



Vitrelox - (2012)



Tested to BS EN 1856-2 and BS EN 1443

Midtherm Flue Systems Limited is an independent British manufacturing company producing a wide range of flue and chimney products, along with associated components and services. Established for over 30 years, Midtherm products are installed worldwide including Poland, Oman, Libya, Hong Kong, China and the USA.

[Quality Assurance](#)

All products are controlled by a Quality Assurance System certified to ISO 9001:2000.



[Product](#)

Midtherm Vitreux Vitreous Enamelled Flue Pipe is a single wall product manufactured and coated to the highest standards, made from a 1.2mm thick superior grade zero carbon steel. Following manufacture components are coated both internally and externally with a ground coat and top coat of high temperature resistant and acid resistant vitreous enamel coating. Due to the chemical specification of the steel used for this product, it provides an excellent surface for the glass coating to adhere to.

Lengths and fittings have a quick and easy to use socket and spigot jointing system which is leak proof when sealed and installed as recommended.

[Applications](#)

Midtherm Vitreux Vitreous Enamelled Flue Pipe is designed as a connecting flue pipe with high temperature and acid resistant vitreous enamel coating. It is suitable for use on gas, oil and multi-fuel appliances, rating up to 50kW output where appliances burn with flue gas temperatures of up to 450°C under continuous firing and is soot fire resistant.

Vitreux Vitreous enamel flue pipe should only be used to connect from the appliance into an existing lined chimney, or a class 1 twin wall insulated stainless steel chimney such as our HT-S products. Under NO circumstances is Vitreux to be used externally or to line an existing chimney.

If you are in any doubt which system to select for your particular application, please consult our technical department.

[Access for Cleaning](#)

Lengths, 15°, 30°, 45° and 90° Elbows are available with or without doors from stock. The doors accommodate cleaning requirements and are manufactured from brushed stainless steel, which allow the doors to be removed and refitted without chipping, whilst providing an aesthetic appearance.

[Product Designation and Testing](#)

BSRIA Test report no. 19193/4



Vitreux Vitreous product designations

Product Type	Designation
Connecting Flue Pipe	EN 1856-2 T450 N1 D VmL80120 G500

Vitreux has been independently tested at BSRIA and complies with the specific requirements of BS EN 1856-2 in accordance with the general requirements of BS EN 1443-2003.

A high temperature and acid resistant vitreous enamel coating which meets the high temperature and thermal shock requirements for BS 1344 part 1 and 7, and conforms to class A for resistance to products of combustion when tested in accordance with BS 1344 part 3.

[Size Range](#)

Available in 100mm (4"), 125mm (5"), 150mm (6"), 175mm (7"), and 200mm (8").

[Colours](#)

Matt black, gloss black and gloss white available in all sizes. 125mm (5") and 150mm (6") is also available to match up to FRANCO BELGE stoves in colours: gloss blue, gloss green, gloss red, gloss ivory and gloss brown.



