

# EUROPA PLUS

Flanged Stainless Steel High Pressure  
Twin Wall Exhaust System



SFL

A Sphering Company



**EUROPA® is British built** and specifically designed for today's high performance appliances, offering an engineered system capable of meeting the demands for high temperature and high pressure applications.



Manufactured in the UK



UK  
CA

CE

[www.sflchimneys.com](http://www.sflchimneys.com)



Flue & Air Care  
Since 1919

## ABOUT US


Sphering is the leading industrial player in flue and chimney systems in Europe.

With +1000 experienced people across Europe, Sphering is an EU market maker with renowned expertise in design, manufacturing and distribution of advanced air and flue care systems.



  
**+1000**  
Employees

  
**8**  
Production Plants

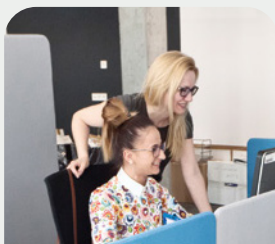
  
**26**  
Distribution Branches

## A UNIQUE COMBINATION OF LOCAL APPROACH AND GLOBAL EFFICIENCY WE CARE TO DO WELL BY DOING GOOD

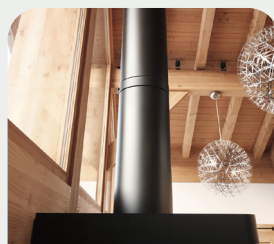
With customers



With employees



With secured and efficient product



With the environment & society



EVERYTHING CHANGED IN 100 YEARS EXCEPT  
**OUR VALUES**

Staying loyal to its historical values and operating with an exclusive industrial model based on the autonomy of its brands, Sphering has become, in a century, an ethical industrial collider in Europe.

Since 1919  
**100** YEARS  
of passion



Reliable Partner



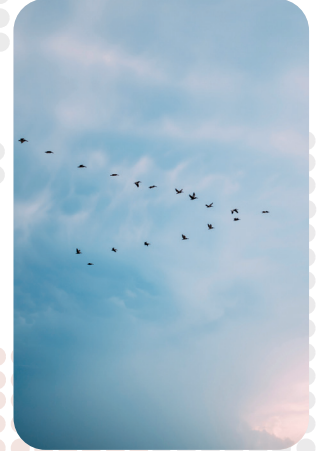
Leading Edge



Family long-term horizon



No Shortcut



Local approach



**OUR R&D AND INNOVATION CENTERS**

We are here to stay and we collectively enable our capacity to answer our industry requirements.

**MORE THAN 150 TESTS PER YEAR**

These tests are based on requirements we have set up in order to guarantee our customers the highest levels of security and performance.



Thermal



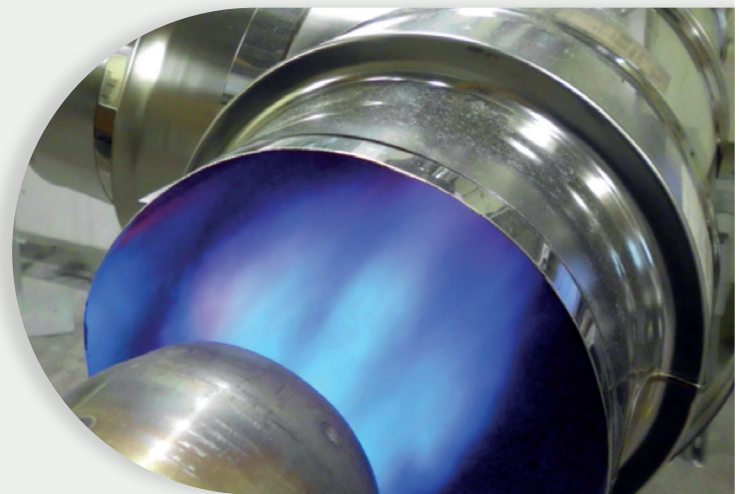
Mechanical



Tightness

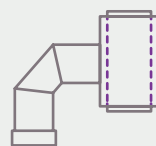


Fine dust



**DESIGN & TEST FOR MANUFACTURERS**

To ensure advanced safety, performance, quality and innovation.



Special pieces co-development



Pairing test certification

# EUROPA PLUS

Flanged Stainless Steel High Pressure  
Twin Wall Chimney System



A Sphering Company

**EUROPA PLUS is part of the SFL EUROPA® family of products and has been specifically designed for today's high performance appliances and generators, offering an engineered system capable of meeting the demands of high temperature and high pressure applications.**

EUROPA PLUS is suitable for continuous flue gas temperatures up to 600°C and positive pressure applications up to 5000Pa (H1), making EUROPA PLUS the ideal product for electrical generators, combined heating and power as well as traditional chimney applications. The product has also been tested under soot fire conditions at 1000°C for 30 minutes.

EUROPA PLUS is a prefabricated stainless steel exhaust vent, available in a range of insulation thickness to meet the most demanding applications. As standard, EUROPA PLUS is offered as a twin wall 25mm insulated stainless steel exhaust vent and is available in twelve internal diameters ranging from 100mm to 600mm. In addition, the EUROPA product extends the EUROPA PLUS diameter range up to 1200mm.

EUROPA PLUS offers a unique flanged jointing system incorporating a composite graphite gasket. Unlike other systems, EUROPA PLUS requires no sealant and associated cure time, making installation quick and efficient, with a joint that is consistently pressure and water tight. The joint is secured with a Patented U-Band that allows the flange to expand and contract within its profile, further protecting the joint and protecting the joint over the life of the system.



## Typical Applications

- Generators
- CHP
- Particle Extraction
- Kitchen Extract Ducts
- Commercial Boilers
- Condensing Appliances
- Off-Shore Installations
- Smoke Extraction
- Fire Rated Compartments



British Built  
Flue System



Commercial  
Application



100-600mm  
Diameter



Multi-Fuel  
Appliances



T600  
Rating



H1  
Rating



Fire Rated  
EN1366-13



Year Product  
Warranty



Product &  
Downloads  
QR Code

UL tested for positive pressures  
of up to 14945Pa at 760°C.



UK  
CA

CE

Table A

EUROPA PLUS Commercial Product Designations to BS EN 1856-1							
Standard	Diameter Range	Temperature Class	Pressure Class	D = Dry W = Wet	Corrosion Class	Material Specification Liner Grade 316L Liner Thickness 0.6mm	Sootfire Resistance G= Yes 0= No
BS EN 1856-1	DN100-DN300	T600	HI	W	V2	L50060	G50 <sup>1</sup>
BS EN 1856-1	DN350-DN450	T600	HI	W	V2	L50060	G75 <sup>1</sup>
BS EN 1856-1	DN500-DN600	T600	HI	W	V2	L50060	G100 <sup>1</sup>
BS EN 1856-1	DN100-DN300	T600	HI	W	V2	L50060	G100 <sup>2</sup>
BS EN 1856-1	DN350-DN450	T600	HI	W	V2	L50060	G150 <sup>2</sup>
BS EN 1856-1	DN500-DN600	T600	HI	W	V2	L50060	G200 <sup>2</sup>

1 - Distance to combustible material in open environment  
 2 - Distance to combustible material when enclosed within a combustible ventilated shaft

### Approvals

EUROPA PLUS is CE and UKCA certified to BS EN 1856-1, certificate No. 2797-CPR-496040 and 0086-CPR-740592 respectively to the performance designations as detailed in Table A above

### Fire Resistance

EUROPA PLUS has been tested to BS EN 1366-13 Fire Resistance Tests for Service Installations (Chimneys) achieving the following classification to BS EN 13501-2.

**EI 180 (i→o) h<sub>o</sub> v<sub>e</sub> Type A**

The integrity has also been assessed for a period of 4 hours under the general principles of BS 476 Part 20.

### Quality

All components are manufactured under a quality management system, certificate No. FM557622, administered by The British Standards Institute in accordance with BS EN 9001: 2015.

