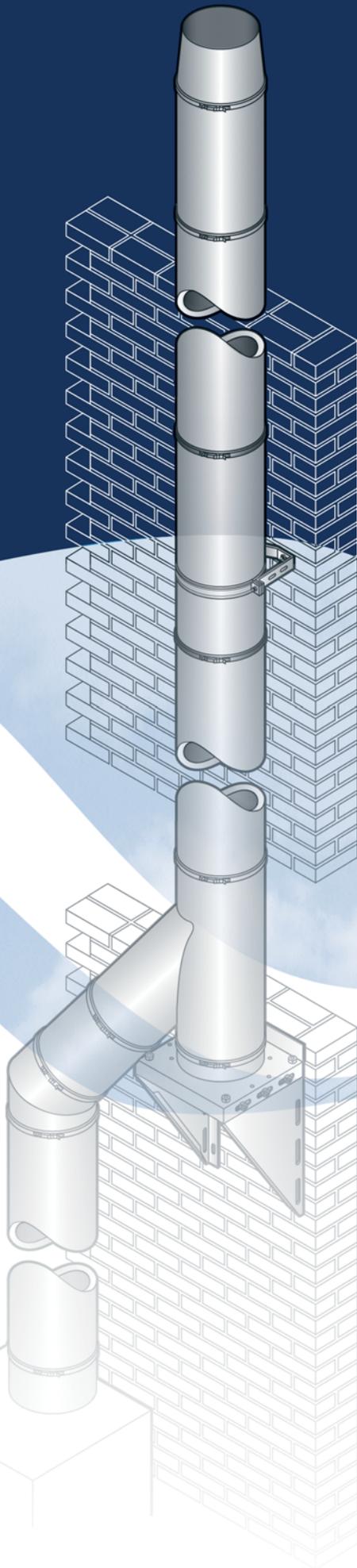


Nova

Twin wall, insulated
stainless steel
multi-fuel
chimney system

Suitable fully condensing appliances



The Nova SM chimney system range is specifically designed to meet the demands of the latest high efficiency heating appliances as well as the traditional gas, oil and multi-fuel combustion equipment, offering a one solution product for today's market.



Introduction

The Nova family of product has been specifically designed to meet the requirements for multi-functional applications serving a variety of fuels. Whether serving a traditional negative draught appliance or a modern high efficiency condensing appliance, the Nova product offers the ideal solution. With a wide range of components together with a multi-barb quick lock jointing system, Nova offers the ultimate in ease of installation, quality and functionality. Nova is a CE approved product and has been independently tested to the requirements of BS EN 1856-1, see Nova product designation.

Description

Nova SM is a prefabricated, factory made twin-wall insulated stainless steel system chimney. The fully welded construction combined with a high performance/high density insulating medium, provides the minimum level of performance required for today's modern high efficiency combustion equipment as well as being suitable for the more traditional oil, gas and solid fuel fired appliance. The construction provides a high thermal resistance which ensures rapid stabilisation of the flue gas temperature and draught, whilst maintaining a relatively low temperature on the external surface of the chimney. Nova SM is designed for internal and external applications and is suitable for negative pressure applications. When used with a seal and where the flue gas temperature will not exceed 200°C, the Nova SM product is suitable for wet and positive pressure applications up to 200Pa (P1).

Nova utilises a multi-barb quick lock jointing system to secure each joint. The number of barbs depends on the product diameter, and in each case the components are secured by locating the barbs with a twist of each section. A locking band must then be used at each joint. The joint design facilitates a maximum unsupported height above the last support of up to 3.0 metres (2.0 metres for 100ID), subject to the design considerations detailed within the Installation Instructions and on page 17 of this brochure.

Nova SM is manufactured from a high grade 316L (1.4404:X2CrNiMo 17-12-2) stainless steel liner and a 304 (1.4301 : X5CrNiMo 17-12-2) outer case. The product utilises a high performance mineral wool which is auger filled into a 25mm annulus between the inner and outer, offering rapid stabilisation of draught and excellent thermal performance. The unique joint design, allows the inner liner to freely expand and contract throughout the system as the flue gas temperature varies, alleviating the need for additional expansion components.

Application

The Nova SM product is available in 8 internal diameters ranging from 100mm to 350mm and is suitable for oil, gas, and solid fuel applications operating under negative draught/dry conditions or where the maximum positive pressure will not exceed 40Pa as designated by N1, at a maximum flue gas temperature of 450°C. Where used for solid fuel and oil applications where the flue gas temperature is greater than 250°C, the ventilated support components must be used as detailed on page 9.

For condensing (WET) / positive pressure applications, where the flue gas temperature will not exceed 200°C at a maximum positive pressure of 200Pa (P1), an optional seal can be fitted to the Nova product as detailed on page 3.

For condensing applications it is important that any sloping runs are angled not less than 5° from the horizontal. Drainage components should also be incorporated into the system to allow condensate removal to a suitable drain or gully. Tees and elbows are provided within the Nova range to facilitate a 5° incline from the horizontal.

Chimney designation to BS EN 1856-1

Nova product designations to BS EN 1856-1								
Cert. No: 0086-CPD-496040	Nova SM	BS EN 1856-1	T450	N1	D	V2	L50050	G(50)
Cert. No: 0086-CPD-496040	Nova SM	BS EN 1856-1	T200	P1	W	V2	L50050	O(50)
Product	↑	↑	↑	↑	↑	↑	↑	↑
Standard number	↑	↑	↑	↑	↑	↑	↑	↑
Temperature class	↑	↑	↑	↑	↑	↑	↑	↑
Pressure class	↑	↑	↑	↑	↑	↑	↑	↑
Condense resistance D=dry W=wet	↑	↑	↑	↑	↑	↑	↑	↑
Corrosion class	↑	↑	↑	↑	↑	↑	↑	↑
Material specification Liner grade 316L Liner thickness: 0.5mm	↑	↑	↑	↑	↑	↑	↑	↑
Sootfire resistance G=yes O=no	↑	↑	↑	↑	↑	↑	↑	↑

Note: P1 rating requires seals fitted to the Nova SM product

Support components

The Nova product offers a full range of both vertical and lateral support components to allow maximum flexibility and safety when installing the product.

Vertical supports

Wall support brackets, telescopic floor supports and support plates are available for vertical load support. Where the flue passes through combustible floors a range of combined floor supports and firestop plates are available as either fixed or ventilated depending on the application.

For further details please refer to pages 8 to 11.

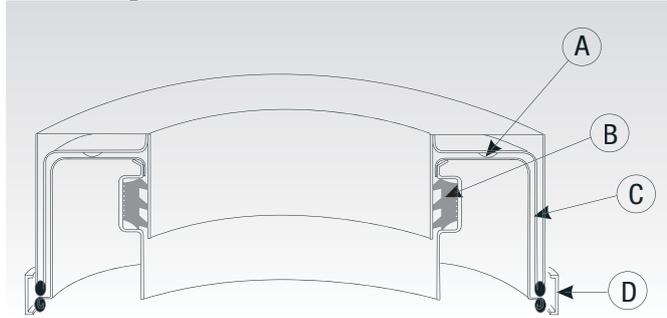
Lateral supports

Wall bands are available for the lateral support of the installation. These are available in both galvanised steel and stainless steel for external applications. All wall bands offer 50mm clearance from the outer case of the flue. Optional extension brackets are available to increase this distance, see page 10.

