



Installation Instructions



1 General information

1.1 Introduction

This chimney must be installed in accordance with all these instructions. Ensure that all chimney components are available and check them to ensure there has been no damage before assembly. Do not use damaged or modified components.

Use appropriate personal protective equipment when carrying out the installation.

This instructions document does not consider information about chimney sizing. The diameter of the chimney should be according to the appliance manufacturer instructions and the standard EN-13384-1.

Only for UK. To the installer: Remember your responsibilities under the Health and Safety at Work etc. Act 1974, specially to possible exposure to dangerous substances, in particular to the caustic nature of fire cement and the possibility of disturbing asbestos in older properties.

1.2 Applicable standard

Metal chimney system AVANT 25, model KW and KX, is CE certified according to EN 1856-1, number 0099/CPR/A71/0105.

1.3 Distance to combustible materials

A minimum distance must be maintained between the external wall of the chimney and any combustible materials. The minimum distance is:

50mm	For solids fuel instalations [G(50)]
10mm	For gas or gas oil fuel installations with flue gas temperature less than 200°C [O(10)]

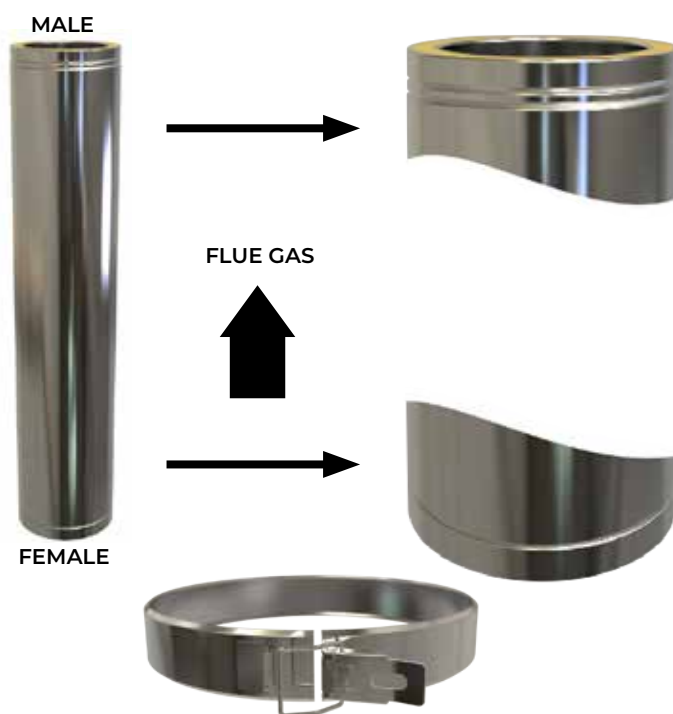
1.4 Jointing system

The assembly of all components is made with a male-female system. The male end of each component is on the top and the female end on the bottom part, see Figure 1.

The joint between both elements must be fixed with the locking band. The locking band is made of stainless steel and is fitted with a quick release clip. The locking band is supplied with each component with a female end.

1.5 Pipe 1 metre weight

Code	Ø Interior (mm)	Ø Exterior (mm)	Weight (kg)
KWT108	80	130	4,3
KWT110	100	150	5,1
KWT112	125	175	6,1
KWT115	150	200	7,1
KWT117	175	225	8,6
KWT120	200	250	9,7
KWT125	250	300	11,8
KWT130	300	350	13,9

