

EUROPA PLUS

Flanged Stainless Steel High Pressure
Twin Wall Exhaust System



EUROPA PLUS 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



www.sflchimneys.com

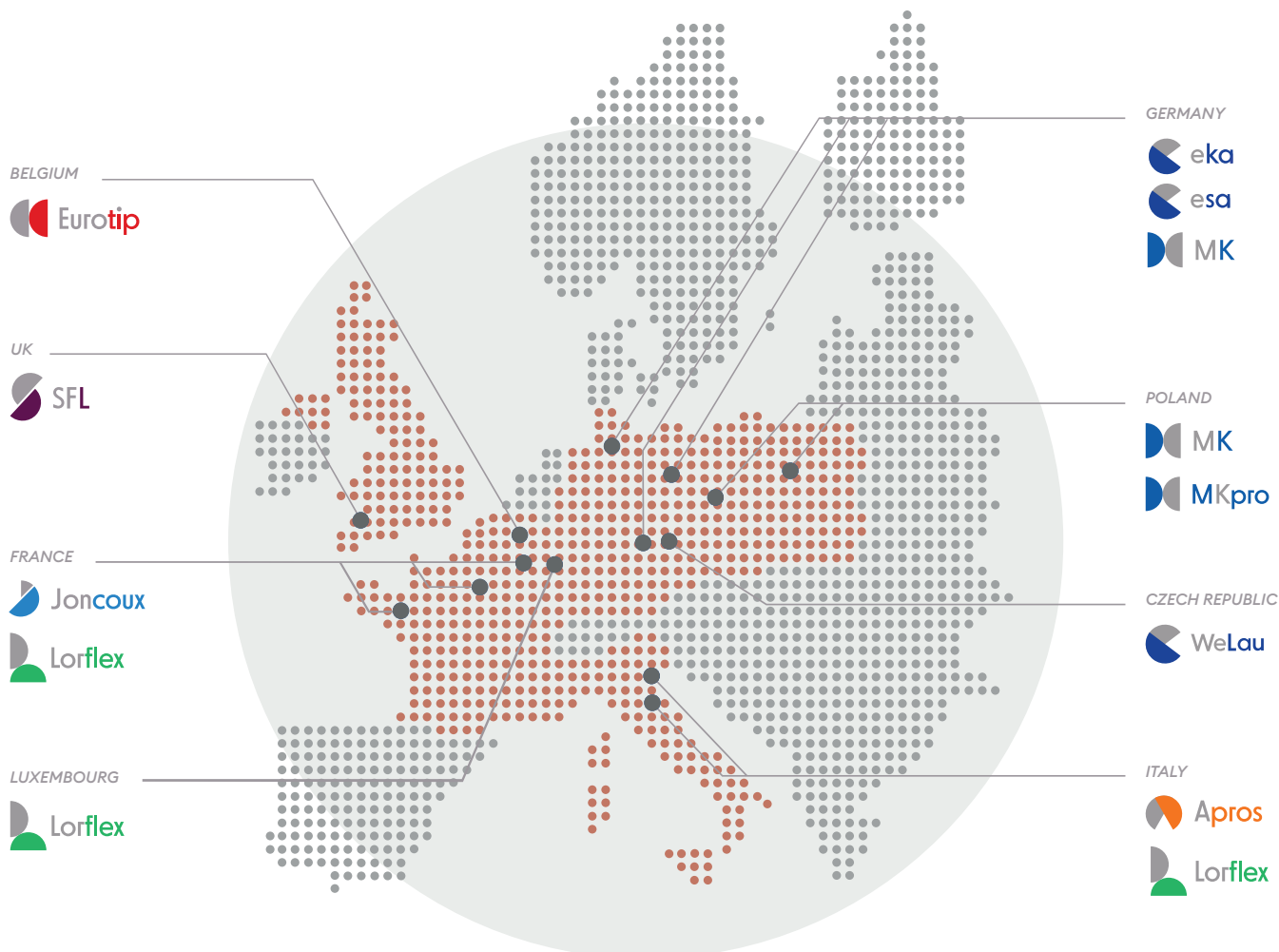


Flue & Air Care
Since 1919

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

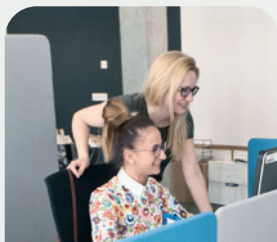

26
Distribution Branches

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

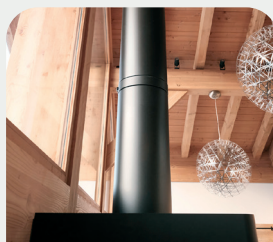
With customers



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



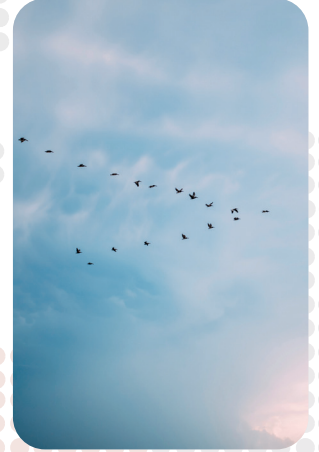
Leading Edge



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



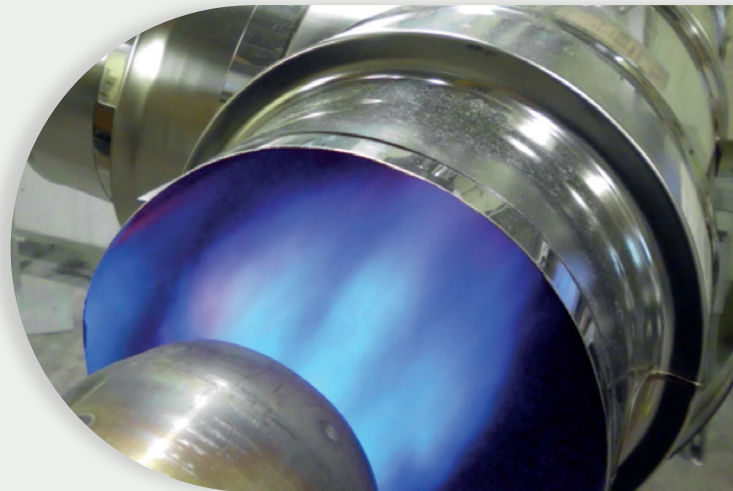
Mechanical



Tightness

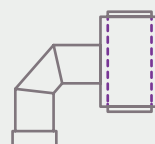


Fine dust



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

EUROPA PLUS 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 a double walled prefabricated stainless steel chimney system, available in a range of insulation thickness to meet the most demanding applications. As standard, EUROPA PLUS incorporates a 25mm high performance insulated cavity, with the option to increase the cavity thickness to 50mm and 100mm for applications that demand critically controlled surface temperatures.

EUROPA PLUS is offered in an extensive range of fittings and fixings covering sixteen internal diameter sizes ranging from 100mm to 1200mm.

Suitable for continuous flue gas temperatures up to 600°C (T600) and positive pressure applications up to 5000 Pa (H1). The product has also been tested under soot fire conditions at 1000°C for 30 minutes and is certified for fire resistance.

The joint is of a matting flange construction and incorporates a location spigot for easy alignment during installation. Depending on the size, pressure and condensate integrity is achieved either using a composite graphite gasket or the use of a high or low temperature sealant. A clamp band is then secured around the mating flange to secure the joint and finished with a Channel Band.



British Built
Flue System



Commercial
Application



100-1200mm
Diameter



Multi-Fuel
Appliances



T600
Rating



H1
Rating



EI180 Fire Rated
EN1366-13



Year Product
Warranty



Product &
Downloads
QR Code

Typical Applications

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



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



Specification and Performance Designations

EUROPA PLUS (DN100 to DN600)

Inner Liner: 0.6mm 316L stainless steel
Outer Case: 304 BA stainless steel
Cavity: 25mm insulated with Insulfrax 128Kg/m³ AES high density blanket
Joint Construction: U-Band and composite graphite flange gasket.

EUROPA PLUS (DN650 to DN1200)

Inner Liner: 1mm 316L stainless steel 1.2mm above 1000ID
Outer Case: 304 BA stainless steel
Cavity: 25mm insulated with 250Kg/m³ high density loose fill mineral wool
Joint Construction: Vee Band utilising high or low temperature sealant depending on application.

Table A

Product Performance Designation to BS EN 1856-1							
Standard	Diameter Range	Temperature Class	Pressure Class	D = Dry W = Wet	Corrosion Class	Material Specification	Sootfire Resistance G= Yes O= No
BS EN 1856-1	DN100-DN600	T600	H1	W	V2	L50060	GXX
BS EN 1856-1	DN650-DN950	T600	H1	W	V2	L50100	GXX
BS EN 1856-1	DN1000-DN1200	T600	H1	W	V2	L500120	GXX
BS EN 1856-1	DN650-DN950	T250	H1	W	V2	L50100	OXX
BS EN 1856-1	DN1000-DN1200	T250	H1	W	V2	L50120	OXX
BS EN 1856-1	DN100-DN600	T200	H1	W	V2	L50060	OXX
BS EN 1856-1	DN650-DN950	T200	H1	W	V2	L50100	OXX
BS EN 1856-1	DN1000-DN1200	T200	H1	W	V2	L50120	OXX

Unenclosed chimney within an open environment			
Temperature Class	Internal Diameter (mm)	Clearance To Combustible Material (mm)	Product Type
T250 / T600	100 - 300	50	Twin Wall
T250 / T600	350 - 450	75	Twin Wall
T250 / T600	500 - 600	100	Twin Wall
T250 / T600	> 600	200	Twin Wall
T200	100 - 300	200	Single Wall
T200	350 - 450	300	Single Wall
T200	500 - 600	400	Single Wall
T200	> 600	800	Single Wall

Unenclosed chimney within a ventilated combustible shaft			
Temperature Class	Internal Diameter (mm)	Clearance To Combustible Material (mm)	Product Type
T600	100 - 300	100	Twin Wall
T600	350 - 450	150	Twin Wall
T600	500 - 600	200	Twin Wall
T600	> 600	400	Twin Wall
T250	100 - 300	50	Twin Wall
T250	350 - 450	75	Twin Wall
T250	500 - 600	100	Twin Wall
T250	> 600	200	Twin Wall

Approvals

EUROPA PLUS is manufactured and tested to the requirements of EN 1856-1 to the performance designations as detailed above. EUROPA PLUS is CE marked under the Construction Products Regulation, Certificate No's. 0036 CPR 9145. In addition, EUROPA PLUS is also UKCA marked, Certificate No's 0168 CPR 91455, both administered by TÜV Industrie Service GmbH.



IMPORTANT
(Always Read The Installation Instructions)
For detailed information regarding design, installation and application of this product, scan the QR code to download the full installation instructions. Information also available at www.sflchimneys.com.

