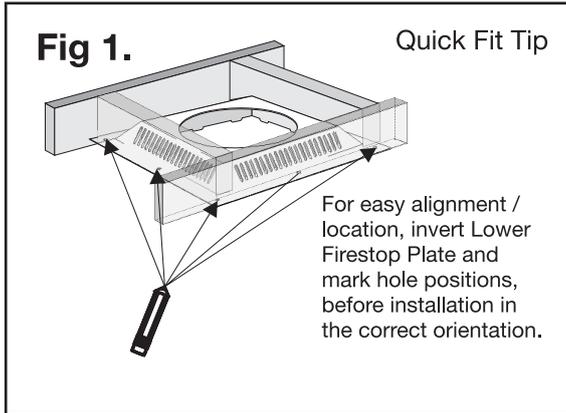


## VENTILATED CEILING SUPPORT

This component **MUST** always be used with **SOLID FUEL** or **OIL** appliances where the flue gas temperature exceeds  $250^{\circ}\text{C}$  ( $>T250$ ), and where passing through the first combustible floor above the heating appliance. Where a flue pipe is used to connect to the chimney at ceiling level, the chimney **MUST** project downward into the room by at least 150mm, or as directed by the installation instructions of the connecting flue pipe. The kit maintains a 50mm clearance from combustible materials and consists of three items:-

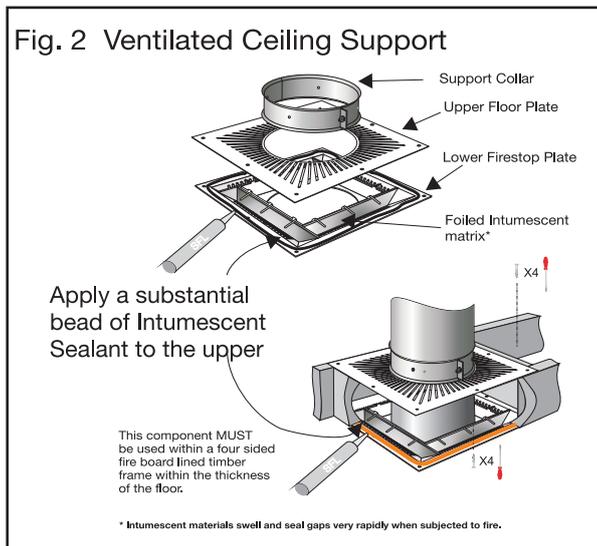
A Support Collar and four self tapping screws, an Upper Floor Plate, and a Lower Firestop Plate which includes a pre-fixed foil encapsulated intumescent\* matrix which **MUST NOT BE REMOVED OR MODIFIED IN ANY WAY**.

1. Establish the required chimney centre line, and construct a four sided fire board lined square hole in the floor, dimensioned as Table A. For easy alignment, invert the Lower Firestop Plate and press into the pre-made square hole and mark the hole positions before removing, See Fig. 1.



Before securing the Lower Firestop Plate, apply a substantial bead of separately supplied Intumescent Sealant to the upper surface of the plate, see Fig. 2. Position the Lower Firestop Plate to the frame using the pre-marked hole fixing positions from Fig.1. Once in position, secure the plate to the frame using 8 screws. From above check that no damage has occurred to the Intumescent matrix and that it is correctly located within the Lower Firestop Plate. Next align and position the 3mm Upper Floor Plate so that all four sides of the frame locates on the inside of the pre-made wooden frame. Making sure that it is concentric to the Lower Firestop Plate, secure the Upper Floor Plate to the frame using 8 screws.

2. Clamp the Support Collar around the chimney length and tightly secure in the required position with the nuts and bolts supplied. Use and firmly tighten the four self tapping screws provided by securing them to the chimney outer wall through the holes located in the Support Collar, after carefully drilling 3mm holes through the chimney outer skin. Be careful not to allow the drill to penetrate the inner liner. Lower the assembly through the plate until the Support Collar is supported on the Upper Floor Plate and there is a minimum of at least 150mm projecting past the underside of the ceiling. Ensure that there is equal radial clearance around the chimney where it passes through the Ventilated Ceiling Support. This component can support up to 6 metres of product. A degree of manipulation of the chimney may be required to pass through both plates due to the tight clearance required between the plate and the outer case of the chimney.



The SFL Ventilated Support Components shown below are of Patented Design as UK Patent 2388651.

