



INSTALLATION GUIDE

Twin Wall Insulated Chimney System
designed for Stove Applications



@solinoxchimney

www.solinox.com.tr



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SOLINOX TWIN WALL SYSTEMS

MAIN FEATURES:

- Easy and quick assembly
- Suitable for internal and external applications
- High density rock-wool insulation

DIAMETERS :

AVAILABLE: 100mm, 130mm, 150mm

OTHERS: available on request

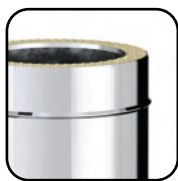
THICKNESS: 0.40mm- 0.50mm

OTHER THICKNESS: available on request

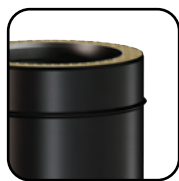
MATERIAL :

AISI 316L (1.4404)

AISI 304 (1.4301)



SS finish



Matt Black finish

TECHNICAL CHARACTERISTICS:

OPERATING MODE: Condensate (W) with gasket
Dry (D) without gasket

PRESSURE: Positive (P1) with gasket
Negative (N1) without gasket

MAX. WORKING
PRESSURE: 200 Pa

OPERATING
TEMPERATURE: 200°C with gasket
600°C without gasket

Chimney designation	Chimney designation
EN 1856-1	Standard number
T600	Temperature rating
N1	Pressure rating
W	Condensate resistance
V2	Corrosion resistance
L50040	Liner material and thickness
G60	Soot fire resistance

APPROVALS :

SLXBA T200-P1-W-V2-L50 (040-150) G60

SLXBA T600-N1-D-V2-L50 (040-150) G60

SLXBA T600-N1-D-Vm-L20 (040-150) G60



General Directive

1- The installation of the flue must be in accordance with local building regulations and associated National Standards and Codes of Practice and only done by qualified personnel. We recommend the use of HETAS approved installers for solid fuel applications. If installation is carried out by a non HETAS registered installer, the installation must be certified by Building Control.

2- Before any kind of installation, make sure that the product designation marked on the label of the item is suitable for the type of installation to perform.

3- Every flue section and fitting shall be used as manufactured for assembly on site without any alteration or cutting. Components are joined with male-female socket and secured with a locking band. All components must be installed with the male coupler facing up. (see page 7 -General Directive-)

4- Solinox flue is suitable for both internal and external applications. Offsets can be constructed using elbows, lengths and adjustable components available within the system. For full details regarding offset dimensions and heights for various elbow/length combinations check our catalogue.
(see page 10-11 -Technical Pages-)

5- According to building regulations if bends are necessary there must be no more than four in the length of the chimney.

6- The angle of the bend should be no greater than 45° from the vertical, with the exception that 90° factory made bends or tees may be treated as being equal to two 45° bends. 90° bends/tees will require a Flue Calculation from the Manufacture of the Flue x Appliance.

7- Where an offset is used, the length of chimney between the two elbows MUST NOT exceed 20% of the total vertical length of the chimney. The chimney should stay as straight as possible throughout its height.

8- Where serving solid fuel or oil appliances, any part of the chimney which passes through any room other than that in which the appliance using the chimney is situated, should be protected to prevent damage and accidental location of combustible material against the outer skin. It is a building regulation requirement that any factory made insulated chimney should be enclosed where passing through a cupboard, storage space or accessible roof space.

9- Where used with solid fuel or oil appliances producing flue gas temperatures exceeding 250°C, the clearance at floor/ceiling joists must be established using the ventilated ceiling support and ventilated fire-stop components. The internal diameter of the chimney must conform to the requirements of the appliance manufacturer's instructions and should not, under any circumstances, be less than the diameter of the appliance outlet.

10- It is recommended to where possible provide a vertical run of at least 600mm directly above the appliance before changing direction.

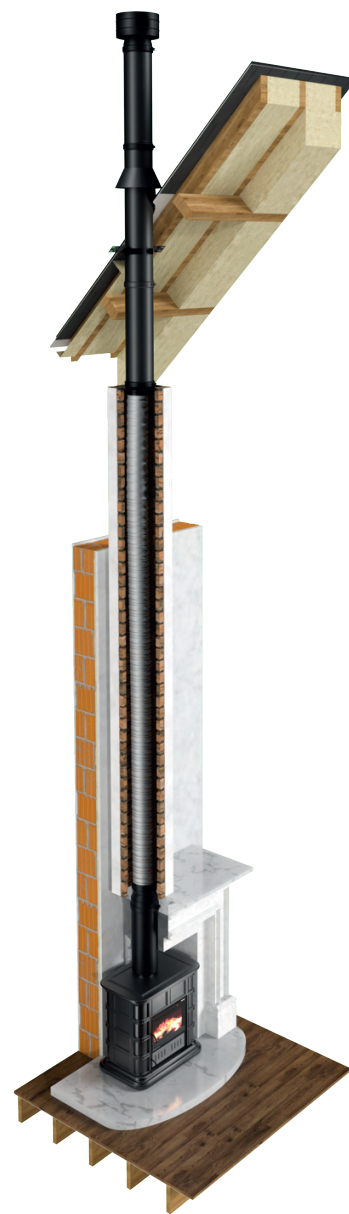
11- Where the chimney goes through any area of the structure, where there is a danger of inadvertent human contact, e.g. a bedroom, or where there is a risk of contact with flammable materials, e.g. a closet or roof space, the chimney must be enclosed in accordance with Building Regulations. This may be accomplished by surrounding the chimney in a non-combustible enclosure in habitable rooms, etc., or by using a protective wire mesh frame in attics, etc. The minimal distance to flammable material must be maintained under all circumstances. Using the right Vented Firestop components, every enclosure must be ventilated.



