

PERFORMANCE &
SMOOTH FINISH

SCHIEDEL

Core Flue System

The performance twin wall system
for multifuel stoves.

SPECFLUE

Product description

CORE TWIN WALL PRODUCT FEATURES

Introducing Schiedel Core Twin Wall, the advanced double-wall system that is designed with installers in mind.

The simple push-fit connection gives a smooth finish, with limited ridges to make the chimney system aesthetically pleasing.

Core Twin Wall features a distinctive rockwool insulation that maintains its properties even under extreme temperatures, reaching up to 1200°C.

Core Twin Wall's thermal expansion capability of up to 18mm ensures that it retains its structural integrity.

The Core Twin Wall range includes all the required accessory components for standard installations both internally and externally.

- **EASY INSTALLATION - DESIGNED WITH THE INSTALLER IN MIND.**
  Simple push fit design with easy locking mechanism.
- **CLEAN AND SMOOTH APPEARANCE - LOCKING BANDS GIVE A SMOOTH FINISH.**
  Smooth design, with limited ridges.
- **MATT BLACK FINISH THROUGHOUT THE INSTALLATION.**
  Excellent finish to match most appliances.
- **HIGH TEMPERATURE RATED.**
  Suitable for low and high kW stove systems.
- **CHIMNEY CONTINUOUSLY INSULATED.**
  Safe from bottom to top, with excellent insulation and low distance to combustible.
- **NO THERMAL BRIDGING OR HOT SPOTS.**
  High quality manufacturing process and completely safe.
- **MULTIFUEL.**
  Wood, solid fuel, gas and oil can be used.



Technical data

PROPERTY	TECHNICAL DATA
Fuel type	Wood, solid fuel, gas, oil
Diameter (internal)	100, 130, 150
Diameter (external)	150, 180, 200
Liner thickness (internal)	0.4mm
Insulation thickness per diameter	25mm
Weight per diameter (kg/m)	5.8 kg /m - 8.4 kg/m
Outer case thickness	0.5mm
Flue gas temp (dry)	≤ 450°C
Liner material:	High grade 316 stainless steel
Outer case finish:	304 stainless steel - painted black (RAL 9005)
Insulation type:	High density, rockwool insulation
Thermal expansion	18mm
Max. length free standing:	2.5 m above the last support with structural locking band. 2 m without structural locking band
Max. support spacing (lateral support)	3.0 m
Average thermal resistance (200°C)	0.37m2 k/W

CORROSION RESISTANCE

Chimneys are subject to significant corrosion attack by flue gas condensates. Core Twin Wall is specifically designed and manufactured from true stainless steel to resist this corrosion.

CHIMNEY DIAMETER

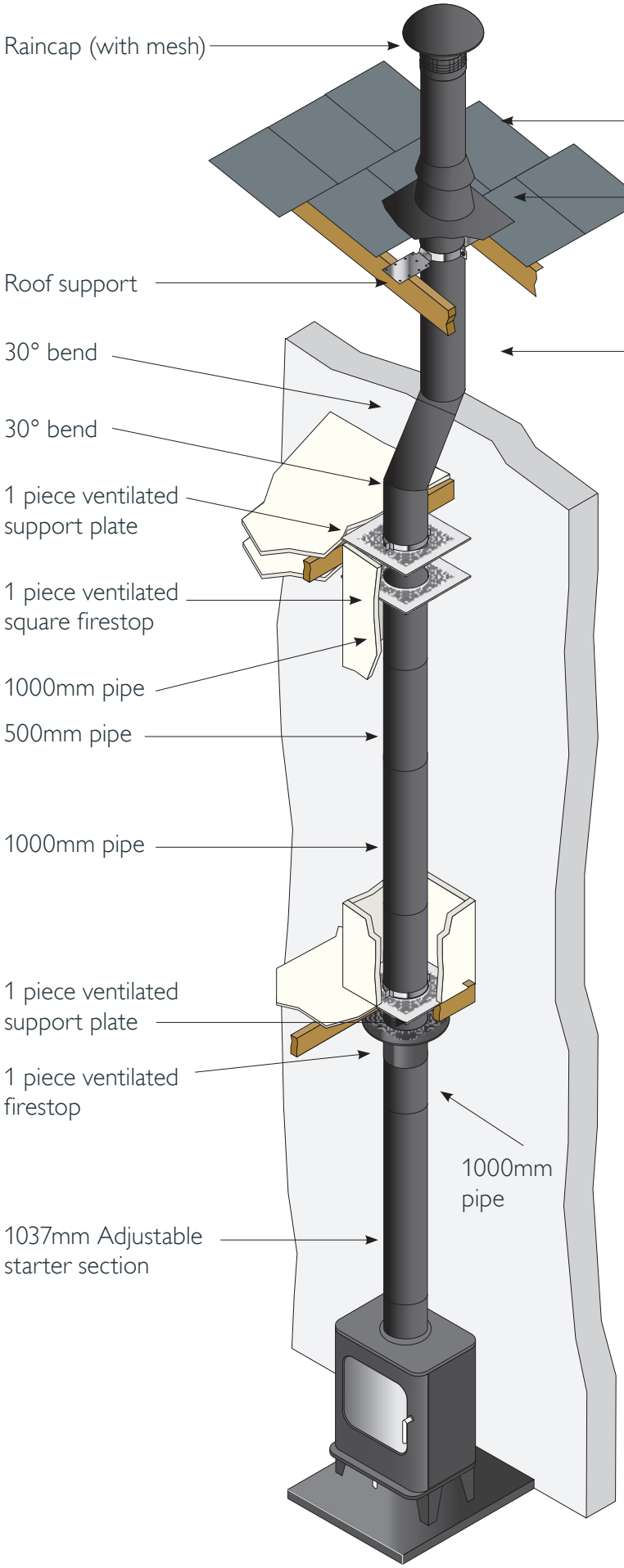
The chimney size should be as recommended by the appliance manufacturer. Where there is a requirement for a flue diameter smaller than the appliance spigot, then the operational requirements of the appliance and the configuration of the flue must satisfy the flue sizing requirements of EN13384-1 for single appliances.

Core is available in internal diameters of 100mm, 130mm and 150mm. External is 150mm, 180mm and 200mm.