Other Approvals

EUROPA PLUS is listed by UL in North America and Canada as follows:

North America

UL103 : USA requirements for Factory-built Chimneys for Residential Type and Building Heating Appliances
UL2561 : 1400 Degree Fahrenheit Factory-Built Chimneys
UL1777 : Chimney Liners
UL1738 : Venting Systems for Gas-Burning Appliances, Categories II, III, and IV

Canada

ULC/ORD-C959-1993 : 540°C and 760°C Industrial Chimneys
ULC-S635-00 : Lining Systems for Existing Masonry or Factory-Built Chimneys or Vents
ULC-S636-08 : Type BH Gas Venting Systems



Quality Management

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.



Fire Resistance Approvals

EUROPA PLUS DN100 - DN600

Tested by Appos Laboratories to EN 1366-13 - Fire resistance tests for service installations - Chimneys.
Report 22/32302474-2

EI 180 (o → i) h_o v_e

Tested and assessed by the Building Research Establishment (BRE) offering a 4 hour fire resistance in accordance with the integrity criteria of BS 476 Part 20. Test Report 302589 Issue 2 and Assessment Reports P120607-1001

EUROPA PLUS DN650-DN1200

Tested by the Loss Prevention Council offering a 4 hour fire resistance in accordance with the stability and integrity criteria of BS 476 Part 24 Duct Type B. Reports TE6696 and TE7109.

Warranty

EUROPA PLUS is backed up by a comprehensive 20-year products defects warranty. The 20-year warranty is a measure of our confidence in the quality and reliability of our products, giving added peace of mind for any installation.

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
info@sflchimneys.com
01271 326633

Product Codes

Cavity	Inner	Outer	Code
Single Wall	316L	-	679XXXX
25mm Insulated	316L	304	674XXXX
50mm Insulated	316L	304	644XXXX
100mm Insulated	316L	304	684XXXX

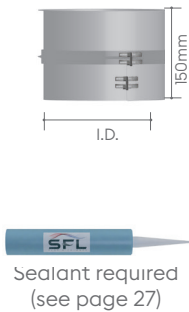
Depending on the insulation thickness, replace the part number prefix as above. For example, a 200ID x 1000mm Length with 50mm of insulation would be prefixed with 644, making the full part number 6441008.

EUROPA PLUS is also available as a single wall product for low temperature application. For further information, please contact SFL Customer Services.

Starter Components

Adjustable Appliance Adaptor

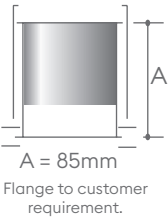
Used to provide a straight connection to an appliance spigot of nominal flue size, clamping around the outside of the spigot. The clamp offers a degree of adjustment as specified in the table below.



Size (mm)	I.D. min (mm)	I.D. max (mm)	Code	Size (mm)	I.D. min (mm)	I.D. max (mm)	Code
100	100.5	106.5	6768904	600	600.5	606.5	6768924
150	150.5	156.5	6768906	650	650.5	656.5	6768926
175	175.5	181.5	6768907	700	700.5	706.5	6768928
200	200.5	206.5	6768908	750	750.5	756.5	6768930
250	250.5	256.5	6768910	800	800.5	806.5	6768932
300	300.5	306.5	6768912	850	850.5	856.5	6768934
350	350.5	356.5	6768914	900	900.5	906.5	6768936
400	400.5	406.5	6768916	950	950.5	956.5	6768938
450	450.5	456.5	6768918	1000	1000.5	1006.5	6768940
500	500.5	506.5	6768920	1100	1100.5	1106.5	6768944
550	550.5	556.5	6768922	1200	1200.5	1206.5	6768948

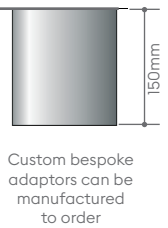
Flange Adaptor

Used to connect EUROPA PLUS to a flanged connection on an appliance. The flange is supplied fully welded to the adaptor pipe. These are manufactured to order based on the required flange parameters. Part Number: 67644XX, where XX is the diameter.



Plain Appliance Adaptor

Used to provide a straight connection to an appliance.



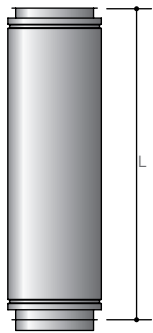
Size (mm)	Code	Size (mm)	Code
100	6769004	600	6769024
150	6769006	650	6769026
175	6769007	700	6769028
200	6769008	750	6769030
250	6769010	800	6769032
300	6769012	850	6769034
350	6769014	900	6769036
400	6769016	950	6769038
450	6769018	1000	6769040
500	6769020	1100	6769044
550	6769022	1200	6769048

Lengths

EUROPA PLUS

Standard Lengths

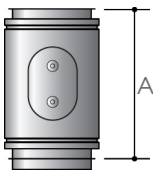
Fixed straight sections are available in a range of standard sizes depending on diameter. The lengths indicated below are the installed length of the component.



Size (mm)	Code				Size (mm)	Code			
L - Length (mm)					L - Length (mm)				
	245	510	775	1040		300	500	750	1000
100	6XX1804	6XX1404	6XX1204	6XX1004	650	6XX1826	6XX1426	6XX126	6XX1026
150	6XX1806	6XX1406	6XX1206	6XX1006	700	6XX1828	6XX1428	6XX1228	6XX1028
175	6XX1807	6XX1407	6XX1207	6XX1007	750	6XX1830	6XX1430	6XX1230	6XX1030
200	6XX1808	6XX1408	6XX1208	6XX1008	800	6XX1832	6XX1432	6XX1232	6XX1032
250	6XX1810	6XX1410	6XX1210	6XX1010	850	6XX1834	6XX1434	6XX1234	6XX10234
300	6XX1812	6XX1412	6XX1212	6XX1012	900	6XX1836	6XX1436	6XX1236	6XX1036
350	6XX1814	6XX1414	6XX1214	6XX1014	950	6XX1838	6XX1438	6XX1238	6XX1038
400	6XX1816	6XX1416	6XX1216	6XX1016	1000	6XX1840	6XX1440	6XX1240	6XX1040
450	6XX1818	6XX1418	6XX1218	6XX1018	1100	6XX1844	6XX1444	6XX1244	6XX1044
500	6XX1820	6XX1420	6XX1220	6XX1020	1200	6XX1848	6XX1448	6XX1248	6XX1048
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.

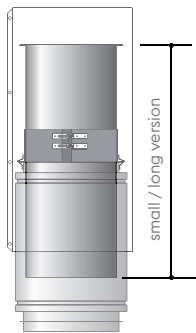


Size mm	A mm	Code	Size mm	A mm	Code
100	510	6XX6304	600	500	6XX6324
150	510	6XX6306	650	500	6XX6326
175	510	6XX6307	700	500	6XX6328
200	510	6XX6308	750	500	6XX6330
250	510	6XX6310	800	500	6XX6332
300	510	6XX6312	850	500	6XX6334
350	510	6XX6314	900	500	6XX6336
400	510	6XX6316	950	500	6XX6338
450	510	6XX6318	1000	500	6XX6340
500	510	6XX6320	1100	500	6XX6344
550	510	6XX6322	1200	500	6XX6348

Variable Lengths

A Slip Section designed to provide a degree of adjustment between an existing standard length and a fixed point. Supplied complete with insulation blanket and Cover Jacket.

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



Size mm	Code		Size mm	Code	
	Short	Long		Short	Long
100	6XX2904	6XX2804	600	6XX2924	6XX2824
150	6XX2906	6XX2806	650	-	6XX2826
175	6XX2907	6XX2807	700	-	6XX2828
200	6XX2908	6XX2808	750	-	6XX2830
250	6XX2910	6XX2810	800	-	6XX2832
300	6XX2912	6XX2812	850	-	6XX2834
350	6XX2914	6XX2814	900	-	6XX2836
400	6XX2916	6XX2816	950	-	6XX2838
450	6XX2918	6XX2818	1000	-	6XX2840
500	6XX2920	6XX2820	1100	-	6XX2844
550	6XX2922	6XX2822	1200	-	6XX2848

For adjustment ranges see page 28 or refer to the products installation instructions.

Expansion components are critical within the design of the system to compensate for thermal linear expansion and contraction. Expansion components need to be installed between two fixed point, usually consisting of two support plates located up and down stream. These provide the reactionary force for the expansion component to react against. Prior to system design it is critical that the installation instructions are fully reviewed and understood, especially in respect to managing expansion and contraction within the chimney system routing.



Expansion Length / Adjustable Length

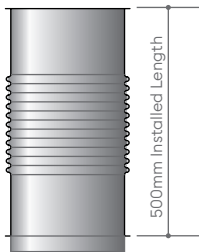
A lower specification to bellows used for negative and positive pressure applications up to 5KPa (H1 for external applications) or 1.5KPa (M1 for internal applications) at a maximum temperature of 450°C. The expansion length can also be used as an adjustable component on such systems where standard lengths are not suitable for the space required. The Expansion Lengths are available in two sizes (Short and Long) supplied with Cover Jacket and blanket insulation. Note: These components are not load bearing and require adequate bracing.

Size mm	Code		Size mm	Code
	Short	Long		Long
100	6XX2704	6XX2604	600	6XX2624
150	6XX2706	6XX2606	650	6XX2626
175	6XX2707	6XX2607	700	6XX2628
200	6XX2708	6XX2608	750	6XX2630
250	6XX2710	6XX2610	800	6XX2632
300	6XX2712	6XX2612	850	6XX2634
350	6XX2714	6XX2614	900	6XX2636
400	6XX2716	6XX2616	950	6XX2638
450	-	6XX2618	1000	6XX2640
500	-	6XX2620	1100	6XX2644
550	-	6XX2622	1200	6XX2648

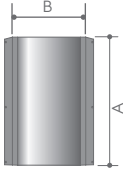
For adjustment ranges see page 28 or refer to the products installation instructions.

Lined Expansion Bellows

The lined expansion bellow is used to compensate for linear thermal expansion in high temperature and high pressure applications, such as electrical generation engines and turbine systems. Suitable for positive pressure applications up to 14,945 Pa and exhaust gas temperatures up to 760°C.



Size mm	Code	Size mm	Code
100	1753004	600	1753024
150	1753006	650	1753026
175	1753007	700	1753028
200	1753008	750	1753030
250	1753010	800	1753032
300	1753012	850	1753034
350	1753014	900	1753036
400	1753016	950	1753038
450	1753018	1000	1753040
500	1753020	1100	1753044
550	1753022	1200	1753048



Insulated Bellow Jacket

Used in conjunction with the Lined Expansion Bellow, in order to close off the products cavity as well as to protect and thermally insulate the bellow. The insulated bellow jacket is supplied in two halves together with insulation blanket and fixings. The quantity of blanket and thickness is determined by both the cavity thickness and the product size.

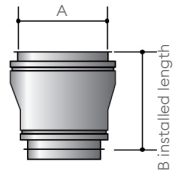
Note: The outside diameter of the Insulated Bellow Jacket is larger than the outside diameter of the chimney casing, see dimension B.

