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



Midflex

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 0.10 mm 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)

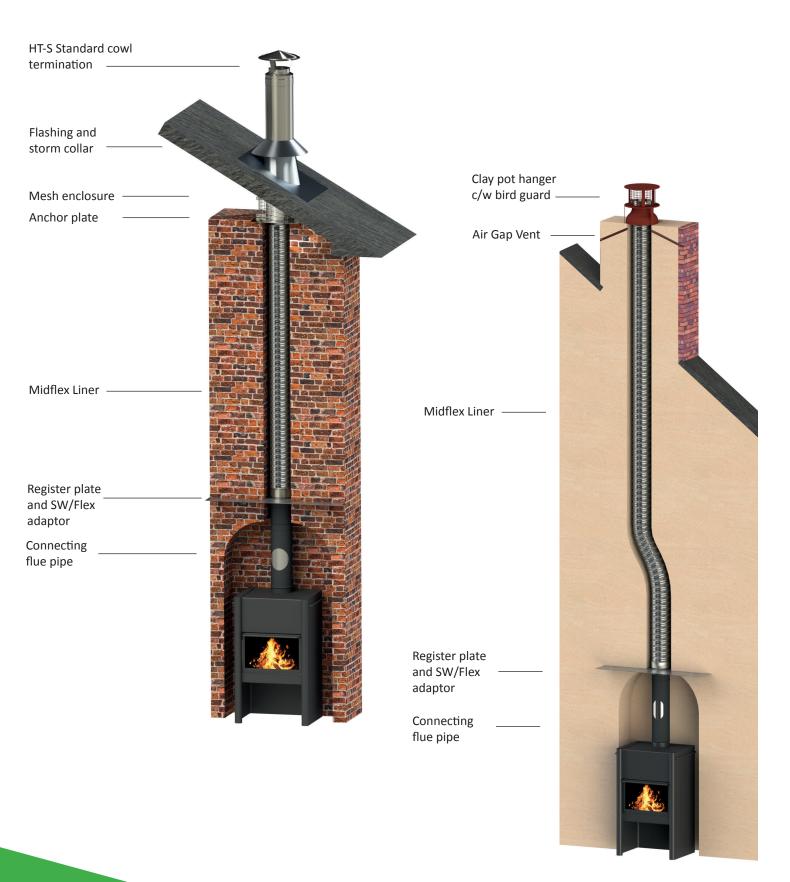
Midflex 904L Designations

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	flex 35 For larger Diameters contact sale				
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			

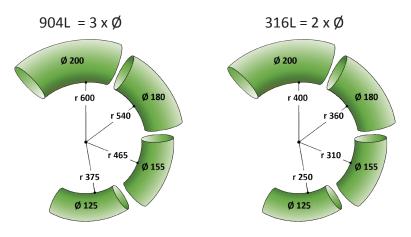
Typical Installations



Installation Requirements

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.



Condensate

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



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



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

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.



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 Standard Cowl (Stainless Steel Finish)	Code 2203**
Clay Pot Adaptor c/w Standard Cowl (Terracotta 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	00	360
Overall Diameter	30	00	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	00





Birdguard S/S	Code 220500
Birdguard Terracotta	Code 220500A
Birdguard Buff	Code 220500B

	Overall Height	160		
(Overall Diameter	280		
[Designed to prevent entry of birds, vermin and leaves.			



Rotorvent Cowl Code 36**

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

Adaptors



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



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



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			

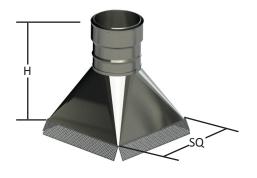


Single Wall/Flex Register Adaptor		Code	3510**D		
Diameter Code	05		06		
Internal Diameter	125		150		
Square	230	260			
Bolts up to Register Plate.					



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



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			



Single Wall/Flex Incre	aser with Bolts	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 15		50	
Increase from (SW)		25	
Height 25		53	



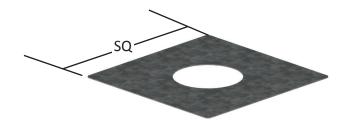
Single Wall/Flex Increasing Register Adaptor Code 3511**D					
Diameter Code	06				
Internal Diameter	150				
Increase From (SW)	125				
Square	260				
Bolts up to Register Plate.					



Single Wall/Flex Increasing Twist Fit Adaptor		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				

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)	400			
Used in conjunction with the clamp to suspend the flex from the				

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		10)5	
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	
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





All Diameters			
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

3521**B

register rate condi e/ w dusket			Couc	3321	D
Diameter Code	05	06	07	08	
Internal Diameter	125	155	180	200	
Square Size	230				



Midtherm Flue Jacket 1000mm Length	Code	3524**
Midtherm Flue Jacket 2000mm Length	Code	3524**a
Midtherm Flue Jacket 3000mm Length	Code	3524**b
Midtherm Flue Jacket 4000mm Length	Code	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



/MidthermFlue

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

UK Reg. 00936960

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.





Midtherm Laser Limited Sub-Contract Laser Cutting Tel: 01384 458841 www.midthermlaser.co.uk sales@midthermlaser.co.uk



Midtherm Powder Coating Limited Sub-Contract Powder Coating Tel: 01384 258877 www.midthermcoating.co.uk sales@midthermcoating.co.uk



Midtherm Stainless Limited Stainless Steel Canopies, Sinks, Tables and Bespoke Commercial Kitchen Fabrications Tel: 01384 238786 www.midthermstainless.co.uk sales@midthermstainless.co.uk