Approvals

SYSTEM CHIMNEY		
Core Twin Wall is CE certified to EN 1856-1:2009 with designations:		
Model	**Dimensions**	**Designation String**
Tested fully enclosed in a non-combustible shaft; floor penetration fully ventilated with ventilated fire-stop plates. With unprotected floors.	DN (100 – 150)	T450 N1 W V2 L50050 G60 (Painted)
		T450 N1 D V3 L50050 G60 (Painted)
Tested fully enclosed in a non-combustible shaft; floor penetration fully ventilated with ventilated fire-stop plates. With protected floors - 10mm non-combustible boarding.	DN (100 – 150)	T450 N1 W V2 L50050 G50 (Painted)
		T450 N1 D V3 L50050 G50 (Painted)
CERTIFICATIONS & STANDARDS		
TÜV CE		

Typical installation

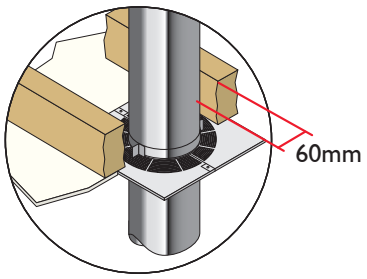


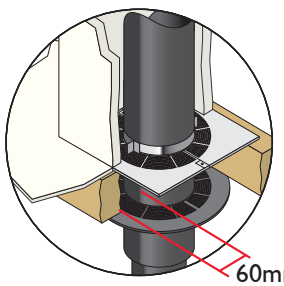
For internal routing through wood joist floors, the stove connects to a Core flue.

Ventilated firestop plates are installed at each ceiling level to maintain safe clearances from combustible materials.

The system passes through the roof using flashing and terminates with a rain cap to ensure proper draw and protection.

Example with G60 firestop plates



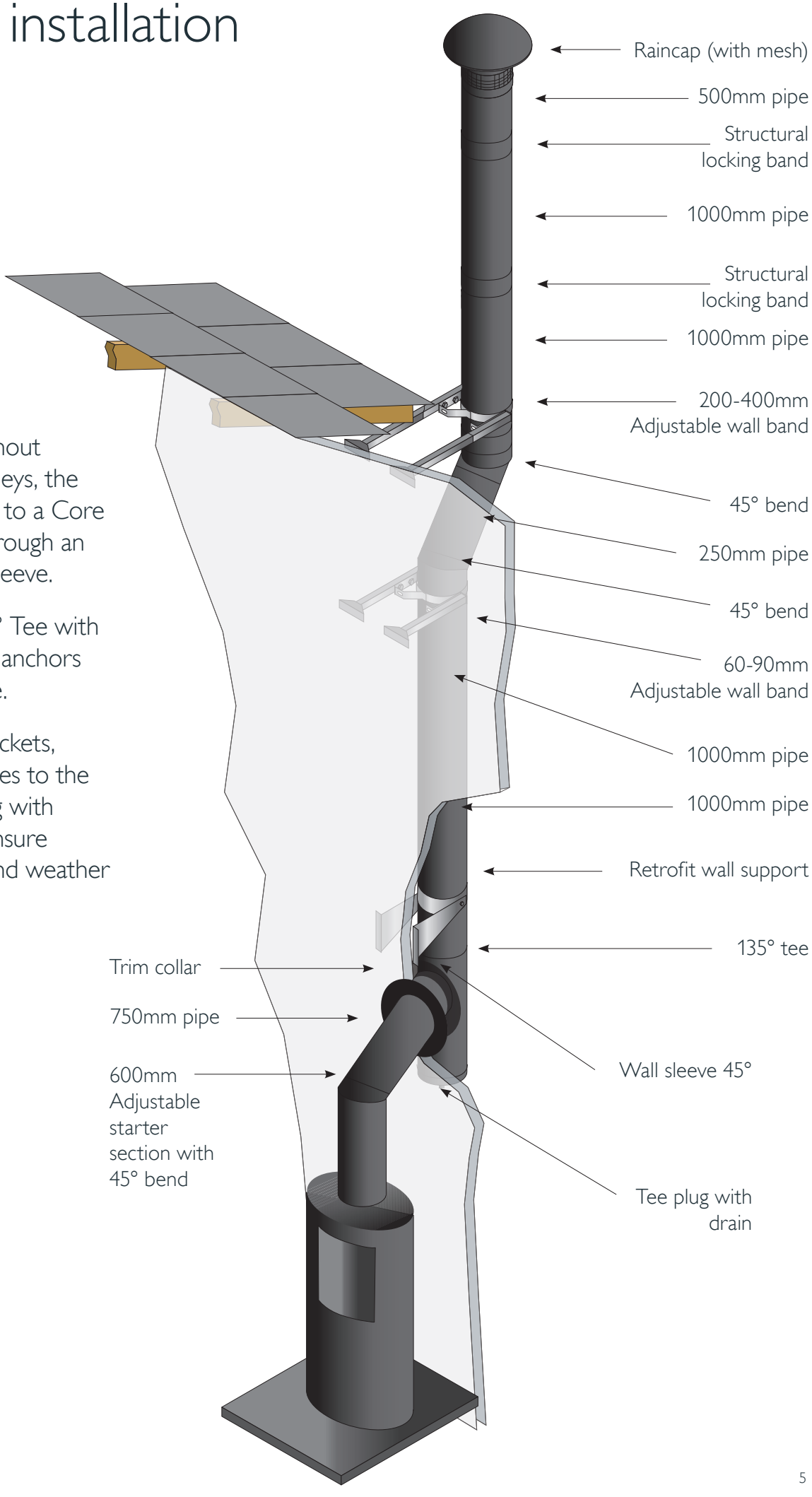


Typical installation

For homes without masonry chimneys, the stove connects to a Core pipe passing through an insulated wall sleeve.

Outside, a 135° Tee with cleaning access anchors the vertical flue.

Secured by brackets, the chimney rises to the roofline, ending with a rain cap to ensure proper draw and weather protection.



Starting components

Starting components serve as the interface between the stove and the main chimney system. These parts, such as adapters and increasing sections, securely transition the appliance's outlet to the insulated flue pipe. Designed to withstand high initial temperatures, they ensure a tight seal and provide for a safe and efficient draught.



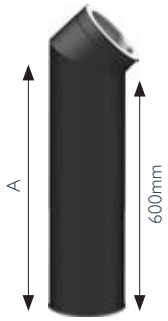
Adjustable starter section 600mm with test point			
SAP code	4804999MB	4805999MB	4806999MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



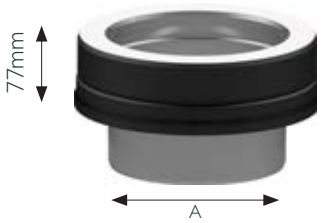
Adjustable starter section 1037mm with test point			
SAP code	4804998MB	4805998MB	4806998MB
Int Ømm	100	130	150
Ext Ømm	150	180	200

FEATURED PRODUCT

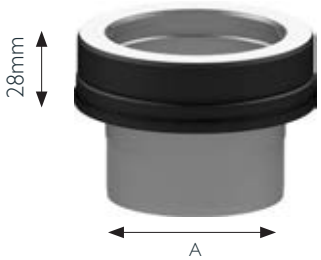
This new 600mm adjustable starter section is engineered with a 45° bend to reduce the additional fitting work needed for external installs.