Dim A	Size (mm)	25mm Cavity Product		50mm Cavity Product		100mm Cavity Product		Size (mm)	25mm Cavity Product		50mm Cavity Product		100mm Cavity Product	
		Code	B	Code	B	Code	B		Code	B	Code	B	Code	B
25mm Cavity														
A = 680mm	100	6749104	176	6449104	238	6849104	338	600	6749124	706	6449124	756	6849124	856
50mm and 100mm Cavity	150	6749106	238	6449106	288	6849106	406	650	6749126	756	6449126	806	6849126	906
	175	6749107	263	6449107	313	6849107	413	700	6749128	806	6449128	856	6849128	956
A = 775mm	200	6749108	288	6449108	338	6849108	456	750	6749130	856	6449130	906	6849130	1006
	250	6749110	338	6449110	406	6849110	506	800	6749132	906	6449132	956	6849132	1056
	300	6749112	406	6449112	456	6849112	556	850	6749134	956	6449134	1006	6849134	1105
	350	6749114	456	6449114	506	6849114	606	900	6749136	1006	6449136	1056	6849136	1156
	400	6749116	506	6449116	556	6849116	656	950	6749138	1056	6449138	1105	6849138	1206
	450	6749118	556	6449118	606	6849118	706	1000	6749140	1105	6449140	1156	6849140	1256
	500	6749120	606	6449120	656	6849120	756	1100	6749144	1206	6449144	1256	6849144	1372
	550	6749122	656	6449122	706	6849122	806	1200	6749148	1322	6449148	1372	6849148	1472

Increasesers & Reducers

Increasesers

Increasesers are available in One-Step or Two-Step versions and are tapered in construction to minimise flow resistance. The popular sizes are detailed below; however, any size combination can be manufactured to order based on standard dimensions.



One Step Installed Length:

One Step Installed Length

25mm Cavity

B = 300mm

50mm & 100mm Cavity

B = 386mm

Two Step Installed Length:

Installed Length

25mm Cavity

B = 400mm

50mm & 100mm Cavity

B = 486mm

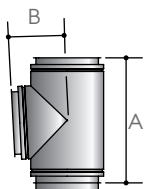
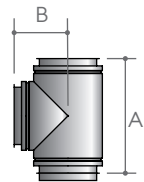
Size (mm)	One Step		Two Step		Size (mm)	One Step		Two Step	
	A	Code	A	Code		A	Code	A	Code
100	150	6XX1504	200	6XX1604	600	650	6XX1526	700	6XX1626
150	200	6XX1506	250	6XX1606	650	700	6XX1528	750	6XX1628
175	200	6XX1507	250	6XX1607	700	750	6XX1530	800	6XX1630
200	250	6XX1508	300	6XX1608	750	800	6XX1532	850	6XX1632
250	300	6XX1510	350	6XX1610	800	850	6XX1534	900	6XX1634
300	350	6XX1512	400	6XX1612	850	900	6XX1536	950	6XX1636
350	400	6XX1514	450	6XX1614	900	950	6XX1538	1000	6XX1638
400	450	6XX1516	500	6XX1616	950	1000	6XX1540	1100	6XX1640
450	500	6XX1518	550	6XX1618	1000	1100	6XX1544	1200	6XX1644
500	550	6XX1520	600	6XX1620	1100	1200	6XX1548	-	6XX1648
550	600	6XX1522	650	6XX1622					

Reducers

Size (mm)	One Step		Two Step		Size (mm)	One Step		Two Step	
	A	Code	A	Code		A	Code	A	Code
150	100	6XX3006	-	-	650	600	6XX3026	550	6XX3126
175	150	6XX3007	100	6XX3107	700	650	6XX3028	600	6XX3128
200	175	6XX3008	150	6XX3108	750	700	6XX3030	650	6XX3130
250	200	6XX3010	175	6XX3110	800	750	6XX3032	700	6XX3132
300	250	6XX3012	200	6XX3112	850	800	6XX3034	750	6XX3134
350	300	6XX3014	250	6XX3114	900	850	6XX3036	800	6XX3136
400	350	6XX3016	300	6XX3116	950	900	6XX3038	850	6XX3138
450	400	6XX3018	350	6XX3118	1000	950	6XX3040	900	6XX3140
500	450	6XX3020	400	6XX3120	1100	1000	6XX3044	950	6XX3144
550	500	6XX3022	450	6XX3122	1200	1100	6XX3048	1000	6XX3148
600	550	6XX3024	500	6XX3124					

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. Refer to page 29 for vertical loading data.

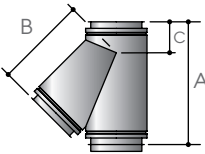


Size (mm)	90° Tee	93° Tee	95° Tee	Size (mm)	90° Tee	93° Tee	95° Tee
100	6XX1904	6XX9304	6XX9504	600	6XX1924	6XX9324	6XX9524
150	6XX1906	6XX9306	6XX9506	650	6XX1926	6XX9326	6XX9526
175	6XX1907	6XX9307	6XX9507	700	6XX1928	6XX9328	6XX9528
200	6XX1908	6XX9308	6XX9508	750	6XX1930	6XX9330	6XX9530
250	6XX1910	6XX9310	6XX9510	800	6XX1932	6XX9332	6XX9532
300	6XX1912	6XX9312	6XX9512	850	6XX1934	6XX9334	6XX9534
350	6XX1914	6XX9314	6XX9514	900	6XX1936	6XX9336	6XX9536
400	6XX1916	6XX9316	6XX9516	950	6XX1938	6XX9338	6XX9538
450	6XX1918	6XX9318	6XX9518	1000	6XX1940	6XX9340	6XX9540
500	6XX1920	6XX9320	6XX9520	1100	6XX1944	6XX9344	6XX9544
550	6XX1922	6XX9322	6XX9522	1200	6XX1948	6XX9348	6XX9548

Size (mm)	25mm Cavity		50mm-100mm Cavity		Size (mm)	25mm Cavity		50mm-100mm Cavity	
	A	B	A	B		A	B	A	B
100	500	160	602	301	600	825	410	1102	551
150	500	185	652	326	650	900	435	1152	576
175	500	198	677	340	700	1000	460	1202	601
200	500	210	702	351	750	1000	485	1252	626
250	500	235	752	376	800	1050	510	1302	651
300	600	260	802	401	850	1100	535	1352	676
350	600	285	852	426	900	1150	560	1402	701
400	700	310	902	451	950	1200	585	1452	726
450	700	335	952	476	1000	1250	610	1502	751
500	750	360	1002	501	1100	1350	660	1602	801
550	750	385	1052	526	1200	1500	710	1702	851

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 Cavity			Code	Size (mm)	Dimensions (mm) 25mm Cavity			Code
	A	B	C			A	B	C	
100	415	285	130	6XX2004	600	1100	871	229	6XX2024
150	500	328	172	6XX2006	650	1175	931	244	6XX2026
175	500	358	142	6XX2007	700	1250	991	258	6XX2028
200	600	388	212	6XX2008	750	1325	1051	274	6XX2030
250	600	449	151	6XX2010	800	1400	1111	287	6XX2032
300	700	509	191	6XX2012	850	1475	1171	304	6XX2034
350	750	570	180	6XX2014	900	1550	1231	292	6XX2036
400	825	630	195	6XX2016	950	1625	1291	309	6XX2038
450	900	690	210	6XX2018	1000	1675	1351	321	6XX2040
500	950	751	199	6XX2020	1100	1800	1471	325	6XX2044
550	1025	811	214	6XX2022	1200	1950	1591	354	6XX2048

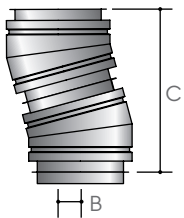
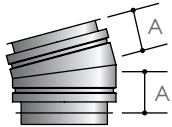
135° Equal Tee 50mm & 100mm Cavity

Size (mm)	Dimensions (mm) 50mm / 100mm Cavity			Size (mm)	Dimensions (mm) 50mm / 100mm Cavity		
	A	B	C		A	B	C
100	713	510	203	600	1420	1110	310
150	784	570	214	650	1491	1175	316
175	819	600	219	700	1562	1235	327
200	855	630	225	750	1632	1295	337
250	925	690	235	800	1703	1355	348
300	996	750	246	850	1774	1415	359
350	1066	810	256	900	1845	1475	370
400	1137	870	267	950	1915	1535	380
450	1208	930	287	1000	1986	1595	391
500	1279	990	289	1100	2128	1715	413
550	1350	1050	300	1200	2269	1835	434

Elbows

15° Elbow

Designed to change direction by 15°.

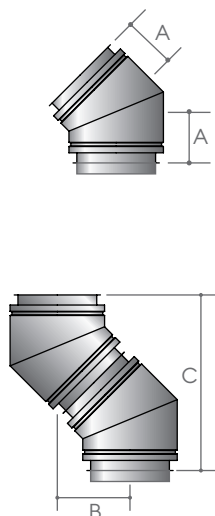


Size (mm)	Dimensions (mm) 25mm Cavity			Code	Size (mm)	Dimensions (mm) 25mm Cavity			Code
	A	B	C			A	B	C	
100	110	57	432	6XX2204	600	143	74	562	6XX2224
150	113	58	444	6XX2206	650	146	76	574	6XX2226
175	115	59	452	6XX2207	700	150	77	588	6XX2228
200	117	60	460	6XX2208	750	153	79	602	6XX2230
250	120	62	472	6XX2210	800	156	81	614	6XX2232
300	123	64	484	6XX2212	850	160	83	629	6XX2234
350	126	65	495	6XX2214	900	163	84	640	6XX2236
400	130	67	511	6XX2216	950	166	86	653	6XX2238
450	133	69	523	6XX2218	1000	169	88	665	6XX2240
500	136	70	535	6XX2220	1100	176	91	691	6XX2244
550	140	72	550	6XX2222	1200	182	94	717	6XX2248

Size (mm)	Dimensions (mm) 50mm / 100mm Cavity			Size (mm)	Dimensions (mm) 50mm / 100mm Cavity		
	A	B	C		A	B	C
100	163	84	640	600	196	101	783
150	166	86	653	650	146	76	574
175	168	87	660	700	150	77	588
200	169	88	666	750	153	79	602
250	173	89	679	800	156	81	614
300	176	91	705	850	160	83	629
350	179	93	718	900	163	84	640
400	183	95	731	950	166	86	653
450	186	96	744	1000	169	88	665
500	189	98	757	1100	176	91	691
550	193	100	770	1200	182	94	717

30° Elbow

Designed to change direction by 30°.