Internal Installation

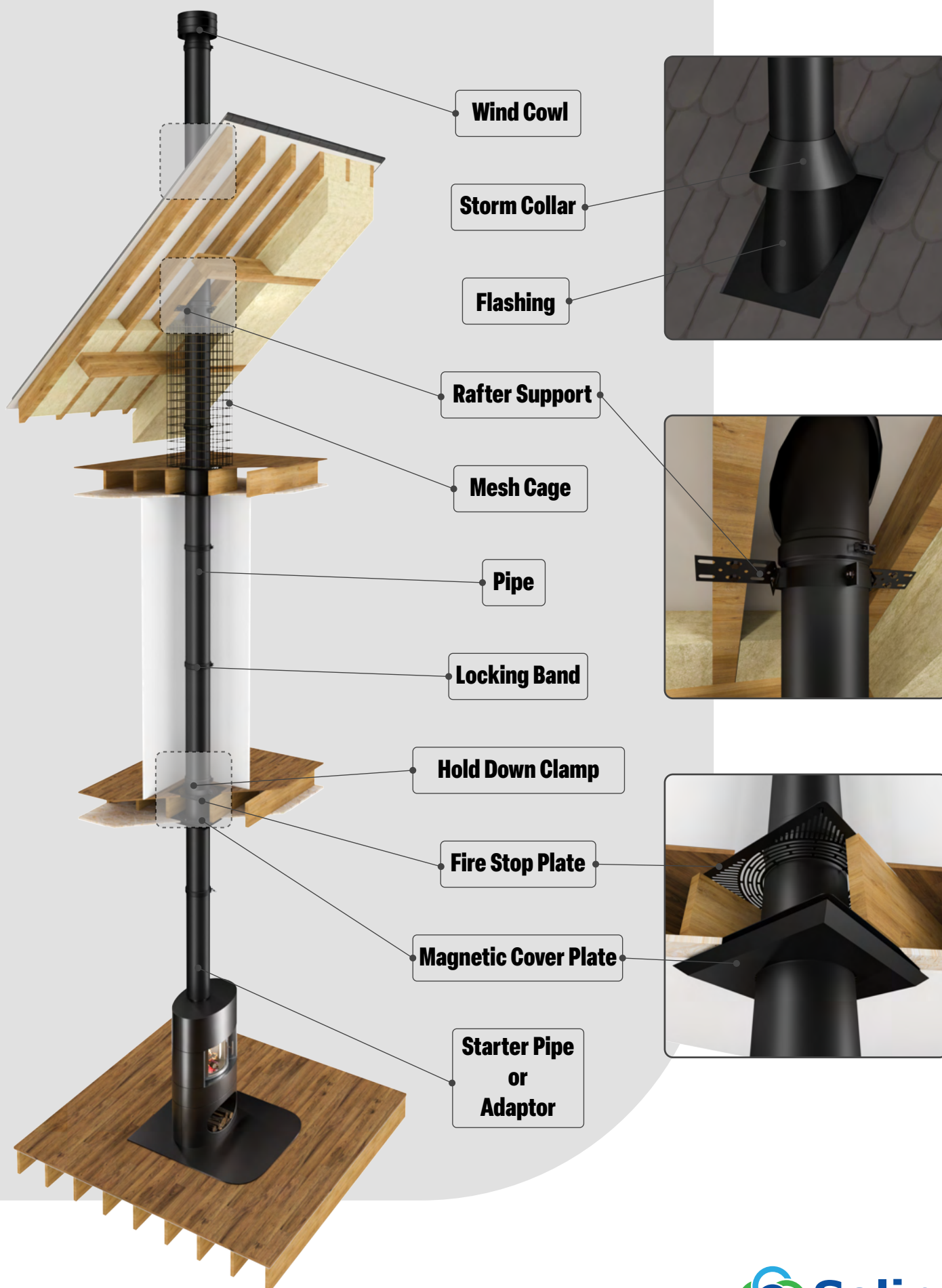


External Installation



**Internal Installation
With Flexible Pipe**

****** Correct project planning and product selection are crucial for a successful installation. It is very important that sufficient air for combustion and ventilation is provided to the room containing the appliance, to enable correct and efficient working of the appliance and chimney system. Reference should be made to the appliance manufacturer's instructions and recommendations are also given in the Building Regulations Document



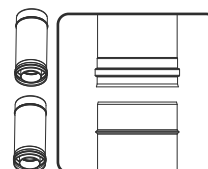
*Check that you have the appropriate components and the assembly project before beginning assembly.



1. A starter pipe or adaptor must be connected to the stove's outlet.



2. Install the pipe specified with the proper dimensions for your project.



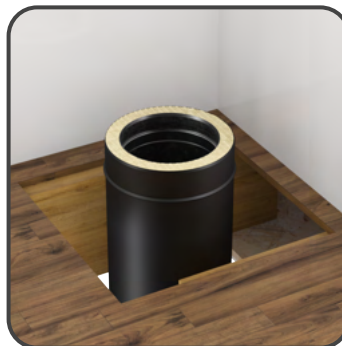
***Check that the male side shows upward during installation.

*Check > Page 7



3. Use locking band with each component and make sure to put them on in the correct direction.
Hint; check for arrow in the SS ones.

*Check > Application (Page 13)



4. Make sure that the distance to combustibles floor is 60 mm away from the pipe gauge.

*Check > Page 7



5. Make sure to use ventilated fire-stop plate when going through a combustible floor. Then affix the cover plate. This element makes for a more aesthetic finish of the ceiling entry.



6. After reaching the ceiling use rafter support to fix the flue pipe. Can be fitted above or below the Roof Rafters.

*Check > Application (Page 12)