600mm adjustable starter section with 45° bend with test point		
SAP code	4805997MB	4806997MB
Int Ømm	130	150
Ext Ømm	180	200
A	637	641



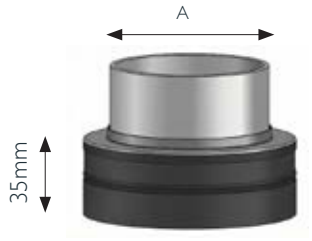
Insulated appliance connector			
SAP code	4804101MB	4805101MB	4806101MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	97	123	147



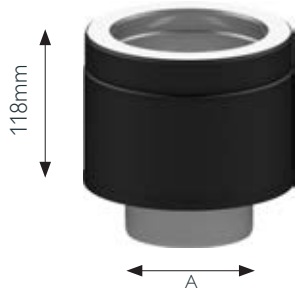
Prima Smooth / Specvit to Core adaptor		
SAP code	4805093MB	4806093MB
Int Ømm	130	150
Ext Ømm	180	200
A	129.6	149.6

Starting components

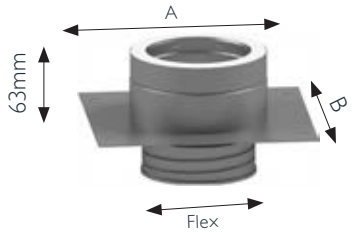
Starting components serve as the interface between the stove and the main chimney system. These parts, such as adapters and increasing sections, securely transition the appliance's outlet to the insulated flue pipe. Designed to withstand high initial temperatures, they ensure a tight seal and provide for a safe and efficient draught.



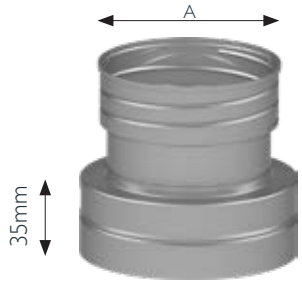
Core to Prima Smooth adaptor		
SAP code	4805099MB	4806099MB
Int Ømm	130	150
Ext Ømm	180	200
A	129.6	149.6



Increasing insulated appliance connector		
SAP code	4805098MB	4806098MB
Int Ømm	130	150
Ext Ømm	180	200
A	97	123



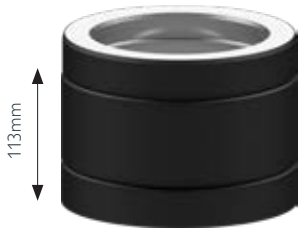
Anchor plate (screwtype)			
SAP code	4804089S	4805089S	4806089S
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	250	280	300
B	270	300	320
Ø Flex	100	125	155



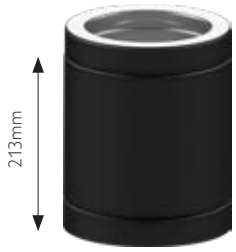
Adaptor to Flex (screwtype)			
SAP code	4804090	4805090	4806090
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	100	125	155

Pipe lengths

Pipe lengths act as the primary building blocks of the chimney system, offered in various fixed and adjustable sizes to accommodate exact installation heights. These Core sections push fit connect using a secure locking band, ensuring continuous insulation and a flue gas tight seal along the entire run. Supplied with locking band.



113mm length			
SAP code	4804006MB	4805006MB	4806006MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



213mm length			
SAP code	4804012MB	4805012MB	4806012MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



463mm length			
SAP code	4804005MB	4805005MB	4806005MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



750mm length			
SAP code	4804004MB	4805004MB	4806004MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



963mm length			
SAP code	4804002MB	4805002MB	4806002MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



Inspection pipe			
SAP code	4804013MB	4805013MB	4806013MB
Int Ømm	100	130	150
Ext Ømm	150	180	200

Pipe lengths

Pipe lengths act as the primary building blocks of the chimney system, offered in various fixed and adjustable sizes to accommodate exact installation heights. These Core sections push fit connect using a secure locking band, ensuring continuous insulation and a flue gas tight seal along the entire run. Supplied with locking band.



1-piece adjustable 50-230mm			
SAP code	4804018MB	4805018MB	4806018MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
ØA O/D	153	182.9	203



2 piece adjustable 250-365mm			
SAP code	4804015MB	4805015MB	4806015MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



2-piece adjustable 360-580mm			
SAP code	4804016MB	4805016MB	4806016MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
ØB O/D	148	178	198



2-piece adjustable 525-915mm			
SAP code	4804017MB	4805017MB	4806017MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
ØB O/D	148	178	198



Locking band			
SAP code	4804086MB	4805086MB	4806086MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



Structural locking band			
SAP code	4804086SMB	4805086SMB	4806086SMB
Int Ømm	100	130	150
Ext Ømm	150	180	200

Bends / Tees

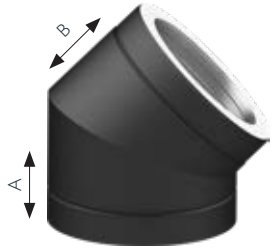
Bends and tees provide the directional flexibility needed to navigate the chimney system around walls and other obstacles. Tees facilitate 90° or 135° connections while often incorporating a clean-out cap for easy maintenance, whereas angled bends allow for precise offsets to route the flue safely through walls or past roof overhangs. Supplied with locking band.



15° bend			
SAP code	4804025MB	4805025MB	4806025MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	87.5	92.5	97.5
B	49.5	54.5	59.5



30° bend			
SAP code	4804023MB	4805023MB	4806023MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	87.5	92.5	97.5
B	49.5	54.5	59.5

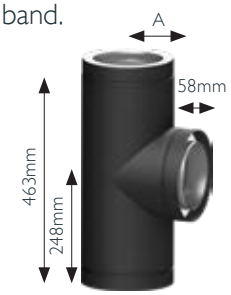


45° bend			
SAP code	4804022MB	4805022MB	4806022MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	87.5	92.5	97.5
B	49.5	54.5	59.5

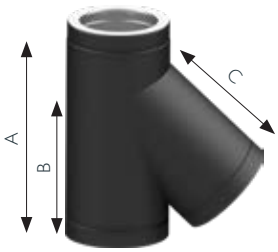
Structural locking band for bend			
SAP code	4804086SBMB	4805086SBMB	4806086SBMB
Int Ømm	100	130	150
Ext Ømm	150	180	200

Bends / Tees

Bends and tees provide the directional flexibility needed to navigate the chimney system around walls and other obstacles. Tees facilitate 90° or 135° connections while often incorporating a clean-out cap for easy maintenance, whereas angled bends allow for precise offsets to route the flue safely through walls or past roof overhangs. Supplied with locking band.