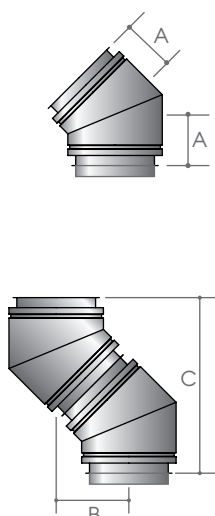


Size (mm)	Dimensions (mm) 25mm Cavity			Code	Size (mm)	Dimensions (mm) 25mm Cavity			Code
	A	B	C			A	B	C	
100	120	120	448	6XX2304	600	187	187	698	6XX2324
150	127	127	474	6XX2306	650	194	194	724	6XX226
175	130	130	485	6XX2307	700	201	201	749	6XX2328
200	134	134	500	6XX2308	750	208	208	776	6XX230
250	141	141	526	6XX2310	800	214	214	799	6XX232
300	147	147	549	6XX2312	850	221	221	825	6XX234
350	154	154	575	6XX2314	900	228	228	849	6XX236
400	161	161	601	6XX2316	950	234	234	873	6XX238
450	167	167	623	6XX2318	1000	241	241	899	6XX240
500	174	174	649	6XX2320	1100	254	254	949	6XX244
550	181	181	676	6XX2322	1200	268	268	999	6XX248

Size (mm)	Dimensions (mm) 50mm & 100mm Cavity			Size (mm)	Dimensions (mm) 50mm & 100mm Cavity		
	A	B	C		A	B	C
100	183	183	685	600	183	685	183
150	190	190	710	650	257	960	257
175	194	194	722	700	264	985	264
200	197	197	735	750	271	1010	271
250	204	204	760	800	277	1035	277
300	210	210	785	850	284	1060	284
350	217	217	810	900	291	1085	291
400	224	224	835	950	297	1110	297
450	230	230	860	1000	304	1135	304
500	237	237	885	1100	317	1185	317
550	244	244	910	1200	331	1135	331

45° Elbow

Designed to change direction by 45°.



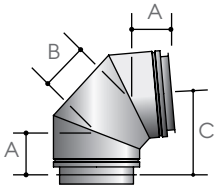
Size (mm)	Dimensions (mm) 25mm Cavity			Code	Size (mm)	Dimensions (mm) 25mm Cavity			Code
	A	B	C			A	B	C	
100	132	187	451	6XX2404	600	235	332	802	6XX2424
150	142	201	485	6XX2406	650	246	348	840	6XX2426
175	147	208	502	6XX2407	700	256	362	873	6XX2428
200	152	215	519	6XX2408	750	266	376	908	6XX2430
250	163	231	557	6XX2410	800	277	391	945	6XX2432
300	173	245	591	6XX2312	850	287	406	980	6XX2434
350	183	259	625	6XX2414	900	297	420	1015	6XX2436
400	194	274	662	6XX2416	950	308	436	1052	6XX2438
450	204	288	696	6XX2418	1000	318	450	1085	6XX2440
500	214	303	731	6XX2420	1100	339	479	1156	6XX2444
550	225	318	768	6XX2422	1200	359	508	1227	6XX2448

EUROPA PLUS

Size (mm)	Dimensions (mm) 50mm & 100mm Cavity			Size (mm)	Dimensions (mm) 50mm & 100mm Cavity		
	A	B	C		A	B	C
100	206	291	702	600	309	437	1055
150	216	305	737	650	319	452	1091
175	221	313	755	700	330	466	1126
200	226	320	772	750	340	481	1161
250	237	335	808	800	351	496	1197
300	247	349	843	850	361	510	1232
350	257	364	879	900	371	525	1267
400	268	379	914	950	381	540	1303
450	278	393	949	1000	392	554	1338
500	288	408	985	1100	413	584	1409
550	299	422	1020	1200	433	613	1480

85° Elbow

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



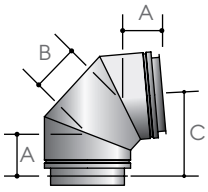
Size (mm)	Dimensions (mm) 25mm Cavity			Code	Size (mm)	Dimensions (mm) 25mm Cavity			Code
	A	B	C			A	B	C	
100	132	113	223	6XX8704	600	235	320	482	6XX8724
150	142	134	249	6XX8706	650	245	341	507	6XX8726
175	147	144	262	6XX8707	700	256	361	533	6XX8728
200	152	154	274	6XX8708	750	266	382	559	6XX8730
250	163	175	301	6XX8710	800	276	403	585	6XX8732
300	173	196	327	6XX8712	850	287	424	611	6XX8734
350	183	217	352	6XX8714	900	297	444	637	6XX8736
400	194	237	378	6XX8716	950	307	465	663	6XX8738
450	204	258	404	6XX8718	1000	318	486	689	6XX8740
500	214	279	430	6XX8720	1100	339	527	741	6XX8744
550	225	299	456	6XX8722	1200	359	569	792	6XX8748

Size (mm)	Dimensions (mm) 50mm & 100mm Cavity			Size (mm)	Dimensions (mm) 50mm & 100mm Cavity		
	A	B	C		A	B	C
100	206	175	348	600	309	382	606
150	216	196	373	650	319	403	632
175	221	206	386	700	330	424	659
200	226	217	399	750	340	445	685
250	237	237	425	800	351	465	711
300	247	258	451	850	361	486	736
350	257	279	477	900	371	507	762
400	268	299	503	950	382	527	788
450	278	302	516	1000	392	548	814
500	288	341	554	1100	413	590	866
550	299	362	581	1200	433	631	917

EUROPA PLUS

87° Elbow

Allows a 3° incline to facilitate back-flow of condensation through system. Where possible, always use a 5° incline unless head room is limited.

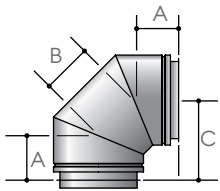


Size (mm)	Dimensions (mm) 25mm Cavity			Code	Size (mm)	Dimensions (mm) 25mm Cavity			Code
	A	B	C			A	B	C	
100	132	113	219	6XX9204	600	235	320	473	6XX9224
150	142	134	243	6XX9206	650	245	341	499	6XX9226
175	147	144	257	6XX9207	700	256	361	524	6XX9228
200	152	154	269	6XX9208	750	266	382	550	6XX9230
250	163	175	298	6XX9210	800	276	403	575	6XX9232
300	173	196	320	6XX9212	850	287	424	601	6XX9234
350	183	217	346	6XX9214	900	297	444	627	6XX9236
400	194	237	371	6XX9216	950	307	465	652	6XX9238
450	204	258	397	6XX9218	1000	318	486	678	6XX9240
500	214	279	422	6XX9220	1100	339	527	729	6XX9244
550	225	299	448	6XX9222	1200	359	569	780	6XX9248

Size (mm)	Dimensions (mm) 50mm & 100mm Cavity			Size (mm)	Dimensions (mm) 50mm & 100mm Cavity		
	A	B	C		A	B	C
100	206	175	337	600	309	382	588
150	216	196	362	650	319	403	684
175	221	206	374	700	330	424	714
200	226	217	387	750	340	445	742
250	237	237	413	800	351	465	770
300	247	258	438	850	361	486	798
350	257	279	463	900	371	507	826
400	268	299	488	950	382	527	854
450	278	302	500	1000	392	548	882
500	288	341	538	1100	413	590	938
550	299	362	564	1200	433	631	993

90° Elbow

Designed to change direction by 90°.



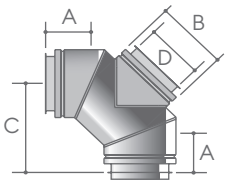
Size (mm)	Dimensions (mm) 25mm Cavity			Code	Size (mm)	Dimensions (mm) 25mm Cavity			Code
	A	B	C			A	B	C	
100	132	113	212	6XX8504	600	235	320	461	6XX8524
150	142	134	236	6XX8506	650	245	341	486	6XX8526
175	147	144	249	6XX8507	700	256	361	511	6XX8528
200	152	154	261	6XX8508	750	266	382	536	6XX8530
250	163	175	289	6XX8510	800	276	403	561	6XX8532
300	173	196	311	6XX8512	850	287	424	586	6XX8534
350	183	217	336	6XX8514	900	297	444	611	6XX8536
400	194	237	361	6XX8516	950	307	465	636	6XX8538
450	204	258	386	6XX8518	1000	318	486	661	6XX8540
500	214	279	411	6XX8520	1100	339	527	711	6XX8544
550	225	299	436	6XX8522	1200	359	569	761	6XX8548

EUROPA PLUS

Size (mm)	Dimensions (mm) 50mm & 100mm Cavity			Size (mm)	Dimensions (mm) 50mm & 100mm Cavity		
	A	B	C		A	B	C
100	206	175	330	600	309	382	579
150	216	196	355	650	319	403	604
175	221	206	367	700	330	424	630
200	226	217	380	750	340	445	655
250	237	237	405	800	351	465	680
300	247	258	430	850	361	486	705
350	257	279	454	900	371	507	730
400	268	299	480	950	382	527	755
450	278	302	504	1000	392	548	780
500	288	341	529	1100	413	590	830
550	299	362	555	1200	433	631	879

90° Access Elbow

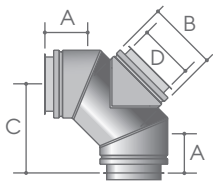
Designed to change direction by 90°, and made with a branch to facilitate both cleaning, inspection and drainage. Used with either a Blanking Cap or Drain Tee Cap (Must be ordered separately) For sizes above 600, please consult SFL Sales Department.



Size (mm)	Dimensions (mm) 25mm Cavity				Dimensions (mm) 50mm & 100mm Cavity				Code
	A	B	C	D	A	B	C	D	
100	132	189	266	100	206	313	427	100	6XX8604
150	142	218	296	150	216	342	458	150	6XX8606
175	147	233	312	175	221	357	473	175	6XX8607
200	152	248	327	200	226	372	489	200	6XX8608
250	163	277	359	250	237	401	521	250	6XX8610
300	173	306	389	250	247	430	551	250	6XX8612
350	183	335	420	250	257	459	582	250	6XX8614
400	194	365	452	250	268	489	614	250	6XX8616
450	204	394	483	250	278	519	645	250	6XX8618
500	214	423	513	250	288	547	675	250	6XX8620
550	225	453	545	250	299	577	707	250	6XX8622
600	235	482	576	250	309	606	738	250	6XX8624

85° Access Elbow

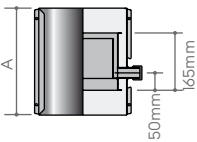
As per the 90° Access Elbow but allowing a 5° incline.