Matt Black

Gloss Black

Gloss White

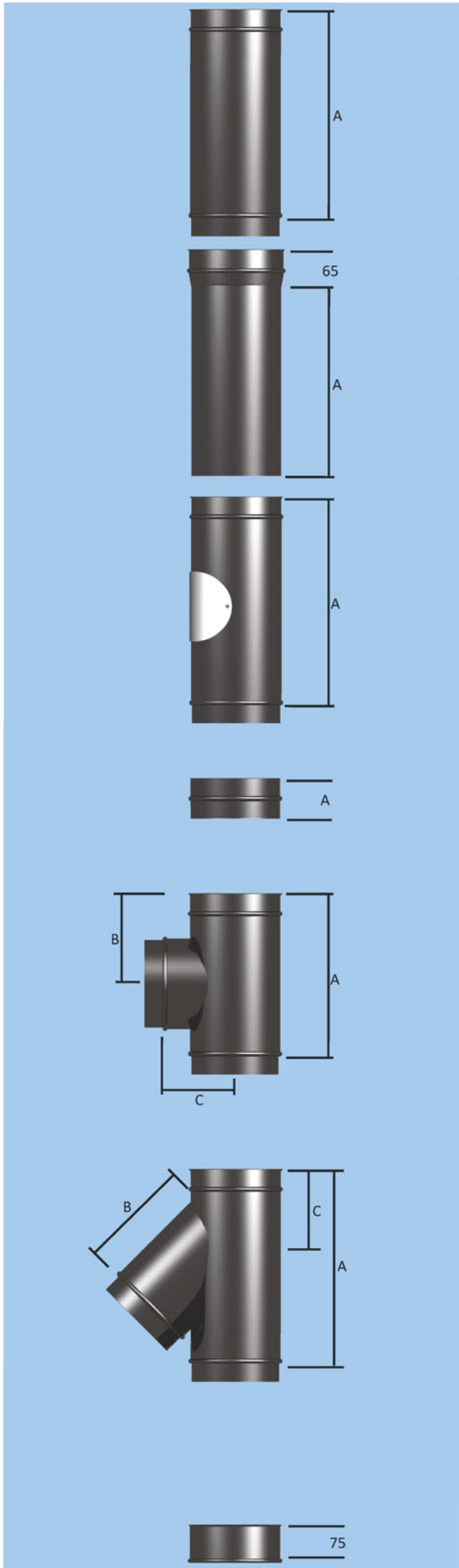
[General Notes](#)

1. An increase in fuel consumption, smoke in the building, evidence of sooting, difficulty in lighting, and staining around the appliance casing generally indicates a problem either with the appliance or a blockage in the system may have occurred.
2. Do not use cleaning chemicals on the flue.
3. Do not block or obstruct flue outlets or chimneys.
4. Do not cover appliance.
5. Running appliances on constant low heat produces an increased level of condensation and may shorten the life of the product.
6. Burning low grade fuels can shorten the life of the product.
7. Any personnel installing or carrying out work or maintenance on appliances and flues must be suitably qualified and competent to do so.
8. After installation the chimney should be inspected to determine the frequency of sweeping required.
9. When carrying out smoke tests/spillage tests, consideration should be given to fans, draughts and combinations of the two which may affect the results of the test.

[Installation Guidelines:](#)

For detailed installation guidelines please to refer to the following documents:

- HETAS - Official guide for products and services
- NACS - National Association of Chimney Sweeps Building Regulations Planning Office
- BS EN 15287
- Appliance Manufacturer's Operating and Maintenance Instructions
- Termination Heights
 - Up to 60kW - Building Regulations Document J
 - Up to 150kW - BS 6644
 - Over 150kW - Clean Air Act



Lengths Without Door

Fixed lengths available in 4 sizes: 1000mm, 500mm, 250mm and 75mm.

Product	Installed Length (A)	Item Code
VP 1000	960mm	01
VP 500	460mm	02
VP 250	250mm	03
VP 75	75mm	04

Adjustable Length

The adjustable length is designed to fit into a standard length to form an adjustable length.

Product	Installed Length (A)	Item Code
AVP 500	65 - 450mm	05
AVP 250	65 - 245mm	06
AVP 150	65 - 145mm	07

Lengths With COD (S/S supplied as standard)

Fixed lengths with clean out door available in 3 sizes: 1000mm, 500mm, and 250mm.

Product	Installed Length (A)	Item Code
VPD 1000	960mm	08
VPD 500	460mm	09
VPD 250	250mm	36

Plain Ends

Product	Installed Length (A)	Item Code
VPPE 75	75mm	28

90° Tee

Item Code 10

Designed to provide a 90° connection, a change of direction or a cleaning access point if required.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	250	280	300	330	350
B	125	140	150	165	175
C	75	90	100	115	125

Please note that tees are not supplied with a soot box which must be ordered as a separate item.

45° Tee

Item Code 11

Designed to provide a 45° connection, a change of direction or a cleaning access point if required.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	275	315	320	380	415
B	165	190	215	240	265
C	65	70	60	65	60

Please note that tees are not supplied with a soot box which must be ordered as a separate item.

Soot Box

Item Code 12

Used to close off an unused opening and can be used for cleaning access. Comes complete with clip.

Available in all sizes.