90° tee with sweeping access			
SAP code	4804043MB	4805043MB	4806043MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	100	115	125



135° tee with sweeping access			
SAP code	4804044MB	4805044MB	4806044MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	304	349	375
B	241	277	301
C	241	277	301

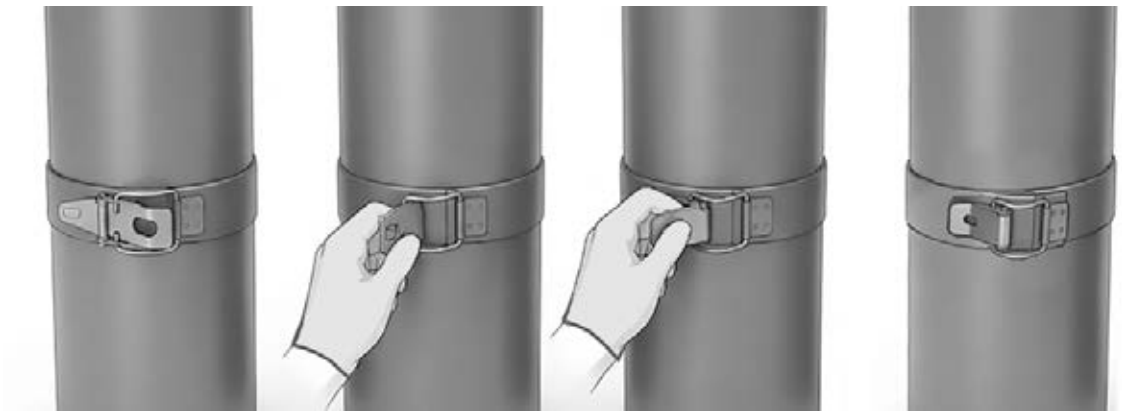


Tee plug with drain			
SAP code	4804053MB	4805053MB	4806053MB
Int Ømm	100	130	150
Ext Ømm	150	180	200

LOCKING BAND DETAILS (FOR BENDS AND STRAIGHT LENGTHS)

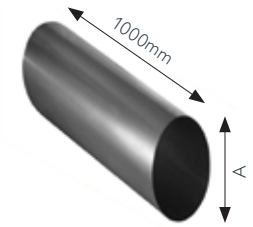
1. Place the locking band over the pipe joint, ensure the band is located correctly in the grooves and hook the wire loop securely over the catch.
2. Pull the latch lever to the left to start tightening the band.
3. Press the lever flat until it clicks and locks firmly in place.
4. Verify that the connection is tight and completely locked.

The Latch must ALWAYS be positioned to the LEFT when closed.

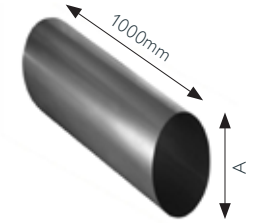


Wall sleeves

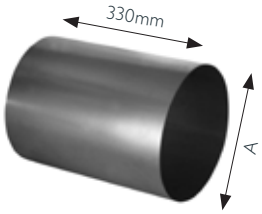
These components act as a protective conduit for the chimney when it passes through external walls at a 45° or 90° angle. They provide a continuous and safe tunnel that shields the wall structure from heat, ensuring the Core pipe remains isolated and safe as it transitions from the interior to the exterior. Cut to length where required.



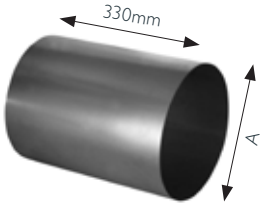
Wall sleeve 45° / 135° non-combustible			
SAP code	4804051	4805051	4806051
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	200	230	250



Wall sleeve 45° / 135° combustible			
SAP code	4804050	4805050	4806050
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	270	300	320



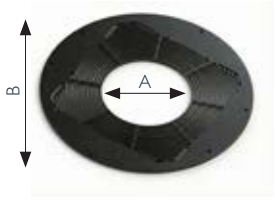
Wall sleeve 90° non-combustible			
SAP code	4804052	4805052	4806052
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	200	230	250



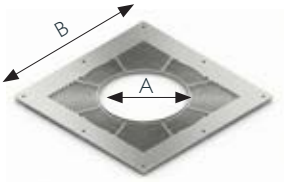
Wall sleeve 90° combustible			
SAP code	4804054	4805054	4806054
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	270	300	320

G50 Firestops

Firestops are essential safety components designed to maintain the fire integrity of a building where the Core chimney passes through floors or walls. This allows 50mm distance to combustibles through floors and shafts when using fire rated heat proof board (Please refer to Installation Instructions)



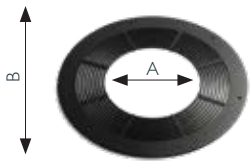
1-piece ventilated round firestop plate G50			
SAP code	4804283MB	4805283MB	4806283MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	151.6	181.6	201.6
B	350	380	400



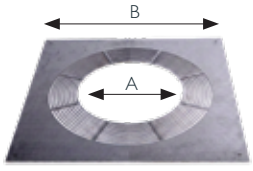
1-piece ventilated square firestop plate G50			
SAP code	4804281	4805281	4806281
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	151.6	181.6	201.6
B	350	380	400

G60 Firestops

The G60 range is designed for chimney runs where a wider 60mm clearance to combustibles is mandatory. This plate provides a robust structural barrier that guarantees the chimney remains centered and exactly 60mm away from potentially flammable building components.



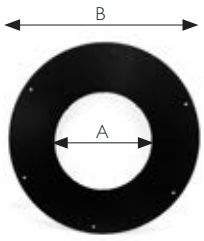
1-piece ventilated round firestop plate G60			
SAP code	4804083MB	4805083MB	4806083MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	151.6	181.6	201.6
B	350	380	400



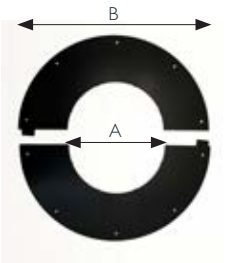
1-piece ventilated square firestop plate G60			
SAP code	4804081	4805081	4806081
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	151.6	181.6	201.6
B	350	380	400

Bungalow / single storey firestops

Bungalow firestop plates are solid firestops to allow the chimney through the ceiling into the attic area.



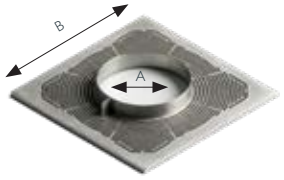
1-piece bungalow / single storey firestop			
SAP black	4804183MB	4805183MB	4806183MB
SAP white	4804183W	4805183W	4806183W
Int Ømm	100	130	150
A	151.6	181.6	201.6
B	350	380	400



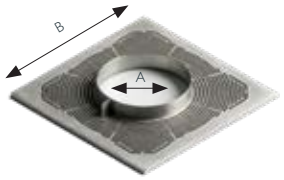
2-piece bungalow / single storey firestop			
SAP black	4804184MB	4805184MB	4806184MB
SAP white	4804184W	4805184W	4806184W
Int Ømm	100	130	150
A	151.6	181.6	201.6
B	350	380	400

Support components

These components bear the weight of the chimney system, ensuring structural stability throughout the installation. Ranging from base supports and wall brackets to roof supports, these heavy-duty fixtures anchor the Core flue securely to the building's structure, preventing movement and carrying the load of the vertical run.



G60 square 1-piece support plate			
SAP code	4804028	4805028	4806028
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	151.6	181.6	201.6
B	350	380	400



G50 square 1-piece support plate			
SAP code	4806228	4804228	4805228
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	151.6	181.6	201.6
B	350	380	400

FEATURED PRODUCT

The retrofit wall support is an installer friendly and cost-effective installation solution providing flexibility on site.