Roof support

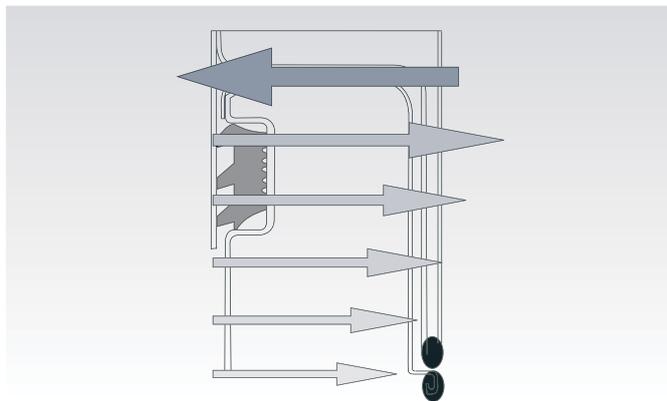
A rafter support bracket is available for where the flue section passes through the roof to termination. This component offers both lateral and vertical loading. Full support data can be found on page 14 or in the Installation Instructions.

Joint design and construction



A – Coupler separator

The coupler separator is a 1mm dimple which is designed to allow a controlled amount of air to pass across the coupler interface. This limits thermal bridging and heat transfer across the joint as well as reducing the potential for capillary moisture movement.



B – Retrofit seal

The Nova product offers a retrofit seal that can be fitted around the inner groove as shown above. The seal facilitates positive pressure/wet applications up to 200Pa at a maximum flue gas temperature of 200°C, offering a P1 rating to BS EN 1856-1. For higher pressure capability, please refer to SFL Technical Department.

C – Quick lock jointing system

The Nova joint incorporates a sixteen barb* coupler system to allow easy and rapid installation of the product. When used with the Nova support components the joint will support up to 3.0 metres free standing above the last support, see Installation Instructions or page 17 for further details.

* 100 internal diameter has 8 barbs and has a free standing capability of 2.0 metres, subject to design guidance.

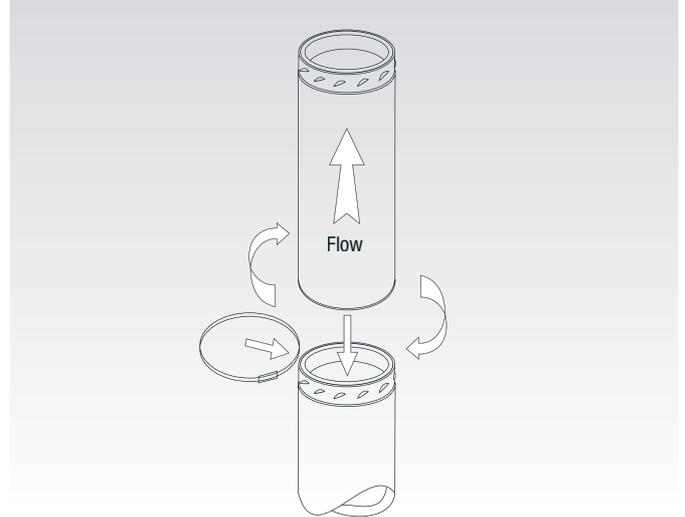
D – Locking band

The locking band is used to complete the joint and incorporates a simple sprung toggle clip, again for speed of installation.

Joint assembly

The joint is made by fitting the male end over the female end and engaging the joint system by rotating the component clockwise. A locking band is then fitted to finalise the joint, as detailed below.

Fig. 1



Approvals

The Nova product has been assessed and CE marked to BS EN 1856-1 to the performance designations as detailed on page 2.

Nova has also been assessed by the Loss Prevention Council for fire resistance. A fire resistance of two hours can be achieved in accordance with the stability and integrity criteria of BS 476: Part 20 for duct type B.

Quality

All components are manufactured under a quality assurance scheme, certificate No. FM FM557622, administered by British Standards in accordance with BS EN 9001: 2008. In addition SFL operate a CE approved factory production control system as required under the Construction Products Directive 93/68/EEC.

Installation regulations

Where the flue passes through combustible floors it is important that the correct firestop components are used and the correct distance to combustible materials is observed as detailed in the Nova Installation Instructions.

All firestop and support components within the Nova range are designed to offer a minimum clearance to combustible material of 50mm. In all instances the requirements of the building regulations must be complied with and the appropriate references are: Document J of the DOE Building Regulations, Section F of the Building Standards (Scotland), Section L of the Building Regulations (Northern Ireland). Reference should also be made to the relevant British and European Standards governing the installation of flue and chimney products for the associated fuel and appliance types as detailed:

Solid Fuel and Oil Fired Applications: BS EN 15287: 2007

Domestic Gas Installations up to 60kW: BS5440: Part 1: 2008

Commercial Gas Installation up to 70kW and 1.8MW (net), the installation should conform to BS 6644:2005

Note: In the UK, connection to an appliance which is not connected to the fuel supply, may be carried out by a competent person. However connection to an appliance that is connected to the fuel supply must be carried out by an approved and registered heating engineer, e.g. Corgi (Gas) or OFTEC (Oil). For other European countries, reference should be made to EN 12391: Parts 1 & 2: 2003: Chimney – Execution standard for metal chimneys. The National Annex NA of EN 12391 should detail the national regulatory requirements for that particular country.

Components

The Nova product offers a complete range of prefabricated components allowing complete flexibility to meet today's demanding applications. Installed lengths of 1000mm, 500mm, 250mm and 120mm are available, together with adjustable lengths. A variety of tees and elbows, as well as a range of supports, fixings and firestop components are available as standard throughout the diameter range.

Those components within the range that are manufactured from only single skin, can be vulnerable when exposed to the products of combustion from solid fuel appliances. This is especially true for terminals, however in the majority of cases, an open-ended terminal better suits appliance performance, but it is acknowledged that on occasions, other types of terminal from the range have to be used to reduce rain entry. Condensate collectors and locking plug when used on solid fuel are also vulnerable to flue gas by-products, particularly if the chimney is not regularly maintained and cleaned. Such components are considered sacrificial and their life expectancy will vary depending on application, location, maintenance and fuel usage. For this reason, these items are only covered by a twelve month guarantee and not the standard 10 year manufacturing defects guarantee.

It should also be noted that chemical contaminated combustion air will also affect the durability of the product as will the use of chemical chimney cleaners. Typical examples of contaminated combustion air has been seen in de-greasing plants and dry-cleaning companies.

External protection should also be applied where the product is installed externally at coastal locations. This could be achieved using a specialist protective coating or by painting the outer case. It is recommended that only stainless steel components are used for external applications, however where galvanised components are used, they should be adequately protected using an appropriate coating.

SFL cannot accept responsibility for any installation, which seeks to combine Nova with any other form of chimney construction, excepting applications where appropriate advice has been provided by SFL.

Commercial applications

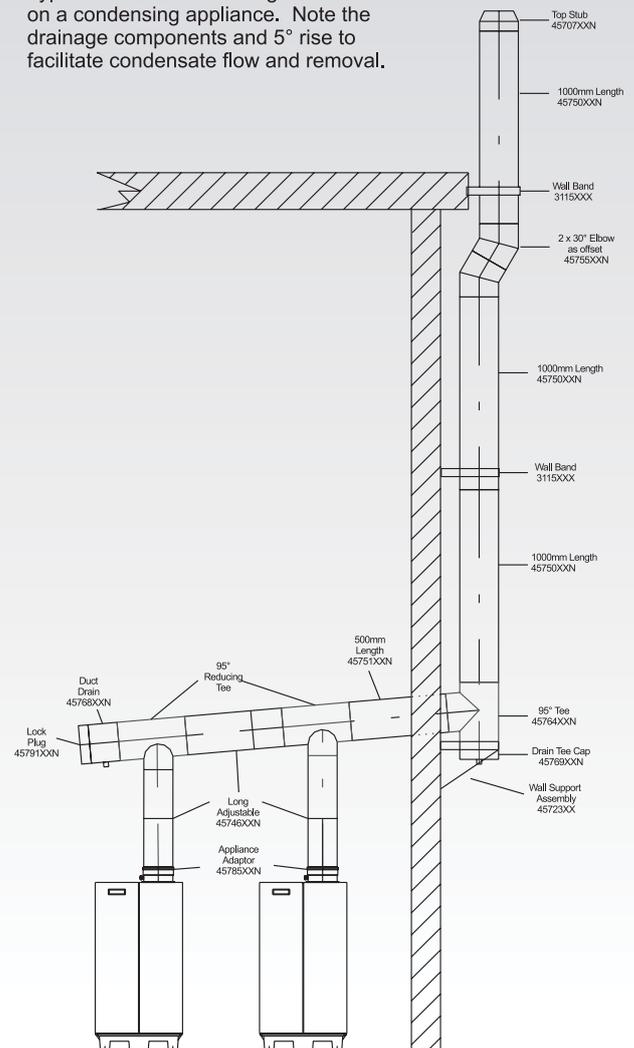
The Nova SM product is suitable for commercial applications up to and including 350mm internal diameter. For larger diameters, please refer to the Nova commercial product literature which covers diameters from 400mm to 600mm internal diameters or, for up to 1200mm, please refer to the Europa literature.