45° Elbow Without Door (VE 45)

Item Code 14

Used to provide a 45° change in direction.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	96	101	106	112	116
B	86	91	96	112	116

45° Elbow With Door (VED 45)

Item Code 16

Used to provide a 45° change in direction with clean out access.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	156	161	161	156	156
B	86	91	96	112	116

30° Elbow Without Door (VE 30)

Item Code 13

Used to provide a 30° change in direction.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	88	92	95	99	102
B	78	82	85	99	102

30° Elbow With Door (VED 30)

Item Code 15

Used to provide a 30° change in direction with clean out access.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	163	167	170	174	177
B	78	82	85	99	102

15° Elbow Without Door (VE 15)

Item Code 17

Used to provide a 15° change in direction.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	82	83	85	87	88
B	72	73	75	87	88

15° Elbow With Door (VED 15)

Item Code 18

Used to provide a 15° change in direction with clean out access.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	157	173	180	182	183
B	72	73	75	87	88

90° Elbow Without Door (VE 90)

Item Code 29

Used to provide a 90° change in direction.

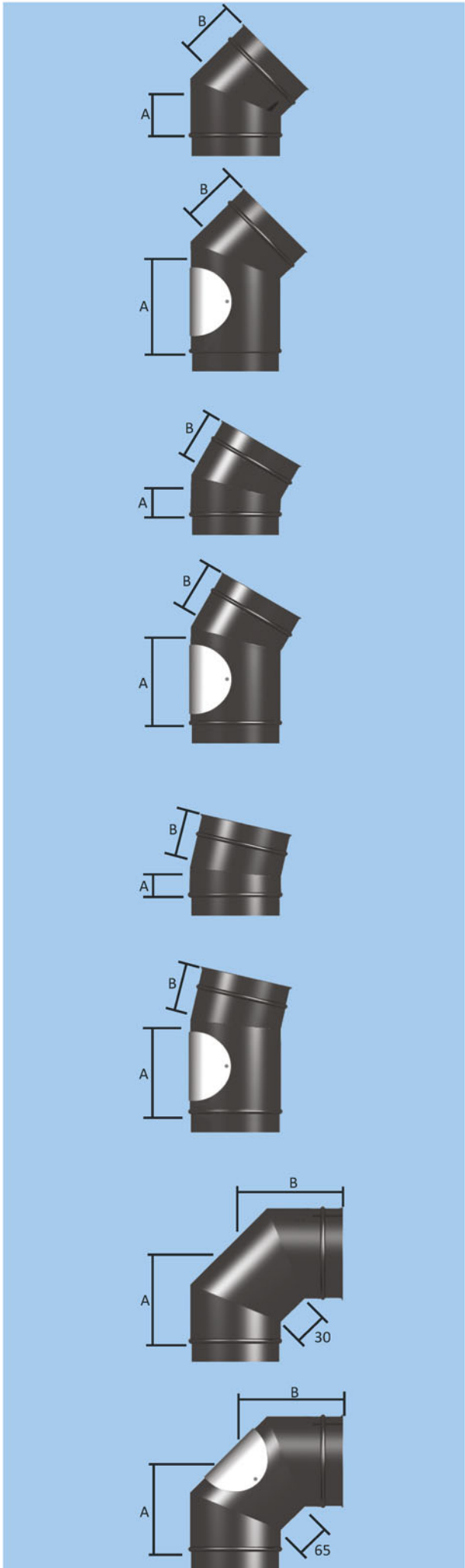
Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	100	115	125	140	150
B	135	145	160	175	185

90° Elbow With Door (VED 90)