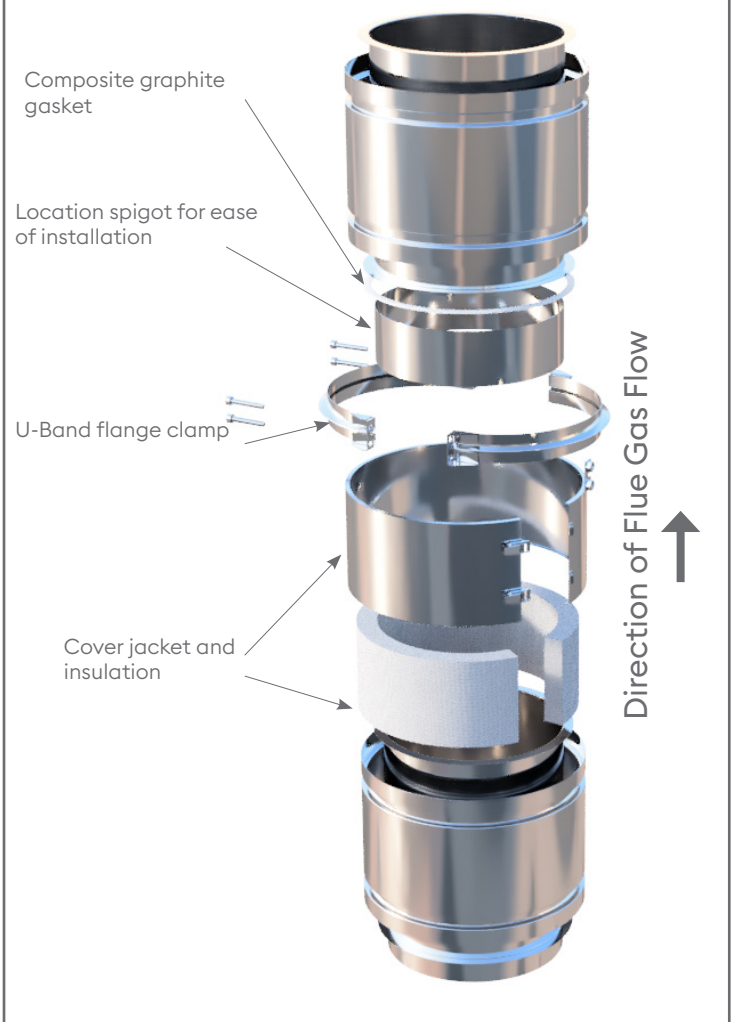
### Construction

EUROPA PLUS is fabricated with a laser welded 0.6mm 316L (1.4404:X2CrNiMo 17-12-2) stainless steel inner liner and a grade 304 (1.4301:X5CrNi18-10) outer case. As standard, the 25mm annulus is insulated with a high density body soluble AES blanket to ensure rapid draught stabilisation and low surface temperature. Options are also available for 50mm and 100mm thick insulation for high temperature application or where the surface temperature needs to be controlled. The joint is of flanged construction and features a unique composite graphite gasket to achieve a pressure tight joint. The joint is secured with U-Band flange clamp. Insulation is then applied around the joint and the joint is finished with a Channel Band.

### Warranty

The EUROPA PLUS range is backed up with a comprehensive 20-year product warranty. The 20-year warranty is a measure of our confidence in the quality and reliability of our flue systems and gives added peace of mind for any installation.

### Product Construction



### IMPORTANT (Always Read The Installation Instructions)

For detailed information regarding design, installation and application of this product, please refer to the separate installation instructions available on the website which can also be accessed from the QR code.

**Partner with us, succeed together.**

Do you need any assistance with your residential or commercial flue project? Our team of experts are on hand to help you at every stage. We offer design assistance, site surveys and work with experienced installers who offer full turnkey packages tailored to your needs.

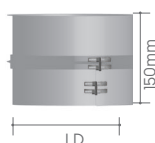
[www.sflchimneys.com](http://www.sflchimneys.com)  
[info@sflchimneys.com](mailto:info@sflchimneys.com)  
 01271 326633

## Product Codes

Annulus	Inner	Outer	Code
25mm Insulated	316L	304	674XXXX
50mm Insulated	316L	304	644XXXX
100mm Insulated	316L	304	684XXXX

Depending on the insulation thickness, replace the part number prefix as above. For example, a 200ID x 1000mm Length with 50mm of insulation would be prefixed with 644, making the full part number 6441008.

## Starter Components

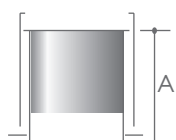


### Adjustable Appliance Adaptor

Used to provide a straight connection to an appliance spigot of nominal flue size, clamping around the outside of the spigot. The clamp offers a degree of adjustment as specified in the table below.

Size (mm)	I.D. min (mm)	I.D. max (mm)	Code
100	100.5	106.5	6768904
150	150.5	156.5	6768906
175	175.5	181.5	6768907
200	200.5	206.5	6768908
250	250.5	256.5	6768910
300	300.5	306.5	6768912
350	350.5	356.5	6768914
400	400.5	406.5	6768916
450	450.5	456.5	6768918
500	500.5	506.5	6768920
550	550.5	556.5	6768922
600	600.5	606.5	6768924

 Sealant required (see page 13)



### Flange Adaptor

These are manufactured to order based on the required flange parameters. Part Number: 67644XX, where XX is the diameter.

A = 85mm

Flange to customer requirement.



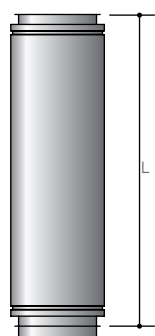
### Plain Appliance Adaptor

Used to provide a straight connection to appliance.

Custom bespoke adaptors can be manufactured to order

Size	Code
100	6769004
150	6769006
175	6769007
200	6769008
250	6769010
300	6769012
350	6769014
400	6769016
450	6769018
500	6769020
550	6769022
600	6769024

## Lengths



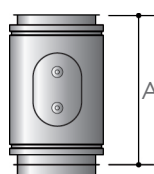
### Standard Lengths

Fixed straight sections are available in four sizes - 245mm, 510mm, 775mm and 1040mm. These are the actual installed lengths.

Size (mm)	Code			
L - Lengths (mm)				
	245	510	775	1040
100	6XX1804	6XX1404	6XX1204	6XX1004
150	6XX1806	6XX1406	6XX1206	6XX1006
175	6XX1807	6XX1407	6XX1207	6XX1007
200	6XX1808	6XX1408	6XX1208	6XX1008
250	6XX1810	6XX1410	6XX1210	6XX1010
300	6XX1812	6XX1412	6XX1212	6XX1012
350	6XX1814	6XX1414	6XX1214	6XX1014
400	6XX1816	6XX1416	6XX1216	6XX1016
450	6XX1818	6XX1418	6XX1218	6XX1018
500	6XX1820	6XX1420	6XX1220	6XX1020
550	6XX1822	6XX1422	6XX1222	6XX1022
600	6XX1824	6XX1424	6XX1224	6XX1024

### Inspection Lengths (T250 P1 Only)

A low pressure (200Pa) / low temperature access component for inspection/cleaning via a rubber-sealed door. For high temperature/pressure applications, use a tee/inspection elbow with blanking plate.

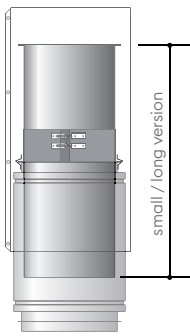


Installed length (A) = 510mm

Size (mm)	Code
100	6XX6304
150	6XX6306
175	6XX6307
200	6XX6308
250	6XX6310
300	6XX6312
350	6XX6314
400	6XX6316
450	6XX6318
500	6XX6320
550	6XX6322
600	6XX6324

# EUROPA PLUS

## Adjustable / Variable Lengths



Designed to provide a degree of adjustment between two fixed points where standard components are not suitable. The component consists of a slip section which is designed to engage into a preceding single standard length and this is secured with a flanged clamp band. The component is finished with insulation blanket and a Cover Jacket.

*Note: These components do not bear load nor should they be used as an expansion component.*

Minimum engagement of the slip length must be half the diameter of the flue.

**SFL**  
Sealant required (see page 13)

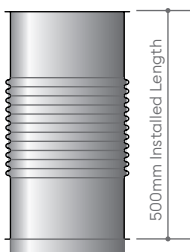
Size (mm)	Code		
	Min. Length (mm)	Short (500mm)	Long (750mm)
100	210	6XX2904	6XX2804
150	210	6XX2906	6XX2806
175	210	6XX2907	6XX2807
200	210	6XX2908	6XX2808
250	210	6XX2910	6XX2810
300	210	6XX2912	6XX2812
350	210	6XX2914	6XX2814
400	210	6XX2916	6XX2816
450	210	6XX2918	6XX2818
500	210	6XX2920	6XX2820
550	210	6XX2922	6XX2822
600	210	6XX2924	6XX2824

For maximum and minimum adjustment, see page 19.

Please refer to Installation Instructions for detailed information on this component.

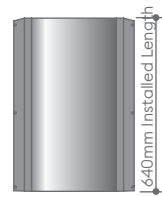
## Expansion Components

### Lined Expansion Bellows

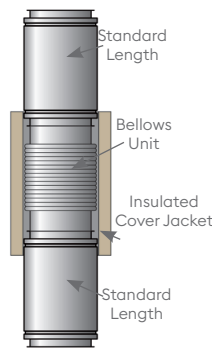


Lined expansion bellows are suitable for positive pressure applications up to 5000 Pa at a maximum temperature of 760°C and specifically for use on engine exhausts. See separate Installation Instruction for detailed information.

Size (mm)	Code
100	1753004
150	1753006
175	1753007
200	1753008
250	1753010
300	1753012
350	1753014
400	1753016
450	1753018
500	1753020
550	1753022
600	1753024



Please note that this item exceeds the outer diameter of the product by the insulation thickness stated.



### Insulated Bellows Jacket

Used in conjunction with the Lined Expansion Bellows in order to close off the product annulus as well as to protect and thermally insulate the bellows.

Insulated bellow jackets are supplied as standard with 25mm of insulation. Note: the jacket has an outside diameter 50mm larger than the outside diameter of the vent.