SFL can manufacture complete bespoke components to facilitate the often complex routes that are required for commercial installations. These can include special manifolds, tees, elbows and adaptors. For further information, please forward your requirements to SFL Technical Services.

SFL also use state of the art CAD software which can model the thermodynamic and flow behaviour of the system, allowing the most economic system design to be achieved. All designs are calculated in accordance with EN 13384 Parts 1 & 2. SFL can also advise on the Clean Air Act requirements and calculate chimney heights based on the Clean Air Act Memorandum.

Typical commercial installation

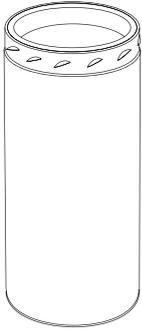
Typical installation showing Nova SM used on a condensing appliance. Note the drainage components and 5° rise to facilitate condensate flow and removal.



Lengths

Straight lengths

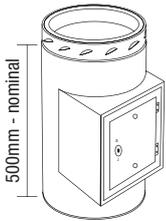
Straight lengths are available in nominal installed lengths of 1000mm, 500mm, 250mm and 120mm.



Size	Nova SM code numbers			
	1000mm	500mm	250mm	120mm
100mm	4575004N	4575104N	4571904N	4575304N
130mm	4575005N	4575105N	4571905N	4575305N
150mm	4575006N	4575106N	4571906N	4575306N
180mm	4575007N	4575107N	4571907N	4575307N
200mm	4575008N	4575108N	4571908N	4575308N
250mm	4575010N	4575110N	4571910N	4575310N
300mm	4575012N	4575112N	4571912N	4575312N
350mm	4575014N	4575114N	4571914N	4575314N

Inspection length – standard (N1/D)

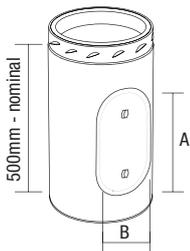
Use to provide access for inspection or cleaning via an insulated lockable door. This component is only suitable for negative pressure/dry non-condensing applications. For positive pressure or wet condensing applications use the metu inspection length below.



Size	Code number
100mm	N/A
130mm	4576205N
150mm	4576206N
180mm	4576207N
200mm	4576208N
250mm	4576210N
300mm	4576212N
350mm	4576214N

Inspection length – metu (P1/W)

Use to provide access for inspection and cleaning. To be used for positive pressure and wet systems where the flue gases are likely to condensate within the chimney system. Suitable for flue gas temperatures up to 200°C at 200Pa.



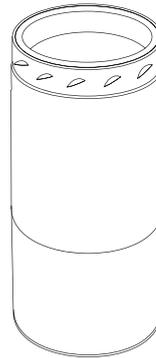
Size	Dimension (mm)		Code number
	A	B	
100mm	180	70	4576304N
130mm	180	80	4576305N
150mm	200	100	4576306N
180mm	200	100	4576307N
200mm	200	100	4576308N
250mm	200	100	4576310N
300mm	200	100	4576312N
350mm	200	100	4576314N

Adjustable lengths

The adjustable length offers a degree of flexibility when standard length dimensions are not suitable. As the insulation density will vary with application, these components should always be located at least 300mm from any combustible material.

All adjustable lengths are supplied with separate insulating material for insertion into the annulus once the installed length has been determined. For condensing and positive pressure applications a separate seal can be fitted internally in addition to the joint seal.

Adjustable lengths are available in either a short (300mm – 400mm) or long (375mm – 550mm).

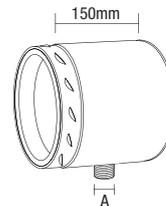


Short Version	
Size	Code number
100mm	4576604N
130mm	4576605N
150mm	4576606N
180mm	4576607N
200mm	4576608N
250mm	4576610N
300mm	4576612N
350mm	4576614N

Long Version	
Size	Code number
100mm	4574604N
130mm	4574605N
150mm	4574606N
180mm	4574607N
200mm	4574608N
250mm	4574610N
300mm	4574612N
350mm	4574614N

Duct drain

Used in a horizontal or inclined position to trap condensate and permit drainage. It is fitted with a standard stainless steel BSP thread connection.



Size	Dimension (A)	Code number
100mm	1" BSP	4576804N
130mm	1" BSP	4576805N
150mm	1" BSP	4576806N
180mm	1" BSP	4576807N
200mm	1" BSP	4576808N
250mm	1" BSP	4576810N
300mm	1" BSP	4576812N
350mm	1" BSP	4576814N



Seal lubricant (P1/W)

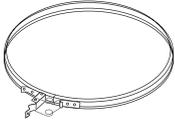
This must be applied around the circumference of the fitted seal to provide a lubricated interface between the seal and the liner when the product is used for positive pressure and wet applications.

Seal lubricant	4007500
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Lengths

Locking band

The locking band must be used on all joints, and is ordered separately.



Size	Code number
100mm	4578604
130mm	4578605
150mm	4578606
180mm	4578607
200mm	4578608
250mm	4578610
300mm	4578612
350mm	4578614

Joint sealing ring (W/P1)

This optional component is available for all diameters and is located in the joint groove as detailed in the Installation Instructions and on page 3. This component provides a moisture and gas resistant seal to a pressure of 200Pa as tested to P1 under EN 1856-1. The seal would normally be used on applications where there is a likelihood that condensation of the flue gases could result or where the chimney is operating under positive pressure applications where the flue gas temperature will not exceed 200°C (T200).

Important: SFL seal lubricating compound should be applied around the surface of the seal prior to making the joint. It is also recommended that the seal is bonded to the fixing groove prior to installation with a suitable silicon adhesive/sealant.

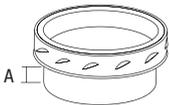


Size	Code number
100mm	4006310
130mm	4006313
150mm	4006315
180mm	4006318
200mm	4006320
250mm	4006325
300mm	4006330
350mm	4006335

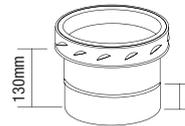
Fittings

Appliance adaptor

This facilitates connection from the Nova chimney system to the appliance. This adaptor is also used for connection of the draught regulator to the branch of a 90° tee.



Size	Dimension A (mm)	Code number
100mm	50	4578504N
130mm	50	4578505N
150mm	50	4578506N
180mm	50	4578507N
200mm	50	4578508N
250mm	50	4578510N
300mm	50	4578512N
350mm	50	4578514N



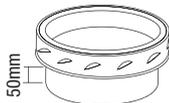
Supra to Nova adaptor

Used to either connect the chimney system to the appliance or to the SFL Supra chimney system.

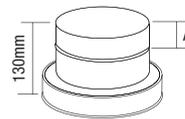
Size	Dimension A (mm)	Code number
100mm	63	4579604N
130mm	63	4579605N
150mm	63	4579606N
180mm	42	4579607N
200mm	42	4579608N
250mm	42	4579610N
300mm	42	4579612N
350mm	42	4579614N

Appliance adaptor (imperial)

Used for connection to appliances with imperial spigots.