Size (mm)	Dimensions (mm) 25mm Cavity				Dimensions (mm) 25mm Cavity				Code
	A	B	C	D	A	B	C	D	
100	132	189	277	100	206	313	445	100	6XX8804
150	142	218	309	150	216	342	477	150	6XX8806
175	147	233	325	175	221	357	493	175	6XX8807
200	152	248	341	200	226	372	509	200	6XX8808
250	163	277	373	250	237	401	541	250	6XX8810
300	173	306	404	250	247	430	573	250	6XX8812
350	183	335	436	250	257	459	604	250	6XX8814
400	194	365	469	250	268	489	637	250	6XX8816
450	204	394	500	250	278	519	669	250	6XX8818
500	214	423	532	250	288	547	700	250	6XX8820
550	225	453	565	250	299	577	733	250	6XX8822
600	235	482	596	250	309	606	764	250	6XX8824

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 Cavity

A = 308mm

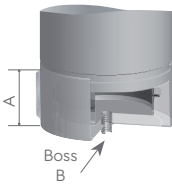
50mm & 100mm Cavity

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
650	6XX4026
700	6XX4028
750	6XX4030
800	6XX4032
850	6XX4034
900	6XX4036
950	6XX4038
1000	6XX4040
1100	6XX4044
1200	6XX4048

Drain Tee Cap

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



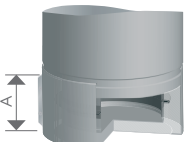
25mm Cavity

A = 116mm

50mm & 100mm Cavity

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
650	2" BSP	6XX3626
700	2" BSP	6XX3628
750	2" BSP	6XX3630
800	2" BSP	6XX3632
850	2" BSP	6XX3634
900	2" BSP	6XX3636
950	2" BSP	6XX3638
1000	2" BSP	6XX3640
1100	2" BSP	6XX3644
1200	2" BSP	6XX3648



25mm Cavity

A = 116mm

50mm & 100mm Cavity

A = 202mm

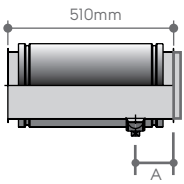
Tee Cap

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

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
650	6XX7426
700	6XX7428
750	6XX7430
800	6XX7432
850	6XX7434
900	6XX7436
950	6XX7438
1000	6XX740
1100	6XX7444
1200	6XX7448

Duct Drain

Used in a horizontal / inclined position, to facilitate the removal of condensation. 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 Cavity

A = 115mm

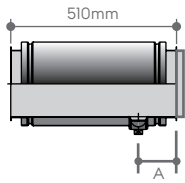
50mm & 100mm Cavity

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
650	6XX3826
700	6XX3828
750	6XX3830
800	6XX3832
850	6XX3834
900	6XX3836
950	6XX3838
1000	6XX3840
1100	6XX3844
1200	6XX3848

Nozzle Section

For use as a fire suppression nozzle or hot water / detergent maintenance section (where used as a grease duct). Fitted with a 1½" BSP parallel internally threaded stainless steel drain tube with galvanised plug. Can also be used as a sample point.



25mm Cavity
A = 115mm

50mm & 100mm
Cavity
A = 160mm

Size (mm)	Code	Size (mm)	Code
100	6XX3904	600	6XX3924
150	6XX3906	650	6XX3926
175	6XX3907	700	6XX3928
200	6XX3908	750	6XX3930
250	6XX3910	800	6XX3932
300	6XX3912	850	6XX3934
350	6XX3914	900	6XX3936
400	6XX3916	950	6XX3938
450	6XX3918	1000	6XX3940
500	6XX3920	1100	6XX3944
550	6XX3922	1200	6XX3948

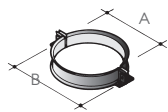
Support Components

The Lateral Guides and Vertical Supports shown here are only suitable for attachment to non-combustible construction.

Lateral Guides

Guide Band

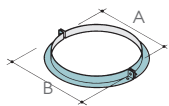
Guide and lateral support, which locates the vent and at the same time permits linear thermal expansion. This component does not support vertical load.



Model 1
100mm - 600mm

B = Fixing Hole Centres

Heavy Duty
Version



Model 2
650mm - 1200mm

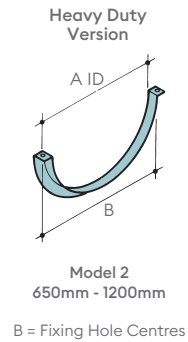
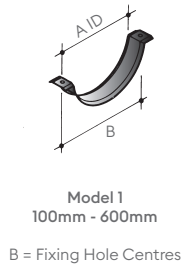
B = Fixing Hole Centres

Size (mm)	Dimensions (mm)		Code	Size (mm)	Dimensions (mm)		Code
	A	B	25mm Cavity		A	B	25mm Cavity
100	155	195	1777504	600	655	695	1777524
150	205	245	1777506	650	708	764	1777526
175	230	270	1777507	700	758	814	1777528
200	255	295	1777508	750	808	864	1777530
250	305	345	1777510	800	858	914	1777532
300	355	395	1777512	850	908	964	1777534
350	405	445	1777514	900	958	1014	1777536
400	455	495	1777516	950	1008	1064	1777538
450	505	545	1777518	1000	1058	1114	1777540
500	555	595	1777520	1100	1158	1214	1777544
550	605	645	1777522	1200	1258	1314	1777548

Size (mm)	Cavity		Size (mm)	Cavity	
	50mm	100mm		50mm	100mm
100	1777506	1777510	600	1777526	1777530
150	1777508	1777512	650	1777528	1777532
175	1777509	1777513	700	1777530	1777534
200	1777510	1777514	750	1777532	1777536
250	1777512	1777516	800	1777534	1777538
300	1777514	1777518	850	1777536	1777540
350	1777516	1777520	900	1777538	1777542
400	1777518	1777522	950	1777540	1777544
450	1777520	1777524	1000	1777542	1777546
500	1777522	1777526	1100	1777546	1477548
550	1777524	1777528	1200	1477548	1877548

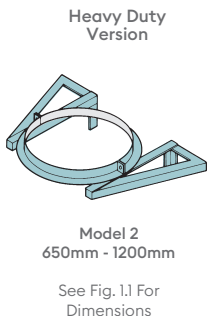
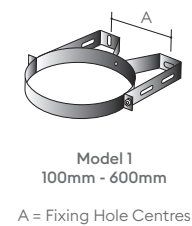
Support Cradle

Provides cradle support for suspending horizontal runs using drop rods etc.



Size (mm)	Dimensions (mm)		Code	Size (mm)	Dimensions (mm)		Code
	A	B	25mm Cavity		A	B	25mm Cavity
100	155	205	1777604	600	655	710	1777624
150	205	254	1777606	650	708	764	1777626
175	230	283	1777607	700	758	814	1777628
200	255	304	1777608	750	808	864	1777630
250	305	354	1777610	800	858	914	1777632
300	355	404	1777612	850	908	964	1777634
350	405	458	1777614	900	958	1014	1777636
400	455	508	1777616	950	1008	1064	1777638
450	505	559	1777618	1000	1058	1114	1777640
500	555	609	1777620	1100	1158	1214	1777644
550	605	659	1777622	1200	1258	1314	1777648

Size (mm)	Cavity Matrix		Size (mm)	Cavity Matrix	
	50mm	100mm		50mm	100mm
100	1777606	1777610	600	1777626	1777630
150	1777608	1777612	650	1777628	1777632
175	1777609	1777613	700	1777630	1777634
200	1777610	1777614	750	1777632	1777636
250	1777612	1777616	800	1777634	1777638
300	1777614	1777618	850	1777636	1777640
350	1777616	1777620	900	1777638	1777642
400	1777618	1777622	950	1777640	1777644
450	1777620	1777624	1000	1777642	1777646
500	1777622	1777626	1100	1777646	1477648
550	1777624	1777628*	1200	1477648	1877648



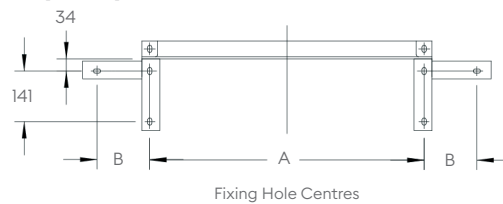
Wall Guides

Provides lateral support to the product. As standard offers a clearance of 50mm from the surface of the chimney to a non-combustible structure. The internal diameter of all wall guides is 5mm larger than the outside diameter of the chimney to allow for thermal expansion. Please note that these components are not suitable for vertical loading. Manufactured in grade 304 stainless steel.

Size (mm)	Dimensions (mm)	Code	Size (mm)	Dimensions (mm)		Code
	A	25mm Cavity		A	B	25mm Cavity
100	117	1777904	600	624	-	1777924
150	166	1777906	650	764	147	1777926
175	195	1777907	700	814	154	1777928
200	216	1777908	750	864	160	1777930
250	266	1777910	800	914	167	1777932
300	316	1777912	850	964	174	1777934
350	372	1777914	900	1014	180	1777936
400	422	1777916	950	1064	187	1777938
450	473	1777918	1000	1114	194	1777940
500	523	1777920	1100	1214	207	1777944
550	573	1777922	1200	1314	220	1777948

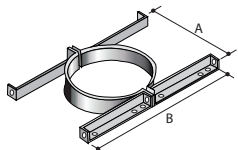
Size (mm)	Cavity Matrix		Size (mm)	Cavity Matrix	
	50mm	100mm		50mm	100mm
100	1777906	1777910	600	1777926	1777930
150	1777908	1777912	650	1777928	1777932
175	1777909	1777913	700	1777930	1777934
200	1777910	1777914	750	1777932	1777936
250	1777912	1777916	800	1777934	1777938
300	1777914	1777918	850	1777936	1777940
350	1777916	1777920	900	1777938	1777942
400	1777918	1777922	950	1777940	1777944
450	1777920	1777924	1000	1777942	1777946
500	1777922	1777926	1100	1777946	1477948
550	1777924	1777928	1200	1477948	1877948

Fig 1.1: Dimensions - Heavy Duty Version - Sizes 650mm - 1200mm



Floor Guide

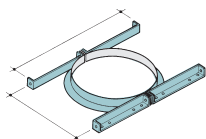
Installed at each floor level to ensure correct vertical alignment and free expansion. Maximum hole through floor equals pipe inside diameter plus 250mm. Assembly consists of a Guide Band, 4 struts and nuts / bolts. Manufactured in grade 304 stainless steel.



Model 1
100mm - 600mm

A = Fixing Hole Centres

*Heavy Duty
Version



Model 2
650mm - 1200mm

B = Fixing Hole Centres

Size (mm)	Dimensions (mm)		Code	Size (mm)	Dimensions (mm)		Code
	A	B	25mm Cavity		A	B	25mm Cavity
100	199	686	1778004	600	699	826	1778024
150	229	686	1778006	650	764	1012	1778026
175	249	686	1778007	700	814	1012	1778028
200	299	686	1778008	750	864	1012	1778030
250	349	686	1778010	800			
300	399	686	1778012	850			
350	449	826	1778014	900			
400	499	826	1778016	950			
450	549	826	1778018	1000			
500	599	826	1778020	1100			
550	649	826	1778022	1200			

Not available in these sizes

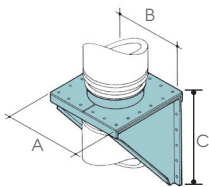
Size (mm)	Cavity Matrix		Size (mm)	Cavity Matrix	
	50mm	100mm		50mm	100mm
100	1778006	1778010	600	1778026*	1778030*
150	1778008	1778012	650		
175	1778009	1778013	700		
200	1778010	1778014	750		
250	1778012	1778016	800		
300	1778014	1778018	850		
350	1778016	1778020	900		
400	1778018	1778022	950		
450	1778020	1778024	1000		
500	1778022	1778026*	1100		
550	1778024	1778028*	1200		

Not available in these sizes

Both the Wall Support Assembly and Support Plates can be used to take the vertical load of the chimney, and can also be used for bracing when using expansion components. When attached to a structure, adequate fixings must be used determined by both the structure fabric and required loading. Where the Support Plate is used, it must be supported and fixed on all sides. Refer to structural loading information on page 29. Cover Jackets are required to close off the cavity and are ordered separately, see page 21.