Size (mm)	25mm Jacket		
	25mm Annulus Product	50mm Annulus Product	100mm Annulus Product
100	6749104	6749106	6749110
150	6749106	6749108	6749112
175	6749107	6749109	6749113
200	6749108	6749110	6749114
250	6749110	6749112	6749116
300	6749112	6749114	6749118
350	6749114	6749116	6749120
400	6749116	6749118	6749122
450	6749118	6749120	6749124
500	6749120	6749122	*
550	6749122	6749124	*
600	6749124	*	*

\* Please consult SFL regarding these sizes.

### Uninsulated Bellows Jacket

Uninsulated bellow jackets are available to order using part number 6XX90XX, e.g. 6779010 for 250ID 25mm annulus or 6479010 for 50mm annulus. For 100mm annulus, use the next size up from the 50mm annulus, e.g. 250ID 100mm annulus 6479016.

### Expansion Length

A lower cost alternative to bellows for positive or negative pressure applications up to 5kPa (H2-external applications) or 1.5kPa (MI) (internal applications) at a maximum temperature of 450°C. The expansion length can also be used as an adjustable component on such systems when standard lengths are not suitable for the space required. The Expansion Lengths are available in two sizes (Short and Long) supplied with cover jacket and insulation. Note: These components are not bear load and require adequate bracing.



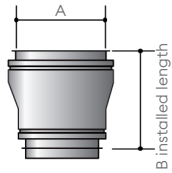
Size (mm)	Code	
	Short (500mm)	Long (750mm)
100	6XX2704	6XX2604
150	6XX2706	6XX2606
175	6XX2707	6XX2607
200	6XX2708	6XX2608
250	6XX2710	6XX2610
300	6XX2712	6XX2612
350	6XX2714	6XX2614
400	6XX2716	6XX2616
450	6XX2718	6XX2618
500	6XX2720	6XX2620
550	6XX2722	6XX2622
600	6XX2724	6XX2624

For maximum and minimum adjustment, see page 19.

# Increasers & Reducers

# EUROPA PLUS

## Tees



### Increasers

Increasers are available in One-Step or Two-Step versions and are tapered in construction to minimise flow resistance.

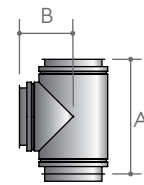
**One Step Installed Length:**

One Step Installed Length
25mm Annulus B = 300mm
50mm & 100mm Annulus B = 386mm

**Two Step Installed Length:**

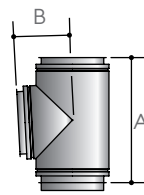
Installed Length 25mm Annulus B = 400mm
50mm & 100mm Annulus B = 486mm

Size (mm)	One Step		Two Step	
	A	Code	A	Code
100	150	6XX1504	200	6XX1604
150	200	6XX1506	250	6XX1606
175	200	6XX1507	250	6XX1607
200	250	6XX1508	300	6XX1608
250	300	6XX1510	350	6XX1610
300	350	6XX1512	400	6XX1612
350	400	6XX1514	450	6XX1614
400	450	6XX1516	500	6XX1616
450	500	6XX1518	550	6XX1618
500	550	6XX1520	600	6XX1620
550	600	6XX1522		

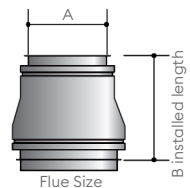


### Equal Tee 90°, 93° & 95°

Designed to provide connection, a change of direction and cleaning access if required. Angled Tees can be used to offer an incline to allow back flow of condensation through the system. Please refer to page 20 for vertical loading data.



Size (mm)	Code		
	90° Tee	93° Tee	95° Tee
100	6XX1904	6XX9304	6XX9504
150	6XX1906	6XX9306	6XX9506
175	6XX1907	6XX9307	6XX9507
200	6XX1908	6XX9308	6XX9508
250	6XX1910	6XX9310	6XX9510
300	6XX1912	6XX9312	6XX9512
350	6XX1914	6XX9314	6XX9514
400	6XX1916	6XX9316	6XX9516
450	6XX1918	6XX9318	6XX9518
500	6XX1920	6XX9320	6XX9520
550	6XX1922	6XX9322	6XX9522
600	6XX1924	6XX9324	6XX9524



### Reducers

Reducers are available in One-Step or Two-Step versions and are tapered in construction to minimise flow resistance.

**One Step Installed Length:**

Installed Length 25mm Annulus B = 300mm
50mm & 100mm Annulus B = 386mm

**Two Step Installed Length:**

Installed Length 25mm Annulus B = 400mm
50mm & 100mm Annulus B = 486mm

Size (mm)	One Step		Two Step	
	A	Code	A	Code
150	100	6XX3006	-	-
175	150	6XX3007	100	6XX3107
200	175	6XX3008	150	6XX3108
250	200	6XX3010	175	6XX3110
300	250	6XX3012	200	6XX3112
350	300	6XX3014	250	6XX3114
400	350	6XX3016	300	6XX3116
450	400	6XX3018	350	6XX3118
500	450	6XX3020	400	6XX3120
550	500	6XX3022	450	6XX3122
600	550	6XX3024	500	6XX3124

Size (mm)	Dimensions (mm) 25mm Annulus	
	A	B
100	500	160
150	500	185
175	500	198
200	500	210
250	500	235
300	600	260
350	600	285
400	700	310
450	700	335
500	750	360
550	750	385
600	825	410

Size (mm)	Dimensions 50mm & 100mm Annulus	
	A	B
100	602	301
150	652	326
175	677	340
200	702	351
250	752	376
300	802	401
350	852	426
400	902	451
450	952	476
500	1002	501
550	1052	526
600	1102	551

Standard Prefix Codes  
316 Inner / 304 Outer

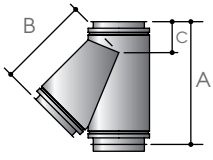
Annulus	Code
25mm	6746XXX
50mm	6446XXX
100mm	6846XXX



# EUROPA PLUS

## 135° Equal Tee

Used at the base of a vertical chimney, or for horizontal header configurations where a smooth transition is required. Can also be used as an inspection / cleaning point when used with a Blanking Cap or as a drainage component when used with the Drain Tee Cap.



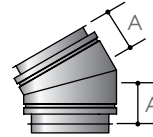
Size (mm)	Dimensions (mm) 25mm Annulus			Code
	A	B	C	
100	415	285	130	6XX2004
150	500	328	172	6XX2006
175	500	358	142	6XX2007
200	600	388	212	6XX2008
250	600	449	151	6XX2010
300	700	509	191	6XX2012
350	750	570	180	6XX2014
400	825	630	195	6XX2016
450	900	690	210	6XX2018
500	950	751	199	6XX2020
550	1025	811	214	6XX2022
600	1100	871	229	6XX2024

Size (mm)	Dimensions (mm) 50mm & 100mm Annulus		
	A	B	C
100	713	510	203
150	784	570	214
175	819	600	219
200	855	630	225
250	925	690	235
300	996	750	246
350	1066	810	256
400	1137	870	267
450	1208	930	278
500	1279	990	289
550	1350	1050	300
600	1420	1110	310

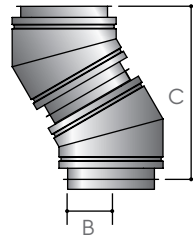
Size (mm)	Dimensions (mm) 50mm & 100mm Annulus		
	A	B	C
100	163	84	640
150	166	86	653
175	168	87	660
200	169	88	666
250	173	89	679
300	176	91	705
350	179	93	718
400	183	95	731
450	186	96	744
500	189	98	757
550	193	100	770
600	196	101	783

## 30° Elbow

Designed to change direction by 30°.



Size (mm)	Dimensions (mm) 25mm Annulus			Code
	A	B	C	
100	120	120	448	6XX2304
150	127	127	474	6XX2306
175	130	130	485	6XX2307
200	134	134	500	6XX2308
250	141	141	526	6XX2310
300	147	147	549	6XX2312
350	154	154	575	6XX2314
400	161	161	601	6XX2316
450	167	167	623	6XX2318
500	174	174	649	6XX2320
550	181	181	676	6XX2322
600	187	187	698	6XX2324

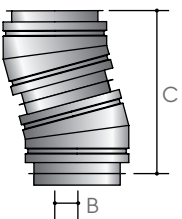
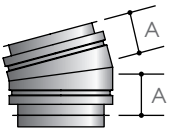


Size (mm)	Dimensions (mm) 50mm & 100mm Annulus		
	A	B	C
100	183	183	685
150	190	190	710
175	194	194	722
200	197	197	735
250	204	204	760
300	210	210	785
350	217	217	810
400	224	224	835
450	230	230	860
500	237	237	885
550	244	244	910
600	250	250	935

## Elbows

### 15° Elbow

Designed to change direction by 15°.

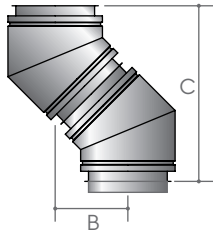
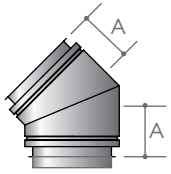


Size (mm)	Dimensions (mm) 25mm Annulus			Code
	A	B	C	
100	110	57	432	6XX2204
150	113	58	444	6XX2206
175	115	59	452	6XX2207
200	117	60	460	6XX2208
250	120	62	472	6XX2210
300	123	64	484	6XX2212
350	126	65	495	6XX2214
400	130	67	511	6XX2216
450	133	69	523	6XX2218
500	136	70	535	6XX2220
550	140	72	550	6XX2222
600	143	74	562	6XX2224

# EUROPA PLUS

## 45° Elbow

Designed to change direction by 45°.