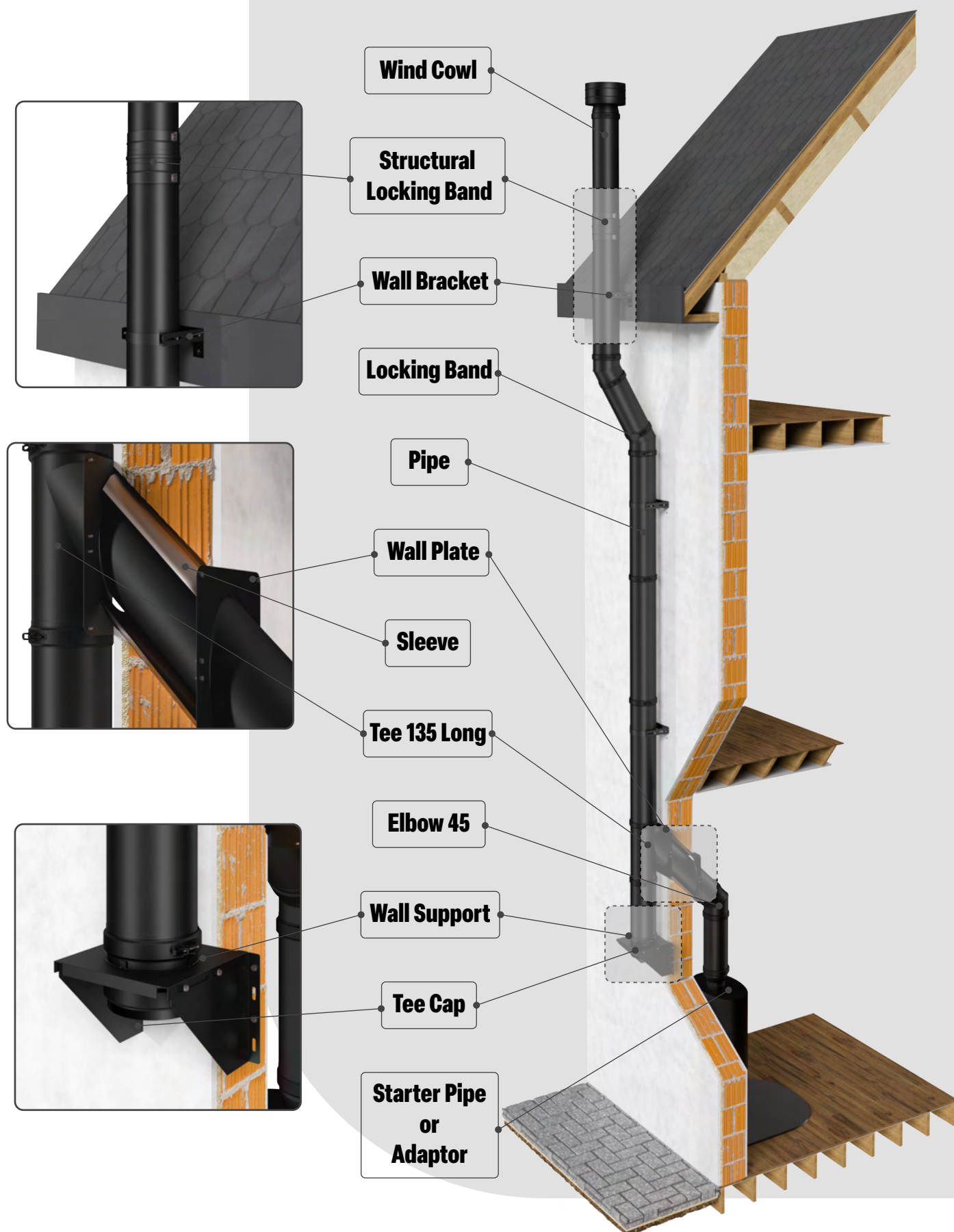


7. After going through the roof use a suitable flashing & storm collar. Then use a silicon for complete sealing.



8. Put on the terminal.

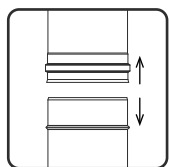
*Check > Termination Heights (Page 7)



*Check that you have the appropriate components and the assembly project before beginning assembly.



1. The starter pipe or adaptor is connected to the stove outlet.



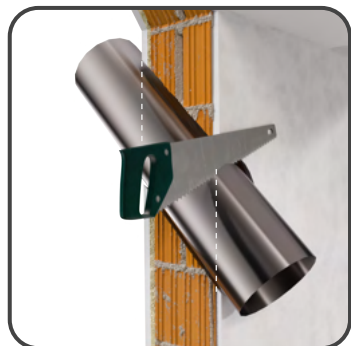
***Check that the male side shows upward during installation.
*Check > Page 7



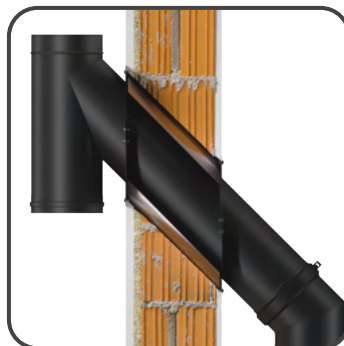
2. Use the offset table to determine where the flue exits.



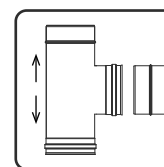
*Remember to use locking band with each component and make sure to put them on in the correct direction. Hint; check for arrow in the SS ones.



3. Install the wall sleeve in a pre-prepared wall opening. Cut the wall sleeve to the desired length. Place the tee piece through the wall sleeve. There should be no joins within the wall.



4. The outlet is fitted with the chosen tee. It is essential to calculate the correct distance between the pipe extension bracket and the wall mounting bracket.

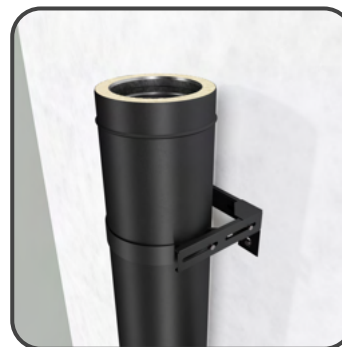


*When putting on the tee, check that the male side is up.
*Check > offsets calculation (Page 10-11)



5. The chimney system is fixed, with the chosen carrier determined by the project. Use a Tee cap or Tee cap with drain.

*Check > Wall Support Bracket Technical Information (Page 9)
> Application (Page 12)



6. Fix the flue to the wall by using a wall bracket.

*Check > Wall Support Bracket Technical Information (Page 9)



