Midflex May 2021

Twin Wall Midflex Flexible Flue Liner System

For: Multifuel Woodburning Biomass Pellet Ventilation and Extract Gas and oil applications

Made in the UK. 125mm to 200mm available from stock in both 904L and 316L

0333 456 8000 www.midtherm.co.uk





Twin Wall Midflex

Flexible Flue Liner

Midtherm Midflex is a class 1 flexible flue liner, that is produced in both 316L grade stainless steel 0.10mm thick and 904L grade Stainless Steel 0.10mm thick. Midflex has been tested for a maximum operating temperature of 600°C and soot fire resistance. Manufactured and stocked in the United Kingdom using the latest techniques and technologies, ensures a high quality product.

- Suitable for: Gas and Oil Solid Fuel Multifuel Pellet Biomass
- Available from stock in 125mm to 200mm
- 316L has a 20 year warranty
- 904L has a 35 year warranty



20 or 35 Year Warranty

Available for registered and properly maintained Midflex Dry designated installations, please see our website for full details, requirements and registration.

Quality Assurance

Midtherm Midflex is manufactured under our ISO 9001 accredited quality management system, with CE Certification, and we are also a HETAS Registered manufacturer.





Specification

316 or 904?

316 Stainless Steel	The Midflex 316L has good resistance to pitting and crevice corrosion. Where a lower temperature/slumbering operations maybe encountered use 904L.
904 Stainless Steel	The Midflex 904L has high levels of Chrome, Nickel, Molybdenum, and Copper which gives it exceptional corrosion resistance. It is extremely resistant to pitting and crevice corrosion and has very good resistance to stress corrosion cracking.

Midflex Specification

Internal Diameter	Product Dia. Order Code	05	06	07	08	
	I/D mm	125	155	180	200	
External Diameter	O/D mm	131	161	186	206	
Larger diameters are available, please contact our sales team for more details.						

Construction	Inner Wall - Smooth bore construction giving extremely low resistance to the flue gas flow. Outer Wall - Convoluted outer profile with a crimped and locked seam. The two walls are seamed together throughout the length of the product to ensure its stability and integrity.	
Max Operating Temp	600° C normal operating for solid fuel applications. 250° C for gas and oil applications.	Thermal shock resistance 1000° C for soot fire resistance.

Midflex 316L Designations

Designation Type	Product BS EN 1856-2 System Chimney	Corresponding Installation BS EN 1443
Solid Fuel	T600 P2 D VmL 50010 G(0)	T600 P2 D3 G(0)
Gas, Oil	T250 P1 W VmL 50010 O(0)	T250 P1 W2 O(0)