Community Design Registration No. 000982038-0001 / 0002

These Installation Instructions apply to all Omega DW/PLUS, SMW, SM250 and Nova SM installations applied internally where used over Solid Fuel or Oil fired appliances where the flue gas temperature exceeds  $250^{\circ}\text{C}$  ( $>T250$  BS EN 1856-1) and/or where the system passes through a combustible floor or ceiling.



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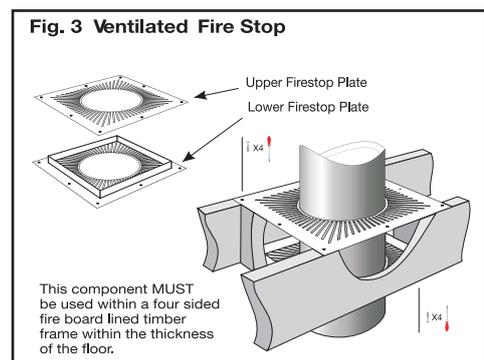
The Ventilated Support Plate has undergone a fire resistance and penetration test in accordance with **BS 476: Pt 20** and has demonstrated an integrity of **51 minutes fire resistance within a representative wooden structure. Test Report 175995.**



## Ventilated Firestop

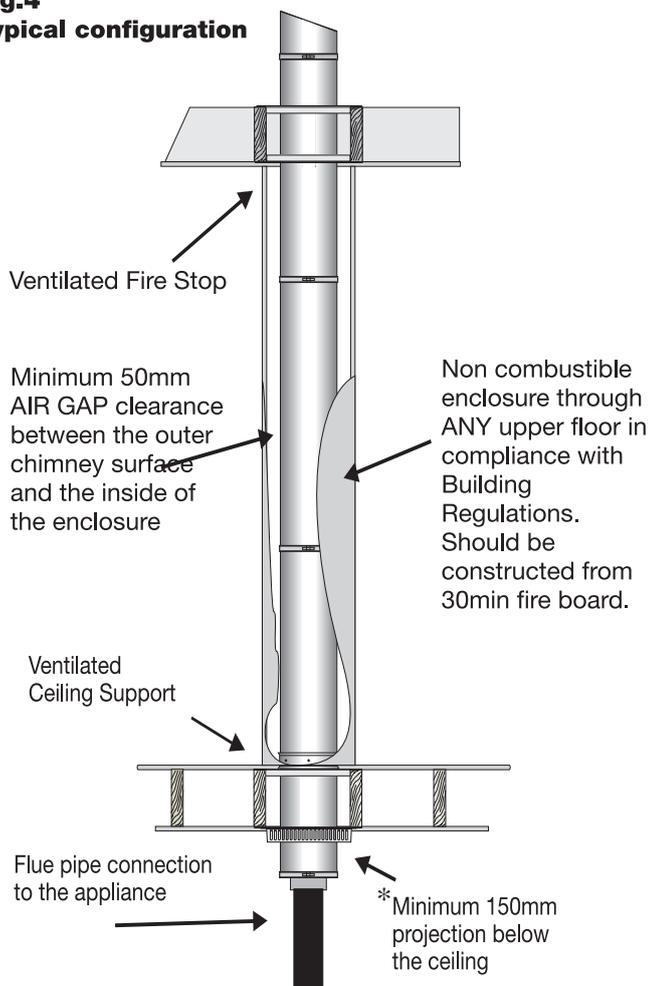
This component **MUST** always be used with **SOLID FUEL** or **OIL** appliances producing flue gas temperatures exceeding  $250^{\circ}\text{C}$  ( $>T250$ ), and where the system passes through combustible floors and when at the same time, the section of chimney below the floor penetration is enclosed, which it must be when passing through upper floor rooms or cupboards. Such an enclosure should be fire rated for 30 minutes. The kit maintains a 50mm clearance from combustible materials and consists of two 1mm Ventilated Firestop plates. This component does **NOT** load bear.

3 Establish the required chimney centre line, and construct a four sided fire board lined square hole in the floor, dimensioned as Table A. Position the first Firestop Plate on the top of the floor so that all four sides of the metal frame locates inside of the pre-made wooden frame and adequately secure it to the top of the frame using 8 screws. Locate the second Firestop Plate on the underside of the penetration so that so that all four sides of the metal frame locates inside of the pre-made wooden frame and adequately secure it to the bottom of the frame using 8 screw, see Fig 3. The chimney can now be passed through the completed assembly. Ensure that there is equal radial clearance around the chimney where it passes through the Ventilated Firestop Plates. This component does not load bear.