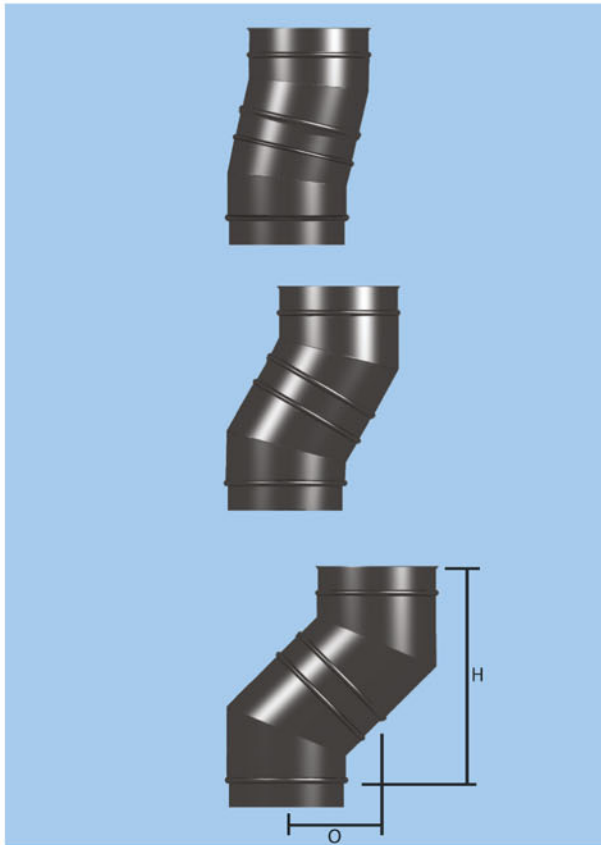
Item Code 19

Used to provide a 90° change in direction with clean out access.

Diameter Code	04	05	06	07	08
Bore	100	125	150	180	200
A	125	140	150	165	175
B	160	170	185	200	210



Elbows without door



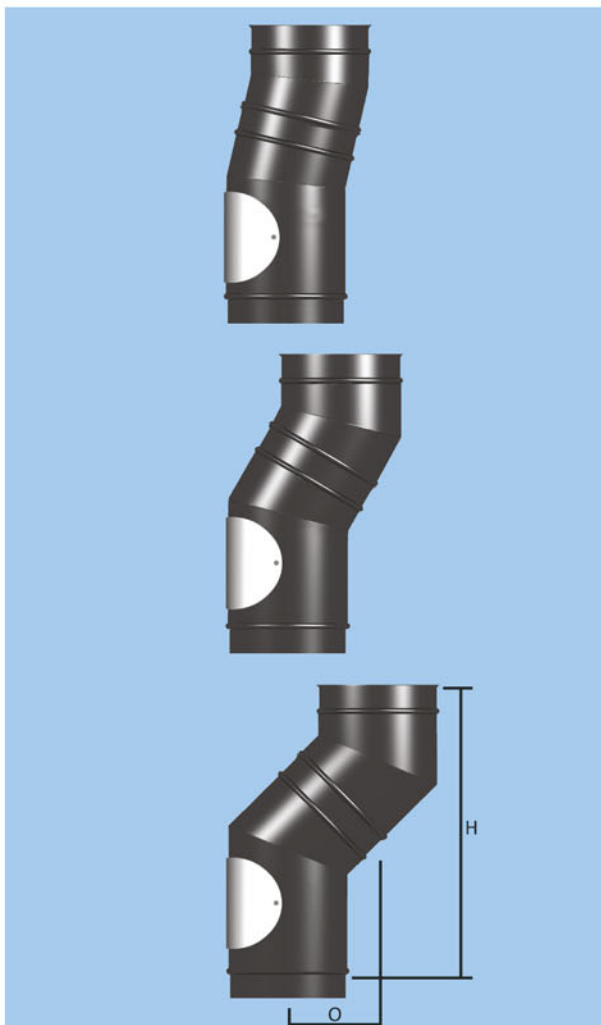
Dimension O gives the center to center distance when two elbows are used to provide an offset.

15°/15°	Bore				
	100	125	150	180	200
Height (H)	301	308	314	341	347
Offset (O)	40	41	41	45	46

30°/30°	Bore				
	100	125	150	180	200
Height (H)	311	324	336	370	380
Offset (O)	83	87	90	99	102

45°/45°	Bore				
	100	125	150	180	200
Height (H)	310	327	345	383	397
Offset (O)	128	136	143	159	165

Elbow with door followed by elbow without door



Dimension O gives the center to center distance when two elbows are used to provide an offset.