Size	Code number
125mm	4578405N
175mm	4578407N



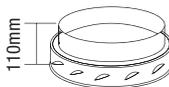
Nova to Supra adaptor

Designed to facilitate connection from the Nova to Supra chimney system.

Size	Dimension A (mm)	Code number
100mm	63	4579704N
130mm	63	4579705N
150mm	63	4579706N
180mm	42	4579707N
200mm	42	4579708N
250mm	42	4579710N
300mm	42	4579712N
350mm	42	4579714N

Adaptor to flex

Used to connect the Nova product to a flexible flue liner.



Size	Code number
100mm	45750104N
130mm	45750105N
150mm	45750106N
180mm	45750107N
200mm	45750108N
250mm	45750110N
300mm	45750112N
350mm	45750114N

SM250/SMW to Nova adaptor

Available to convert from SM/SMW to Nova with an installed height of 75mm. Code Number 45748XXN, where XX is the diameter, e.g. 4574806N is 150mm(6").

Bespoke adaptors can be manufactured to order, please refer to SFL Technical Services.

Fittings

15° elbow

Provides a 15° change of direction from the vertical. See technical data on page 14 for dimensions.



Size	Code number Nova SM
100mm	4575404N
130mm	4575405N
150mm	4575406N
180mm	4575407N
200mm	4575408N
250mm	4575410N
300mm	4575412N
350mm	4575414N

30° elbow

Provides a 30° change of direction from the vertical. See technical data on page 14 for dimensions.



Size	Code number Nova SM
100mm	4575504N
130mm	4575505N
150mm	4575506N
180mm	4575507N
200mm	4575508N
250mm	4575510N
300mm	4575512N
350mm	4575514N

40° elbow

Provides a 40° change of direction from the vertical. See technical data on page 14 for dimensions.



Size	Code number Nova SM
100mm	4575604N
130mm	4575605N
150mm	4575606N
180mm	4575607N
200mm	4575608N
250mm	4575610N
300mm	4575612N
350mm	4575614N

45° elbow

Provides a 45° change of direction from the vertical. See technical data on page 14 for dimensions.

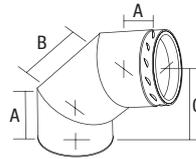


Size	Code number Nova SM
100mm	4575704N
130mm	4575705N
150mm	4575706N
180mm	4575707N
200mm	4575708N
250mm	4575710N
300mm	4575712N
350mm	4575714N

NOTE: To allow the elbow to achieve a full range of movement, all elbows are supplied with un-barbed couplers on the female end and therefore are not designed to twist-lock together.

90° elbow

Provides a 90° change of direction.

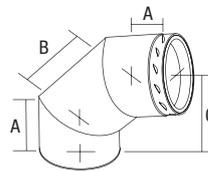


Dimension lines relate to centre line of flue.

Size	Dimension (mm)			Code number
	A	B	C	Nova SM
100mm	91	126	180	4575904N
130mm	98	136	193	4575905N
150mm	102	144	204	4575906N
180mm	108	156	219	4575907N
200mm	112	165	229	4575908N
250mm	123	185	254	4575910N
300mm	133	206	279	4575912N
350mm	143	227	304	4575914N

85° elbow

Provides a 85° change of direction from the vertical. Used in condensing applications where a 5° incline to the horizontal is required for condensate drainage.

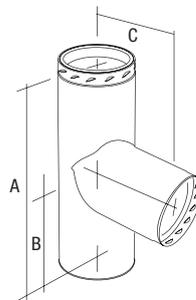


Dimension lines relate to centre line of flue.

Size	Dimension (mm)			Code number
	A	B	C	Nova SM
100mm	91	126	192	4575804N
130mm	98	136	207	4575805N
150mm	102	144	217	4575806N
180mm	108	156	233	4575807N
200mm	112	165	244	4575808N
250mm	123	185	270	4575810N
300mm	133	206	296	4575812N
350mm	143	227	323	4575814N

90° tee

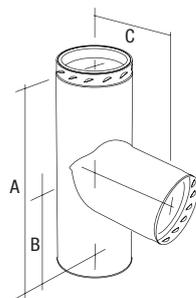
Used at the base of a vertical chimney, or for horizontal header configurations.



Size	Dimension (mm)			Code number
	A	B	C	Nova SM
100mm	300	180	140	4573004N
130mm	330	195	155	4573005N
150mm	350	205	165	4573006N
180mm	380	220	180	4573007N
200mm	400	230	190	4573008N
250mm	450	255	215	4573010N
300mm	500	280	240	4573012N
350mm	550	305	265	4573014N

95° tee

Used at the base of a vertical chimney, or for horizontal header configurations. Allows for a 5° incline on wet systems to allow for condensate drainage.

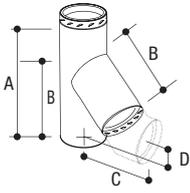


Size	Dimension (mm)			Code number
	A	B	C	Nova SM
100mm	300	180	140	4576404N
130mm	330	195	155	4576405N
150mm	350	205	165	4576406N
180mm	380	220	180	4576407N
200mm	400	230	190	4576408N
250mm	450	255	215	4576410N
300mm	500	280	240	4576412N
350mm	550	305	270	4576414N

Fittings

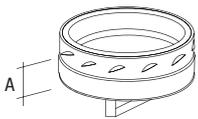
135° tee

Used at the base of a vertical chimney, or to allow a smooth transition from the horizontal to vertical plain when used with a 45° elbow.



Size	Dimension (mm)		Code number Nova SM
	A	B	
100mm	500	325	4576504N
130mm	500	340	4576505N
150mm	500	375	4576506N
180mm	750	420	4576507N
200mm	750	450	4576508N
250mm	750	520	4576510N
300mm	750	585	4576512N
350mm	1000	650	4576514N

Size	Dimension 135° tee (mm)			
	With 40° elbow		With 45° elbow	
	C	D	C	D
100mm	385	23	385	31
130mm	407	22	408	30
150mm	439	29	439	38
180mm	481	37	481	47
200mm	509	43	509	53
250mm	577	55	578	65
300mm	640	66	614	77
350mm	703	77	704	89



Locking plug

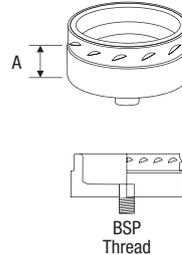
Used to close off the branch or base of a tee.

Size	BSP thread	Insulated Dimension A (mm)	Code number
130mm	1"	50	4579105N
150mm	1"	50	4579106N
180mm	1"	50	4579107N
200mm	1"	50	4579108N
250mm	1"	50	4579110N
300mm	1"	50	4579112N
350mm	1"	50	4579114N

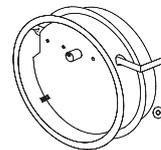
Condensate collector

Used at the bottom of a vertical chimney to facilitate the drainage of condensate from the system.

Fitted with a stainless steel BSP external thread drain connection.



Size	BSP thread	Insulated Dimension A (mm)	Code number
130mm	1"	50	4576905N
150mm	1"	50	4576906N
180mm	1"	50	4576907N
200mm	1"	50	4576908N
250mm	1"	50	4576910N
300mm	1"	50	4576912N
350mm	1"	50	4576914N



Draught regulator

Dual action draught regulator suitable for gas, oil and solid fuel applications. Designed to be used with SFL chimney systems where excessive draught is likely to create combustion problems. Where used with the Nova chimney system, the regulator should be applied with the 45785XX appliance adaptor (in turn located onto the 90° tee branch).