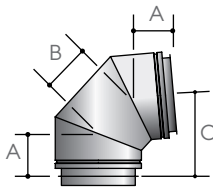


Size (mm)	Dimensions (mm) 25mm Annulus			Code
	A	B	C	
100	132	187	451	6XX2404
150	142	201	485	6XX2406
175	147	208	502	6XX2407
200	152	215	519	6XX2408
250	163	231	557	6XX2410
300	173	245	591	6XX2312
350	183	259	625	6XX2414
400	194	274	662	6XX2416
450	204	288	696	6XX2418
500	214	303	731	6XX2420
550	225	318	768	6XX2422
600	235	332	802	6XX2424

Size (mm)	Dimensions (mm) 50mm & 100mm Annulus		
	A	B	C
100	206	291	702
150	216	305	737
175	221	313	755
200	226	320	772
250	237	335	808
300	247	349	843
350	257	364	879
400	268	379	914
450	278	393	949
500	288	408	985
550	299	422	1020
600	309	437	1055

## 85° Elbow

Allows a 5° incline to facilitate back-flow of condensation through system.

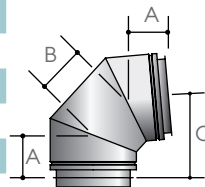


Size (mm)	Dimensions (mm) 25mm Annulus			Code
	A	B	C	
100	132	113	223	6XX8704
150	142	134	249	6XX8706
175	147	144	262	6XX8707
200	152	154	274	6XX8708
250	163	175	301	6XX8710
300	173	196	327	6XX8712
350	183	217	352	6XX8714
400	194	237	378	6XX8716
450	204	258	404	6XX8718
500	214	279	430	6XX8720
550	225	299	456	6XX8722
600	235	320	482	6XX8724

Size (mm)	Dimensions 50mm & 100mm Annulus		
	A	B	C
100	206	175	348
150	216	196	373
175	221	206	386
200	226	217	399
250	237	237	425
300	247	258	451
350	257	279	477
400	268	299	503
450	278	302	516
500	288	341	554
550	299	362	581
600	309	382	606

## 87° Elbow

Allows a 3° incline to facilitate back-flow of condensation through system. N.B. Always use 5° incline unless head room is limited.



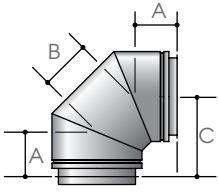
Size (mm)	Dimensions 25mm Annulus			Code
	A	B	C	
100	132	113	217	6XX9204
150	142	134	242	6XX9206
175	147	144	254	6XX9207
200	152	154	274	6XX9208
250	163	175	301	6XX9210
300	173	196	317	6XX9212
350	183	217	342	6XX9214
400	194	237	367	6XX9216
450	204	258	392	6XX9218
500	214	279	417	6XX9220
550	225	299	443	6XX9222
600	235	320	468	6XX9224

Size (mm)	Dimensions 50mm & 100mm Annulus		
	A	B	C
100	206	175	337
150	216	196	362
175	221	206	374
200	226	217	387
250	237	237	413
300	247	258	438
350	257	279	463
400	268	299	488
450	278	302	500
500	288	341	538
550	299	362	564
600	309	382	588

# EUROPA PLUS

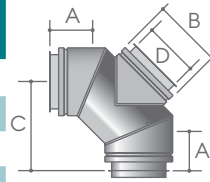
## 90° Elbow

Designed to change direction by 90°.



Size (mm)	Dimensions 25mm Annulus			Code
	A	B	C	
100	132	113	212	6XX8504
150	142	134	236	6XX8506
175	147	144	249	6XX8507
200	152	154	261	6XX8508
250	163	175	289	6XX8510
300	173	196	311	6XX8512
350	183	217	336	6XX8514
400	194	237	361	6XX8516
450	204	258	386	6XX8518
500	214	279	411	6XX8520
550	225	299	436	6XX8522
600	235	320	461	6XX8524

Size (mm)	Dimensions 50mm & 100mm Annulus		
	A	B	C
100	206	175	330
150	216	196	355
175	221	206	367
200	226	217	380
250	237	237	405
300	247	258	430
350	257	279	454
400	268	299	480
450	278	302	504
500	288	341	529
550	299	362	555
600	309	382	579



Size (mm)	Dimensions (mm) 50mm & 100mm Annulus			
	A	B	C	D
100	206	313	427	100
150	216	342	458	150
175	221	357	473	175
200	226	372	489	200
250	237	401	521	250
300	247	430	551	250
350	257	459	582	250
400	268	489	614	250
450	278	519	645	250
500	288	547	675	250
550	299	577	707	250
600	309	606	738	250

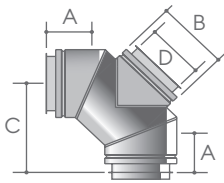
## 85° Access Elbow

As per the 90° Access Elbow but allowing a 5° incline.

Size (mm)	Dimensions (mm) 25mm Annulus				Code
	A	B	C	D	
100	132	189	277	100	6XX8804
150	142	218	309	150	6XX8806
175	147	233	325	175	6XX8807
200	152	248	341	200	6XX8808
250	163	277	373	250	6XX8810
300	173	306	404	250	6XX8812
350	183	335	436	250	6XX8814
400	194	365	469	250	6XX8816
450	204	394	500	250	6XX8818
500	214	423	532	250	6XX8820
550	225	453	565	250	6XX8822
600	235	482	596	250	6XX8824

## 90° Access Elbow

Designed to change direction by 90°, and made with a branch to facilitate both cleaning, inspection and drainage. Used with either a Blanking Cap or Drain Tee Cap (Must be ordered separately)



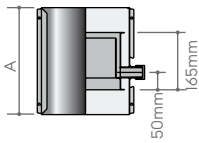
Size (mm)	Dimensions (mm) 25mm Annulus				Code
	A	B	C	D	
100	132	189	266	100	6XX8604
150	142	218	296	150	6XX8606
175	147	233	312	175	6XX8607
200	152	248	327	200	6XX8608
250	163	277	359	250	6XX8610
300	173	306	389	250	6XX8612
350	183	335	420	250	6XX8614
400	194	365	452	250	6XX8616
450	204	394	483	250	6XX8618
500	214	423	513	250	6XX8620
550	225	453	545	250	6XX8622
600	235	482	576	250	6XX8624

Size (mm)	Dimensions (mm) 50mm & 100mm Annulus			
	A	B	C	D
100	206	313	445	100
150	216	342	477	150
175	221	357	493	175
200	226	372	509	200
250	237	401	541	250
300	247	430	573	250
350	257	459	604	250
400	268	489	637	250
450	278	519	669	250
500	288	547	700	250
550	299	577	733	250
600	309	606	764	250

## Drainage / Inspection

### Vertical Drain Section

For use with open vent terminations for draining off rainwater or condensation from within the vent. Should be located inside building to prevent freezing. Provided with a Cover Jacket, insulation and incorporates a 1" BSP externally threaded stainless steel drain tube and protective cap.



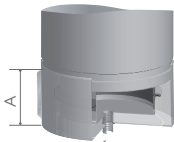
25mm Annulus  
A = 308mm

50mm & 100mm  
Annulus  
A = 394mm

Size (mm)	Code
100	6XX4004
150	6XX4006
175	6XX4007
200	6XX4008
250	6XX4010
300	6XX4012
350	6XX4014
400	6XX4016
450	6XX4018
500	6XX4020
550	6XX4022
600	6XX4024

### Drain Tee Cap

Used to facilitate removal of condensation or rainwater from the system.



Boss  
B

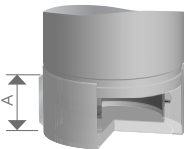
25mm Annulus  
A = 116mm

50mm & 100mm  
Annulus  
A = 202mm

Size (mm)	B	Code
100	1" BSP	6XX3604
150	1" BSP	6XX3606
175	1" BSP	6XX3607
200	1" BSP	6XX3608
250	1" BSP	6XX3610
300	1" BSP	6XX3612
350	1" BSP	6XX3614
400	2" BSP	6XX3616
450	2" BSP	6XX3618
500	2" BSP	6XX3620
550	2" BSP	6XX3622
600	2" BSP	6XX3624

### Blanking Plate

Used to close off the unused opening of Tees and Access Elbows where used for cleaning / inspection access.



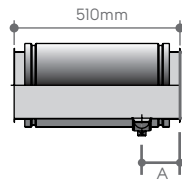
25mm Annulus  
A = 116mm

50mm & 100mm An-  
nulus  
A = 202mm

Size (mm)	Code
100	6XX7404
150	6XX7406
175	6XX7407
200	6XX7408
250	6XX7410
300	6XX7412
350	6XX7414
400	6XX7416
450	6XX7418
500	6XX7420
550	6XX7422
600	6XX7424

### Duct Drain

Used in a horizontal / inclined position, this component is designed to drain off grease / residues inside grease ducts as well as condensation in conventional exhaust systems. It has a small vertical dam to channel the run off to a 1" BSP externally threaded stainless steel drain tube with galvanised plug.