15°/15°	Bore				
	100	125	150	180	200
Height (H)	376	398	409	436	442
Offset (O)	40	41	41	45	46

30°/30°	Bore				
	100	125	150	180	200
Height (H)	386	399	411	445	455
Offset (O)	83	87	90	99	102

45°/45°	Bore				
	100	125	150	180	200
Height (H)	370	387	400	428	437
Offset (O)	128	136	143	159	165

Replacement Cleaning Access Doors (S/S supplied as standard)

Pipe Size	4" Pipe	5" - 8"
Matt Black	03 / 32 / 04	03 / 32 / 05
Stainless Steel	03 / 32 / 04A	03 / 32 / 05A

Pipe Increaser (VI) Item Code 20

Diameter Code	05	06	07	08
Bore	100	125	150	180
Increase To	125	150	180	200

Bracket (VB) Item Code 21

Standard length bracket will position flue 225mm away from wall.
Manufactured in stainless steel.

Clip (VC) Item Code 23

Optional extra for decorative finish on joint only.
Manufactured in stainless steel.

Rosette (VR) Item Code 24

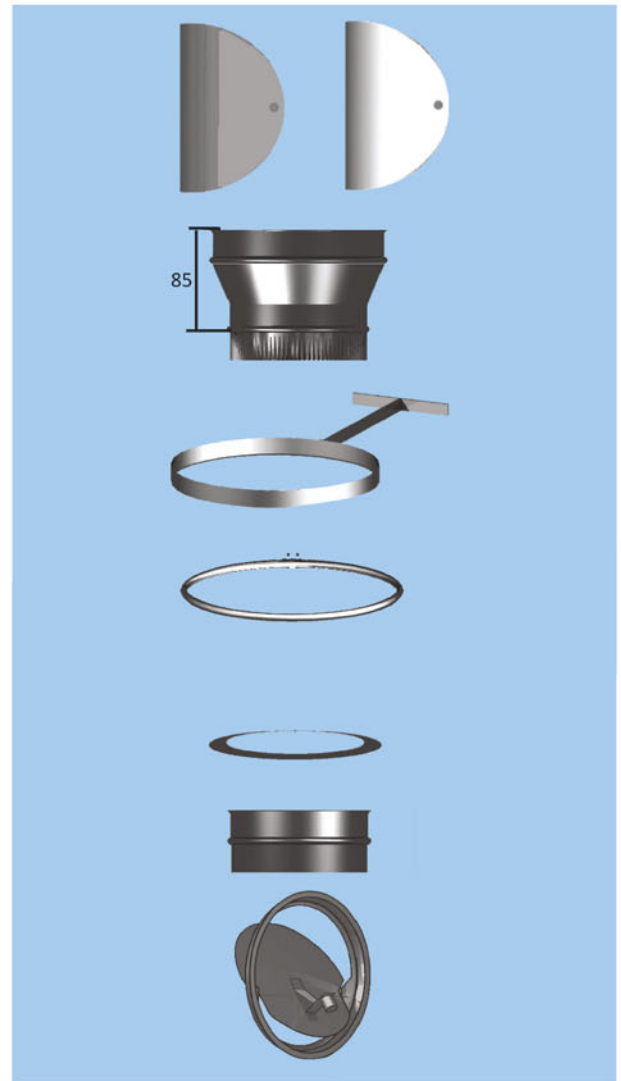
Provides a neat finish where the flue penetrates a non combustible wall.

Vit Cut To Length Adaptor Item Code 37

When no other solution is available this adaptor allows the Vitrelux pipe work to connect to the rest of the flue system once it has been cut to size.

Draught Stabiliser Item Code 33

To be used in conjunction with a VT 90 and a VPPE 75mm length.
The Draught Stabiliser fits into VPPE 75, which fits onto branch of Tee.



