EN1856-2 Diameter 125mm B Vent conforming to BS EN1856-1
Living Flame Fires	Inset live fuel effect live fires up to 15kw	ILFE Box Flex/TecnoFlex Plus	Flex conforming to BS EN1856-2 Diameter as per appliance requirement

## Fast Fix Spigot

For existing chimneys the flue box is normally connected to a flexible chimney liner. Schiedel Rite-Vent'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.

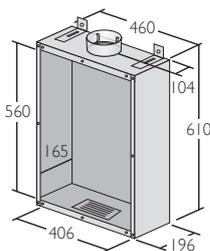
### FAST FIX WORKS LIKE THIS



## Flue Boxes

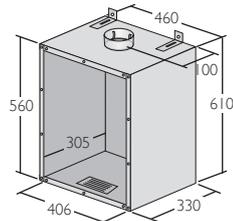
**Standard Flue Box** **Old Code** 0182125 **SAP Code** 125417

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



**Recessed Flue Box** **Old Code** 0183125 **SAP Code** 125134

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

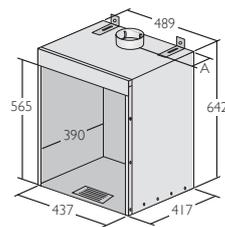


**ILFE Flue Box** **Old Code** 0188125 **SAP Code** 125129

For use with Triplelock

	A	<b>Old Code</b> 4089180
Flex	122	<b>SAP Code</b> 126557
Tecno	149	For use with TecnoFlex Plus

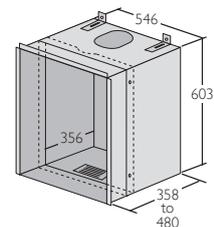
For use with Inset Live Fuel Effect gas fires complying to BS 7977-1, with a heat output not exceeding 7kw.



**Large Flue Box for Back Boiler** **Old Code** 0165125 **SAP Code** 125062

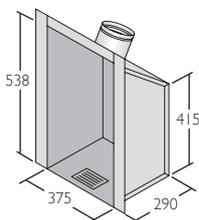
Adjustable in depth from 358mm - 480mm to accommodate a wide range of back boilers. Suitable for fires complying with BS 7977-2.

Universal opening allowing connection to the boiler with B Vent or Flex.



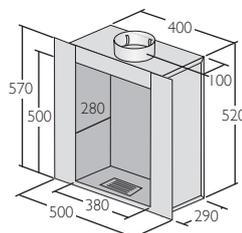
**GF Flue Box** **Old Code** 7T98125 **SAP Code** 125414

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



**VRV Twin Wall Flue Box** **Old Code** 7T95125 **SAP Code** 125189

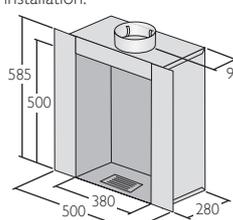
Twin wall construction for reduced condensation. Otherwise as VRV Single Skin Box.



**VRV Single Skin Flue Box** **Old Code** 7T91125 **SAP Code** 125416

Suitable for fires complying with BS7977-1. 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.



# Installation

## MANDATORY REQUIREMENTS

Connection to an appliance which is not connected to the fuel supply, should be carried out by a competent person. We recommend the use of HETAS approved installers for solid fuel applications. However connection to an appliance that is connected to the fuel supply, must be carried out by a Gas Safe (Gas) or OFTEC (Oil) 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.

The brickwork pointing and the flashings should be checked to ensure they are in good order and corrected as necessary.

## INSTALLATION OF THE LINER

Prior to installation of the Flex, we recommend that a test length of approx. 1.5m with a nose cone attached to each end, is pulled through the chimney to ensure that the chimney is suitably sized and free from obstructions. Failure to do so may lead to the warranty being invalidated on the Flex if damage has been caused due to snagging on an obstruction.