Size	Code number
100mm	3192004
130mm	3192005
150mm	3192006
180mm	3192007
200mm	3192008
250mm	3192010
300mm	3192012
350mm	3192014

Support components

Support length / Strut / Guy Attachment



A 117mm installed length which incorporates a welded plate located 33mm from the bottom edge and features slotted holes for rotational adjustment. For use with the universal support plate or the telescopic floor support. Also suitable for use as a Guy / Strut Support length. This component also doubles as a strut / guy attachment length offering anchoring points to which guys, or preferably rigid stays can be secured using M8 nuts and bolts. Manufactured from stainless steel.

Size	Code number
100mm	4578804N
130mm	4578805N
150mm	4578806N
180mm	4578807N
200mm	4578808N
250mm	4578810N
300mm	4578812N
350mm	4578814N

Support length and drain



Applied at the bottom of a vertical run, for use with the universal support plate or the telescopic floor support. Fitted with a 1" BSP external thread. Installed length = 41mm.

Size	Code number
100mm	4579304N
130mm	4579305N
150mm	4579306N
180mm	4579307N
200mm	4579308N
250mm	4579310N
300mm	4579312N
350mm	4579314N

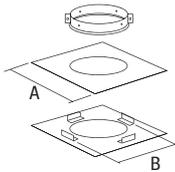
Floor penetration components

Gas and oil fire appliance <T250 (<250°C)

The following components MUST be used on gas or oil fired appliances where the flue gas temperatures do not exceed 250°C and/or where the chimney passes through a non-combustible floor.

Ceiling support

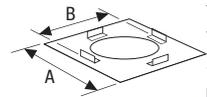
Provides a 50mm air gap clearance to a penetrated floor or ceiling and is only used where Nova penetrates a non-combustible floor, and/or services a gas or oil fired appliance where the flue gas temperatures do not exceed 250°C.



Size	Dimension (mm)		Code number
	A	B	
100mm	300	250	4502704
130mm	330	280	4502705
150mm	355	305	4502706
180mm	381	331	4502707
200mm	406	356	4502708
250mm	457	407	4502710
300mm	507	457	4502712
350mm	558	508	4502714

Firestop spacer

Used to provide location, fire and dust stopping where Nova is used through non-combustible floors, and/or serves a gas or oil fired appliance where the flue gas temperatures do not exceed 250°C. Does not load bear.



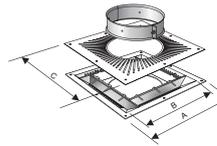
Size	Dimension (mm)		Code number
	A	B	
100mm	300	250	4508704
130mm	330	280	4508705
150mm	355	305	4508706
180mm	381	331	4508707
200mm	406	356	4508708
250mm	457	407	4508710
300mm	507	457	4508712
350mm	558	508	4508714

Solid fuel and oil fire appliance >T250 (>250°C)

The following components MUST be used where Nova SM/SF is used on solid fuel or oil fired appliances where the flue gas temperature exceeds 250°C and/or where the chimney system penetrates a combustible floor. Each ventilated component offers a 50mm clearance to combustible materials.

Ventilated ceiling support

Used to both support and firestop the chimney system when it passes through the first combustible floor directly above the appliance. The support incorporates a patented intumescent matrix design which expands rapidly with temperature and seals the plate to prevent the potential spread of fire from the room below.

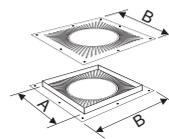


Size	Dimension (mm)			Code number
	A	B	C	
100mm	331	251	349	7072710
130mm	361	281	379	7072713
150mm	381	301	399	7072715
180mm	411	331	429	7072718
200mm	431	351	453	7072720

For painted variations add the following letters after the part number: - White: ZW Black: ZB

Ventilated firestop

Used where the chimney passes through the upper combustible floors and were sections below the floor are enclosed within a compartment. This item does not load bear.

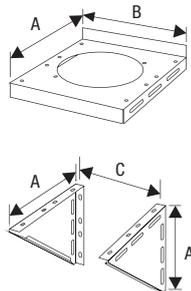


Size	Dimension (mm)		Code number
	A	B	
100mm	251	349	5508310
130mm	281	379	5508313
150mm	301	399	5508315
180mm	331	429	5508318
200mm	351	453	5508320

Support bracketry

Wall support assembly

Used to take the vertical load of the chimney when supported from a wall. The support assembly is fully adjustable allowing varying clearances from the wall (50mm as standard). Requires M10 wall fixings.



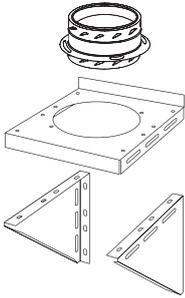
Size	Dimension (mm)		
	A	B	C
100mm	281	252	225
130mm	311	282	255
150mm	331	302	275
180mm	360	331	304
200mm	384	355	328
250mm	432	403	347
300mm	482	453	424
350mm	533	504	475

'C' – Wall fixing centres

Support bracketry

Wall support bracket

Supplied complete with the Support Length to allow for base or intermediate support of the chimney.

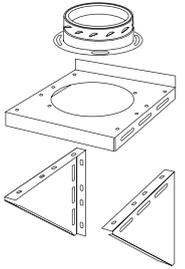


Size	Code number	
	Stainless	Galvanised
100mm	4572304	4572204
130mm	4572305	4572205
150mm	4572306	4572206
180mm	4572307	4572207
200mm	4572308	4572208
250mm	4572310	4572210
300mm	4572312	4572212
350mm	4572314	4572214

Wall support bracket and drain

Supplied complete with base condensate drain. Used at the base of a vertical chimney to undertake the vertical load and condensate removal.

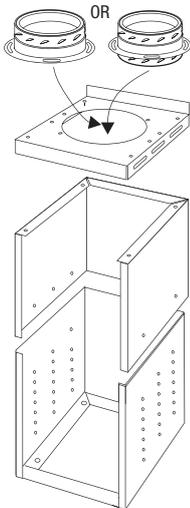
Drain cannot be removed for sweeping.



Size	Code number	
	Stainless	Galvanised
100mm	4572104	4572004
130mm	4572105	4572005
150mm	4572106	4572006
180mm	4572107	4572007
200mm	4572108	4572008
250mm	4572110	4572010
300mm	4572112	4572012
350mm	4572114	4572014

Telescopic floor support

Used at floor level to take the vertical weight of the chimney. For all diameters the height is adjustable between 296mm and 536mm at 30mm increments. Can be used with the support length or support length and drain, which must be purchased separately.

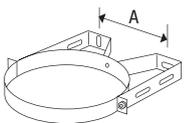


Size	Code number	
	Stainless	Galvanised
100mm	3101104	3102104
130mm	3101105	3102105
150mm	3101106	3102106
180mm	3101107	3102107
200mm	3101108	3102108
250mm	3101110	3102110
300mm	3101112	3102112
350mm	3101114	3102114

Wall bands

Wall bands provide lateral support for the chimney and must be used at intervals not exceeding 4.0 metres above any load bearing support.

For external applications it is recommended that the stainless steel version is used.

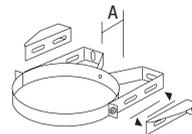


Size	Dimension A (mm)	Code number	
		Stainless	Galvanised
100mm	118	3115154	3116154
130mm	149	3115185	3116185
150mm	167	3115205	3116205
180mm	196	3115234	3116234
200mm	217	3115255	3116255
250mm	267	3115305	3116305
300mm	317	3115355	3116355
350mm	371	3115405	3116405

Wall band extension pieces

Used with wall bands, these components allow the clearance between the wall and outer surface of the chimney to be increased. Where externally applied, the intervals between wall band fixing centres must be reduced from 4.0 metres to 3.5 metres.

The maximum clearance is as detailed below.