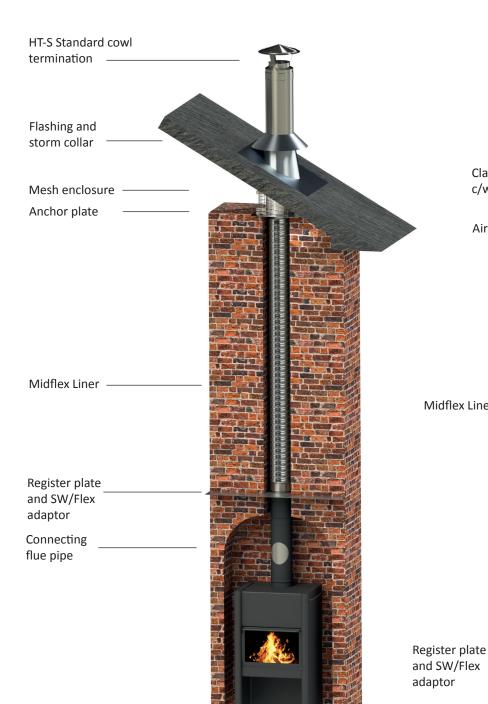
Midflex 904L Designations

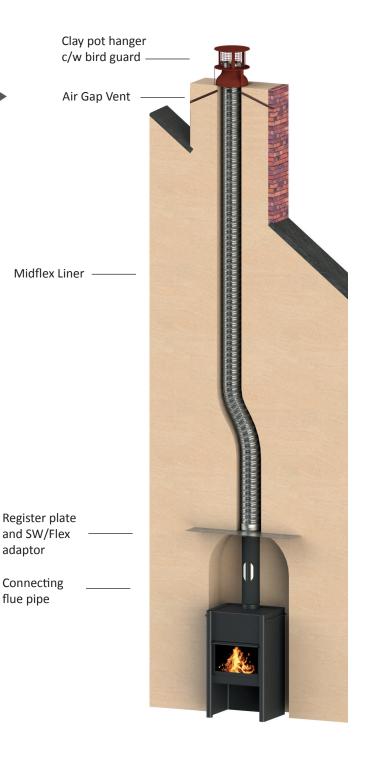
Designation Type	Product BS EN 1856-2 System Chimney	Corresponding Installation BS EN 1443
Solid Fuel	T600 N1 W VmL 70010 G	T600 N1 D3/W2 D3 G

Product Codes included in this brochure

Product	Code No	Notes
Midflex	35	For larger Diameters contact sales office
Universal Ancillary Components	00	See Page 5
Clay Pot Cowls	22	See Page 7
'Standard' Cowls (SW 316)	10	See Page 7
RotorVent Cowls	36	See Page 7

Typical Installations



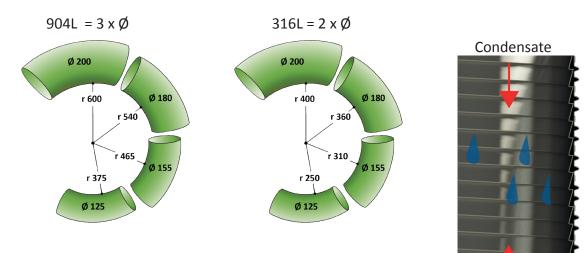


flue pipe

www.midtherm.co.uk

Flue systems are designed to safely and legally carry away toxic fumes and exhaust heat without risk of fire, therefore It is required that all Midflex flue system installations are carried out by accredited installers and in compliance with all current regulatory requirements.

The product's flexibility enables it to be handled and installed with minimum curvature radii. When unpacking the product, uncoil the flex from the outside of the coil, removing the packaging to do so. This is necessary to avoid exceeding the minimum curvature radii. Uncoiling from the inside of the coil will damage the flex and void your warranty. Please see the packaging instructions for further details. When installing the liner, attention must be paid to the arrows marked on the liner, which indicates the fume flow direction.



Midtherm Midflex liner internal section with representation of the fumes direction and condensate flow. When installed correctly, the internal wall will have ridges on the way up, but will be smooth on the way down.

Fumes Direction

Installation

Requirements

Midtherm Flue Systems Ltd.	IMPORTANT SAFETY INFORMATION This label must not be removed or covered
Product Type: System Chimney 🔲 Metal Liner 🛄	Property Address:
Product Name:	Property Address:
Installation Designation: EN 1443 - T	Post code:
Example: EN 1443 - T450-N1-D3-G50	The Hearth & Chimney Installed in the:
Suitable for condensing appliances: Yes 🔲 No 🔲	
Distance to combustibles in mm: 🔿 👧	Are suitable for:
Nominal Size: 130 🚺 150 🚺 180 🚺 200 🛄 250 🚺	
300 250 Other:mm	Installers Company Name:
Product Type: Connecting Flue Pipe	
Product Name:	Installed by:
Installation EN 1443 - T	installed on:
Designation: Example: EN 1443 - 7450-N1-03-G600	Address and Telephone No:
Suitable for condensing appliances: Yes 🔲 No 🔲	
Distance to combustibles in mm: 🎃	Other Information:
Nominal Size: 100 🔲 130 📄 150 🔲 180 🗖 200 🗖	
Other:mm	
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To comply with building regulations, a completed data plate must be installed and on display with all new installations.

Order Code 009000

Carbon Monoxide alarms are required with all installations.

We stock two brands of Carbon Monoxide alarms, Fire Angel CO-9B and Honeywell XC70 both feature a 7 year life span and warranty.

Order Code 009000B





Order Code 009000A



Please contact us or visit our website for: detailed certification, installation, maintenance and warranty details.

www.midtherm.co.uk, under the product page.



Lengths & Coils

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Order Codes	
Diameter	Code (**)
125mm	05
155mm	06
180mm	07
200mm	08

Other lengths are available to order, please contact our sales department for further details.