The flue liner should be pulled down the chimney using a nose cone and string/rope. All Triplelock packs are supplied with a nose cone. In the case of TecnoFlex Plus, a screw fit nose cone can be purchased and connected to the end of the TecnoFlex Plus by screwing the cone onto the outside of the TecnoFlex Plus.

## LINER ORIENTATION

It is essential in the case of twin wall TecnoFlex Plus 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. Triplelock 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 minimum bending radii are shown in the table below.

Minimum Bending Radius													
Product	80	100	125	155	180	200	230	250	300	350	400	450	500
Triplelock	-	250	310	375	450	500	575	625	750	885	1000	1125	1250
TecnoFlex Plus	240	300	375	465	540	600	690	750	900	-	-	-	-

## INSULATION

Where the chimney is highly exposed or in a large void, then insulation should be considered. If insulation is required, granules such as Vermiculite, should be poured in around the liner from the top of the stack 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

Triplelock, which is used exclusively on gas and oil applications, 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 Plus, however, is heavier and must be supported at both top and bottom of the stack. At the top of the stack there are two alternatives:

1. Plate and clamp fixed directly to the existing masonry stack.
2. Pot Hanger/ Combined Pot Hanger & Terminal supporting the weight of the flex using the existing chimney pot. At the base of the stack a bottom support bracket should be used.

## CUTTING THE LINER TO THE CORRECT LENGTH FOR THE CHIMNEY

After the length of flue liner has been connected to the appliance, allow a sufficient length of liner to protrude above the clamp plate to secure the terminal and then cut, using suitable cutting equipment. At all times extreme care must be taken when cutting the liner and strong industrial gloves plus 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.

## CONNECTION OF THE TERMINAL TO THE FLUE LINER

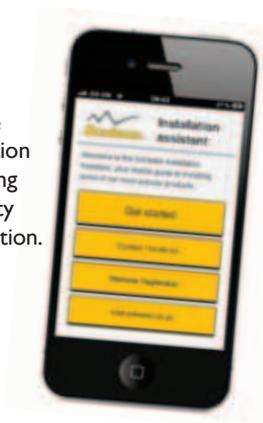
For Triplelock systems, the terminal should be fitted over the protruding 75mm of liner and rivetted or secured using self tapping screws.

For TecnoFlex Plus systems, please refer to the installation instructions for the various options.

For a direct link to the Flexible Liners Installation Instructions scan the QR code.



Scan QR code to download the Schiedel Installation App incorporating Product Warranty Registration function.



### JOINING OF FLEXIBLE FLUE LINER

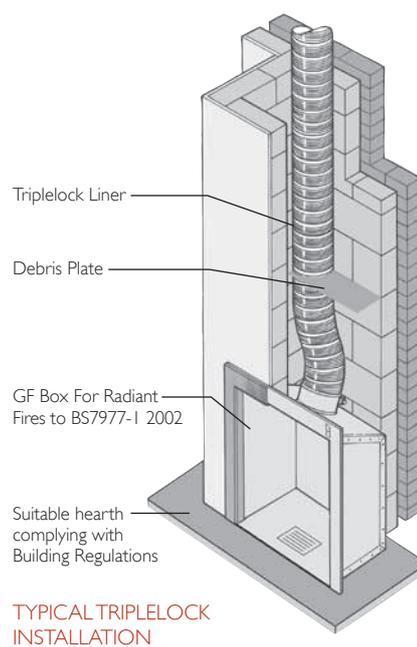
Flexible flue liners should be installed in continuous lengths without joiners. Schiedel Rite-Vent can supply all flue liners in specific lengths on drums or in pack form upon request. On TecnoFlex Plus installations, joiners are only permitted where the chimney liner length exceeds the maximum length 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. Where TecnoFlex Plus is to be fitted to the top of an open fire place, a Schiedel Rite-Vent gather unit should be fitted into the throat of the chimney connected to the TecnoFlex Plus and sealed off.