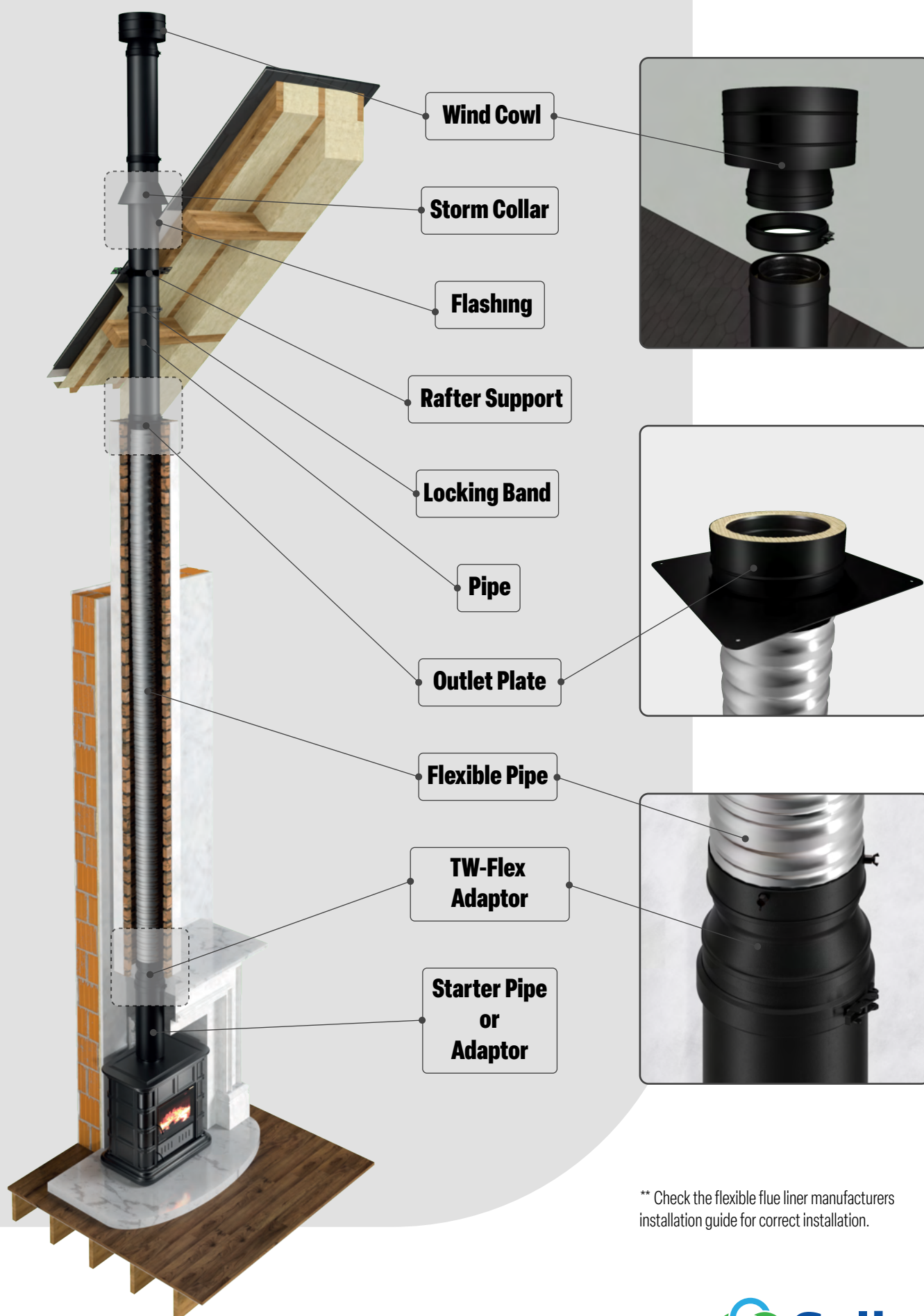
7. Examining the offset table according to your roof system will allow you to offer elbows for transition.

*Check > offsets calculation (page 10-11)



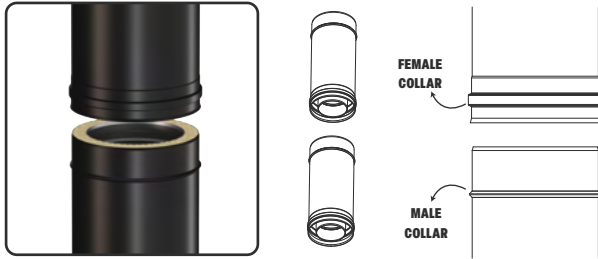
8. Put on the terminal.

*Check > Termination Heights (page 7)



** Check the flexible flue liner manufacturers installation guide for correct installation.

Direction Pipe Hanging



Components must be installed with the direction arrow on the product label pointing to termination with the external male collar uppermost.

Distance To Combustible



In accordance with building regulations, it is essential that the correct distance to combustible material is maintained. On solid fuel applications, using the ventilated fire stop plates in combination with the ventilated support plate, where there is a risk of soot fire, a distance of 60mm to combustibles must be maintained within a combustible floor and within a combustible shaft. However the ventilated fire stop plate and ventilated support plate must be used.

Solid Fuel Chimney Termination Heights

The image below shows solid fuel. If the chimney feeds an oil-fired pressure jet appliance, it must discharge a minimum of 600mm above the roof entry point or, if within 750mm, any neighboring structure. In addition, the chimney must finish at least 600mm from any building entrance and 300mm from any combustible material.

Minimum distance measured from the top of the chimney construction, excluding any pot or terminal:

A- 2.3 metres horizontally clear of the roof surface, e.g. if the roof pitch is 45°, then the chimney should project 2.3 metres above it, and:

- a) At least 1m above the highest point of intersection of the chimney and weather surface; or
- b) At least as high as the ridge.