Stocked Lengths

<u>~</u>		
Length	316 Code	904 Code
5 Meters	3568**	3578**
6 Meters	3561**	3571**
7 Meters	3562**	3572**
8 Meters	3563**	3573**
9 Meters	3564**	3574**
10 Meters	3565**	3575**
11 Meters	3566**	3576**
12 Meters	3567**	3577**
125mm and 155mm Coil, 40 Mtrs	3560**a	3570**a
180mm and 200mm Coil, 30 Mtrs	3560**b	3570**b



Midtherm Midflex comes with two distinctive colour wrapping, clear for 904L Stainless Steel and blue for the 316L Stainless Steel.

When unpacking the product, uncoil the flex from the outside of the coil, removing the packaging to do so. This is necessary to avoid exceeding the minimum curvature radii. Uncoiling from the inside of the coil will damage the flex and void your warranty. Please see the packaging instructions for further details.

When installing the liner, attention must be paid 316L has arrows marked on the liner at every metre, which indicates the fume flow direction. 904L has an arrow label at the end and the printed text must be the right way up when installed.



sales@midtherm.co.uk

Terminals





Standard Cowl Standard Cowl With Bird Mesh			Code Code	1016** 1016**A
Diameter Code	05	06	07	08
Internal Diameter	125	155	180	200
Top Hat Width	250	300	350	405
Overall Height	250	280	290	310





Clay Pot Adaptor c/w Stan	Code 2203**		
Clay Pot Adaptor c/w Stan	tta Finish)	Code 2203**A	
Clay Pot Adaptor c/w Standard cowl (Buff Finish)			Code 2203**B
Diameter Code	05	06	07
Internal Diameter	125	155	180
Overall Height	30	360	
Overall Diameter	30	330	





Twist Fit Clay Pot Adaptor (Stainless Steel Finish)			Code 2204**	
Twist Fit Clay Pot Adaptor (Terrracotta Finish)			Code 2204**A	
Diameter Code	05	06		
Internal Diameter	125	155		
Overall Height	300			
Overall Diameter	30	300		





Birdguard S/S	Code 220500
Birdguard Terracotta	Code 220500A
Birdguard Buff	Code 220500B
Overall Height	160
Overall Diameter	280
Designed to prevent e	entry of birds, vermin and leaves.

Rotorvent Cowl

Code Diameter Code 08 Unique Spinning top design, wind driven cowl for venting. It reduces down draught and Internal Diameter 80 - 250mm helps produce a more efficient draw. Designed to fit on to a clay Overall Height 330 pot. Adaptors to single wall or HTS twin wall available.





Tel: 0333 456 8000

Adaptors



HT-S to Flex adaptor			Code	3509**
Diameter Code	05	06	07	08
Overall Height	192			
Installed Height	126			
instance reight	120			



Single Wall/Flex Adaptor		Code	3510**	
Diameter Code	05	06	07	08
Internal Diameter	125	150	180	200
Height	157			

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Single Wall/Flex Adap	Code	3510**A	
Diameter Code	05	06	
Internal Diameter	125	150	
Height	157		



Single Wall/Flex Adapt Single Wall/Flex Adapt	Code Code	3510**B 3510**C	
Diameter Code	05	06	
Internal Diameter	125	150	
Height	242		



Minimum installed height = 75mm

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	Single Wall/Flex Register Adaptor			3510**D
	Diameter Code	05		06
ht	Internal Diameter 125		150	
	Square	230		260
	Bolts up to Register Pl	ate.		

Single Wall/Flex Adap	Code	3510**E			
Diameter Code	05		06		
Internal Diameter	125	150			
Height	135				
This adaptor twists on to flex without the need to use bolts or self tapping screws.					

Adaptors / Increasers



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Gather Adaptor			Code	3516**
Diameter Code	05	06	07	08
Internal Diameter	125	150	180	200
Height	335			
Base SQ	305			
For use at the fire end of the chimney to allow for a larger area.				

