

General Information

- All installations must be in accordance with local and national building regulations and where the equipment served exceeds 150kW, the Clean Air Memorandum if appropriate.
- To conform with the Building Regulations to ensure that either an Inspection Length or an Insulated Tee is used to provide easy access to the chimney for inspection and cleaning (unless this inspection and cleaning can be done through the appliance).
- The chimney internal size must conform to the requirements of the appliance manufacturer's instructions and should not be less than the diameter of the appliance outlet. The height of the chimney will depend on the building structure, however, less than 4.5 metres from the top of the appliance to termination is considered the minimum height for solid fuel use.
- No alteration or cutting of any chimney section and associated fitting shall be acceptable. Sections and components are easily pushed together and then twist-locked, locking bands are then used to secure. Make sure that the lengths & fittings are installed the right way up, with the male coupler uppermost. Once assembled, Locking Bands must be fitted to every joint. No special tools or sealing compounds are required.
- Where used with SOLID FUEL or OIL appliances producing flue gas temperatures exceeding 200°C, the clearances at floor/ceiling joists must be established using the CF Ventilated Firesrop plates and radiation shield, this component incorporates spacers which are designed to provide a minimum 50mm air gap clearance from combustibles. This distance MUST be maintained throughout the system between the outer case of the chimney and any combustible materials. Do not place any additional insulation material around any part of the chimney, and in all cases, the system must be designed so that no joints between chimney elements occur within the thickness of a floor space. Where used with GAS appliances with flue gas temperatures of less than 200°C, a minimum air gap clearance must be maintained between combustibles and the outside skin. For installation and access reasons, the support components provide a 50mm clearance to adjacent structure, but this can be reduced to 30mm if required.
- Joints between floors. The selection of chimney elements should be made so that no joints occur within the thickness of a floor space, or within 150mm of floor/ceiling.
- 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 both damage and the accidental location of combustible materials 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. Any such enclosure must be constructed of materials and applied in such a way that they can be considered as providing access to the chimney. The correct distance to combustible material should be maintained.
- No part of the system should be constructed at an angle greater than 45° from the vertical. Unless it is necessary to make the connection to an appliance. The latter arrangement can be constructed using the 135° Tee as illustrated in these instructions. Where a change of direction or offset is required, 15°, 30° and 45° Elbows can be used within the limitations mentioned earlier. Building Regulations will not permit more than one offset in any chimney run. However, that excludes any Elbows used to make the connection to the appliance. Where an offset is used, the length of chimney between two elbows MUST NOT exceed 20% of the total length of the chimney.
- The chimney must be adequately supported with the CF support components. Where externally used, the chimney must be supported on a wall. The external support components must be used at intervals depending on the load-bearing criteria for individual components. Wall Bands are not load-bearing and should be provided at intervals not exceeding 2 metres for lateral stability only.
- Where an external installation requires the chimney to offset past a roof overhang, Elbows should be used to form an angle as shallow as possible.
- Connection to the appliance can either be direct using the Adaptor or a length of flue pipe can be connected to the Adaptor. In all cases, all joints between flue pipes / appliance outlets / chimney must be securely caulked and sealed with fibre rope (or suitable alternative) and fire cement. Any flue pipe connection to the chimney must be made in the same room as the appliance.
- The outlet of the chimney must comply with Building Regulations, under most circumstances, the above regulations will permit the normal operation of the chimney. However, if it is necessary to extend the chimney beyond 1.5 metres above the roof or last support, such extension must be provided with additional support. A Guy Wire Bracket should be clamped to the chimney for this purpose, to which rigid stays, preferably angle iron, should be connected.

PLEASE REFER TO INSTALLATION INSTRUCTIONS

Our policy is for continuous product development and the information contained within this leaflet may change without notice. Whilst every effort has been made with regard to the accuracy of both the information and measurements, we cannot be held responsible for any errors and/or omissions.



PREFABRICATED TWIN WALL CHIMNEY SYSTEM

Flue-Stox

Chimney specialists...