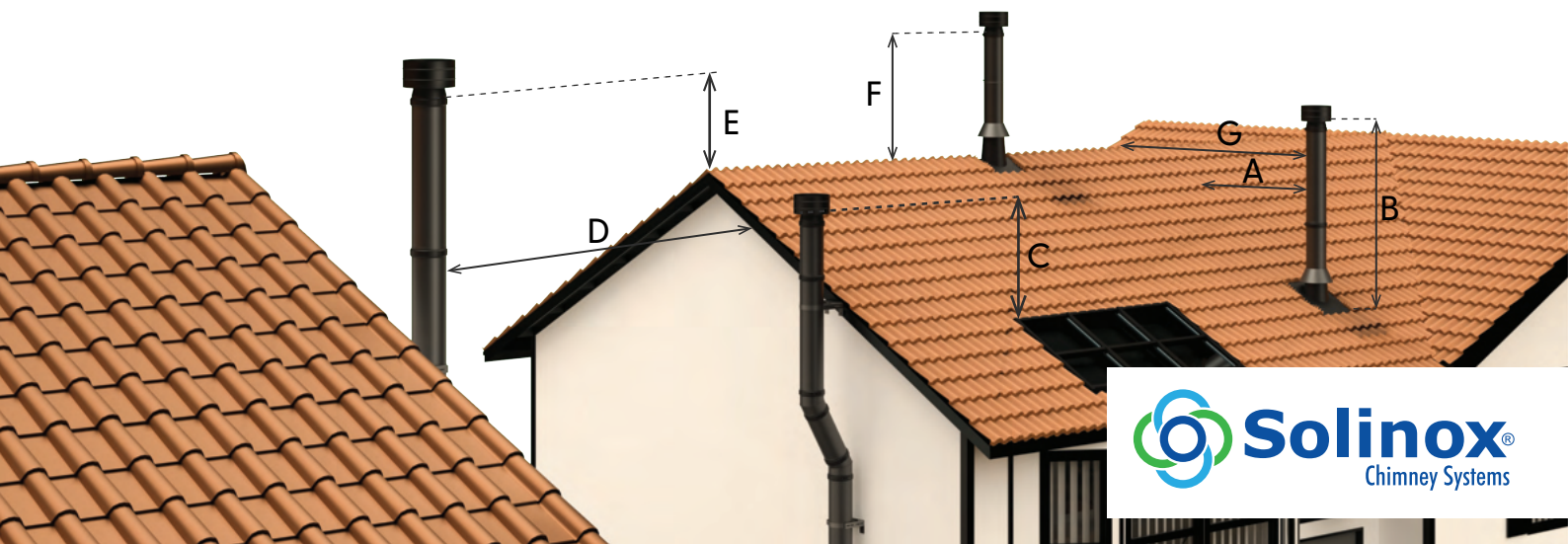
B- 1.0 metre, provided A is satisfied, or 600mm above the ridge if G is less than 600mm.

C- 1.0 metre above the top of any flat roof, and the top of any openable roof light, dormer window or ventilator, etc., if it is located within 2.3 metres.

D/E- If D is less than 2.3 metres, E shall be not less than 600mm.

F- 600mm above the ridge.

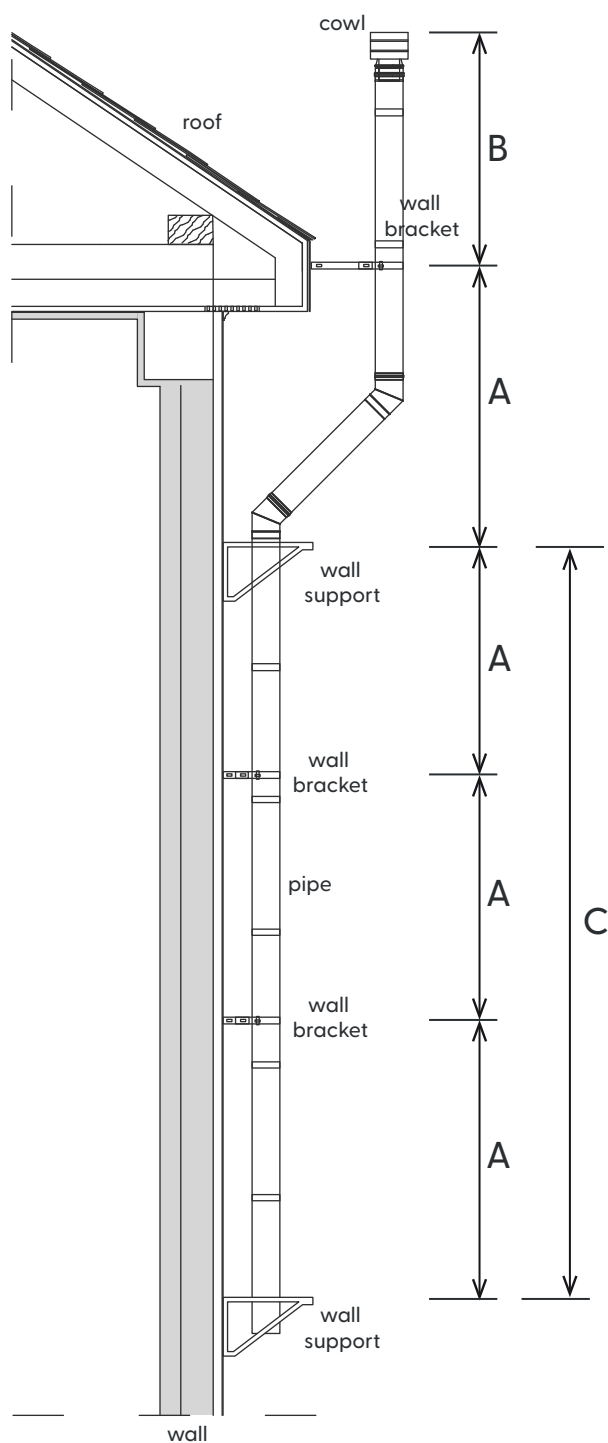
G- If G is within 600mm of the ridge then B shall be 600mm above the ridge.