Single Wall/Flex Increaser			Code	3511**
Diameter Code	05	06	07	08
Internal Diameter	125	150	180	200
Increase from (SW)	100	125	155	180
Height	180			

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Single Wall/Flex Incre	Code	3511**A		
Diameter Code		06		
Internal Diameter	150			
Increase from (SW)		125		
Height		180		



Single Wall/Flex Increasing Adaptor Longtail Single Wall/Flex Increasing Adaptor Longtail with Bolts		Code Code	3511**B 3511**C
Diameter Code	0	6	
Internal Diameter 1		50	
Increase from (SW)	125		
Height	25	53	



Minimum installed height = 120mm

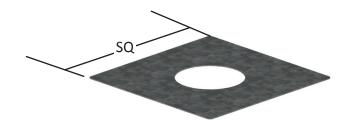


Single Wall/Flex Increa	sing Register Adaptor Code	3511**D	
Diameter Code	06		
Internal Diameter	150		
Increase From (SW)	(SW) 125		
Square	260		
Bolts up to Register Plate.			

Single Wall/Flex Incre Adaptor	asing Twist Fit	Code	3511**E
Diameter Code		06	
Internal Diameter	150		
Increase From (SW)	125		
Height		155	

Ancillary Components













Clamp			Code	3512**
Diameter Code	05	06	07	08
Internal Diameter	125	155	180	200
Height	40			
Used in conjunction with the plate to suspend the flex from the top of the chimney.				

Plate (1.5mm Galv)			Code	3513**
Diameter Code	05	06	07	08
Internal Diameter	125	155	180	200
Square Size (SQ)		4(00	
Used in conjunction with the clamp to suspend the flex from the top of the chimney.				

Flue Support Bracket			Code	3514**
Diameter Code	05	06	07	08
Internal Diameter	125	150	180	200
Off Stand Distance	140	150	180	190
Bracket Width	25			
Used to clamp flex at top or bottom of the flue run.				

Protection Sleeve			Code	3515**
Diameter Code	05	06	07	08
Internal Diameter	125	155	180	200
Height	105			
Used to protect the top of the Midflex flexible liner.				

Double Connector			Code	3517**
Diameter Code	05	06	07	08
Internal Diameter	125	150	180	200
Height	128			
Llead to join two giagon of flow to gothers*				

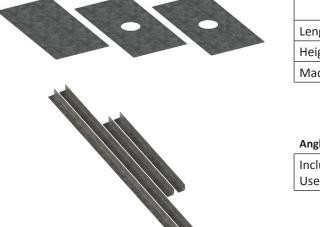
Used to join two pieces of flex together*.

*Provision should be made to allow visual inspection at any joint.

S/S Nose Cone			Code	3519**
Diameter Code	05	06	07	08
Internal Diameter	125	150	180	200
Height	190		200	

Used for testing the chimney cavity prior to installation and also aids with the final installation. Please see installation instructions for more details.

Ancillary Components



Blank Register Plate	Code	352000
Register Plate c/w Centred Hole	Code	3520**A
Register Plate c/w Centred Hole c/w Access Door	Code	3520**B
All Diameters		

All Didificiers			
Length	1000mm		
Height	500mm		
Made from 1.5mm thick Galv.			

	Angle Iron Kit	Code	352300
Includes 2 x 1000mm length and 2 x 500mm lengths.			
	Used to install register plate into chimney.		

Register Plate Collar c/w Gasket		Code	3521**B	
Diameter Code	05	06	07	08
Internal Diameter	125	155	180	200
Square Size	230			

Midtherm Flue Jacket 1 Midtherm Flue Jacket 2 Midtherm Flue Jacket 3 Midtherm Flue Jacket 4	000mm Length 000mm Length	Code Code Code Code	3524** 3524**a 3524**b 352406c	
Diameter Code	06	08		
Internal Diameter	125-155	180-200		
Insulation for flexible flue liner. Helps maintain flue gas temperatures within the flue. Midtherm Flue Jacket is a practical alternative to backfilling a chimney, and can be installed in any				

weather conditions.



The Midtherm Family



Midtherm Flue Systems is a family owned UK Business with over 40 years in the flue industry.

We are committed to providing excellence in both the products and the service we offer.

With one of the largest flue manufacturing, storage and distribution facilities in the UK, we are able to supply direct from stock and rapidly produce for domestic, commercial and industrial customers worldwide.







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