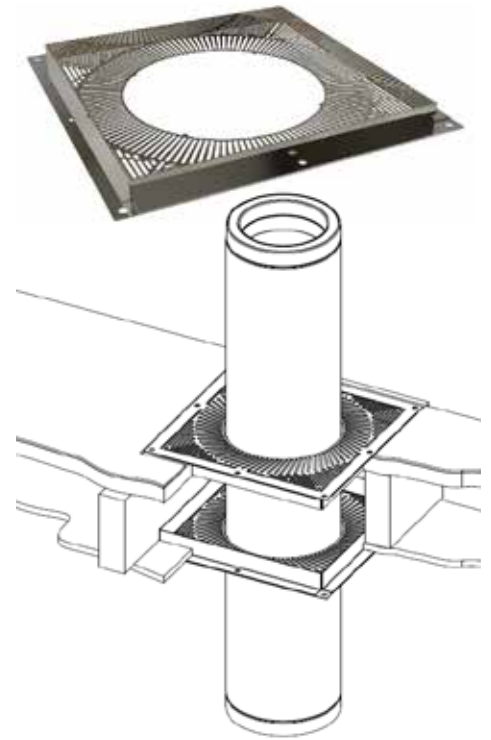


2 Firestop components

Ventilated firestop plate. This component is used where the chimney passes through a combustible floor or ceiling. This plate gives the required 50 mm distance from the external part of the chimney to combustible materials. The slots let a suitable ventilation to avoid heat accumulation inside the framing or the enclosure of the chimney.

The firestop plate should be positioned around the chimney. The external flaps should stand over the floor or ceiling and each corner must be secured to the floor or ceiling with screws using the holes provided.

The figure (right) shows an example of firestop plates installation.



3 Assembly with silicone seal

The chimney should be installed with silicone seals when the flue gas outlet is by forced draught (positive pressure). Each joint between chimney elements must have a silicone seal.

Figure 2 and Figure 3 - Before assembly each component the seal must be placed on the corresponding site with the two lips outside. These two lips must be lubricated with soap around the entire perimeter.

Figure 4 - Each component is connected with the previous one as shown. The joint between both elements must be fixed with the locking band.

Figure 2

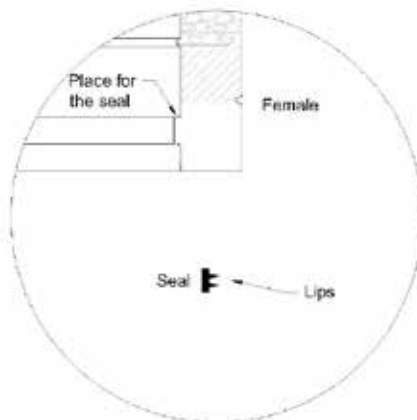


Figure 3

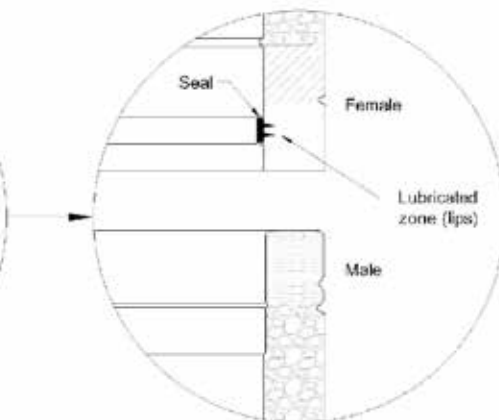
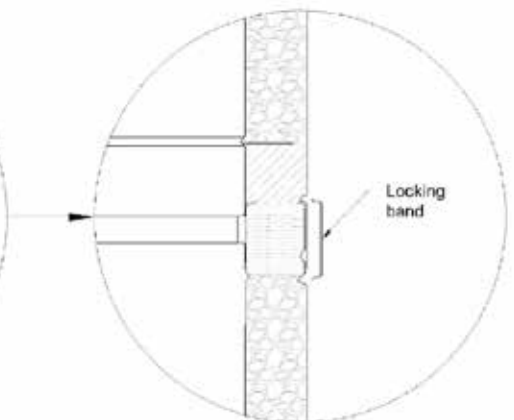
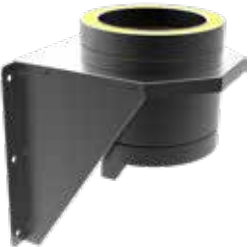
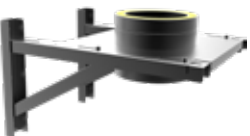