Retrofit wall support			
SAP code	4804200MB	4805200MB	4806200MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
Adj. mm	60-225	60-210	60-200

Retrofit wall support - extended			
SAP code	4804375MB	4805375MB	4806375MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
Adj. mm	200-400	185-385	175-375



Adjustable wall band 50-90mm			
SAP code	4804088MB	4805088MB	4806088MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



Adjustable wall band 90-200mm			
SAP code	4804067MB	4805067MB	4806067MB
Int Ømm	100	130	150
Ext Ømm	150	180	200

Support components

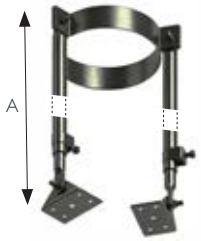
These components bear the weight of the chimney system, ensuring structural stability throughout the installation. Ranging from base supports and wall brackets to roof supports, these heavy-duty fixtures anchor the Core flue securely to the building's structure, preventing movement and carrying the load of the vertical run.



Adjustable wall band 190-300mm			
SAP code	4804068MB	4805068MB	4806068MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



Adjustable wall band 290-400mm			
SAP code	4804069MB	4805069MB	4806069MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



Telescopic roof stays			
SAP code	4804029RS	4805029RS	4806029RS
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	1600-2500	1600-2500	1600-2500



Ridged roof stays M10 bolts	
SAP code	HBA



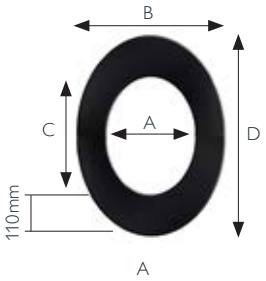
Guy wire bracket			
SAP code	4804092MB	4805092MB	4806092MB
Int Ømm	100	130	150
A	150	180	200



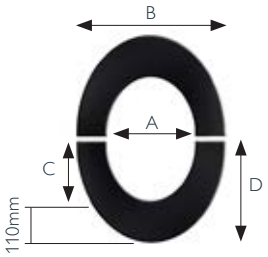
Roof support			
SAP code	4804029	4805029	4806029
Int Ømm	100	130	150
Ext Ømm	150	180	200

Trim collars

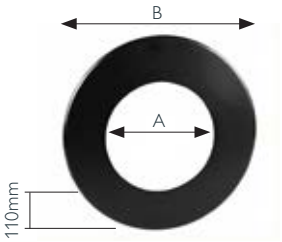
Collars provide a neat and professional finish where the chimney passes through walls or ceilings. These are available in one piece or two piece variations to cover the expansion gap between the pipe and the surrounding surface, ensuring a clean aesthetic that blends the Core system seamlessly into the room's interior.



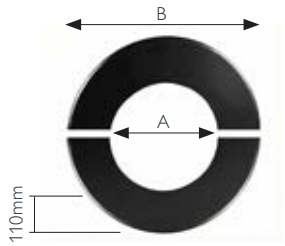
1-piece 45° / 135° trim collar			
SAP code	4804106MB	4805106MB	4806106MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	154	184	204
B	374	404	424
C	216	259	287
D	436	479	507



2-piece 45° / 135° trim collar			
SAP code	4804107MB	4805107MB	4806107MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	154	184	204
B	374	404	424
C	108	129.5	143.5
D	218	239.5	253.5



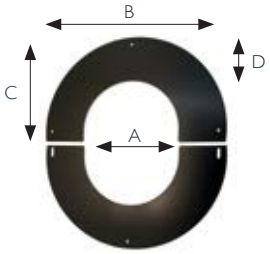
1-piece 90° trim collar			
SAP code	4804111MB	4805111MB	4806111MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	154	184	204
B	300	330	350



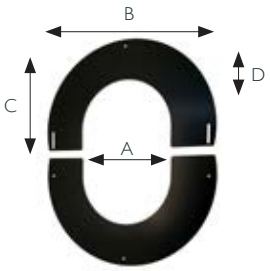
2-piece 90° trim collar			
SAP code	4804112MB	4805112MB	4806112MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	154	184	204
B	374	404	424

Trim collars

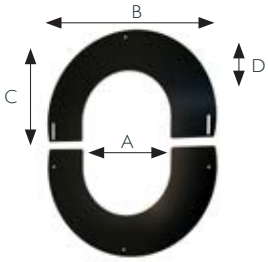
Collars provide a neat and professional finish where the chimney passes through walls or ceilings. These are available in one piece or two piece variations to cover the expansion gap between the pipe and the surrounding surface, ensuring a clean aesthetic that blends the Core system seamlessly into the room's interior.



Adjustable 0-20° trim collar			
SAP code	4804245MB	4805245MB	4806245MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	154	184	204
B	374	404	424
C	209.5	224.5	234.5
D	110	110	110



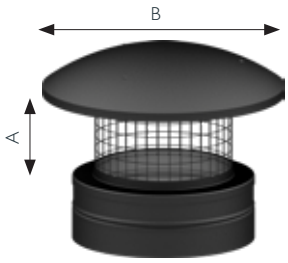
Adjustable 20-35° trim collar			
SAP code	4804246MB	4805246MB	4806246MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	154	184	204
B	374	405	424
C	224	245	261
D	110	110	110



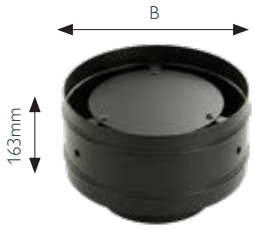
Adjustable 35-45° trim collar			
SAP code	4804247MB	4805247MB	4806247MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	154	184	204
B	374	404	424
C	241.5	269.5	282
D	110	110	110

Terminals

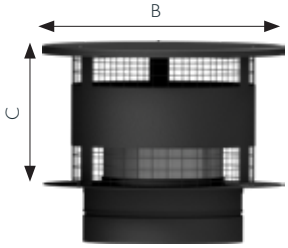
Terminals are installed at the very top of the flue to ensure safe exhaust dispersion. From simple rain caps to anti-splash and anti-downdraught cowls, Core terminals protect the chimney from bird nesting, rain ingress, and wind pressure, ensuring consistent performance.