Order Procedure

Midtherm Products all have individual codes, which if detailed on incoming orders reduces sales order processing time. This helps accuracy and can improve delivery times. Vitrelux products are coded as follows: - Product Range Code / Item Code / Diameter (" prefixed with a '0') / Confirm Colour

For example: -

03 / 01 / 05 / Matt Black, signifies: Vitrelux Matt Black / 1000mm length / 5" diameter (125mm) / Matt Black
23 / 01 / 05 / Gloss Black, signifies: Vitrelux Gloss Black / 1000mm length / 5" diameter (125mm) / Gloss Black

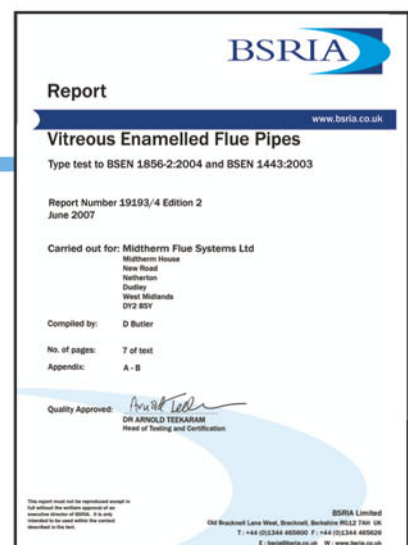
The prices for the Vitrelux products are all found on Price List 03 and 03a.

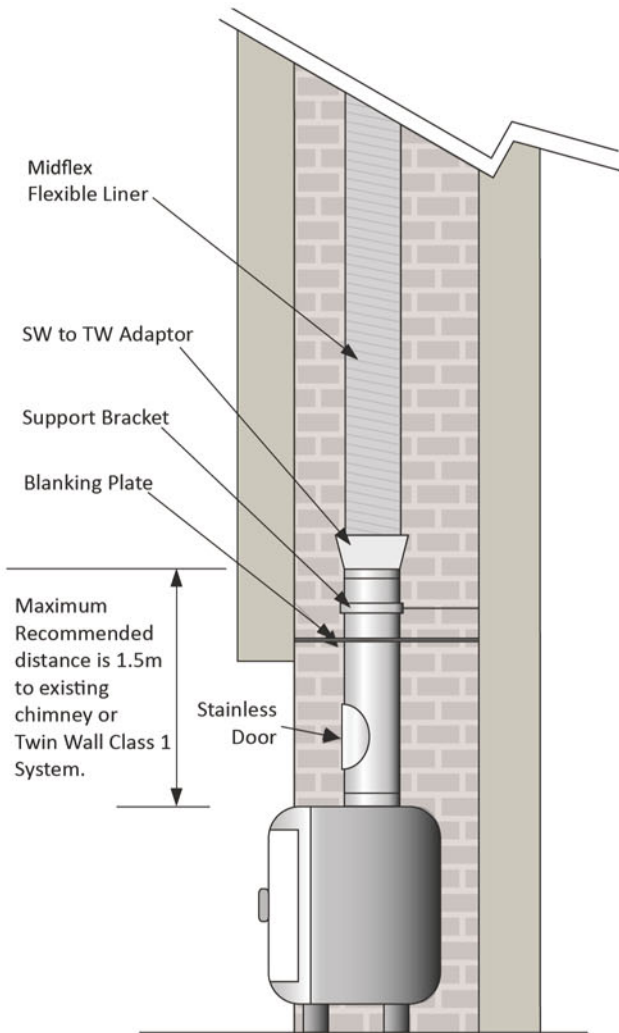
Colour	Matt Black	Gloss Black	Gloss White	FB Blue	FB Green	FB Red	FB Ivory	FB Brown
Product Code	03	23	43	44	45	46	47	48