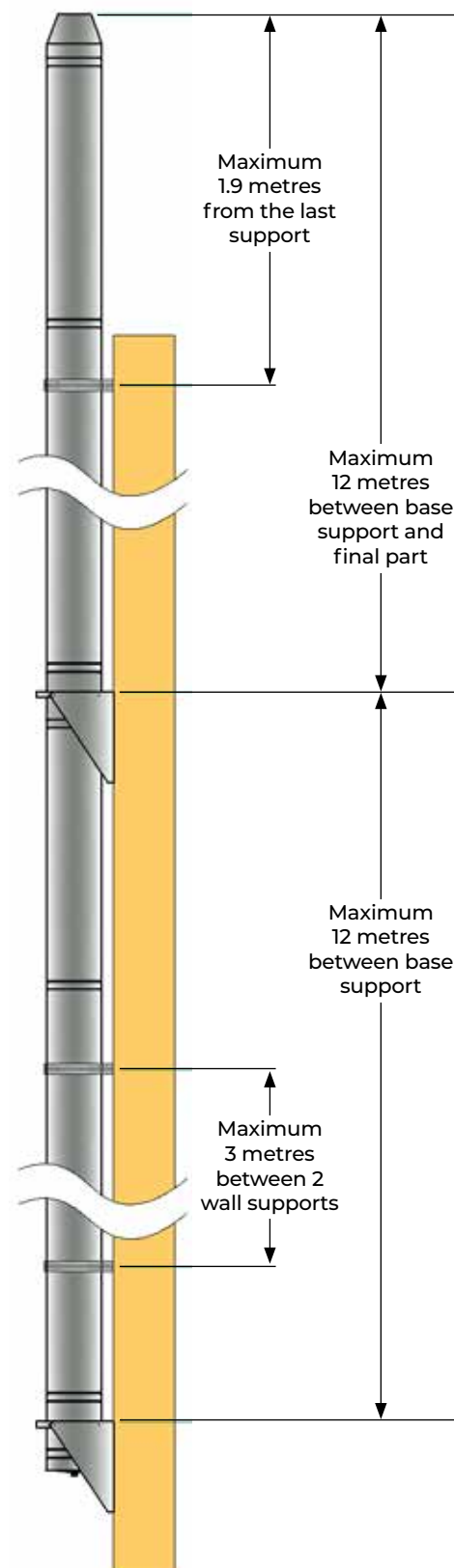
Figure 4



4 Supports

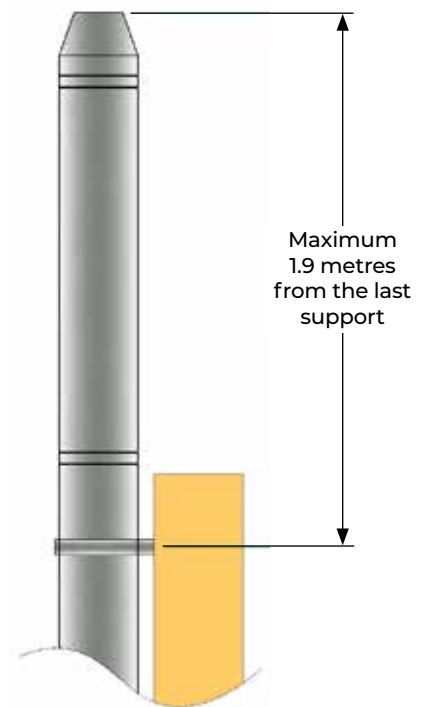
4.1 Vertical load supports

	Name	Wall distance	Distance between supports
	Base support	50 - 80mm	12 m
	Adjustable base support	80 - 280mm	12 m
	Consule plate		12 m
	Base support	120 - 375mm	Ø130 ÷ Ø225 9 m Ø250 ÷ Ø350 6 m
	Roof support		1.5 m
	Reinforced roof support		3 m
	Joist support		3 m
	Horizontal support		2 m