25mm Annulus  
A = 115mm

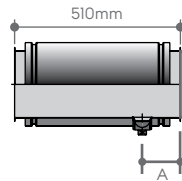
50mm & 100mm  
Annulus  
A = 160mm

Size (mm)	Code
100	6XX3804
150	6XX3806
175	6XX3807
200	6XX3808
250	6XX3810
300	6XX3812
350	6XX3814
400	6XX3816
450	6XX3818
500	6XX3820
550	6XX3822
600	6XX3824

### Nozzle Section

For use as a fire suppression nozzle or hot water / detergent maintenance section (where used as a grease duct).

Fitted with a 1 1/2" BSP parallel internally threaded stainless steel drain tube with galvanised plug. Can also be used as a sample point.



25mm Annulus  
A = 115mm

50mm & 100mm  
Annulus  
A = 160mm

Size (mm)	Code
100	6XX3904
150	6XX3906
175	6XX3907
200	6XX3908
250	6XX3910
300	6XX3912
350	6XX3914
400	6XX3916
450	6XX3918
500	6XX3920
550	6XX3922
600	6XX3924

## Ancillaries / Spares

### 'U' Band (Spare)

Supplied with fixing kit. The 'U' Band is used to secure the flange joint and is supplied as standard with all lengths and fittings.



Size (mm)	Code
100	1754804SET
150	1754806SET
175	1754807SET
200	1754808SET
250	1754810SET
300	1754812SET
350	1754814SET
400	1754816SET
450	1754818SET
500	1754820SET
550	1754822SET
600	1754824SET

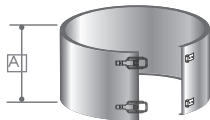
### Fixing Pack for 'U' Band (Spare)

Comprises 4x cap-head hex bolts and two double-nut backing plates. Fixing packs are supplied with 'U' Bands as standard.

Code
FXP0008

### Standard Channel Band (Spare)

The Channel Band is used to finish the joint and is supplied with a strip of insulation. Channel Bands are provided as standard with all lengths and fittings



25mm Annulus  
A = 115mm

50mm & 100mm Annulus  
A = 202mm

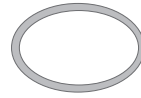


Use appropriate silicone sealant to weatherproof channel bands

Use Sikaflex Weathering Sealant Code: 1758206 when installing channel bands externally to be painted

Size (mm)	Code
	<b>25mm Annulus</b>
100	6774704
150	6774706
175	6774707
200	6774708
250	6774710
300	6774712
350	6774714
400	6774716
450	6774718
500	6774720
550	6774722
600	6774724

Size (mm)	Code	Code
	<b>50mm Annulus</b>	<b>100mm Annulus</b>
100	6474704	6474708
150	6474706	6474710
175	6474707	6874707
200	6474708	6474712
250	6474710	6474714
300	6474712	6474716
350	6474714	6474718
400	6474716	6474720
450	6474718	6474722
500	6474720	6474724
550	6474722	6474726
600	6474724	6474728



### Flange Gasket

A Flange Gasket is supplied as standard with all lengths and fittings. The gasket is supplied with a self-adhesive backing.

**NOTE:** The gasket is extremely delicate. Great care must be exercised during handling.

Before fitting the gasket to the flange face of the spigot end, ensure that the flange face is clean and free of dirt and grease and not damaged or distorted.

Size (mm)	Code
100	6700104
150	6700106
175	6700107
200	6700108
250	6700110
300	6700112
350	6700114
400	6700116
450	6700118
500	6700120
550	6700122
600	6700124

### Joint Sealants

Sealant is required by some components (indicated by the cartridge icon next to the product).

Temperature rating is prescribed by the application.

#### Low temperature Sealant

Use for components requiring sealant where gas temperatures do not exceed 250°C. Capable of resisting positive pressures of 5000Pa

Code
1756506

#### High temperature

Use where flue gas temperatures exceed 250°C. Capable of resisting positive pressures of 5000Pa once cured correctly.

Code
1783108

#### Weathering Sealant (Sikaflex)

For application to Channel Band joints on vertical external EUROPA applications where the flue is to be painted.

Code
1758206

Size	Number of joints per 310ml cartridge at 25mm annulus		
100	16.0	350	5.4
150	10.7	400	4.8
175	9.5	450	4.3
200	8.6	500	3.9
250	7.1	550	3.5
300	6.1	600	3.3

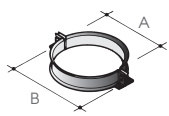


310ml cartridges for use in a standard skeleton gun.

## Support Components

Most support components are common and used for EUROPA, EUROPA Plus and EUROPA Lite.

### Guide Band



B = Fixing Hole Centres

Guide and lateral support, which locates the vent and at the same time permits linear thermal expansion. This component does not support vertical load.

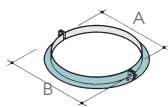
Size (mm)	Dimensions (mm)		Code
	A	B	
	25mm Annulus		
100	155	195	17X7504
150	205	245	17X7506
175	230	270	17X7507
200	255	295	17X7508
250	305	345	17X7510
300	355	395	17X7512
350	405	445	17X7514
400	455	495	17X7516
450	505	545	17X7518
500	555	595	17X7520
550	605	645	17X7522
600	655	695	17X7524

For Stainless Steel replace 'X' with 7  
For Galvanised Steel replace 'X' with 5

Size (mm)	Annulus Matrix	
	50mm	100mm
100	17X7506	17X7510
150	17X7508	17X7512
175	17X7509	17X7513
200	17X7510	17X7514
250	17X7512	17X7516
300	17X7514	17X7518
350	17X7516	17X7520
400	17X7518	17X7522
450	17X7520	17X7524
500	17X7522	17X7526*
550	17X7524	17X7528*
600	17X7526*	17X5230*

\* These Codes use the heavy duty version, please refer to table below for related dimensions.

Heavy Duty Version



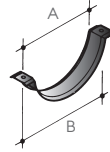
B = fixing hole centres

Code	Dimensions (mm)	
	A	B
17X7526	708	764
17X7528	758	814
17X7530	808	864

For Stainless Steel replace 'X' with 7  
For Galvanised Steel replace 'X' with 5

### Support Cradle

Provides cradle support for horizontal runs.

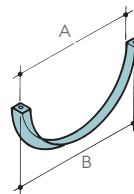


B = Fixing Hole Centres

Size (mm)	Dimensions (mm)		Code
	A	B	
	25mm Annulus		
100	155	205	17X7604
150	205	254	17X7606
175	230	283	17X7607
200	255	304	17X7608
250	305	354	17X7610
300	355	404	17X7612
350	405	458	17X7614
400	455	508	17X7616
450	505	559	17X7618
500	555	609	17X7620
550	605	659	17X7622
600	655	710	17X7624

Size (mm)	Annulus Matrix	
	50mm	100mm
100	17X7606	17X7610
150	17X7608	17X7612
175	17X7609	17X7613
200	17X7610	17X7614
250	17X7612	17X7616
300	17X7614	17X7618
350	17X7616	17X7620
400	17X7618	17X7622
450	17X7620	17X7624
500	17X7622	17X7626
550	17X7624	17X7628*
600	17X7626*	17X7630*

Heavy Duty Version



B = Fixing Hole Centres

\* These Codes use the heavy duty version, please refer to table below for related dimensions.

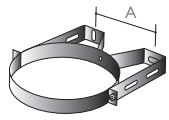
Code	Dimensions (mm)	
	A	B
17X7626	708	764
17X7628	758	814
17X7630	808	864

For Stainless Steel replace 'X' with 7  
For Galvanised Steel replace 'X' with 5

# EUROPA PLUS

## Wall Guides

Provides lateral support to product. Does not bear vertical load.



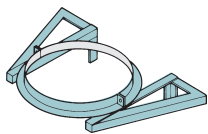
A = Fixing Hole Centres

Size (mm)	Dimensions (mm)	Code
	A	25mm Annulus
100	117	17X7904
150	166	17X7906
175	195	17X7907
200	216	17X7908
250	266	17X7910
300	316	17X7912
350	372	17X7914
400	422	17X7916
450	473	17X7918
500	523	17X7920
550	573	17X7922
600	624	17X7924

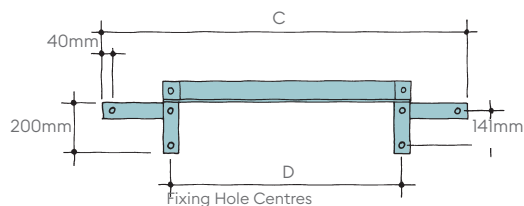
Size (mm)	Annulus Matrix	
	50mm	100mm
100	17X7906	17X7910
150	17X7908	17X7912
175	17X7909	17X7913
200	17X7910	17X7914
250	17X7912	17X7916
300	17X7914	17X7918
350	17X7916	17X7920
400	17X7918	17X7922
450	17X7920	17X7924
500	17X7922	17X7926
550	17X7924	17X7928
600	17X7926*	17X7930

\* These Codes use the heavy duty version, please refer to table below for related dimensions.