When connecting to a Schiedel Rite-Vent flue box, the flexible liner simply pushes directly on to the fast fix spigot. No sealant is required.

When making a connection to a flue pipe in another product type, such as rigid stainless steel single or double wall or vitreous enamel, then the appropriate connector to/from flexible should be used. The connector should be suitably sealed to the appliance spigot ensuring a gas tight joint.



TYPICAL TRIPLELOCK INSTALLATION

## After Installation

### TESTING BEFORE USE

This is done by means of a flue flow test as described in BS15287 Parts 1 & 2 (open appliances & room sealed appliances). 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<sup>3</sup> 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.

### LIFE EXPECTANCY AND WARRANTIES

Under normal operating conditions and providing the system is installed correctly, it should last the lifetime of the appliance, which normally is 10 years. Flex carries a 10 year conditional warranty. The conditions are that the system is:-

- Correctly sized and installed in accordance with the manufacturer's instructions, current Building Regulations and relevant British and European standards.

- Maintained correctly by a qualified and competent person and maintenance records kept updated for both appliance and chimney/chimney liner.
- Used in combination with an appliance burning only approved fuels in accordance with Schiedel Chimney Systems and the appliance manufacturer's instructions.

For recommended fuels listings, please refer to the HETAS Guide [www.hetas.co.uk](http://www.hetas.co.uk)

In the event of a fault developing in the product due to defective materials or faulty manufacture Schiedel Chimney Systems undertake to replace the product only. Schiedel Chimney Systems cannot accept liability nor take any responsibility for the installation, building or redecorating costs or any other consequential losses arising. If any complaint is found to be a result of faulty installation, non-compliance with or abuse contrary to these conditions, the cost of site investigation is chargeable.

### USE AFTER A CHIMNEY FIRE

Whilst TecnoFlex Plus 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. member of the NACS) and replaced as necessary, before using the appliance or fire again.

## Complementary products and services from Schiedel Chimney Systems



### ECO ICID

The NEW highly Insulated Twin Wall System Chimney for stoves.

- Easy twist lock connection
- Effective insulation
- 125-200mm Internal diameter range



### PRIMA SMOOTH

Single Wall Stainless Steel Connecting Flue Pipe for use on wood and multi-fuel applications.

- 316L Grade stainless steel
- Available in matt black or steel finish
- Excellent aesthetics
- Lightweight
- 125-200mm internal diameters



### PRIMA PLUS

Single Wall Stainless Steel Flue System.

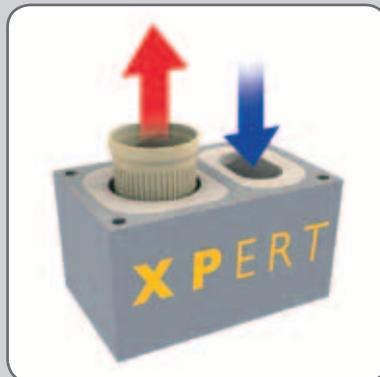
- Prima Plus available 0.6mm or 1mm options for domestic multi-fuel stoves
- Prima Plus for large residential & commercial condensing gas & oil appliances & chimney relining
- 80-300mm Diameter range



### ICS

Twin Wall Insulated System Chimney for gas, oil and multi-fuel applications.

- Simple push-fit jointing system
- High efficiency Superwool insulation blanket
- Capillary break prevents moisture being drawn through the joint
- 80-300mm Diameter range



### ABSOLUT XPERT

The world's 1st Passivhaus certified chimney system.

- GW3 rated - condensate resistant after a chimney fire
- Safe connection to room sealed appliances passes blower door test with no additional rendering of the blocks



### DM & LINERS

Pumice System Chimneys, Firechests and Liners.

full details at [www.schiedel.co.uk](http://www.schiedel.co.uk)

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#### HETAS TRAINING

Courses H001-H006 available. See website for course prospectus and application form downloads.



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