Wall Support Assembly

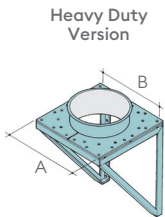
Designed to provide either vertical or horizontal support for the system. The assembly consists of two side brackets, split top and bottom plates, support length and fixing flange. The Wall Support Assembly is designed to provide a 50mm clearance to the structures. Cover Jackets are ordered separately. Manufactured in grade 304 stainless steel.



Model 1
100mm - 600mm
B = Fixing Hole Centres

Installed height of
Support Length 170mm.

Corresponding Cover
Jacket set required
(See Page 21)



Heavy Duty
Version

Model 2
650mm - 1200mm
B= Fixing Hole Centres

Installed height of
Support Length 170mm.

Corresponding Cover
Jacket set required
(See Page 21)

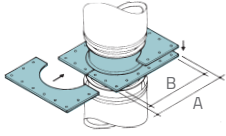
Size (mm)	Dimensions (mm)			Code	Size (mm)	Dimensions (mm)			Code
	A	B	C			A	B	C	
				25mm Cavity					25mm Cavity
100	252	212	250	6778404	600	752	712	750	6778424
150	302	262	300	6778406	650	804	754	804	6778426
175	327	287	325	6778407	700	854	804	752	6778428
200	352	312	350	6778408	750	904	854	802	6778430
250	402	362	400	6778410	800	954	904	852	6778432
300	452	412	450	6778412	850	1004	954	902	6778434
350	502	462	500	6778414	900	1054	1004	952	6778436
400	552	512	550	6778416	950	1104	1054	1002	6778438
450	602	562	600	6778418	1000	1154	1104	1052	6778440
500	652	612	650	6778420	1100	1254	1204	1152	6778444
550	702	662	700	6778422	1200	1354	1304	1252	6778448

Size (mm)	Dimensions (mm)			Code	Size (mm)	Dimensions (mm)			Code
	A	B	C			A	B	C	
				50mm Cavity					50mm Cavity
100	302	262	300	6478404	600	804	754	804	6478424
150	352	312	325	6478406	650	854	804	752	6478426
175	377	337	350	6478407	700	904	854	802	6478428
200	402	362	400	6478408	750	954	904	852	6478430
250	452	412	450	6478410	800	1004	954	902	6478432
300	502	462	500	6478412	850	1054	1004	952	6478434
350	552	512	550	6478414	900	1104	1054	1002	6478436
400	602	562	600	6478416	950	1154	1104	1052	6478438
450	652	612	650	6478418	1000	1204	1154	1152	6478440
500	702	662	700	6478420	1100	1304	1254	1252	6478444
550	752	712	750	6478422	1200	1404	1354	1404	6478448

Size (mm)	Dimensions (mm)			Code	Size (mm)	Dimensions (mm)			Code
	A	B	C			A	B	C	
				100mm Cavity					100mm Cavity
100	402	362	410	6878404	600	904	854	904	6878424
150	452	412	450	6878406	650	954	904	954	6878426
175	477	437	510	6878407	700	1004	954	1004	6878428
200	502	462	535	6878408	750	1054	1004	1054	6878430
250	552	512	585	6878410	800	1104	1054	1104	6878432
300	602	562	635	6878412	850	1154	1104	1154	6878434
350	652	612	685	6878414	900	1204	1154	1204	6878436
400	702	662	735	6878416	950	1254	1204	1254	6878438
450	752	712	785	6878418	1000	1304	1254	1304	6878440
500	804	754	804	6878420	1100	1404	1354	1404	6878444
550	854	804	854	6878422	1200	1504	1454	1504	6878448

The Wall Support Assembly is not suitable for direct attachment to a combustible structure

Support Plate Assembly



Corresponding Cover Jacket set required (See Page 21)

The Support Plate is design for use with on-site fabricated bracketry as a dead weight support or as thrust / bracing plates for expansion components and for changes of direction. Consists of two Half Plate Sets and a 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. Manufactured in grade 304 stainless steel.

Size (mm)	Dimensions (mm)		Code	Size (mm)	Dimensions (mm)		Code
	A	B	25mm Cavity		A	B	25mm Cavity
100	252	212	6778304	600	752	712	6778324
150	302	262	6778306	650	804	754	6778326
175	327	287	6778307	700	854	804	6778328
200	352	312	6778308	750	904	854	6778330
250	402	362	6778310	800	954	904	6778332
300	452	412	6778312	850	1004	954	6778334
350	502	462	6778314	900	1054	1004	6778336
400	552	512	6778316	950	1104	1054	6778338
450	602	562	6778318	1000	1154	1104	6778340
500	652	612	6778320	1100	1254	1204	6778344
550	702	662	6778322	1200	1354	1304	6778348

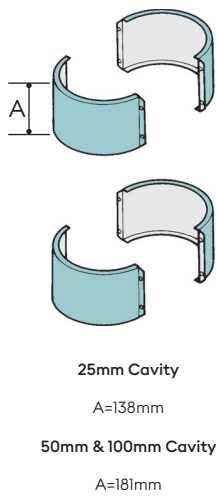
Size (mm)	Dimensions (mm)		Code	Size (mm)	Dimensions (mm)		Code
	A	B	50mm Cavity		A	B	50mm Cavity
100	302	262	6478304	600	804	754	6478324
150	352	312	6478306	650	854	804	6478326
175	377	337	6478307	700	904	854	6478328
200	402	362	6478308	750	954	904	6478330
250	452	412	6478310	800	1004	954	6478332
300	502	462	6478312	850	1054	1004	6478334
350	552	512	6478314	900	1104	1054	6478336
400	602	562	6478316	950	1154	1104	6478338
450	652	612	6478318	1000	1204	1154	6478340
500	702	662	6478320	1100	1304	1254	6478344
550	752	712	6478322	1200	1404	1354	6478348

Size (mm)	Dimensions (mm)		Code	Size (mm)	Dimensions (mm)		Code
	A	B	100mm Cavity		A	B	100mm Cavity
100	402	362	6878304	600	904	854	6878324
150	452	412	6878306	650	954	904	6878326
175	477	437	6878307	700	1004	954	6878328
200	502	462	6878308	750	1054	1004	6878330
250	552	512	6878310	800	1104	1054	6878332
300	602	562	6878312	850	1154	1104	6878334
350	652	612	6878314	900	1204	1154	6878336
400	702	662	6878316	950	1254	1204	6878338
450	752	712	6878318	1000	1304	1254	6878340
500	804	754	6878320	1100	1404	1354	6878344
550	854	804	6878322	1200	1504	1454	6878348

EUROPA PLUS

Cover Jacket Set

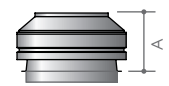
Use to close off the cavity on each side of a Support Plate or Wall Support Assembly. Supplied complete with blanket insulation and fixings.



Size (mm)	Code		
	25mm Cavity	50mm Cavity	100mm Cavity
100	1778104	1478104	1478108
150	1778106	1478106	1478110
175	1778107	1478107	1478111
200	1778108	1478108	1478112
250	1778110	1478110	1478114
300	1778112	1478112	1478116
350	1778114	1478114	1478118
400	1778116	1478116	1478120
450	1778118	1478118	1478122
500	1778120	1478120	1478124
550	1778122	1478122	1478126
600	1778124	1478124	1478128
650	1778126	1478126	1478130
700	1778128	1478128	1478132
750	1778130	1478130	1478134
800	1778132	1478132	1478136
850	1778134	1478134	1478138
900	1778136	1478136	1478140
950	1778138	1478138	1778144
1000	1778140	1478140	1478144
1100	1778144	1478144	1478148
1200	1778148	1478148	1478152

Parallel Vent Terminal

An open ended terminal to provide a zero resistance outlet.



25mm Cavity
A=160mm

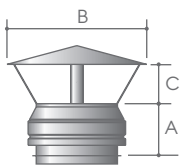
50mm Cavity
A=252mm

100mm Cavity
A=360mm

Size (mm)		Code	Size (mm)		Code
100		6XX6704	600		6XX6724
150		6XX6706	650		6XX6726
175		6XX6707	700		6XX6728
200		6XX6708	750		6XX6730
250		6XX6710	800		6XX6732
300		6XX6712	850		6XX6734
350		6XX6714	900		6XX6736
400		6XX6716	950		6XX6738
450		6XX6718	1000		6XX6740
500		6XX6720	1100		6XX6744
550		6XX6722	1200		6XX6748

Vent Cap

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



25mm Cavity
A=160mm

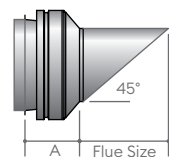
50mm Cavity
A=252mm

100mm Cavity
A=360mm

Size (mm)	Dimensions		Code	Size (mm)	Dimensions		Code
	B	C			B	C	
100	150	46	6XX3404	600	1080	293	6XX3424
150	260	71	6XX3406	650	1170	319	6XX3426
175	305	85	6XX3407	700	1260	344	6XX3428
200	346	94	6XX3408	750	1350	370	6XX3430
250	430	121	6XX3410	800	1440	395	6XX3432
300	520	146	6XX3412	850	1530	420	6XX3434
350	650	167	6XX3414	900	1620	445	6XX3436
400	735	193	6XX3416	950	1710	471	6XX3438
450	820	217	6XX3418	1000	1800	496	6XX3440
500	905	243	6XX3420	1100	1980	521	6XX3444
550	990	268	6XX3422	1200	2160	547	6XX3448

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.

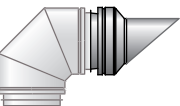


25mm Cavity
A=160mm

50mm Cavity
A=252mm

100mm Cavity
A=360mm

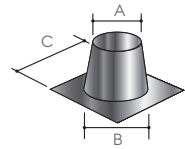
Size	Code	Size	Code
100	6XX7104	600	6XX7124
150	6XX7106	650	6XX7126
175	6XX7107	700	6XX7128
200	6XX7108	750	6XX7130
250	6XX7110	800	6XX7132
300	6XX7112	850	6XX7134
350	6XX7114	900	6XX7136
400	6XX7116	950	6XX7138
450	6XX7118	1000	6XX7140
500	6XX7120	1100	6XX7144
550	6XX7122	1200	6XX7148



Used with a 90° Elbow
for vertical chimney
terminations.

Universal Flat Flashing

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

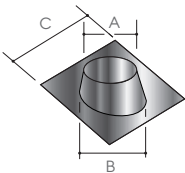


Height of cone is 250mm from base plate.