Heavy Duty Version



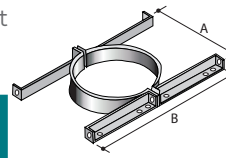
Code	Dimensions (mm)	
	C	D
17X7926	1058	764
17X7928	1122	814
17X7930	1184	864



For Stainless Steel replace 'X' with 7  
For Galvanised Steel replace 'X' with 5

## Floor Guide

Installed at each floor level to ensure correct vertical alignment and free expansion. Maximum hole through floor equals pipe inside diameter plus 250mm. Assembly consists of a Guide Band, 4 struts and nuts / bolts.



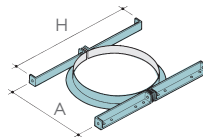
A = Fixing hole centres

Size (mm)	Dimensions (mm)		Code
	A	B	25mm Annulus
100	199	686	17X8004
150	229	686	17X8006
175	249	686	17X8007
200	299	686	17X8008
250	349	686	17X8010
300	399	686	17X8012
350	449	826	17X8014
400	499	826	17X8016
450	549	826	17X8018
500	599	826	17X8020
550	649	826	17X8022
600	699	826	17X8024

Size (mm)	Annulus Matrix	
	50mm	100mm
100	17X8006	17X8010
150	17X8008	17X8012
175	17X8009	17X8013
200	17X8010	17X8014
250	17X8012	17X8016
300	17X8014	17X8018
350	17X8016	17X8020
400	17X8018	17X8022
450	17X8020	17X8024
500	17X8022	17X8026*
550	17X8024	17X8028*
600	17X8026*	17X8030*

\* These Codes use the heavy duty version, please refer to table below for related dimensions.

\*Heavy Duty Version



B = Fixing Hole Centres

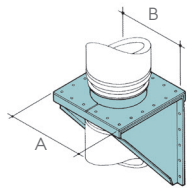
Code	Dimensions (mm)	
	A	H
17X8026	764	1012
17X8028	814	1012
17X8030	864	1012

For Stainless Steel replace 'X' with 7  
For Galvanised Steel replace 'X' with 5

# EUROPA PLUS

## Wall Support Assembly

Designed to provide either vertical or horizontal support for the system. The assembly consists of two side brackets, a split top and bottom plates, support length and fixing flange. The Wall Support Assembly is designed to provide a 50mm clearance as standard for non-combustible structures. Cover Jackets are ordered separately.



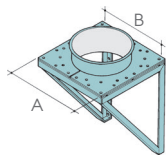
b = Fixing hole centres

Installed height of Support Length 170mm.

Corresponding Cover Jacket set required (see overleaf)

Size (mm)	Dimensions (mm)		Code
	A	B	
	25mm Annulus		
100	252	212	67X8404
150	302	262	67X8406
175	327	287	67X8407
200	352	312	67X8408
250	402	362	67X8410
300	452	412	67X8412
350	502	462	67X8414
400	552	512	67X8416
450	602	562	67X8418
500	652	612	67X8420
550	702	662	67X8422
600	752	712	67X8424*

\*Heavy Duty Version



Installed height of Support Length 170mm.

Corresponding Cover Jacket set required (see overleaf)

Size (mm)	Dimensions (mm)		Code
	A	B	
	50mm Annulus		
100	302	262	64X8404
150	352	312	64X8406
175	377	337	64X8407
200	402	362	64X8408
250	452	412	64X8410
300	502	462	64X8412
350	552	512	64X8414
400	602	562	64X8416
450	652	612	64X8418
500	702	662	64X8420
550	752	712	64X8422
600	804	754	64X8424*

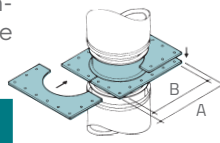
Size (mm)	Dimensions (mm)		Code
	A	B	
	100mm Annulus		
100	402	362	68X8404
150	452	412	68X8406
175	477	437	68X8407
200	502	462	68X8408
250	552	512	68X8410
300	602	562	68X8412
350	652	612	68X8414
400	702	662	68X8416
450	752	712	68X8418
500	804	754	68X8420*
550	854	804	68X8422*
600	904	854	68X8424*

\* These Codes use the heavy duty version, please refer to table below for related dimensions.

For Stainless Steel replace 'X' with 7  
For Galvanised Steel replace 'X' with 5

## Support Plate Assembly

The Support Plate is design for use with on-site fabricated bracketry as a dead weight support or as thrust / bracing plates for bellows and changes of direction. Consists of two sets of half plates, split flange and Support Length. The assembly MUST be mounted on all four sides to a structural frame and attached to the building structure. Cover Jackets are ordered separately.



Corresponding Cover Jacket set required (opposite)

Size (mm)	Dimensions (mm)		Code
	A	B	
	25mm Annulus		
100	252	212	67X8304
150	302	262	67X8306
175	327	287	67X8307
200	352	312	67X8308
250	402	362	67X8310
300	452	412	67X8312
350	502	462	67X8314
400	552	512	67X8316
450	602	562	67X8318
500	652	612	67X8320
550	702	662	67X8322
600	752	712	67X8324

Size (mm)	Dimensions (mm)		Code
	A	B	
	50mm Annulus		
100	302	262	64X8304
150	352	312	64X8306
175	377	337	64X8307
200	402	362	64X8308
250	452	412	64X8310
300	502	462	64X8312
350	552	512	64X8314
400	602	562	64X8316
450	652	612	64X8318
500	702	662	64X8320
550	752	712	64X8322
600	804	754	64X8324

Size (mm)	Dimensions (mm)		Code
	A	B	
	100mm Annulus		
100	402	362	68X8304
150	452	412	68X8306
175	477	437	68X8307
200	502	462	68X8308
250	552	512	68X8310
300	602	562	68X8312
350	652	612	68X8314
400	702	662	68X8316
450	752	712	68X8318
500	804	754	68X8320
550	854	804	68X8322
600	904	854	68X8324

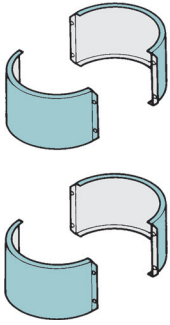
For Stainless Steel replace 'X' with 7  
For Galvanised Steel replace 'X' with 5



# EUROPA PLUS

## Cover Jacket Set

Use to close off the annulus on each side of a Support plate or Wall Support Assembly.

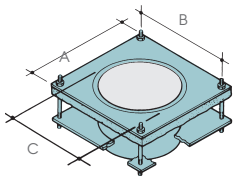


Size (mm)	Dimensions (mm)		Code
	A	B	
	25mm Annulus		
100	252	212	6778104
150	302	262	6778106
175	327	287	6778107
200	352	312	6778108
250	402	362	6778110
300	452	412	6778112
350	502	462	6778114
400	552	512	6778116
450	602	562	6778118
500	652	612	6778120
550	702	662	6778122
600	752	712	6778124

Size (mm)	Annulus Matrix	
	50mm	100mm
100	6478104	6478108
150	6478106	6478110
175	6478107	6478113
200	6478108	6478112
250	6478110	6478114
300	6478112	6478116
350	6478114	6478118
400	6478116	6478120
450	6478118	6478122
500	6478120	6478124
550	6478122	6478126
600	6478124	6478128

## Firestop Kit for Fast Track Buildings (Non-Combustible Structure)

Designed to be applied where EUROPA passes through structures requires a compartmental fire rating of up to 4 hours to BS 476 Part 24, (stability and integrity). See separate installation instructions for full details.



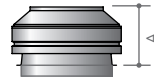
Size (mm)	Dimensions (mm)			Code
	A	B	C	
100mm	130	340	158	1757304
150mm	380	340	208	1757306
175mm	405	340	233	1757307
200mm	430	390	258	1757308
250mm	480	440	308	1757310
300mm	530	490	358	1757312
350mm	580	540	408	1757314
400mm	630	590	458	1757316
450mm	680	640	508	1757318
500mm	730	690	558	1757320
550mm	780	740	608	1757322
600mm	830	790	658	1757324

For combustible floor penetrations, please contact SFL.

## Terminals

### Parallel Vent Terminal

An open ended terminal to provide a zero resistance outlet.



25mm Annulus  
A=160mm

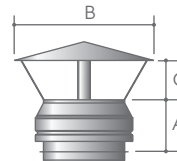
50mm Annulus  
A=252mm

100mm Annulus  
A=360mm

Size (mm)	Code
100	6XX6704
150	6XX6706
175	6XX6707
200	6XX6708
250	6XX6710
300	6XX6712
350	6XX6714
400	6XX6716
450	6XX6718
500	6XX6720
550	6XX6722
600	6XX6724

### Vent Cap

Provides a degree of protection from rain ingress into the vent system.



25mm Annulus  
A=160mm

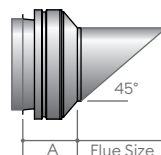
50mm Annulus  
A=252mm

100mm Annulus  
A=360mm

Size (mm)	Dimensions		Code
	B	C	
100	150	46	6XX3404
150	260	71	6XX3406
175	305	85	6XX3407
200	346	94	6XX3408
250	430	121	6XX3410
300	520	146	6XX3412
350	650	167	6XX3414
400	735	193	6XX3416
450	820	217	6XX3418
500	905	243	6XX3420
550	990	268	6XX3422
600	1080	293	6XX3424

### Exhaust Terminal with Mesh

Designed for use on generator exhausts and where the terminal discharges at the end of a horizontal run. Can also be used with a 90° Elbow for vertical chimney termination.