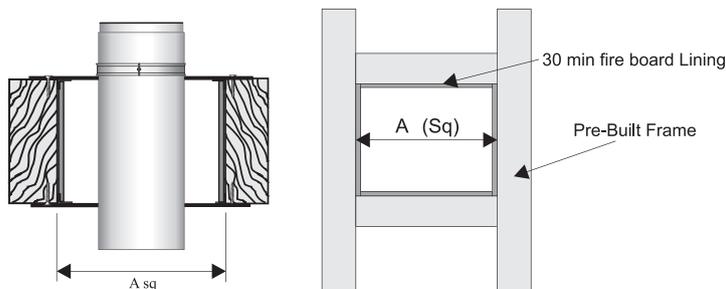
Where serving a solid fuel or oil fired appliance where the flue gas temperature is likely to exceed 250°C, any part of the chimney which passes through any other room other than that where the appliance using the chimney is situated, should be protected to prevent damage and accidental contact of combustible material against the outer case of the product. It is a Building Regulation requirement that ANY factory made insulated chimney should be enclosed where passing through a cupboard, storage space, habitable room or accessible roof space. For this reason the chimney should be enclosed within a non-combustible / plasterboard enclosure, maintaining a minimum of 50mm clearance to any combustible material. Where passing into an uninhabited attic space, adequate provision must be made to ensure that combustible materials cannot be accidentally located within the declared distance to combustible. This could be achieved by using a suitable guard or mesh around the chimney. Under NO circumstances must there be a joint within the thickness of any floor / ceiling space. For further information refer to Fig. 4.

**Fig.4**  
**Typical configuration**



\* This distance may be subject to the individual installation instructions for the connecting flue pipe.

**FRAMING DATA**

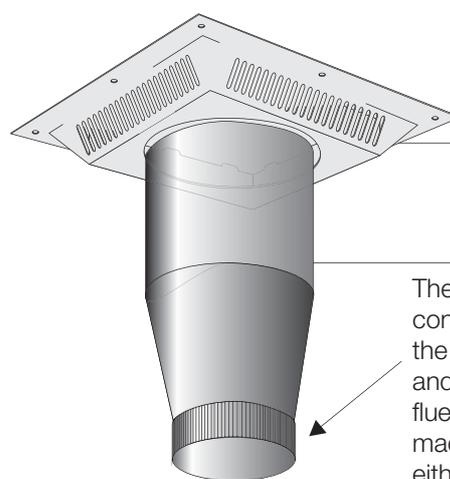


Please note that the requirement for the fire board lining of the frame is required only for combustible floors. This requirement relates directly to the fire penetration test undertaken to BS 476: Part 20 where a chimney passes through the void of a representative combustible floor and where the room below is on fire. When installed in accordance with the installation instructions, SFL's Ventilated Components will offer a fire resistance of 50 minutes. The application of fire board around the frame is independent of BS EN 1856-1 and can be removed where the chimney passes through a non-combustible floor.

**FRAMING DATA**

Product		A' Sq (mm)	
<b>SM SMW</b>	127mm (5")	281	
	152mm (6")	301	
	178mm (7")	331	
	203mm (8")	351	
	254mm (10")	401	
<b>Nova SM Omega DW Omega Plus</b>	100mm	251	
	130mm	281	
	150mm	301	
	180mm	331	
	200mm	351	
	250mm	401	
<b>Note: Omega covers up to 250ID</b>		300mm	451

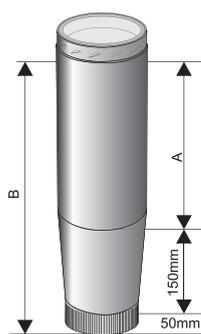
**Fig. 5 Starter Length**



Starter Length to project through the Lower Firestop Plate by a minimum of 150mm before connection to single wall flue pipe\*.

The joint facilitating connection between the Starter Length and the single wall flue pipe should be made good using either a fire cement or high temperature sealant.

**Dimensions**



	A (mm)	B (mm)
<b>S M W</b>	500	700
<b>N O V A S M</b>	515	715
<b>O M E G A</b>	470	670



SFL, Pottington Business Park, Barnstaple, Devon, EX31 1LZ  
 Tel: +44(0)1271 32 66 33 Fax: +44(0)1271 33 43 03  
 Web: www.sflchimneys.com Email: info@sflchimneys.com