Size (mm)	Dimensions (mm)			Code	Size (mm)	Cavity	
	A	B	C			25mm Cavity	50mm Cavity
100	160	250	495	70000006	100	70000009	70000012
150	210	300	495	70000009	150	70000011	70000013
175	235	325	660	70000010	175	70000024	70000025
200	260	350	660	70000011	200	70000012	70000014
250	310	400	660	70000012	250	70000013	70000015
300	360	450	660	70000013	300	70000014	70000016
350	410	500	820	70000014	350	70000015	70000017
400	458	550	862	70000015	400	70000016	70000018
450	508	600	914	70000016	450	70000017	70000019
500	558	650	965	70000017	500	70000018	70000020
550	608	700	1015	70000018	550	70000019	70000021
600	658	750	1066	70000019	600	70000020	70000022

Universal 5° - 30° Flashing

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

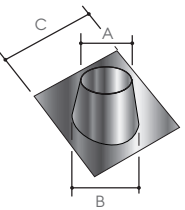


All flashings are made from malleable aluminium

Size (mm)	Dimensions (mm)			Code	Size (mm)	Cavity	
	A	B	C			25mm Cavity	50mm Cavity
100	160	250	495	70053006	100	70053009	70053012
150	210	300	660	70053009	150	70053011	70053013
175	235	325	660	70053010	175	70053024	70053025
200	260	350	660	70053011	200	70053012	70053014
250	310	400	660	70053012	250	70053013	70053015
300	360	450	820	70053013	300	70053014	70053016
350	410	500	965	70053014	350	70053015	70053017
400	458	652	952	70053015	400	70053016	70053018
450	508	710	1010	70053016	450	70053017	70053019
500	558	766	1066	70053017	500	70053018	70053020
550	608	824	1124	70053018	550	70053019	70053021
600	658	880	1180	70053019	600	70053020	70053022

32° - 45° Flashing

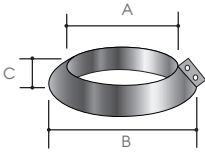
For sloping roof penetrations of angles between 32° and 45°.



NOTE 1 - Flashings for these sizes as well as sizes greater than 650mm are manufactured to the customer's specific requirements and dimensions and must be confirmed prior to order.

Size (mm)	Dimensions (mm)			Code	Size (mm)	Cavity	
	A	B	C			25mm Cavity	50mm Cavity
100	160	332	660	70324506	100	70324509	70324512
150	210	403	660	70324509	150	70324511	70324513
175	240	440	820	70324510	175	70324524	70324525
200	260	475	820	70324511	200	70324512	70324514
250	310	546	820	70324512	250	70324513	70324515
300	360	617	820	70324513	300	70324514	70324516
350	410	689	1219	70324514	350	70324515	70324517
400	458	761	1219	70324515	400	70324516	70324518
450	508	831	1219	70324516	450	70324517	70324519
500	558	895	1219	70324517	500	70324518	See Note 1
550	608	974	1219	70324518	550	70324519	See Note 1
600	658	1038	1219	70324519	600	See Note 1	See Note 1

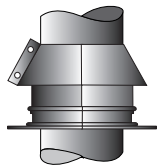
EUROPA PLUS



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	Size (mm)	Cavity Matrix	
	A	B	C	25mm Cavity		50mm Cavity	100mm Cavity
100	152	255	70	70123406	100	70123409	70123412
150	202	301	70	70123409	150	70123411	70123413
175	227	330	70	70123410	175	70123424	70123425
200	252	351	70	70123411	200	70123412	70123414
250	302	401	70	70123412	250	70123413	70123415
300	352	451	70	70123413	300	70123414	70123416
350	402	501	70	70123414	350	70123415	70123417
400	450	623	150	70123415	400	70123416	70123418
450	500	673	150	70123416	450	70123417	70123419
500	550	723	150	70123417	500	70123418	1755226
550	600	773	150	70123418	550	70123419	1755228
600	650	823	150	70123419	600	1755226	1755230

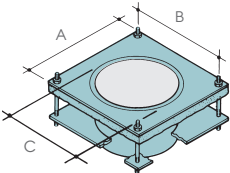


Telescopic Flat Flashing

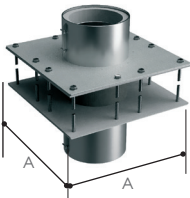
This component weatherproofs the EUROPA PLUS's passage through the roof, and must be used where the expansion of the duct is calculated to exceed 100mm. The telescopic drum section of the flashing is secured to the roof. The storm collar is located with silicone sealant to the outer EUROPA PLUS casing and is free to rise with the expansion. Only available for 25mm cavity and up to 600mm.

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

Ø650 - Ø1200 - Firestop Assembly BS 476 Pt 20 4 Hour
Designed for firestopping where the chimney passes through a fire rated compartment. Suitable for non-combustible walls and floors up to 200mm thick and manufactured from block construction.
Please refer to separate installation instructions for advice on using and installing this component.



Size (mm)	Dimensions (mm)			Code		
	A	B	C	25mm Cavity	50mm Cavity	100mm Cavity
650	880	840	708	1757326	1757328	1757332
700	930	890	758	1757328	1757330	1757334
750	980	940	808	1757330	1757332	1757336
800	1030	990	858	1757332	1757334	1757338
850	N/A	N/A	N/A	1757334	1757336	1757340
900	1130	1090	958	1757336	Refer To SFL	Refer To SFL
950	N/A	N/A	N/A	1757338	Refer To SFL	Refer To SFL
1000	1230	1190	1058	1757340	Refer To SFL	Refer To SFL
1100	1330	1290	1158	1757344	Refer To SFL	Refer To SFL
1200	1430	1390	1258	1757348	Refer To SFL	Refer To SFL



Ø100 - Ø600 EI 180 Firestop Assembly to EN1366-13 - Buildings (Non-Combustible Structure)
Designed for firestopping where the chimney passes through a fire rated compartment. Suitable for non-combustible wall and floors up to 200mm thick and manufactured from block construction.
Please refer to separate installation instructions for advice on using and installing this component.

EI 180 (o → i) h_o v_e

Size (mm)	25mm Cavity	A	50mm Cavity	A	100mm Cavity	A
100	6747204	415	6447204	465	6847204	565
150	6747206	465	6447206	515	6847206	615
175	6747207	490	6447207	540	6847207	640
200	6747208	515	6447208	565	6847208	665
250	6747210	565	6447210	615	6847210	715
300	6747212	615	6447212	665	6847212	765
350	6747214	665	6447214	715	6847214	815
400	6747216	715	6447216	765	6847216	865
450	6747218	765	6447218	815	6847218	915
500	6747220	815	6447220	865	6847220	965
550	6747222	865	6447222	915	6847222	1015
600	6747224	915	6447224	965	6847224	1065

For combustible floor penetrations, please contact SFL.

Ancillaries / Spares

EUROPA PLUS

'U' Band (Spare)

Used on sizes 100-600mm as part of the joint assembly. Supplied complete with fixing kit. 'U' Bands are supplied as standard with all lengths and fittings.



Size (mm)	Code
100	6754804SET
150	6754806SET
175	6754807SET
200	6754808SET
250	6754810SET
300	6754812SET
350	6754814SET
400	6754816SET
450	6754818SET
500	6754820SET
550	6754822SET
600	6754824SET

Vee Band (Spare)

Used on sizes 650 - 1200mm as part of the joint assembly. Supplied complete with fixing kit. Vee Bands are 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)

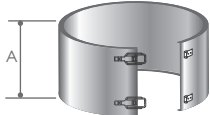
Comprises 4x cap-head hex bolts and two double-nut backing plates. Fixing packs are supplied with 'U' Bands as standard.



Size (mm)	Code
All Sizes	FXP0008

Standard / Narrow Channel Band

The Channel Band is used to finish the joint and is supplied with a strip of insulation. The Standard Channel Band is provided as standard with all lengths and fittings. The Narrow Channel Band is ordered separately and used where the 'U' / Vee Band secured flanges are providing support, or the component flange is connected to the appliance.



Standard Channel Band
25mm Cavity
A = 115mm

50mm & 100mm Cavity
A = 202mm

Narrow Channel Band
25mm Cavity
A = 49mm

50mm & 100mm Cavity
A = 95mm



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

Use appropriate silicone sealant to weatherproof channel bands if installed externally.

Size (mm)	25mm Cavity	50mm Cavity	100mm Cavity
100	677XX04	647XX04	647XX08
150	677XX06	647XX06	647XX10
175	677XX07	647XX07	647XX11
200	677XX08	647XX08	647XX12
250	677XX10	647XX10	647XX14
300	677XX12	647XX12	647XX16
350	677XX14	647XX14	647XX18
400	677XX16	647XX16	647XX20
450	677XX18	647XX18	647XX22
500	677XX20	647XX20	647XX24
550	677XX22	647XX22	647XX26
600	677XX24	647XX24	647XX28
650	677XX26	647XX26	647XX30
700	677XX28	647XX28	647XX32
750	677XX30	647XX30	647XX34
800	677XX32	647XX32	647XX36
850	677XX34	647XX34	647XX38
900	677XX36	647XX36	647XX40
950	677XX38	647XX38	6744647
1000	677XX40	647XX40	647XX47
1100	677XX44	647XX44	647XX48
1200	6774748	647XX48	647XX52

For Standard Channel Band replace XX with 47
For Narrow Channel Band replace XX with 46

EUROPA PLUS



Flange Gasket (Ø100 - Ø600)

The Flange Gasket is used on EUROPA PLUS sizes 100mm - 600mm and supplied as standard with all lengths and fittings. The gasket is supplied with a self-adhesive backing to allow fixing to the flange face.

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 / 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 (Ø650 - Ø1200)

Used for the joint construction on EUROPA PLUS sizes 650 - 1200 and also required on some specific components.

Temperature rating is prescribed by the application.

Low temperature Sealant

Used for lower temperature applications where the flue gas temperature does 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 and temperatures up to 1100°C, once cured correctly.

Code
1783108

Weathering Sealant (Sikaflex)

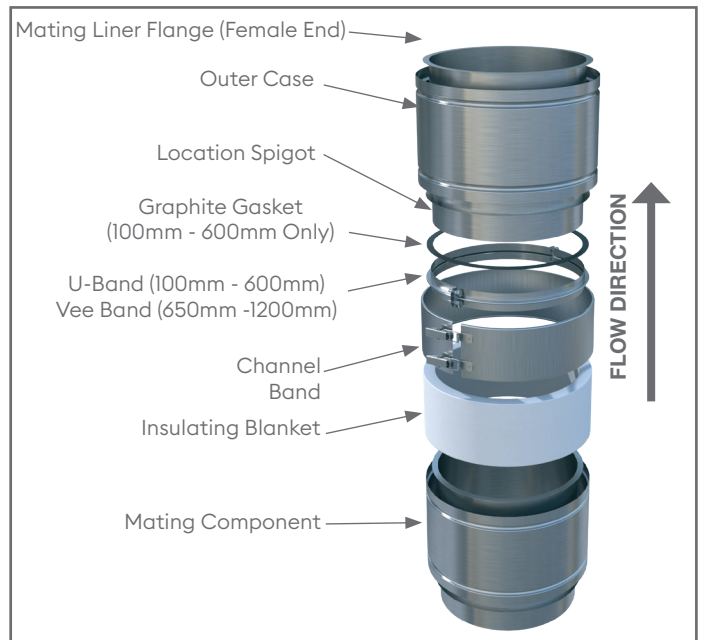
Used for weather proofing Channel Bands on external applications and where the external casing is to be painted.