Wall Support Bracket Technical Information

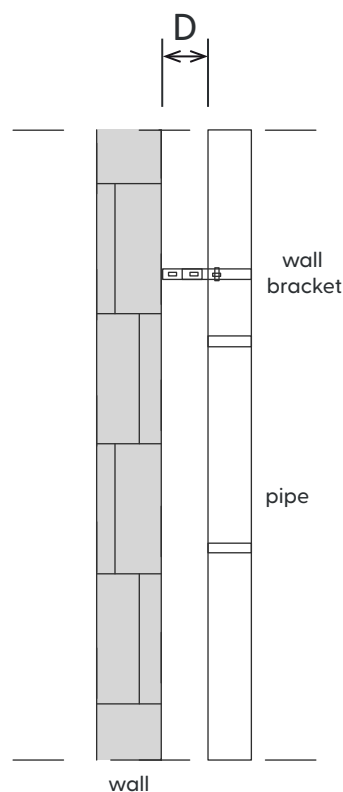
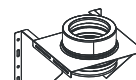
Support configuration and distance between brackets

8



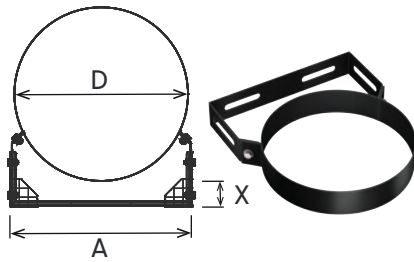
*FREE END: Free end above the last support/ bracket subject to wind is 1.5m but with using a structural locking band it can reach 2.5m

Brackets & Supports



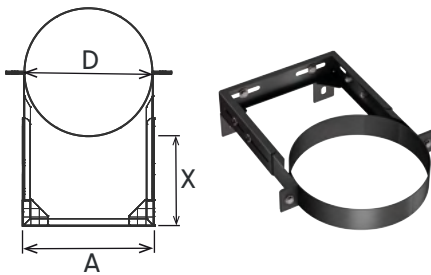
	A	B	C
	distance between each wall bracket	height after last bracket/support	distance between each wall support
max.	3 m	1.5 m *	10 m

	D
	distance of wall bracket
min.	50 mm
max.	350 mm



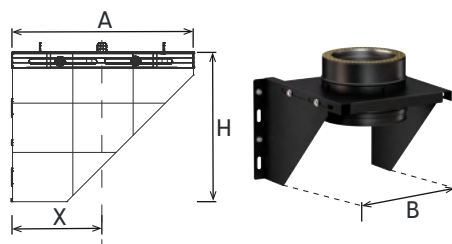
Wall Bracket

d	100	130	150	180	200
D	150	180	200	230	250
A	178	208	228	258	279
X	60 mm				



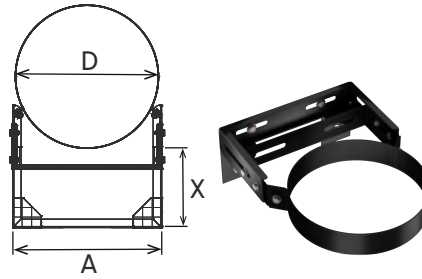
Wall Bracket 21

d	100	130	150	180	200
D	150	180	200	230	250
A	178	208	228	258	279
X	120-210 mm				



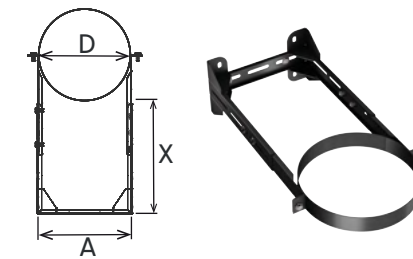
Wall Support

d	100	130	150	180	200
D	150	180	200	230	250
A	210	240	260	290	310
B	270	300	320	350	370
H	210	240	260	290	310
X	- mm (adjustable distance)				



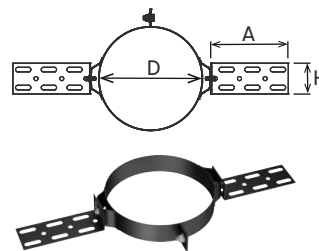
Wall Bracket 11

d	100	130	150	180	200
D	150	180	200	230	250
A	178	208	228	258	279
X	70-110 mm				



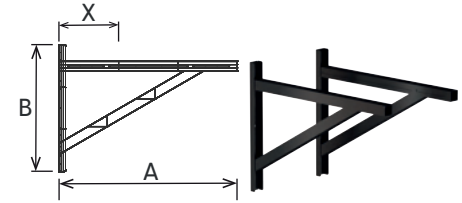
Wall Bracket 35

d	100	130	150	180	200
D	150	180	200	230	250
A	178	208	228	258	279
X	210-350 mm				



Roof Support

d	100	130	150	180	200
D	150	180	200	230	250
A	155 mm				
H	60 mm				



Extension Bracket Set 20

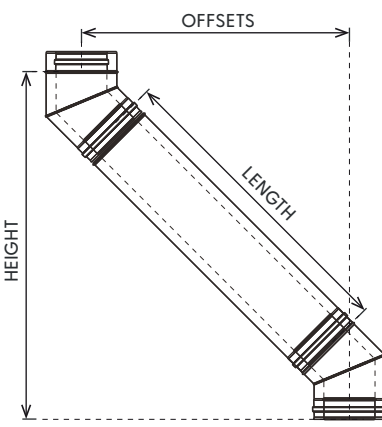
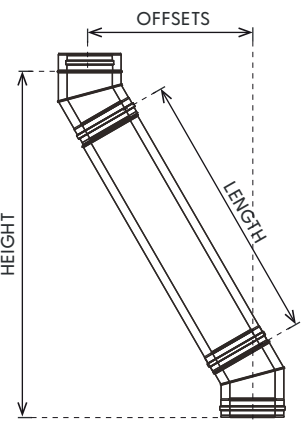
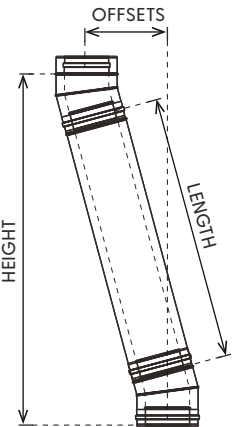
d	100	130	150	180	200
D	150	180	200	230	250
A	430	430	430	500	500
B	320	320	320	335	335
X	50-200 mm				