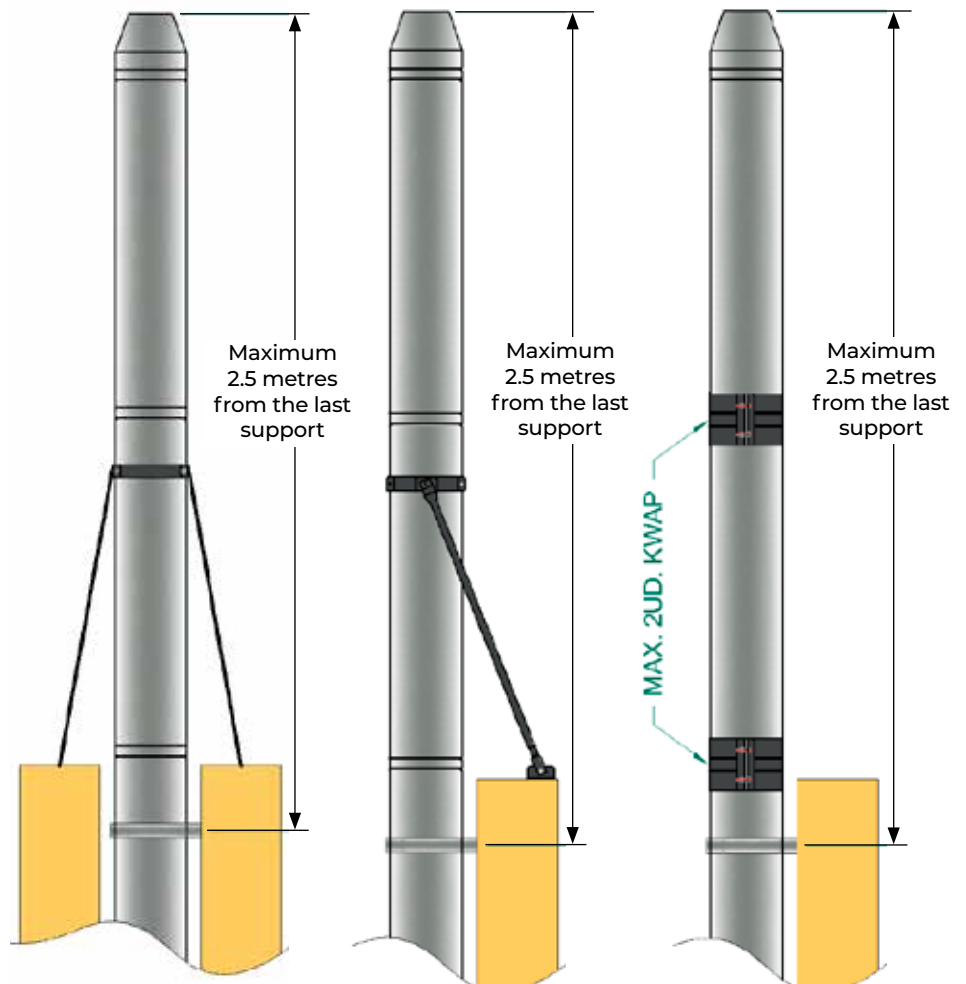
4.2 Lateral wind supports

	Name	Wall distance	Distance between supports
	Wall support	50 - 80mm	3 m
	Wall support	80 - 130mm	3 m
	Wall support	130 - 210mm	3 m
	Wall support	80 - 440mm	3 m



4.3 Freestanding supports

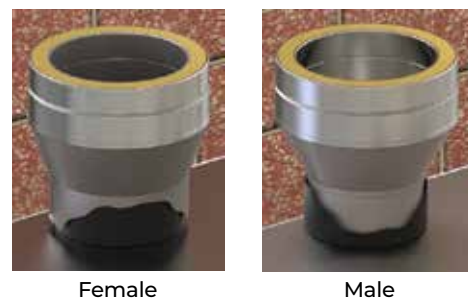
	Name
	Anti-wind locking band
	Roof brace kit
	Structural locking band



5 Appliance adaptors

This component is used to join the chimney to the boiler. It has a simple wall that makes the connection. This side can fit inside (male) or outside (female) the boiler pipe.

In condensation installations the appliance adaptor must be male to avoid condensate leaks. It is necessary to apply refractory sealant in the connection to avoid the flue gas leak.