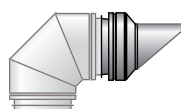


25mm Annulus  
A=160mm

50mm Annulus  
A=252mm

100mm Annulus  
A=360mm

Size	Code
100	6XX7104
150	6XX7106
175	6XX7107
200	6XX7108
250	6XX7110
300	6XX7112
350	6XX7114
400	6XX7116
450	6XX7118
500	6XX7120
550	6XX7122
600	6XX7124

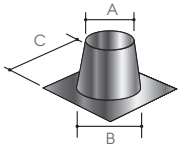


Used with a 90° Elbow for vertical chimney terminations.

## Flashings

### Universal Flat Flashing

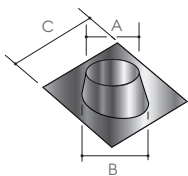
For flat or nearly flat roofs. If vertical expansion exceeds 100mm, use the telescopic Flat Flashing.



Height of cone is 250mm from base plate.

Size (mm)	Dimensions (mm)			Code
	A	B	C	
				25mm Annulus
100	160	250	495	70000006
150	210	300	495	70000009
175	235	325	660	70000010
200	260	350	660	70000011
250	310	400	660	70000012
300	360	450	660	70000013
350	410	500	820	70000014
400	458	550	862	70000015
450	508	600	914	70000016
500	558	650	965	70000017
550	608	700	1015	70000018
600	658	750	1066	70000019

Size (mm)	Annulus Matrix	
	50mm	100mm
100	70000009	70000012
150	70000011	70000013
175	70000024	70000025
200	70000012	70000014
250	70000013	70000015
300	70000014	70000016
350	70000015	70000016
400	70000016	70000018
450	70000017	70000019
500	70000018	See Note 1
550	70000019	See Note 1
600	See Note 1	See Note 1



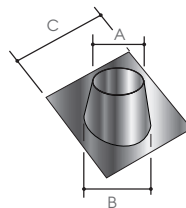
### Universal 5° - 30° Flashing

For sloping roof penetrations of angles between 5° and 30°.

Size (mm)	Dimensions (mm)			Code
	A	B	C	
				25mm Annulus
100	160	250	495	70053006
150	210	300	660	70053009
175	235	325	660	70053010
200	260	350	660	70053011
250	310	400	660	70053012
300	360	450	820	70053013
350	410	500	965	70053014
400	458	652	952	70053015
450	508	710	1010	70053016
500	558	766	1066	70053017
550	608	824	1124	70053018
600	658	880	1180	70053019

All flashings are made from malleable aluminium

Size (mm)	Annulus Matrix	
	50mm	100mm
100	70053009	70053012
150	70053011	70053013
175	70053024	70053025
200	70053012	70053014
250	70053013	70053015
300	70053014	70053016
350	70053015	70053017
400	70053016	70053018
450	70053017	70053019
500	70053018	See Note 1
550	70053019	See Note 1
600	See Note 1	See Note 1



### 32° - 45° Flashing

For sloping roof penetrations of angles between 32° and 45°.

Size (mm)	Dimensions (mm)			Code
	A	B	C	
				25mm Annulus
100	160	332	660	70324506
150	210	403	660	70324509
175	240	440	820	70324510
200	260	475	820	70324511
250	310	546	820	70324512
300	360	617	820	70324513
350	410	689	1219	70324514
400	458	761	1219	70324515
450	508	831	1219	70324516
500	558	895	1219	70324517
550	608	974	1219	70324518
600	658	1038	1219	70324519

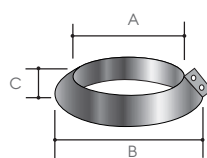
Size (mm)	Annulus Matrix	
	50mm	100mm
100	70324509	70324512
150	70324511	70324513
175	70324524	70324525
200	70324512	70324514
250	70324513	70324515
300	70324514	70324516
350	70324515	70324517
400	70324516	70324518
450	70324517	70324519
500	70324518	See Note 1
550	70324519	See Note 1
600	See Note 1	See Note 1

NOTE 1 - Flashings for these sizes are manufactured to the customer's specific requirements and dimensions and must be confirmed prior to order.

# EUROPA PLUS

## Technical Data

FOR FULL TECHNICAL INFORMATION AND INSTALLATION GUIDANCE, PLEASE REFER TO THE SEPARATE EUROPA INSTALLATION INSTRUCTIONS. A COPY CAN BE DOWNLOADED FROM THE SFL WEBSITE BELOW:  
[www.sflchimney.com](http://www.sflchimney.com).



### Storm Collar

Used over the aluminium flashing and secured to the outer case of the chimney. Provided with silicone sealant.

Size (mm)	Dimensions (mm)			Code
	A	B	C	
				25mm Annulus
100	152	255	70	70123406
150	202	301	70	70123409
175	227	330	70	70123410
200	252	351	70	70123411
250	302	401	70	70123412
300	352	451	70	70123413
350	402	501	70	70123414
400	450	623	150	70123415
450	500	673	150	70123416
500	550	723	150	70123417
550	600	773	150	70123418
600	650	823	150	70123419

Size (mm)	Annulus Matrix	
	50mm	100mm
100	70123409	70123412
150	70123411	70123413
175	70123424	70123425
200	70123412	70123414
250	70123413	70123415
300	70123414	70123416
350	70123415	70123417
400	70123416	70123418
450	70123417	70123419
500	70123418	See Note 1
550	70123419	See Note 1
600	See Note 1	See Note 1

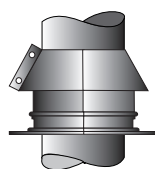
### Minimum and Maximum Installed Length for Expansion Lengths

Size (mm)	Expansion Length			
	Short (6XX27XX)		Long (6XX26XX)	
	Min (mm)	Max (mm)	Min (mm)	Max (mm)
100	210	450	210	700
150	210	425	210	675
175	210	412	210	662
200	210	400	210	650
250	210	375	210	625
300	210	350	210	600
350	210	325	210	575
400	210	300	210	550
450	210	275	210	525
500	210	250	210	500
550	210	225	210	475
600	210	300	210	450

### Minimum and Maximum Installed Length for Adjustable / Variable Length

Size (mm)	Minimum Extension All Sizes (mm)	Maximum Extension (mm)	
		Short	Long
100	130	457	707
150	130	432	682
175	130	419	669
200	130	407	657
250	130	382	632
300	130	357	607
350	130	332	582
400	130	307	557
450	130	282	532
500	130	257	507
550	130	232	482
600	130	207	457

### Telescopic Flat Flashing



This component weatherproofs the EUROPA's passage through the roof, and must be used where the expansion of the duct is calculated to exceed 100mm. The telescopic drum section of the Flashing is secured to the roof. The storm collar is located with silicone sealant to the outer EUROPA casing and is free to rise with the expansion. Only available for 25mm annulus.

Size (mm)	Code
100	1757204
150	1757206
175	1757207
200	1757208
250	1757210
300	1757212
350	1757214
400	1757216
450	1757218
500	1757220
550	1757222
600	1757224

## Loading Data

# EUROPA PLUS

When calculating loading, the mechanical and thermally induced loads must be summed. Elbows, adjustable lengths, expansion lengths are not load-bearing and must be adequately supported. Always use a support component above such components.

Size	Support Plates	Wall Supports	Tees (Base Supported)
	Loading (Kg)	Loading (Kg)	Loading (Kg)
100mm (4")	425	400	100
150mm (6")	450	450	100
175mm (7")	525	500	100
200mm (8")	600	550	125
250mm (10")	750	625	150
300mm (12")	900	700	175
350mm (14")	1050	800	200
400mm (16")	1250	875	225
450mm (18")	1350	950	250
500mm (20")	1500	1050	275
550mm (22")	1650	1125	312
600mm (24")	1800	1200	350

## Lateral Bracing

The EUROPA Plus product must be adequately supported or given lateral bracing in accordance with the following table, bearing in mind the above loading characteristics and product weights.

Size	Application		Freestanding height above last Support or Guide
	Vertical	Horizontal	
100mm	4.0 Mtrs	2.5 Mtrs	2.5 Mtrs
150mm - 600mm*	4.0 Mtrs	3.0 Mtrs	3.0 Mtrs

\* Where either 50mm or 100mm insulation (150mm - 600mm), the maximum horizontal distance between supports is reduced to 2.5 metres.

## Approx. Product Weights (Per Metre)

Size	25mm Annulus	50mm Annulus	100mm Annulus
	Kg	Kg	Kg
100mm (4")	5.66	9.75	16.06
150mm (6")	7.66	11.92	18.58
175mm (7")	8.67	12.99	19.95
200mm (8")	9.67	14.14	21.27
250mm (10")	11.7	16.35	24.99
300mm (12")	13.73	18.58	27.75
350mm (14")	15.76	21.92	30.51
400mm (16")	18.95	24.25	33.29
450mm (18")	21.04	26.6	36.05
500mm (20")	23.2	28.94	38.78
550mm (22")	25.35	31.28	41.57
600mm (24")	27.5	33.63	44.33

# NOTES

# NOTES

# NOTES

# RESIDENTIAL

Vitreous Enamel

**SVIT**



Quick Installation



Brand Compatibility



No Sealant Required



Year Product Warranty

**SVIT®** is a vitreous enamel-coated steel connecting flue pipe designed to facilitate the connection between a multi-fuel appliance, an existing brick chimney or a prefabricated twin wall chimney system. It offers a smooth, aesthetically pleasing joint, without the need for additional locking bands or fire cement and is available in 100mm, 125mm, 150mm, 180mm & 200mm.