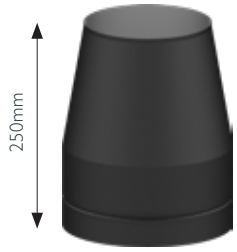
Raincap with 25mm mesh			
SAP code	4804076MB	4805076MB	4806076MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	70	90	90
B	266	266	310



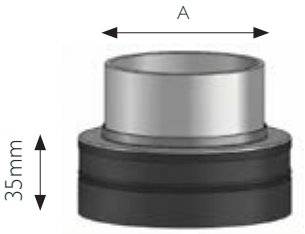
Anti-downdraught round top terminal			
SAP code	4804079MB	4805079MB	4806079MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
B	270	300	320



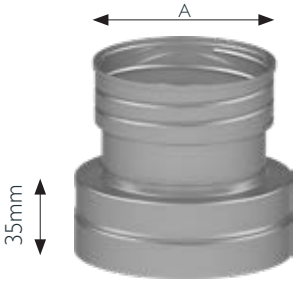
Anti-splash / anti-downdraught terminal with 14mm mesh for gas/oil only			
SAP code	4804077MB	4805077MB	4806077MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
B	234	254	304
C	95	143	171



Tapered terminal			
SAP code	4804073MB	4805073MB	4806073MB
Int Ømm	100	130	150
Ext Ømm	150	180	200



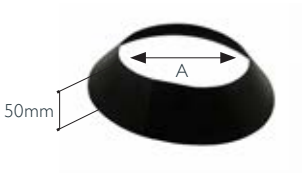
Core to Prima Smooth adaptor			
SAP code		4805099MB	4806099MB
Int Ømm		130	150
Ext Ømm		180	200
A		129.6	149.6



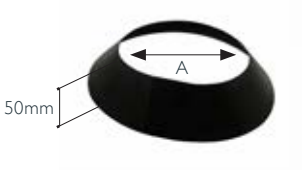
Adaptor to Flex (screwtype)			
SAP code	4804090	4805090	4806090
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	100	125	155

Flashings

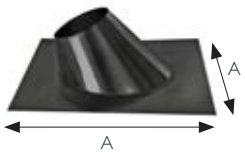
Flashings are the weatherproofing seal where the chimney penetrates the roof. They are formed to fit the roof pitch and tile profile, creating a watertight barrier around the Core pipe to prevent rain and moisture from entering the building structure.



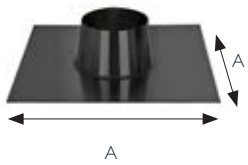
Storm collar			
SAP code	4804041MB	4805041MB	4806041MB
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	150	180	200



Storm collar with seal			
SAP code	Coming soon		
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	150	180	200



Angled flashing kit 5-45°			
SAP code	4804035	4805035	4806035
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	700	700	700



Flat flashing kit			
SAP code	4804038	4805038	4806038
Int Ømm	100	130	150
Ext Ømm	150	180	200
A	700	700	700



Lead flashing 35°			
SAP code	8806035	8807035	8808035
Int Ømm	100	130	150
Ext Ømm	150	180	200
Base size	600x600	600x600	600x600



Lead flashing 45°			
SAP code	8806045	8807045	8808045
Int Ømm	100	130	150
Ext Ømm	150	180	200
Base size	600x600	600x600	600x600

Flashings

Flashings are the weatherproofing seal where the chimney penetrates the roof. They are formed to fit the roof pitch and tile profile, creating a watertight barrier around the Core pipe to prevent rain and moisture from entering the building structure.



Masterflash kit (black) EPDM			
SAP code	54MF106	54MF107	54MF108
Int Ømm	100	130	150
Ext Ømm	150	180	200

High temperature resistance tested to 260°C (intermittent) and 225°C (continuous)



Masterflash kit (red) silicone			
SAP code	54MF206	54MF207	54MF208
Int Ømm	100	130	150
Ext Ømm	150	180	200

High temperature resistance tested to 135°C (intermittent) and 100°C (continuous)



Masterflash fixing kit	
SAP code	5500901

Recommend number of fixing kits			
Int Ømm	100	130	150
Quantity	4	5	5

Accessories

Various optional accessories to maintain the chimney system or to enhance the installation.



Loft guard	
SAP code	0900559
Int Ømm	100 - 150
Ext Ømm	150 - 200
Ø A	320

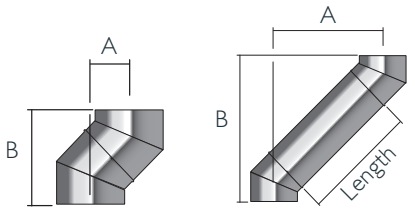


Touch up paint specific to finish	
SAP code	48SP

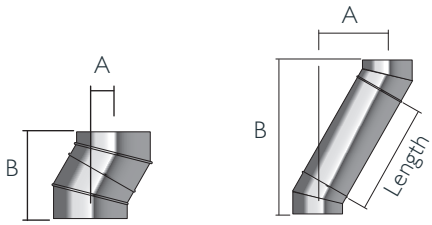
Black touch up spray paint for use with the standard Black satin RAL 9005 BLMT paint spec 400ml spray cans.

130mm offset tables

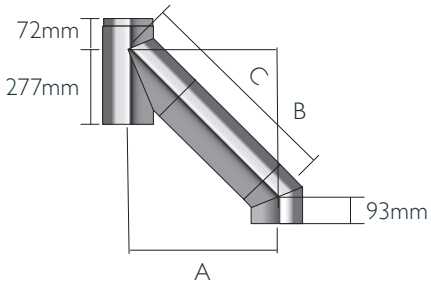
Offsets are made by assembling two bends or two bends and a pipe. On natural draught systems, there should be no more than 4 changes of direction of maximum 45°. Two 45° bends (or a 90° factory bend/tee) count as two changes of direction. The table below shows the 130mm offset measurements.



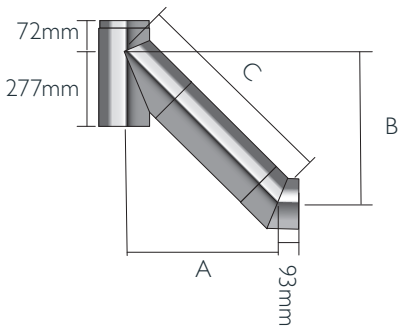
45° offset	A offset (mm)	B height (mm)
2x 45 Degree bends	104	251
113 Effective Length	184	331
213 Effective Length	255	402
463 Effective Length	431	578
750 Effective Length	634	781
963 Effective Length	785	895



30° offset	A offset (mm)	B height (mm)
2x 30 Degree bends	74	274
113 Effective Length	130	372
213 Effective Length	180	459
463 Effective Length	305	675
750 Effective Length	449	924
963 Effective Length	555	1093



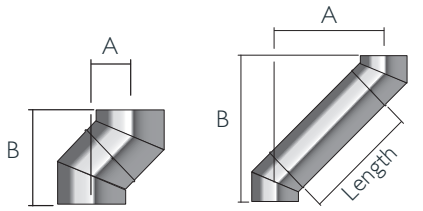
45 Bend into 135 Tee	A	B	C
No Length	234	234	332
113 Length	314	314	445
213 Length	385	385	545
463 Length	562	562	795
750 Length	765	765	1082
963 Length	915	915	1295