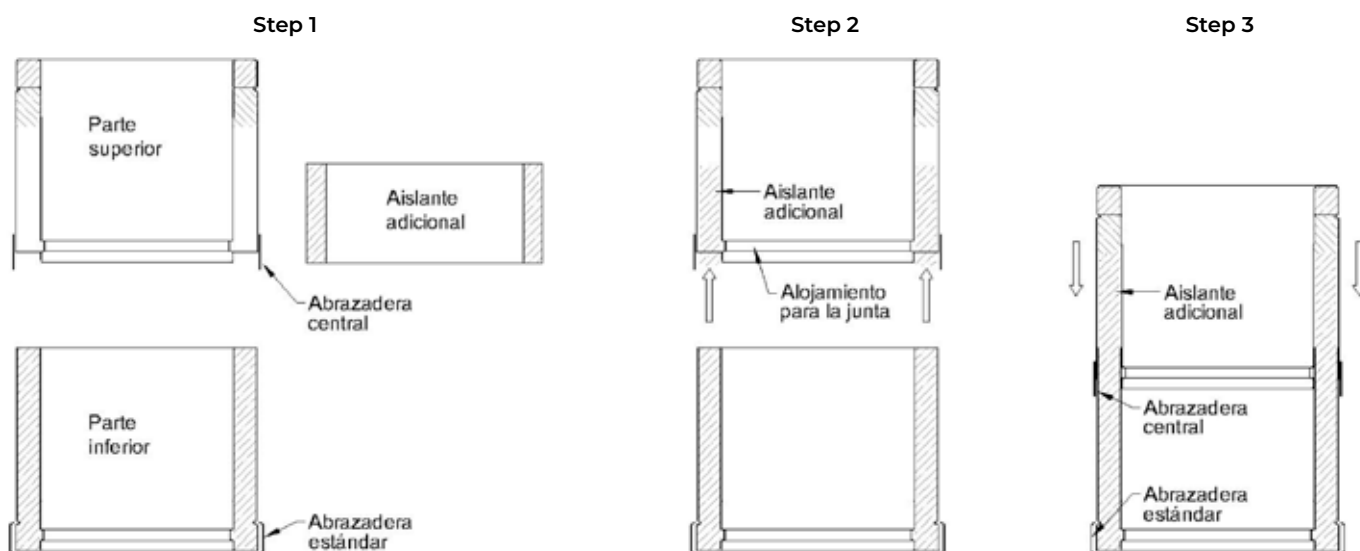
6 Adjustable lengths

The adjustable length consists of the upper part (with the central locking band welded), the lower part, the standard locking band and the additional insulation. Next steps are necessary to obtain the length required.

ATTENTION: Anti-cut gloves must be used to minimize risk.

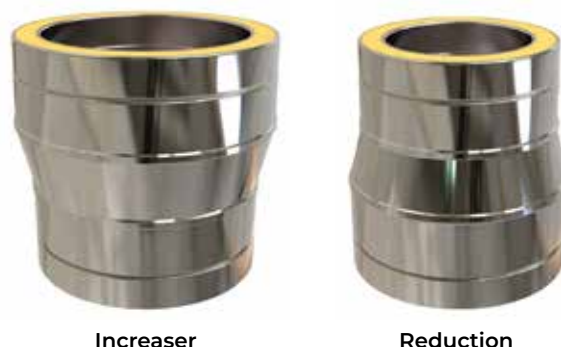
STEP 2 - Cut the additional insulation with a knife to the appropriate length (effective length required - minimum length) and insert it into the upper part of the adjustable. If the installation includes seals (for positive pressure), place the seal on the corresponding site and lubricate the seal with soap.

STEP 3 - Connect the two parts of the adjustable. Fix the central locking band over the centre of the two parts of the adjustable.