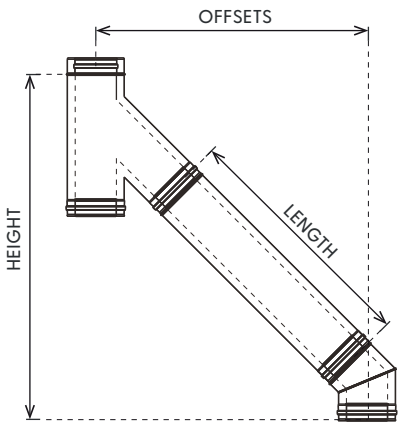
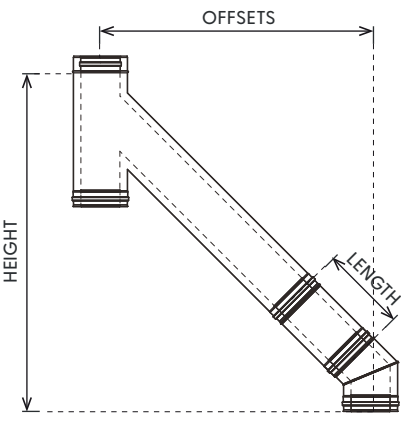
Extension Bracket Set 30

d	100	130	150	180	200
D	150	180	200	230	250
A	530	530	530	600	600
B	378	378	378	393	393
X	50-300 mm				

Extension Bracket Set 40

d	100	130	150	180	200
D	150	180	200	230	250
A	630	630	630	700	700
B	436	436	436	450	450
X	50-400 mm				

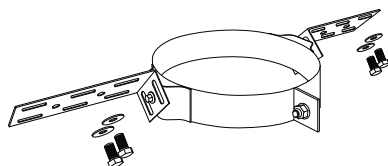
									
	ELBOW 45° + PIPE + ELBOW 45°			ELBOW 30°+ PIPE + ELBOW 30°			ELBOW 15° + PIPE + ELBOW 15°		
Ø	LENGTH	OFFSET	HEIGHT	LENGTH	OFFSET	HEIGHT	LENGTH	OFFSET	HEIGHT
100-150	1000	801	985	1000	555	1120	1000	287	1228
	800	660	844	800	448	937	800	235	1035
	500	448	632	500	305	688	500	157	745
	250	271	455	250	180	471	250	92	504
	none	130	314	none	80	298	none	40	311
130-180	1000	820	1029	1000	566	1162	1000	287	1229
	800	678	887	800	466	988	800	235	1027
	500	466	625	500	316	729	500	158	749
	250	289	499	250	191	512	250	92	504
	none	148	357	none	91	339	none	41	311
150-200	1000	818	1025	1000	566	1163	1000	287	1231
	800	676	884	800	466	990	800	235	1038
	500	464	671	500	316	730	500	157	748
	250	287	495	250	191	513	250	93	507
	none	146	353	none	91	340	none	41	314
180-230	1000	837	1072	1000	567	1166	1000	287	2131
	800	696	931	800	467	993	800	235	1028
	500	484	719	500	317	733	500	143	748
	250	307	542	250	192	517	250	93	507
	none	165	400	none	92	344	none	41	314
200-250	1000	837	1072	1000	566	1164	1000	287	1230
	800	696	930	800	466	991	800	235	1037
	500	487	722	500	316	731	500	157	747
	250	310	545	250	191	514	250	92	506
	none	165	400	none	91	341	none	41	312

						
	TEE 135° + PIPE + ELBOW 45°			TEE 135 LONG + PIPE + ELBOW 45		
Ø	LENGTH	OFFSET	HEIGHT	LENGTH	OFFSET	HEIGHT
100-150	1000	930	1122	1000	1356	1548
	800	778	970	800	1204	1395
	500	577	769	500	1002	1194
	250	400	592	250	825	1017
	none	259	451	none	684	876
130-180	1000	996	1236	1000	1390	1630
	800	855	1095	800	1249	1489
	500	643	882	500	1037	1277
	250	466	706	250	860	1100
	none	325	564	none	719	959
150-200	1000	1000	1228	1000	1407	1636
	800	858	1086	800	1266	1494
	500	646	874	500	1054	1282
	250	469	697	250	877	1105
	none	328	556	none	735	964
180-230	1000	1062	1339	1000	1442	1720
	800	920	1198	800	1301	1578
	500	708	986	500	1089	1366
	250	531	809	250	912	1189
	none	390	667	none	770	1048
200-250	1000	1065	1333	1000	1459	1726
	800	924	1191	800	1318	1585
	500	712	979	500	1105	1373
	250	535	802	250	929	1196
	none	394	661	none	787	1054

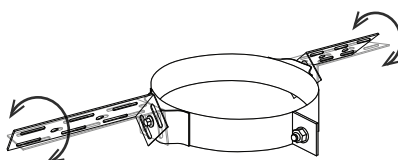
Rafter Support Fixing

1

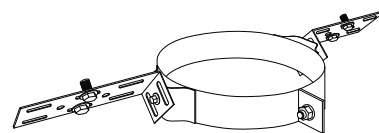
check parts

**2**

finding right angle

**3**

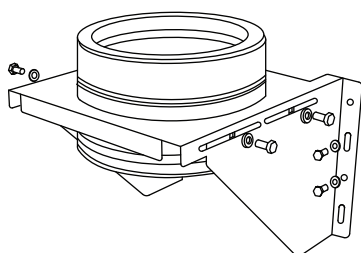
fix it and complete



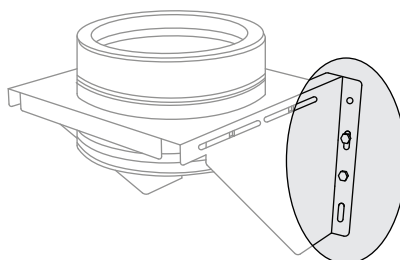
Wall Support Fixing

1

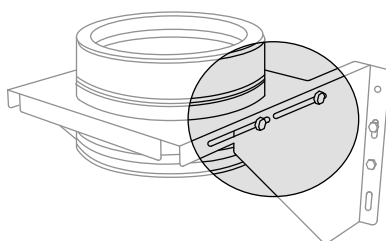
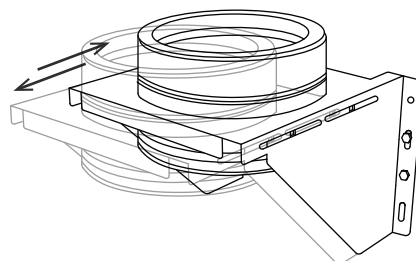
check parts