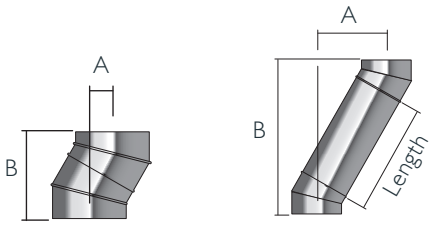
45 Bend into 135 Tee	A	B	C
No Length	234	234	332
113 Length	314	314	445
213 Length	385	385	545
463 Length	562	562	795
750 Length	765	765	1082
963 Length	915	915	1295

150mm offset tables

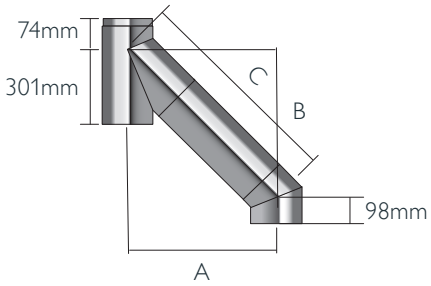
Offsets are made by assembling two bends or two bends and a pipe. On natural draught systems, there should be no more than 4 changes of direction of maximum 45°. Two 45° bends (or a 90° factory bend/tee) count as two changes of direction. The table below shows the 150mm offset measurements.



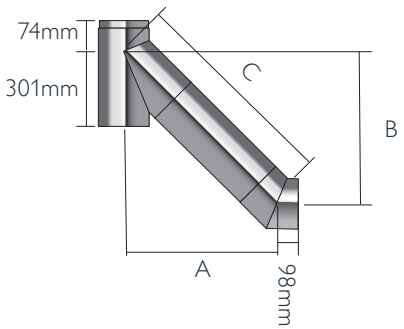
45° offset	A offset (mm)	B height (mm)
2x 45 Degree bends	111	268
113 Effective Length	191	348
213 Effective Length	262	419
463 Effective Length	438	595
750 Effective Length	641	798
963 Effective Length	792	949



30° offset	A offset (mm)	B height (mm)
2x 30 Degree bends	79	293
113 Effective Length	135	391
213 Effective Length	185	477
463 Effective Length	310	694
750 Effective Length	454	942
963 Effective Length	560	1127



45 Bend into 135 Tee	A	B	C
No Length	255	255	361
113 Length	335	335	474
213 Length	406	406	574
463 Length	582	582	824
750 Length	785	785	1111
963 Length	936	936	1324



45 Bend into 135 Tee	A	B	C
No Length	255	255	361
113 Length	335	335	474
213 Length	406	406	574
463 Length	582	582	824
750 Length	785	785	1111
963 Length	936	936	1324

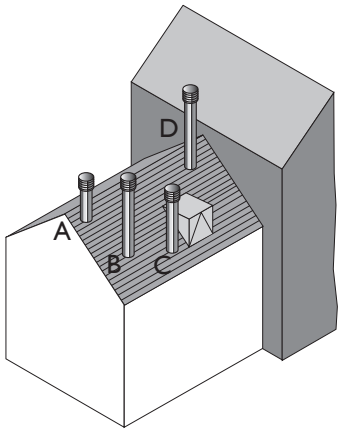
System design

OUTLET SITING

Flue terminations for wood burning are subject to EN15287-1 2010. The diagrams illustrate recommendations for the most commonly encountered outlet terminations. Adjacent taller structures may require increased height. The minimum flue projection through the roof is 600mm to the underside of the terminal.

OUTLET SITING FOR CORE FLUE SYSTEM

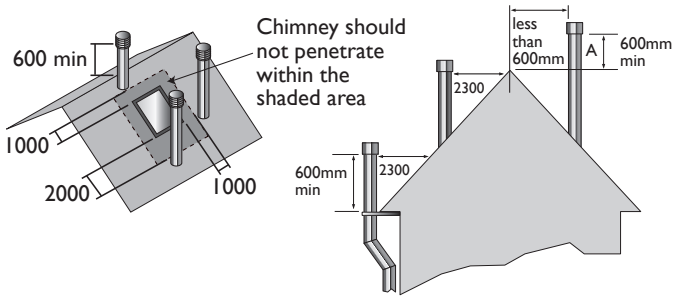
Point where flue passes through weather surface		Clearance to flue outlet
A	At or within 600mm of the ridge	At or within 600mm above the ridge
B	Elsewhere on the roof (whether pitched or flat)	At least 2300mm horizontally from the nearest point on the weather surface and: a) at least 1000mm above the highest point of intersection of the chimney and the weather surface; or b) at least as high as the ridge
C	Below (on a pitched roof) or within 2300mm horizontally to an openable roof-light, dormer window or other opening	At least 1000mm above the top of the opening
D	Within 2300mm of an adjoining or adjacent building, whether or not beyond the boundary	At least 600mm above any part of the adjacent building within 2300mm



TERMINATION AROUND VELUX STYLE OPENINGS FOR WOOD BURNING APPLIANCES

1. The weather surface is the building external surface, such as its roof, tiles or external walls.
2. A flat roof has a pitch less than 10°.
3. The clearance for A or B, as appropriate, will also apply.

A vertical flue fixed to an outside wall should be treated as equivalent to an inside flue emerging at the nearest edge of the roof.



TERMINAL TYPES

Raincaps and Anti-Splash terminals both come with mesh. Regular cleaning is required to avoid any blockages as a result of soot build up.

FLUE ROUTING

The chimney should remain as straight as possible through its vertical run to assist flow. Should it be necessary to offset a chimney, it is recommended that a vertical rise of 600mm should be allowed immediately above the appliance before any change of direction.

Within a system, on all fuels, there should be no more than 4 changes of direction of maximum 45°.

90° Factory made bends or tees within the system may be treated as being equal to two 45° bends (see Document J of the Building Regulations issued October 1st 2010).

PROVISION FOR SWEEPING, CLEANING AND MAINTENANCE

Provision should be made for inspecting and cleaning the chimney.

To aid cleaning, sufficient distance should be left between changes of direction to permit the safe passage of cleaning brushes within the system. This is particularly important on wood burning applications. It is recommended that chimneys serving wood burning appliances be swept as frequently as necessary but at least twice a year.

Choose an access component suitable for your installation unless cleaning/inspection can be done through the appliance.