7 Increasers and Reductions

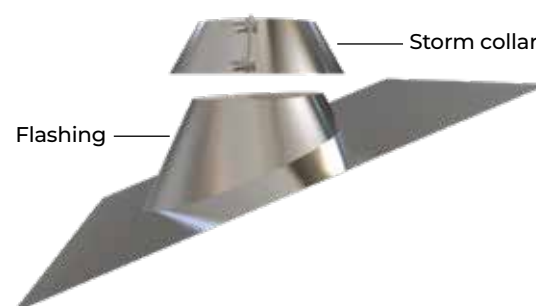
These components are used to make changes in the section of the chimney. We talk about increasers when it changes the diameter to a bigger one (following the flue gas direction), in the opposite we talk about reductions. Both components are shown in the mounting position.



8 Flashing and storm collar

This component is used to prevent water seepage through the chimney hole on the roof. The flashing has to be installed like a roof tile (the upper side has to be under the superior roof tile and the lower side has to be over the inferior roof tile).

The storm collar has to be installed fitting the chimney pipe and then pushing down to the flashing, then the junction between the pipe and the storm collar has to be filled with outdoor silicone.



9 Caps and Terminals

These components are used to finish the chimney. Its geometry depends on the mounting orientation (vertical / horizontal) and the special function of each cap or terminal. Main types are shown below:



1. Standard cap. This cap offers rain protection inside the chimney. Also can incorporate an anti-bird mesh.



2. Cone. Free output cap.



3. Anti-wind cap. This cap offers and extra protection against the wind to facilitate the chimney draught.



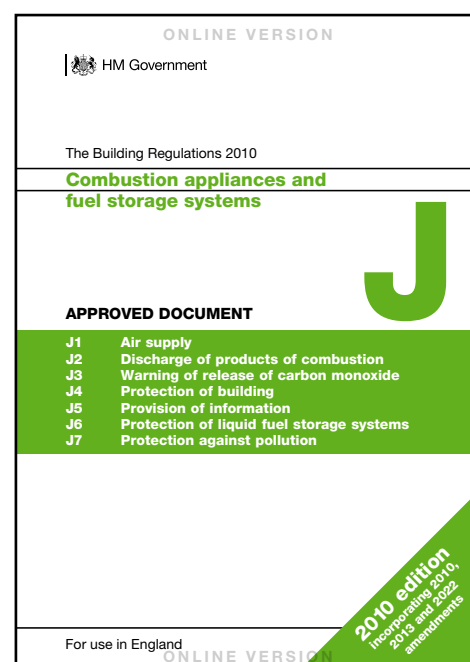
4. Horizontal terminal. This terminal is used to finish the chimney when it ends horizontally.

10 Outlet siting

Please refer to 'The Building Regulations 2010 Combustion appliances and fuel storage systems Approved Document J'.

This is located on the website in the 'Literature' section.

<https://www.mi-flues.com/Brochures/>



Vertical Load Supports

Product	Øint	[In metres of pipe]	
		Load above	Load below
Base Support Plate 	080	12	3
	100	12	3
	125	12	3
	150	12	3
	175	12	3
	200	12	3
	250	12	3
	300	12	3
Adjustable Base Support 80-280mm 	080	12	3
	100	12	3
	125	12	3
	150	12	3
	175	9	3
	200	9	3
	250	6	3
	300	6	3
Console Plate 	080	12	3
	100	12	3
	125	12	3
	150	12	3
	175	12	3
	200	12	3
	250	12	3
	300	12	3
Joist Support 	-	4	-
	-	4	-
	-	4	-
	-	4	-
	-	4	-
	-	4	-
	-	4	-
	-	4	-
Roof Support 	-	2	-
	-	2	-
	-	2	-
	-	2	-
	-	2	-
	-	2	-
	-	2	-
	-	2	-

Lateral Supports

Product	Øext	[Metres]
		Distance
Wall Band 50-80mm 	130	3
	150	3
	175	3
	200	3
	225	3
	250	3
	300	3
	350	3
Wall Band 80-130mm 	130	3
	150	3
	175	3
	200	3
	225	3
	250	3
	300	3
	350	3
Wall Band 130-210mm 	130	3
	150	3
	175	3
	200	3
	225	3
	250	3
	300	3
	350	3
Wall Band 210-420mm 	130	3
	150	3
	175	3
	200	3
	225	3
	250	3
	300	3
	350	3