Typical Installations

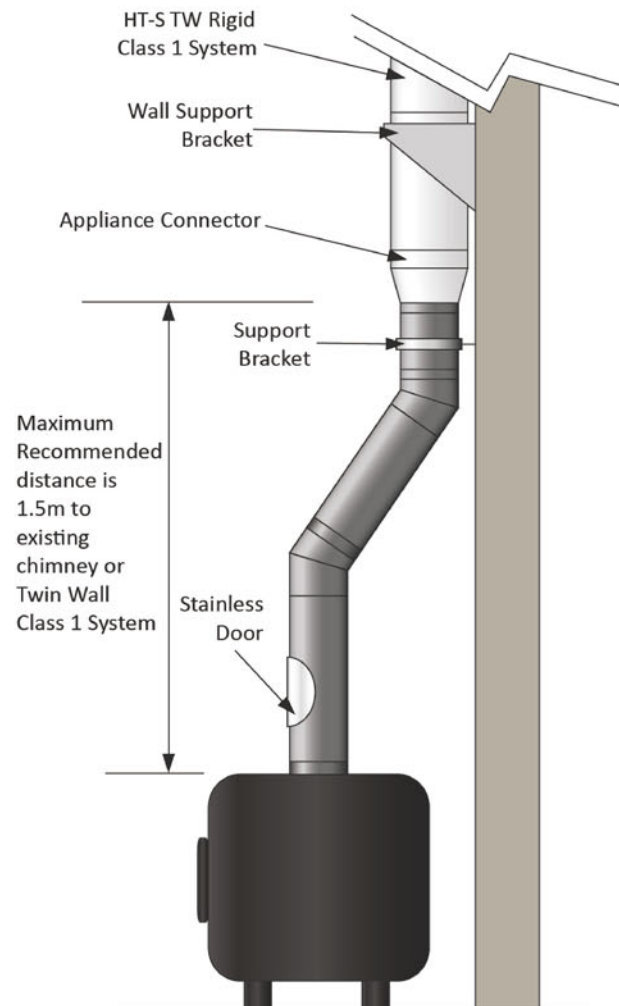
BS EN 1856-2 and BS EN 1443

It is a legal requirement that only product independently tested to comply with the requirements of BS EN 1856-2 and BS EN 1443 can be installed on domestic and commercial installations in the UK and the rest of Europe. We confirm that Midtherm Vitrelux product has been tested by BSRIA and complies with the requirements of BS EN 1856-2 and BS EN 1443 Report Number 19193/4. A declaration of conformity is available on request.





1. Vitrelux Vitreous Enamel flue pipe should only be used to connect from the appliance into an existing lined chimney, or H.T.S class 1 twin wall insulated stainless steel chimney. Under no circumstances is Vitrelux to be used externally or to line an existing chimney.
2. We recommend no more than 1.5m of Vitrelux be installed from the appliance to the existing chimney, H.T.S twin wall class 1 system or Midflex multifuel liner to avoid excessive condensation.
3. 500mm minimum clearance must be maintained from combustibles materials for Connecting Flue Pipe T450 applications.
4. Vitrelux should be fitted with socket uppermost, spigot (reduced end) downward. Thus, no condensate can escape to spoil the appearance of the finished installation. It is not suitable for condensing applications.
5. Each joint must be coated with a jointing compound, High Temperature Fire Cement, (1200° C), to ensure gas-tight fit. A clip may be added to provide a decorative finish.
6. Where installations are required to pass through an external wall the Vitrelux product should be connected internally before penetrating the wall, to a suitable product for the application, e.g. for a solid fuel application, a twin wall Class 1 system chimney such as H.T.S. We would also recommend that a wall sleeve (short piece of duct the next diameter up) should be used around the pipe. The gap can be sealed with non-combustible insulation material. Vitrelux is not suitable for use externally.
7. Provision for inspection/sweeping must be made. Inspection lengths are available for this purpose.
8. The chimney diameter should never be reduced to less than the diameter specified by the appliance manufacturer, in some cases this may involve an increase in diameter from the appliance spigot.
9. Ensure that adequate air is available for combustion. Refer to Building Regulations Document J.
10. Chimney components must not be modified.
11. Where there is a risk of combustibles being placed next to the chimney, the minimum distances to combustibles must be maintained either by a permanent enclosure or shield.
12. The finished installation shall have a Midtherm chimney plate completed as detailed in the Building Regulations.
13. Installations shall be designed, installed and commissioned by qualified and competent people in accordance with Building Regulations and BS EN 15287. A smoke test should be carried out and if there are any leaks, or any significant spillage, the fault must be rectified before the appliance is used.
14. Provisions must be made for condensate drainage where required.



The above notes are an outline only of some of the aspects of good chimney installation practice. Please refer to the documents listed inside the front cover for further guidance.

Examples of our extensive product range:



HT-S



SW 316



TL



PS



SW 430



Flex



Midtherm Fans



CPS



Midtherm Laser

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