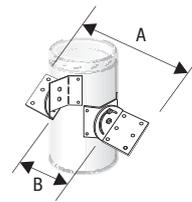


Size	Code number					
	31**136		31**180		31**245	
	Min A	Max A	Min A	Max A	Min A	Max A
100mm	65mm	105mm	-	-	-	-
130mm	50mm	100mm	-	-	-	-
150mm	50mm	100mm	-	-	-	-
180mm	50mm	100mm	-	-	-	-
200mm	50mm	100mm	-	-	-	-
250mm	-	-	50mm	100mm	-	-
300mm	-	-	-	-	75mm	140mm
350mm	-	-	-	-	50mm	120mm

Code numbers ** use 19 for stainless steel, and 20 for galvanised.

Roof support

Provided with adjustable gimbal plates to permit a chimney to be supported on roof joists, trussed rafters etc. Maximum suspended chimney length supported is 6.0 metres and maximum total length supported is 9.0 metres.

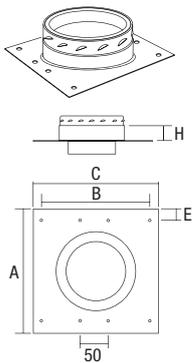


Size	Dimension (mm)		Code number
	A*	B	
100mm	253	466	0102900
130mm	280	490	0102900
150mm	304	515	0102900
180mm	330	545	0102900
200mm	356	570	0102900
250mm	406	618	0102900
300mm	456	668	0102900
350mm	506	719	0102900

*Minimum distance between roof trusses.

Single wall to Nova anchor plate

Designed to be used when connecting Nova SM to a lintel or Nova SF to a pre-cast chamber. A short section of liner projects a nominal 32mm through the bottom of the plate. Installed length "H" is 40mm while "E" is 27mm and there are 8 x 11mm fixing holes at the centres shown in the table below. Manufactured in stainless steel.

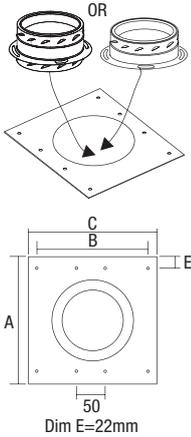


Size	Dimension (mm)			Code number
	A	B	C	
100mm	281	196	252	4577504
130mm	311	226	282	4577505
150mm	331	246	302	4577506
180mm	360	275	331	4577507
200mm	384	299	355	4577508
250mm	432	345	403	4577510
300mm	482	395	453	4577512
350mm	533	446	504	4577514

Support bracketry

Universal support plate

A support plate designed for use with bespoke bracketry such as Uni-Strut/Neissing or site fabricated. For use with a support length or support length and drain (must be ordered separately).



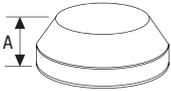
Size	Dimension (mm)			Code number	
	A	B	C	Stainless	Galvanised
100mm	281	196	252	311904154	311004154
130mm	311	226	282	311905184	311005184
150mm	331	246	302	311906204	311006204
180mm	360	275	331	311907234	311007234
200mm	384	299	355	311908254	311008254
250mm	432	345	403	311910304	311010304
300mm	482	395	453	311912354	311012354
350mm	533	446	504	311914404	311014404

Terminals, flashings and trims

The terminals illustrated are suitable for all fuels, with the exception of gas appliances where the chimney is 150mm or less. For such appliances the gas terminal code 45524XX must be used.

Top stub

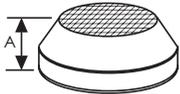
The terminal offers the least resistance to flue gases and is ideal for solid fuel and oil fired appliances, providing there is drainage at the base of the chimney.



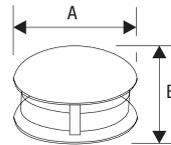
Size	Dimension A (mm)	Code number
100mm	100	4570804
130mm	100	4570805
150mm	100	4570806
180mm	100	4570807
200mm	100	4570808
250mm	100	4570810
300mm	100	4570812
350mm	100	4570814

Top stub c/w mesh

The terminal offers the least resistance to flue gases and is ideally suited for condensing/high efficiency appliances. Not suitable for solid fuel application or where there is no provision for drainage below termination.



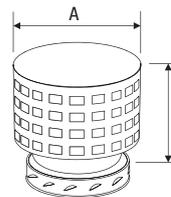
Size	Dimension A (mm)	Code number
100mm	100	4570710N
130mm	100	4570713N
150mm	100	4570715N
200mm	100	4570720N
250mm	100	4570725N



Round top

The round top offers a greater degree of protection against driving rain and wind, recommended for exposed locations.

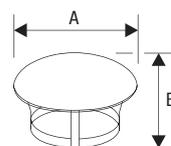
Size	Dimension (mm)		Code number
	A	B	
100mm	255	155	4573104
130mm	300	159	4573105
150mm	300	157	4573106
180mm	358	189	4573107
200mm	402	194	4573108
250mm	500	253	4573110
300mm	614	288	4573112
350mm	716	356	4573114



Gas terminal

The gas terminal is available from 100mm to 350mm internal diameter.

Size	Dimension (mm)		Code number
	A	B	
100mm	236	118	4552404
130mm	236	118	4552405
150mm	267	118	4552406
180mm	293	220	4552407
200mm	320	220	4552408
250mm	368	220	4552410
300mm	421	220	4552412
350mm	469	220	4552414



Rain cap

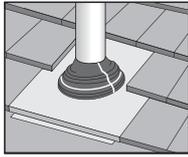
The rain cap offers a degree of protection from rain and is suitable for solid fuel and oil fired appliances.

Size	Dimension (mm)		Code number
	A	B	
100mm	255	192	4577304
130mm	255	197	4577305
150mm	300	204	4577306
180mm	358	265	4577307
200mm	402	265	4577308
250mm	500	300	4577310
300mm	614	345	4577312
350mm	716	385	4577314

Terminals, flashings and trims

EPDM synthetic rubber flashings

These flashings offers an installation friendly alternative to the traditional type of roof flashing. The EPDM flashings are available in four sizes which covers an external diameter range between 60mm and 450mm.



The selection of the correct flashing depends on the outside chimney diameter and intended roof pitch. The table identifies which flashing should be used. Each consists of a malleable aluminium base to which an EPDM rubber cone is sealed. The cone is easily trimmed on site to suit the external diameter of the chimney. Separate Installation Instructions are provided with every flashing.

The EPDM flashing system will effectively seal and remain pliant over a wide range of external chimney surface temperature extremes from -30° to 115°C. The EPDM cones have also been proven to withstand intermittent surface temperatures of up to 150°C.

EPDM flashings should not be used on single wall chimney systems serving solid fuel appliances or any application where the potential surface temperature of the chimney will exceed the maximum design temperatures details above.

Please consult SFL technical department for further information.

Size	Ext. Dia. (mm)	Roof Pitch	Flashing No.	Cone Index Cut Line
100mm	150	0 – 45°	2	C
130mm	180	0 – 40°	2	E
150mm	200	0 – 30°	2	F
150mm	200	0 – 45°	3	C
180mm	230	0 – 40°	3	D
200mm	250	0 – 35°	3	F
250mm	300	0 – 30°	3	I
250mm	300	0 – 45°	4	A
300mm	350	0 – 40°	4	C
350mm	400	0 – 35°	4	F



Flashing Size	Code No.	Base size (A)
Flashing No. 2	4901020	600x600mm
Flashing No. 3	4901030	764x764mm
Flashing No. 4	4901045	956x956mm

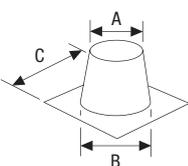
Aluminium flashings

The SFL aluminum flashing range offers a competitive alternative to the traditional lead flashing, while still maintaining a traditional design and malleable material.

All aluminum flashings require a storm collar.

Flat flashing

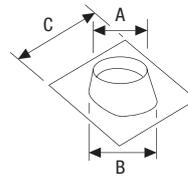
For flat or nearly flat roofs.