Report No. 50348/1

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Product Description

CF is a prefabricated twin-wall insulated chimney system, tested at BSRIA Report No. 50348/1 and complies with the requirements of BS EN 1856-1 T450-N1-D-Vm-L50050-G50. It is manufactured with a 316 grade stainless steel liner and a 304 grade outer casing. The 25mm cavity is filled with a high quality ceramic fibre ensuring optimum performance. The inner liner is free to expand or contract as the flue gas temperatures change without affecting the load bearing outer case. The Lengths and fittings have male and female couplers which are simply pushed together and then twist-locked, locking bands are then used to secure.

CF can be used internally and externally and with the high quality insulation the smooth stainless steel liner heats rapidly to produce a strong draught which ensures that waste gases are exhausted rapidly and condensation of the harmful products of combustion is minimised.

Application

It is suitable for both domestic and commercial applications on appliances burning all types of fuel with flue-gas temperatures up to 450°C under continuous firing. The CF system was designed primarily for oil and gas fired appliances, but is equally suitable for atmospheric or pressure jet appliances. It is also suitable for solid fuel but care should be taken to follow the relevant installation instructions. The system is not designed for use with condensing or pressure applications.

Quality and Standards

All installations must be in accordance with local and national building regulations and where the equipment served exceeds 150kW, the Clean Air Memorandum if appropriate together with:-

- BS EN 1856-1
- BS7566: The British Standard for the installation of factory made chimneys to BS4543 for domestic appliances.
- BS871: The British Standard for the installation of gas fires, converter heaters, fire/back boilers and decorative fuel effect fires.
- BS6461: The British Standard for the installation of chimneys and flues for domestic appliances burning solid fuel.
- BS7566 - BS5440 - BS6644 and the appliance manufacturers instructions

The CF chimney system consists of straight lengths and associated fittings in sizes 125mm, 150mm, 175mm & 200mm internal diameters.

All lengths and fittings are provided with male and female couplers which lock together with a twist-lock action. The components are designed to be installed with the male coupler facing upwards. All joints should be pushed together and then twist-locked, locking bands are then used to secure.

Adjustable lengths are available having an adjustment of between 295mm - 525mm. They are used to provide flexibility between two fixed points or to assist with removal of the appliance for servicing etc.

They are not load bearing and because the application and therefore performance cannot be accurately controlled it should be kept to a minimum of 300mm from any combustible material.

1000mm Length



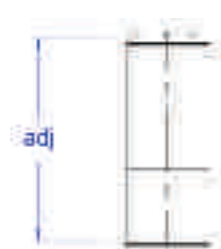
500mm Length



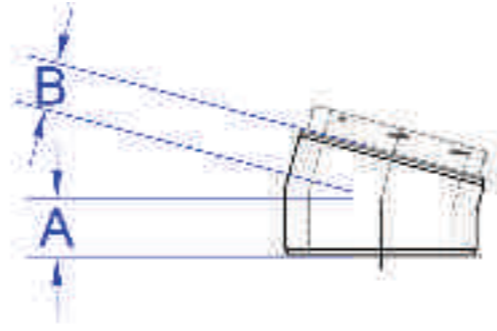
200mm Length



Adjustable Length

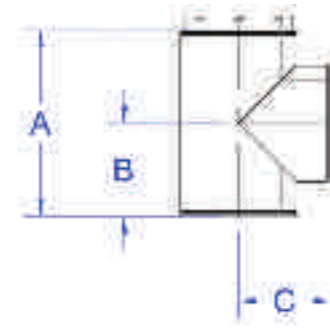


15 Degree Bend



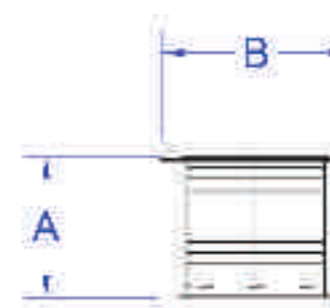
Dia	A	B
125mm	60	47
150mm	60	47
175mm	60	47
200mm	60	50

90 Degree Tee c/w Tee Cap



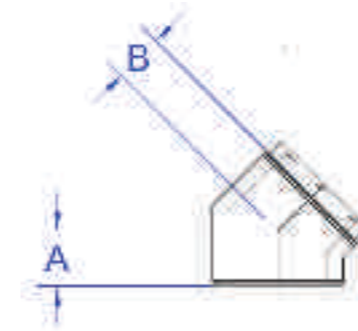
Dia	A	B	C
125mm	243	125	125
150mm	322	162	162
175mm	350	175	175
200mm	389	195	190