Code
1758206


Size (mm)	Aprox. Number of joints per 310ml cartridge at 25mm Cavity	
	Vee Band	Channel Band
100	22.0	16
150	14.0	10.7
175	12.3	9.5
200	11.0	8.6
250	9.0	7.1
300	7.6	6.1
350	6.6	5.4
400	5.8	4.8
450	5.2	4.3
500	4.8	3.9
550	4.3	3.5
600	4.0	3.3
650	3.75	3.10
700	3.50	2.90
750	3.25	2.70
800	3.00	2.50
850	2.85	2.40
900	2.70	2.30
950	2.60	2.20
1000	2.50	2.11
1100	2.20	1.90
1200	2.00	1.70

Technical Data

Basic product construction and joint detail for EUROPA PLUS



310ml cartridges for use in a standard skeleton gun.



IMPORTANT

The following technical information is provided to allow basic dimensional and loading calculations. For detailed installation instruction, please refer to the products dedicate installation manual, by scanning the QR code.

All product related literature is available for download at www.sflchimneys.com

Minimum and Maximum Installed Length for Expansion Lengths

Expansion Length							
Size (mm)	Short (6XX27XX)		Long (6XX26XX)		Size (mm)	Long (6XX26XX)	
	Min (mm)	Max (mm)	Min (mm)	Max (mm)		Min (mm)	Max (mm)
100	203	457	203	707	600	203	457
150	203	432	203	682	650	218	432
175	203	420	203	670	700	218	407
200	203	407	203	657	750	218	382
250	203	382	203	632	800	218	357
300	203	357	203	607	850	218	332
350	203	332	203	582	900	218	557
400	203	307	203	557	950	218	532
450	-	-	203	532	1000	218	507
500	-	-	203	507	1100	218	457
550	-	-	203	482	1200	218	407

Minimum and Maximum Installed Length for Adjustable / Variable Length

Adjustable / Variable Length							
Size (mm)	Short (6XX29XX)		Long (6XX26XX)		Size (mm)	Long (6XX28XX)	
	Min (mm)	Max (mm)	Min (mm)	Max (mm)		Min (mm)	Max (mm)
100	130	457	130	707	650	145	432
150	130	432	130	682	700	145	407
175	130	419.5	130	670	750	145	382
200	130	407	130	657	800	145	357
250	130	382	130	632	850	145	332
300	130	357	130	607	900	145	557
350	130	332	130	582	950	145	532
400	130	307	130	557	1000	145	507
450	130	282	130	532	1100	145	457
500	130	257	130	507	1200	145	407
550	130	232	130	482			
600	130	207	130	457			

Size (mm)	EUROPA PLUS (Approx. Weight Per Metre Kg)		
	25mm Cavity	50mm Cavity	100mm Cavity
100mm	6	10	16
150mm	8	12	19
175mm	9	13	20
200mm	10	14	21
250mm	12	16	25
300mm	14	19	28
350mm	16	22	31
400mm	19	24	33
450mm	21	27	36
500mm	23	29	39
550mm	25	31	42
600mm	28	34	44
650mm	41	44	64
700mm	44	48	68
750mm	47	50	73
800mm	50	53	77
850mm	53	57	82
900mm	56	60	86
950mm	64	68	95
1000mm	68	71	100
1100mm	74	78	109
1200mm	81	85	118

Weights are inclusive of 'U' / Vee Band and Channel Band.

LOAD BEARING CAPACITY OF SUPPORT COMPONENTS

When calculating loading, the mechanical and thermally induced loads must be summed. Elbows do not loadbear.

Size	Support Plates	Wall Supports	Tees (Base Supported)
	Loading (Kg)	Loading (Kg)	Loading (Kg)
100mm	425	400	100
150mm	450	450	100
175mm	525	500	100
200mm	600	550	125
250mm	750	625	150
300mm	900	700	175
350mm	1050	800	200
400mm	1250	875	225
450mm	1350	950	250
500mm	1500	1050	275
550mm	1650	1125	312
600mm	1800	1200	350
650mm	1887	1287	375
700mm	1975	1375	400
750mm	2062	1462	425
800mm	2150	1550	450
850mm	2250	1625	475
900mm	2350	1700	500
950mm	2425	1787	525
1000mm	2500	1875	550
1100mm	2500	1875	600
1200mm	2500	1875	650

Wall Supports require adequate fixings suitable for the attaching structure. Support Plates must be supported on all four sides.

Where possible, good practice dictates that a tee should be suspended below a support component, so that the tee is not in itself subject to vertical loading from the above components.

The EUROPA PLUS product must be adequately supported or given lateral bracing in accordance with the following table, taking into account the loading characteristics and product weights.

EUROPA PLUS (DN100 - DN600)

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 the Cavity is insulated with either 50mm or 100mm insulation, the maximum horizontal distance between supports is reduced to 2.5 metres.

EUROPA PLUS (DN650 - DN1200)

Size	Application		Freestanding height above last Support or Guide
	Vertical	Horizontal	
650mm - 1200mm	4.0 Mtrs	4.0 Mtrs	3.0 Mtrs

Distance to Combustible Materials

All EUROPA PLUS insulated products are designed to offer a 50mm clearance to combustible when installed within an open environment up to an internal diameter of 200mm. For larger diameters the distance to combustible is increased as per the table below. The declared distance to combustible is based on the standard 25mm insulated Cavity as tested to EN 1856-1 with a continuous flue gas temperature of 600°C, and intermittent temperature of 700°C and a sootfire simulation at 1000°C for 30 minutes.

Where the product is installed within a combustible enclosure, the distance should be increased to 100mm from the outer surface of the product. For larger diameters the distance to combustible is increased as per the table below. It is important that both the enclosure and any associated pass-through, such as floors and ceilings are ventilated using SFL's Ventilated Firestop Components. For more information, please discuss with SFL's Technical Sales team.

Required Clearance To Combustible Material

Insulated Cavity (25, 50 & 100mm) (Max Flue Gas Temperature 600°C Continuous / 750°C Intermittent)

Internal Diameter	Distance to combustible from outside diameter of vent	
	Open Environment	Enclosed Within Combustible Ventilated Shaft
100mm - 200mm	50mm	100mm
350mm - 450mm	75mm	150mm
500mm - 600mm	100mm	200mm
650mm and Above	200mm	400mm

Single Wall (Max Flue Gas Temperature 200°C)

Internal Diameter	Distance to combustible from outside diameter of vent	
	Open Environment	
100mm - 200mm	200mm	
350mm - 450mm	300mm	
500mm - 600mm	400mm	
650mm and Above	800mm	

Fire Resistance for Fire Containment in Buildings

SFL offer a range of fire-stopping solutions for fire rated compartment walls and floors. Solutions are available to suit the requirements of BS 476 Part 24, as well as the latest BS EN 1366-13 Fire resistance tests for service installations - Chimneys. Please refer to the installation instructions or contact SFL for more detailed information.

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 / Air Gap Insulation

IL



125-150mm Diameter



T250 Rating



Multi-Fuel Appliances

IL® is a twin wall air gap insulated prefabricated domestic and light commercial gas vent system suitable for gas appliances, with draught-hoods or with a flue gas temperature not exceeding 250°C and zero or negative pressure in the flue. Lengths and fittings push and twist lock together to provide strong rigid flue systems and ensure maximum ease of site assembly.

Flexible Liner

SELF FLEX



V2 Corrosion Resistant



P1 / N Rating



Brand Compatibility

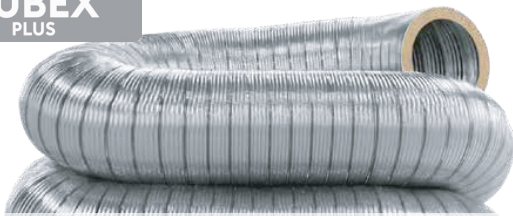


Year Product Warranty

SELF FLEX® 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 SELF FLEX® 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 including 0.1mm 904L, 0.12mm 316L and 0.1mm 316L.

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.

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. Manufactured from 1mm 316L for optimum long term performance.

Twin Wall / Twist Lock

S-FLUE



T450 Rating



Brand Compatibility



127-203mm Diameter



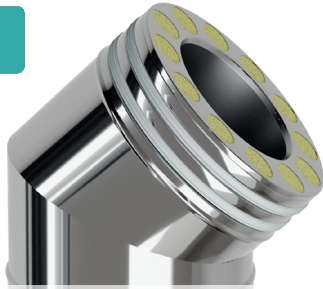
Year Product Warranty

S-FLUE® is a stainless steel insulated twin wall chimney system. Ideally suited for use on multi-fuel stoves and heating equipment. Offered in natural stainless steel or a satin black finish. Supplied complete with SFL's EasyFit low profile locking band system for the ultimate ease of installation.

COMMERCIAL

Twin Wall / Push Fit

**KEPLER
HPT**



5000Pa
T600 Dry



Easy To
Install



No Bellows



Ideal For
Gen-Sets

Single Wall / Push Fit

**SUPRA
PLUS**



Multi-Fuel
Appliances



Up To
5000Pa



T600 Dry
T200 Wet



Quick
Installation



Year Product
Warranty

Twin Wall / Twist Lock

NOVA



EI90
Fire Rated



Up To
5000Pa



T600 Dry
T200 Wet



Multi-Fuel
Appliances



Year Product
Warranty

Twin Wall / Flanged

**EUROPA
PLUS**



EI180
Fire Rated



14,945Pa @ 760°C
T600 Dry & Wet



CE, UKCA,
UL ULc



Ø100 - Ø1200mm
Diameters



Year Product
Warranty

KEPLER HPT is a push-fit twin wall insulated high pressure generator exhaust system suitable for high temperature / high pressure dry non-condensing applications. Supplied as standard with a 50mm high density insulated annulus. Due to its unique design, the KEPLER HPT generator system does not require expansion components, such as expansion bellows. Available in a range of sizes covering Ø80 - Ø600.

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. Seals are factory fitted and bonded for ease of installation. Available with a wide range of support components that cater for both lateral and vertical structural loading of the product. Extended range available from 400mm to 600mm.

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 twist lock 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 is fire resistance tested to BS EN 1366-13 and holds the following classification:

EI 90 (o → i) h_o v_e

NOVA has also been fire resistance tested for a period of 4 hours under the integrity criteria of BS476 Part 20.

EUROPA PLUS® is a high pressure and high temperature chimney / exhaust system suitable for continuous operating temperatures of up to 600°C continuous and 750°C intermittent. Suitable for positive pressure systems up to 5000Pa (HI) and UL tested up to 14,945Pa.

It is offered as a double walled prefabricated 316L stainless steel chimney system, available in a range of insulation thickness to meet the most demanding applications. As standard, EUROPA PLUS incorporates a 25mm high performance insulated cavity, with the option to increase the cavity thickness to 50mm and 100mm for applications that demand critically controlled surface temperatures.

EUROPA PLUS® is fire resistance tested to the requirements of BS EN1366-13 up to 600mm:

EI 180 (o → i) h_o v_e

Above 600mm EUROPA PLUS is fire resistance tested to the integrity and stability requirement of BS 476 Part 24 for a period of 4 hours.

www.sflchimneys.com

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**
Web: **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 PLUS®

EUROPA PLUS®

S-FLUE®

NEXUS®

SVIT®

SELFLEX®

TUBEX PLUS®

IL®

SIGMA®

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



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