Size	Dimension (mm)			Code number
	A	B	C	
100mm	160	250	455	70000006
130mm	190	280	495	70000007
150mm	210	300	495	70000009
180mm	240	330	610	70000010
200mm	260	350	610	70000011
250mm	310	400	610	70000012
300mm	360	450	660	70000013
350mm	410	500	762	70000014

5° – 30° adjustable flashing

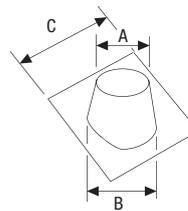
For low pitched roofs.



Size	Dimension (mm)			Code number
	A	B	C	
100mm	160	247	455	70053006
130mm	190	281	495	70053007
150mm	210	304	508	70053009
180mm	240	335	550	70053010
200mm	260	361	578	70053011
250mm	310	419	610	70053012
300mm	360	476	678	70053013
350mm	410	533	762	70053014

32° – 45° adjustable flashing

For high pitched roofs.

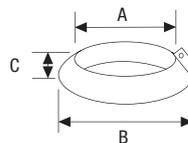


Size	Dimension (mm)			Code number
	A	B	C	
100mm	160	332	559	70324506
130mm	190	375	578	70324507
150mm	210	403	610	70324509
180mm	240	428	650	70324510
200mm	260	475	678	70324511
250mm	310	546	737	70324512
300mm	360	617	820	70324513
350mm	410	689	889	70324514

C for base is square (C X C)

Storm collar

Used to weather the top of the flashing, supplied with a tube of silicon sealant.



Size	Dimension (mm)			Code number
	A	B	C	
100mm	152	255	70	70123406
130mm	177	280	70	70123407
150mm	202	301	70	70123409
180mm	227	330	70	70123410
200mm	252	351	70	70123411
250mm	302	401	70	70123412
300mm	352	451	70	70123413
350mm	402	501	70	70123414

Trim collar

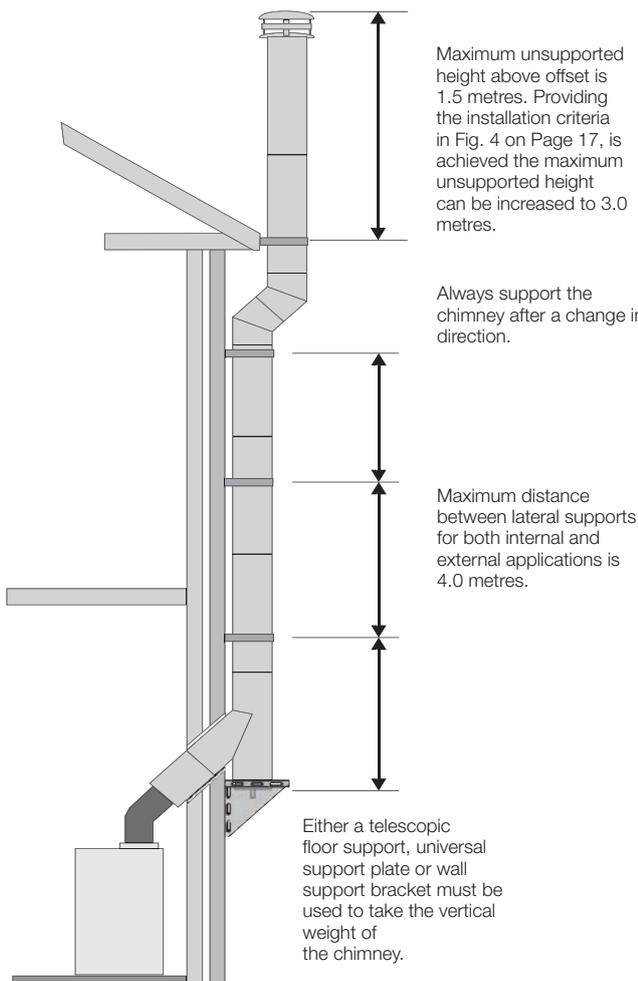
The trim collar is a polished stainless steel circular collar with a nominal 105mm wide circular flange to provide a neat finish at the ceiling.

Size	Code number
100mm	4583204
130mm	4583205
150mm	4583206
180mm	4583207
200mm	4583208
250mm	4583210
300mm	4583212
350mm	4583214

Installation and technical data

The illustration below shows a typical support arrangement for an external chimney. The vertical load of the chimney is provided by a wall support complete with support length (45722**).

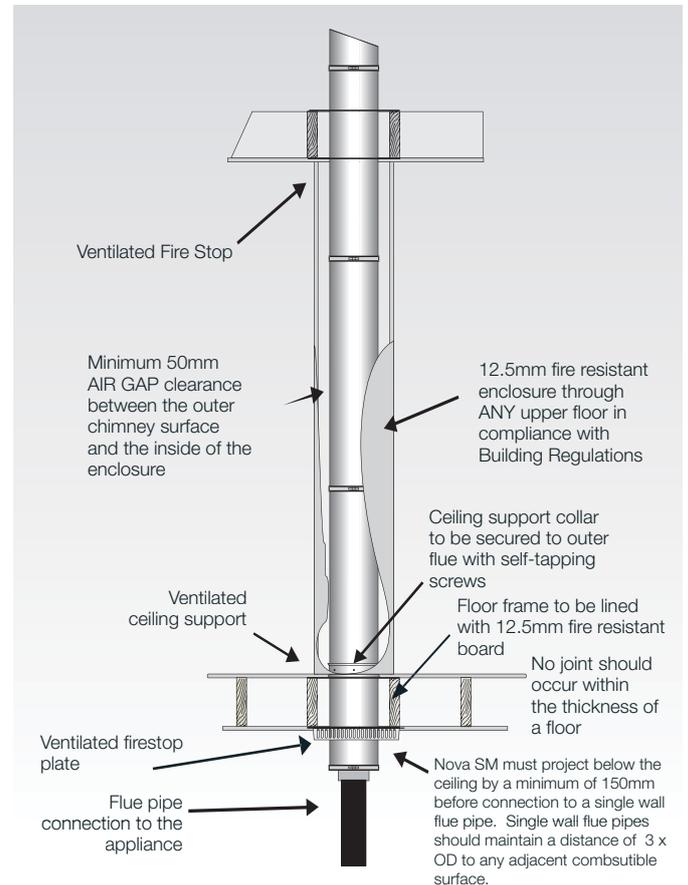
A removable condensate collector (45769**) is fitted to the underside of the wall support assembly which can also be removed for sweeping. Wall bands (3115***) are then installed every 4.0 metres to provide lateral support. It is essential that adequate bracing is provided directly after an offset or change in direction. It is important that adequate fixings are used throughout the chimney system to anchor support components to the structure, such as M10 Rawl bolts etc.



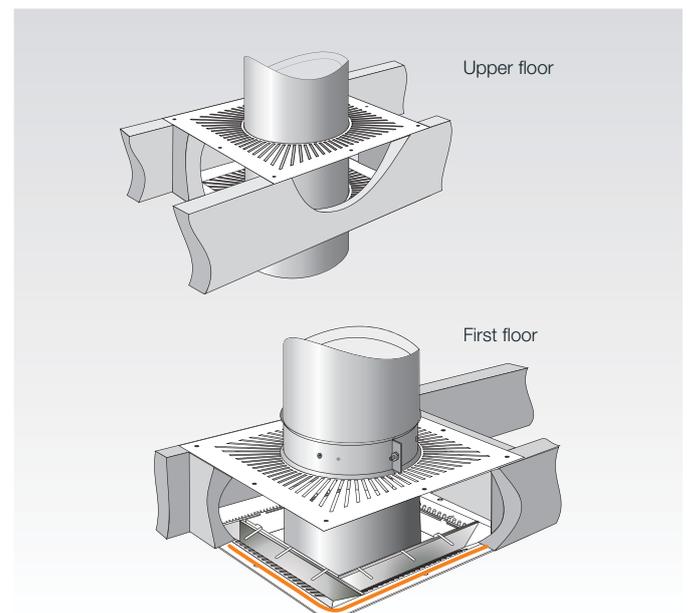
Combustible floor penetration (>250°C)

Where the chimney system is used with appliances producing flue gas temperatures exceeding 250°C, the following ventilated components should be used. All floor penetration components are designed to be secured to a pre-built frame construction and plasterboard lined to the dimension detailed below.