Twin Wall / Twist Lock

**NEXUS**



127-152mm Diameter



T450 Rating



Brand Compatibility



Year Product Warranty

**NEXUS®** is the next generation of twist lock pre-fabricated chimney systems from SFL. With its clean lines and rapid installation method it's the No.1 choice for installers and discerning home owners, designed and manufactured in the UK. The Quick-Fit Jointing System offers around a 45% time saving in comparison to assembling a conventional locking band.

Flexible Liner

**SELFLEX**



V2 Corrosion Resistant



P1 / N Rating



Brand Compatibility

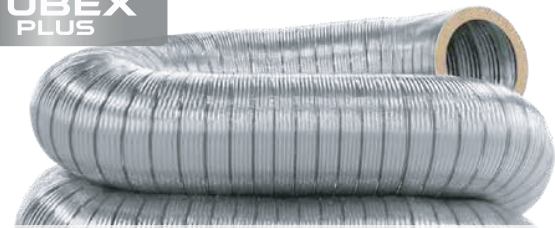


Year Product Warranty

**SELFLEX®** is a double skin multi-fuel flexible chimney liner suitable for multi-fuel, gas, and oil-fired applications up to a maximum flue gas temperature of 600°C. CE marked to EN 1856-2. The SELFLEX® family range is suitable for the relining of masonry flues and used with wood, multi-fuel stoves and open fires and is available in three different specifications.

Insulated Flexible Liner

**TUBEX PLUS**



V2 Corrosion Resistant



Brand Compatibility



125-150mm Diameter



Product Warranty

**TUBEX PLUS®** is a unique insulated flexible liner for multi-fuel applications that allows maximum flexibility and ease of installation, the insulated core offers excellent thermal resistance to maximise natural draft to ensure optimum efficiency of the appliance with its 13mm high density insulation layer. Ideal for use on modern high-efficiency wood burning and multi-fuel appliance and application.

Twin Wall / Twist Lock

**NOVA**



Fire Rated EN1366-13



100-355mm Diameter



P1 / H1 Rating



Year Product Warranty

**NOVA®** insulated twin wall system, a superior, U.K designed, engineered and manufactured flue for quality domestic installations. With its uniquely robust multi barb speedy twist lock jointing system, it's trusted and favoured by installers around the globe. A wide range of components makes any installation a possibility.

Single Wall / Connecting Flue

**SIGMA**



Quick Installation



Brand Compatibility



T600 Rating



Year Product Warranty

**SIGMA®** is a stainless-steel single wall connecting flue pipe for use with multi-fuel appliances, brick chimneys, twin wall systems and flexible liners. Available in four diameters 127mm, 152mm, 178mm and 203mm manufactured for wood and multi-fuel burning appliances it has a gas-tight joint that negates the need for fire cement or rope.



# COMMERCIAL

Single Wall / Push Fit

**SUPRA**



Quick Installation



T450 / 200 Rating



80-600mm Diameter



Multi-Fuel Appliances



Year Product Warranty

**SUPRA PLUS®** is a British built single wall chimney system designed specifically for today's modern high efficiency appliances that operate under positive pressure and condensing conditions.

Manufactured in 9 diameters ranging from 80mm to 350mm and consists of a range of lengths and fittings which simply push-fit together, and which are secured with a locking band and available with a wide range of support components that cater for both lateral and vertical structural loading of the product.

**SUPRA XL®** covers larger internal diameters, 400mm, 500mm & 600mm, that can be manufactured in either 1mm or 0.6mm 316L stainless & has the same features of Supra Plus; including factory fitted seals.

Twin Wall / Twist Lock

**NOVA**



Fire Rated EN1366-13



100-600mm Diameter



P1 / H1 Rating



Year Product Warranty

**NOVA®** is a pre-fabricated, factory-made twin-wall, insulated stainless steel chimney system. Suitable for condensing and positive pressure applications and is specifically designed to meet the demands of the latest high-efficiency heating appliances as well as traditional gas and oil-fired combustion equipment. With its unique multi-barb twist-lock jointing system.

Manufactured in 8 internal diameters, ranging from 100mm to 355mm and consists of a wide range of components, together with a strong 16-barb twistlock jointing system, NOVA offers the ultimate in ease of installation and functionality. With its strong joint design, NOVA can achieve a maximum unsupported height of 3.0 metres above the last support (2.0 m for DN100), without the need for structural locking bands.

**NOVA XL®** extends the internal diameter range by a further 5 sizes, 400mm, 450mm, 500mm, 550mm & 600mm.

Twin Wall / Flanged

**EUROPA**



Fire Rated EN1366-13



T600 Rating



100-1200mm Diameter



Year Product Warranty

The **EUROPA®** product family consists of 3 flanged twin wall systems to suit a multitude of applications & all are constructed (as standard) from a 316L Stainless inner, 304 stainless outer & 25mm of insulation. All configurations are suitable for continuous flue gas temperatures up to 600C (T600) and positive pressure applications of up to 5000 Pa. The product family is for use with appliances ranging from coffee roasting machines to backup generators.

**EUROPA®** is made up of a 1mm inner & supports a diameter range from 100mm through to 1200mm; and can be configured with either 50mm or 100mm of insulation. EUROPA® is fire rated to in accordance with BS 476-24.

**EUROPA PLUS®** is made up of a 0.6mm inner & supports a diameter range from 100mm to 600mm; and can be configured with either 50mm or 100mm of insulation. Its flange joints are sealed with the use of composite graphite gaskets and U bands that offer a robust long-lived service. EUROPA PLUS® is fire rated & tested to the latest fire resistance normative BS EN 1366-13.

**EUROPA LITE®** is made up of a 0.6mm inner & supports a diameter range from 100mm through to 600mm; and can be configured with either 50mm or 100mm of insulation. Utilising a mating flanged joint design with a location spigot for easy alignment during installation

# About SFL

**British manufacturer of flues & chimneys for residential & commercial applications for more than 50 years.**

## Commercial Solutions and Project Assistance

For large-scale installations in commercial buildings, we manufacture a range of flue systems with ease of install at the centre of your design. From complex header configurations to large-diameter stacks, we can accommodate almost every requirement for any application.

At SFL, we work with carefully selected installation partners to ensure your turnkey package is carried out on time within budget by seasoned professionals.

We're committed to offering industry-leading technical support services, throughout the whole process of design, manufacture, and supply of your upcoming project. Our experienced team are on hand to assist you at every stage of your project. From initial product selection to flue routing and calculations.

## Residential Solutions

From wood burning & multi-fuel stoves to gas fires & oil boilers, our time-honoured brands of flues and chimneys have been a mainstay of domestic heating for decades. We work with a network of distribution partners providing high-quality residential flue and chimney components for easy installation. With fast delivery times and comprehensive product warranties, we ensure that your requirements are met with quality and reliability.

## SFL Head Office & Manufacturing Facility

SFL Flues & Chimneys  
Pottington Business Park  
Barnstaple  
Devon  
EX31 1LZ

Tel: +44 (0) 1271 326633  
Email: [info@sflchimneys.com](mailto:info@sflchimneys.com)  
Web: [www.sflchimneys.com](http://www.sflchimneys.com)



## At the forefront of flue and chimney manufacturing and technology.

Since 1969 SFL have been leading the way in flue and chimney innovation and technology. Our portfolio of trusted chimney and flues brands are known throughout the world for their engineering excellence. We offer industry-leading technical support services throughout the whole process of design, manufacture, and supply for commercial, domestic, and industrial applications, with uncompromised customer service.

We are proud of our British built heritage at SFL. Our manufacturing centre is based in Barnstaple, Devon, UK, alongside our extensive R&D centre, ensuring continuous product development and testing to the latest Standards.

SFL is part of the Sphering group, Sphering is an EU market maker with renowned expertise in design, manufacturing and distribution of advanced air and flue care systems.

### WeLab®

As a committed company determined to play an active role towards the environment and society, the Group has its own R&D centre: WeLab®. This facility has allowed the group to comply with the newest European standards (including the NZEB: nearly zero energy building) in terms of security and performance of appliances, but also to adopt a responsible innovation approach. With our WeLab®, we have developed test rigs based on minimum requirements in order to guarantee our clients the highest levels of security and performance.

SFL branded products are synonymous with the highest quality – it is this reputation that enables specifiers, contractors, and householders to use our products with total confidence.

NOVA®

SUPRA®

EUROPA®

S-FLUE®

NEXUS®

SVIT®

SELFLEX®

TUBEX PLUS®

IL®

SIGMA®

**Over 50 years** of industry leading experience in the flue and chimney market.



**SFL**

A Sphering Company

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