Load bearing data

Maximum load bearing (metres of pipe)			
Internal Diameter (mm)	100	130	150
Retrofit Wall Support	10	10	10
Ventilated Support Plate	12	12	12
Retrofit Wall Band	3	3	3
Guy Wire Bracket	1.5	1.5	1.5
Roof Support (above truss)	6	6	6
Roof Support (below truss)	4	4	4
Extension for Retrofit Wall Band	3	3	3

Approximate weights of lengths (kg)			
Internal Diameter (mm)	100	130	150
1000mm	5.2	6.3	7.1
750mm	4.2	5.1	5.7
500mm	2.6	3.2	3.6
250mm	1.3	1.7	1.9
150mm	1.0	1.3	1.4

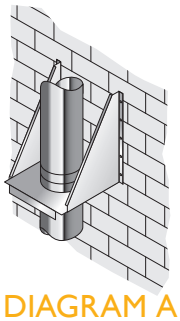


DIAGRAM A

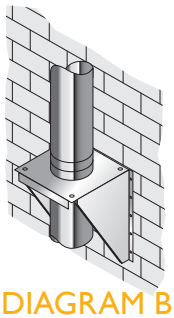


DIAGRAM B

Installation

MANDATORY REQUIREMENTS

We recommend the use of HETAS approved installers for wood burning applications. For full design and installation details the key referral documents are:

- BS EN 1856-1: Chimneys - System Chimney Products
- BS EN 1859: Metal Chimneys - Testing Methods
- BS EN 1443: Chimneys - General Requirements
- BS EN 15287-1: Chimneys. Design, installation and commissioning of chimneys. Chimneys for non-room sealed heating appliances.
- BS 5440-1: Flueing and ventilation for gas appliances of rated input not exceeding 70kW net (1st, 2nd and 3rd family gases)
- Specification for installation of gas appliances to chimneys and for maintenance of chimneys.
- Approved Document B (Fire safety): Dwellings (England)
- Approved Document J: - Combustion appliances and fuel storage systems (England & Wales)
- DFP Technical Booklet L: - Combustion appliances and fuel storage systems (NI)
- Technical Handbook (Domestic & Non Domestic), Section 3 - Environment (Scotland)
- Appliance Installation Instructions and related standards. Other standards covering specific applications will also be relevant and must be adhered to.
- Planning permission may be required, and reference should be made to the local Building Control Department.

ENCLOSURE/SHAFTS

With the exception of the room containing the appliance, where the chimney passes through any part of the building, where there is a risk of accidental human contact, i.e. a bedroom etc., or where there is a risk of contact with combustible materials stored in a cupboard or in the roof-space, the chimney must be enclosed in an appropriate way to meet Building Regulations.

This can be achieved by boxing in the chimney in habitable rooms, or by the use of a protective wire mesh frame in roof spaces etc. In all cases the minimum distance to any combustible material, including loft insulation, must be respected according to the table on p.3, and any enclosure should be ventilated using the appropriate ventilated fire stops (see p.13/15). Enclosure must be constructed using materials consistent with guidance set out in Approved Document B.

Installation

DISTANCE TO COMBUSTIBLES

In accordance with building regulations its is essential that the correct distance to combustible material is maintained. On wood burning applications, where there is a risk of soot fire, a distance of 50mm or 60mm (depending on choice of G50 or G60 firestop plates) to combustibles must be maintained when passing through a combustible floor or enclosed within a shaft.

ENGLAND / WALES

The installation must be carried out by a HETAS, OFTEC, NAPIT or APHC registered installer for England and Wales.

SCOTLAND

All installations need to be carried out by a competent person this could be a NVQ qualified chimney sweep, HETAS, OFTEC, NAPIT or APHC registered installer, or have been approved by the local building control authority.

BUNGALOWS

On bungalow applications where the chimney runs through either a combustible or non-combustible ceiling, an unventilated bungalow fire stop plate kit can be used. Please note that an unventilated support plate can not be used above the ceiling in this case. The weight of the chimney should be supported using the roof support. Distance to combustibles must be respected within the ceiling space and mesh frame should be used within the loft space, which must be ventilated.

JOINTING SYSTEM

All joints in the Core Twin Wall range are made by means of a simple push-fit jointing method.

Joints are not permitted within wall and ceiling spaces. Any flue pipe (i.e. single wall) connection to the chimney must be made in the same room as the appliance. The chimney must project at least 425mm below the ceiling. Where a chimney passes through a wall, a wall sleeve must be used to prevent damage to the chimney and the building.

CONNECTION TO APPLIANCE

Use the appropriate appliance connector, sealing with fire rope and fire cement or high temperature sealant on wood burning. The length of single-wall pipe on the appliance connector can be trimmed where required.

APPLIANCE REMOVAL

Use of an adjustable length immediately above the appliance enables removal of the appliance later without dismantling the full system.

INSPECTION

To conform to Building Regulations, provisions should be made to enable a chimney to be inspected and cleaned. An inspection length or an insulated 90° or 135° Tee can form a suitable inspection point. To aid cleaning, sufficient distance should be left between changes of direction to permit the safe passage of cleaning brushes within the system. This is particularly important on wood burning applications. It is recommended that chimneys serving wood burning appliances be swept as frequently as necessary, but at least twice a year.

CHIMNEY DIAMETER

The chimney size should be as recommended by the appliance manufacturer. Where there is a requirement for a flue diameter smaller than the appliance spigot, then the operational requirements of the appliance and the configuration of the flue must satisfy the flue sizing requirements of EN13384-1 for single appliances.

Core is available in internal diameters of 100mm, 130mm and 150mm. External is 150mm, 180mm and 200mm.

Guarantee

LIFE EXPECTANCY AND GUARANTEE

We are confident in our products and so offer you (the owner) a generous guarantee in relation to the Core Twin Wall system (the System). Provided that you comply with the conditions stated below, the system will be free from defects for 10 years.

The conditions of the guarantee are:

- Correctly sized and installed in accordance with the manufacturer's instructions, current Building Regulations and relevant British and European standards.
- Maintained correctly by a qualified and competent person and maintenance records kept updated for both appliance and chimney/chimney liner (i.e. sweeping certificates).
- Used in combination with an appliance burning only approved fuels in accordance with Schiedel Chimney Systems and the appliance manufacturer's instructions.
- No overnight burning (slumbering) can occur.
- Familiarise yourself with the installation instructions and comply with its provisions in full during the lifetime of your usage of the product (including by keeping the required records safe). Failure to do so will invalidate any guarantee claim.

For more details about the guarantee visit our website. For recommended fuels listings, please refer to the HETAS Guide www.hetas.co.uk

In the event of a fault developing in the product due to defective materials or faulty manufacture Schiedel Chimney Systems undertake to replace the product only. Schiedel Chimney Systems cannot accept liability nor take any responsibility for the installation, building or redecorating costs or any other consequential losses arising. If any complaint is found to be a result of faulty installation, non-compliance with or abuse contrary to these conditions, the cost of site investigation is chargeable.

Frequently asked questions

ARE THERE OTHER FINISHES AVAILABLE?

We are only launching the black product initially. No plans are currently in place to introduce any additional painted variants, or an unpainted version

WHAT IS THE WARRANTY/GUARANTEE PERIOD?

The warranty period for Core Twin Wall will be 10 years, with the usual caveats to this guarantee; Installed to our instructions, swept regularly, carried out by a HETAS registered installer/competent person etc.

Schiedel Installer Rewards

Exciting news from Schiedel Chimney Systems for stove and chimney Installers!
Whenever you register an installation with our easy to use, online guarantee registration portal, you will now accrue points based on the number of installations and installation type.

Once you have reached a minimum of 25 points, you can begin to redeem them for £25 Love2Shop vouchers.

So head on over to the portal and start to register your installations to take full advantage of our guarantee and also to start earning points!



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