Raincap



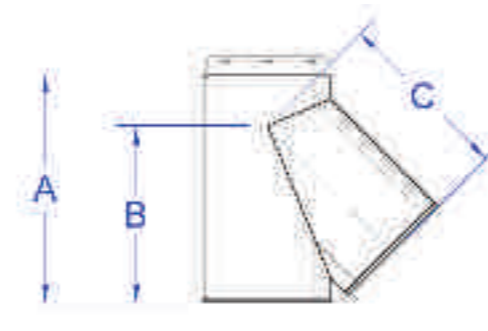
Dia	A	B
125mm	150	230
150mm	195	260
175mm	205	300
200mm	220	347

45 Degree Bend



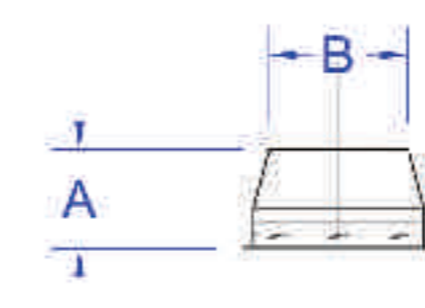
Dia	A	B
125mm	75	72
150mm	80	72
175mm	90	83
200mm	95	85

135 Degree Tee c/w Tee Cap



Dia	A	B	C
125mm	335	260	260
150mm	362	280	280
175mm	414	326	326
200mm	442	370	360

Tapered Stub End



Dia	A	B
125mm	230	125
150mm	230	150
175mm	230	175
200mm	230	200

Support

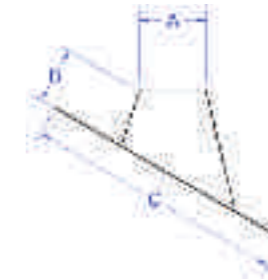
CF must be independently supported with none of the load being taken by the appliance or any overload of the individual components and all being dependent on the total height and configuration of the flue. Wall support brackets are designed for either internal or external use, they should be used at intervals not exceeding 6m. Wall fixing brackets offer lateral support giving an adjustable clearance of 50mm - 100mm, they should be used at intervals not exceeding 2m. Where the chimney is free standing above a roof and its height exceeds 1.5m beyond the last support, a guy wire bracket, preferably in conjunction with bracing rods must be used.

Wall Bracket



Dia	A	B	C	D
125mm	185	150	135	210
150mm	210	150	135	210
175mm	235	150	135	210
200mm	260	150	135	210

Adjustable Flashing

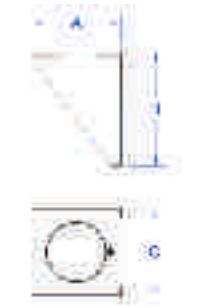


Dia	A	B	C
125mm	185	150	800
150mm	210	150	800
175mm	235	150	800
200mm	260	150	800

Clearances to Combustible Material

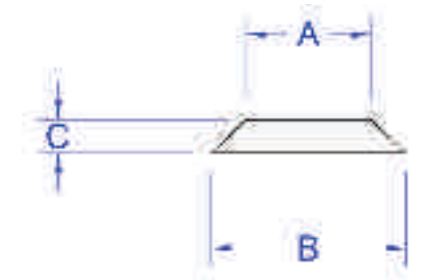
Under normal operating conditions, with a low outer casing temperature, the system permits installation with a clearance of 50mm to combustible materials using a standard firestop plate. However where a chimney passes through a floor or ceiling and serves a solid fuel, gas or oil fired appliance with a flue gas temperature in excess of 200°C the relevant Ventilated Firestop Plate and Radiation Shield MUST be used to maintain the 50mm distance to combustible material. Please refer to our installation instructions.

Wall Support



Dia	A	B	C
125mm	268	300	268
150mm	293	350	293
175mm	318	400	318
200mm	344	440	344

Storm Collar



Dia	A	B	C
125mm	175	245	70
150mm	200	270	70
175mm	225	295	70
200mm	250	320	70

Ventilated Firestop Plate



Dia	A
125mm	346
150mm	373
175mm	395
200mm	395