**2**

fix rear parts

**4**

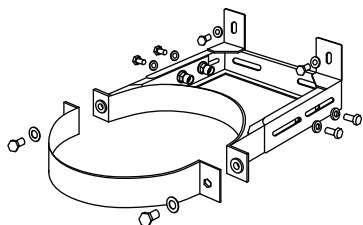
fix it and complete

**3**adjust according to
needed distance

Wall Support Fixing

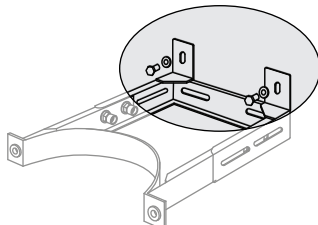
1

check parts



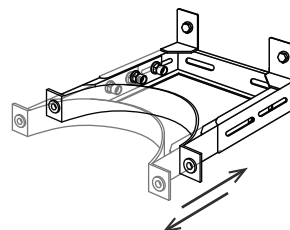
2

fix to wall



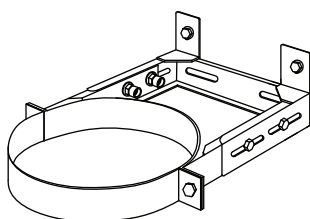
3

adjust the needed distance



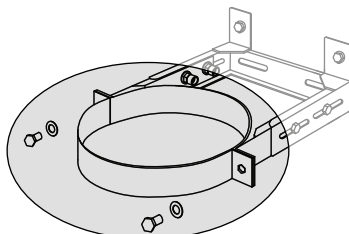
6

complete



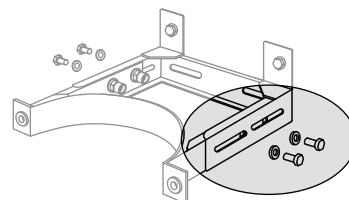
5

plug in the pipe



4

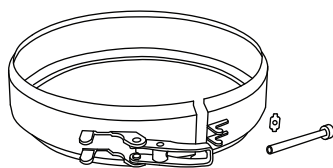
fix it



Locking Band Fixing

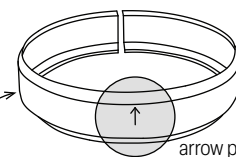
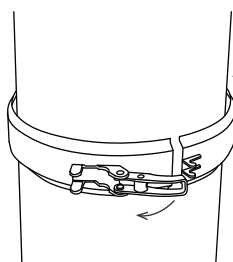
1

check parts



2

after connection put on the band



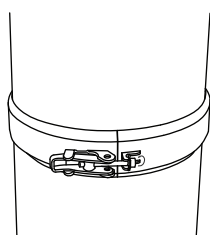
arrow points up

If you can't see the arrow; check the lock direction.



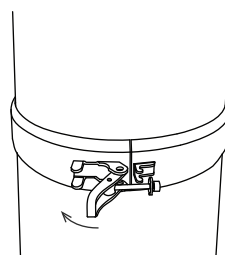
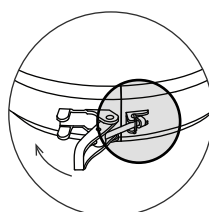
4

tighten it



3

close the toggle



PIPES

Available in 4 lengths and 2 adjustable lengths.
Outside diameter is 50mm greater than the inside diameter.



Pipe
250 mm



Pipe
500 mm



Pipe
800 mm



Pipe
1000 mm



Adjustable Pipe
550-900 mm



Adjustable Pipe
270-470 mm

ELBOWS

5 segment bend.
Outside diameter is 50mm greater than the inside diameter.



15° Elbow



30° Elbow



45° Elbow



87° Elbow



90° Elbow

TEE MODULES

The 90° Tee is usually installed when you are connecting the flue to the rear outlet of an appliance. The 135° Tee is used when you need a cleaning access at the base of the chimney. Outside diameter is 50mm greater than the inside diameter.



Tee 87°



Tee 90°



Tee 135°



Tee 135°
Long

COWLS

Available in 4 types.
Used on chimney ends.



Wind Cowl S



Anti Wind Cowl



Wind Cowl



Rain Cowl

ADAPTERS

Connects 2 different types or sizes of pipes. The starter pipe or adaptor is used at the stove outlet.



SW to TW
Adaptor



TW to TW
Adaptor



TW to Flex
or
Flex to TW
Adaptor



Starter Pipe
500 mm



Starter Pipe
1000 mm

By visiting our website, you can obtain detailed information about the products and their sizes from the catalog.

BANDS BRACKETS

Used for fixing the chimney.



Rafter Support



Wall Bracket



Wall Bracket 11



Wall Bracket 21

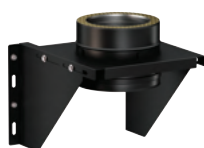


Wall Bracket 35

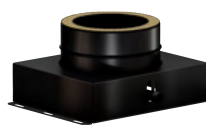
SUPPORTS



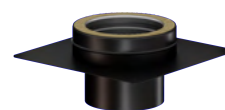
Extension Bracket



Wall Support
With Pipe



Base Support
With Drain



Outlet Plate

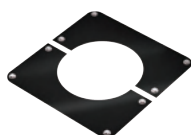


Anchor Plate

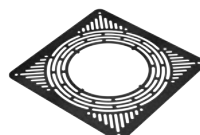
ACCESSORIES



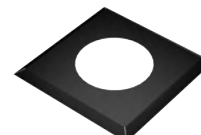
Oval Wall Plate



Wall Plate



Fire Stop Plate



Magnetic
Cover Plate



Structural
Locking Band



Locking Band



Guy Wire
Bracket



Hold-Down
Clamp



Storm Collar

MEASURING- CLEANING GROUP



Test Unit
250 mm



Pipe With
Inspection Door



90° Elbow
With Inspection

Project Planning Sketch

DATE OF INSTALLATION:

INSTALLERS:

PROJECT DETAILS:





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