Typical configuration



Basic installation diagram of ventilated ceiling support and ventilated firestop components



For further information please refer to Installation Instructions.

Technical data

Components	Diameter (mm)							
	100	130	150	180	200	250	300	350
Telescopic floor support	30m	26m	23m	20m	18m	15m	12m	11m
Inspection length	13m	13m	13m	13m	13m	13m	13m	12m
Ceiling support	6m	6m	6m	6m	6m	6m	6m	6m
Ventilated ceiling support	6m	6m	6m	6m	6m	6m	6m	6m
Anchor plate	13m	13m	13m	13m	13m	13m	13m	13m
Universal support plate	13m	13m	13m	13m	13m	13m	13m	13m
95° & 90° tee	13m	13m	13m	13m	13m	13m	13m	13m
135° tee	13m	13m	13m	13m	13m	13m	13m	13m

Elbow offset dimensions

This data relates to just two elbows used to form an offset as shown in Fig. 2. It also indicates the installed length of the elbow segments. Data is also provided where standard lengths are also incorporated within the offset, see Fig. 3.

15°

Ø (mm)	A (mm)	B (mm)	C (mm)
100	91	358	47
130	98	385	51
150	102	401	53
180	108	425	56
200	112	440	58
250	123	484	64
300	133	523	69
350	143	562	74

30°

Ø (mm)	A (mm)	B (mm)	C (mm)
100	91	340	91
130	98	366	98
150	102	381	102
180	108	403	108
200	112	418	112
250	123	459	123
300	133	496	133
350	143	534	143

40°

Ø (mm)	A (mm)	B (mm)	C (mm)
100	91	321	117
130	98	346	126
150	102	360	131
180	108	381	139
200	112	396	144
250	123	434	158
300	133	470	171
350	143	505	184

45°

Ø (mm)	A (mm)	B (mm)	C (mm)
100	91	311	129
130	98	335	139
150	102	348	144
180	108	369	153
200	112	382	158
250	123	420	174
300	133	454	188
350	143	488	202

Fig. 2

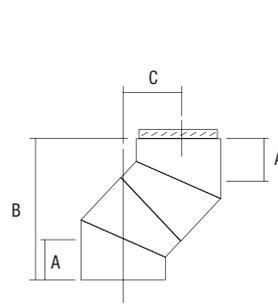
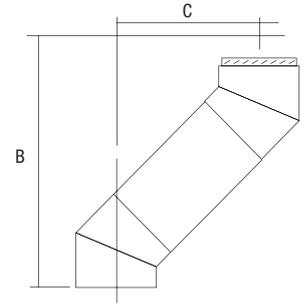


Fig. 3



Elbows are not load-bearing. Vertical runs after changes of direction should be re-supported appropriately.

Ø (mm)	120mm length							
	15°		30°		40°		45°	
	B (mm)	C (mm)	B (mm)	C (mm)	B (mm)	C (mm)	B (mm)	C (mm)
100	474	78	444	151	413	194	396	214
130	501	82	470	158	438	203	420	224
150	517	84	485	162	452	208	433	229
180	541	87	507	168	473	216	454	238
200	556	89	522	172	488	221	467	243
250	600	95	563	183	526	235	505	259
300	639	100	600	193	562	248	539	273
350	676	105	638	203	597	261	573	287

Ø (mm)	250mm length							
	15°		30°		40°		45°	
	B (mm)	C (mm)	B (mm)	C (mm)	B (mm)	C (mm)	B (mm)	C (mm)
100	599	112	556	216	513	278	487	305
130	627	115	582	223	538	287	511	315
150	643	118	597	227	551	292	525	321
180	666	121	620	233	573	299	546	330
200	682	123	634	237	587	305	559	335
250	725	129	676	248	626	319	597	351
300	764	134	713	258	661	332	631	365
350	804	139	750	268	697	345	665	379

Ø (mm)	500mm length							
	15°		30°		40°		45°	
	B (mm)	C (mm)	B (mm)	C (mm)	B (mm)	C (mm)	B (mm)	C (mm)
100	841	177	773	341	704	438	664	482
130	868	180	799	348	729	447	688	492
150	884	182	814	352	743	453	702	498
180	908	185	836	358	764	460	722	506
200	923	187	851	362	779	465	736	512
250	967	193	892	373	817	480	774	528
300	1008	198	929	383	853	492	808	542
350	1045	203	967	393	888	505	842	556

Ø (mm)	1000mm length							
	15°		30°		40°		45°	
	B (mm)	C (mm)	B (mm)	C (mm)	B (mm)	C (mm)	B (mm)	C (mm)
100	1324	306	1206	591	1087	760	1018	836
130	1351	310	1232	598	1112	769	1042	846
150	1362	312	1247	602	1128	774	1055	851
180	1391	315	1269	608	1148	782	1076	860
200	1406	317	1284	612	1162	787	1089	865
250	1450	322	1325	623	1200	801	1127	881
300	1489	328	1362	633	1236	814	1161	895
350	1528	333	1400	643	1271	827	1195	909

Technical data

Product weights

Maximum weight of Nova SM per metre run installed, excluding support components.

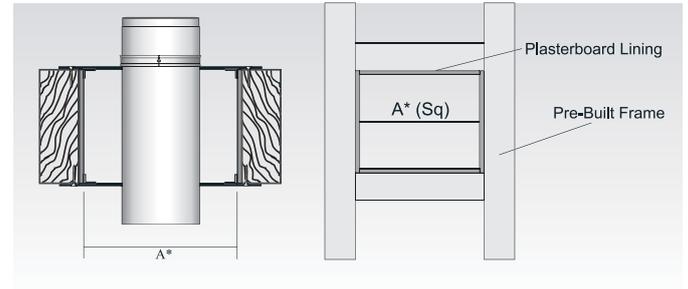
Ø (mm)	100	130	150	180	200	250	300	350
kg/m	6.6	8.1	9.2	10.8	11.8	14.5	17.1	19.7

**Table A – Framing data and dimensions
Ventilated Ceiling Support/Firestop**

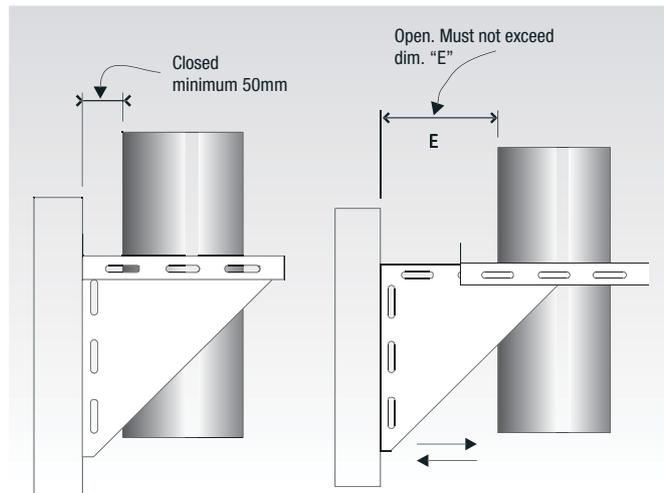
Chimney Size	100	130	150	180	200
'A' Square*	251	281	301	331	351

*Includes plasterboard lining of timber frame.

Ventilated ceiling support and ventilated telescopic firestop

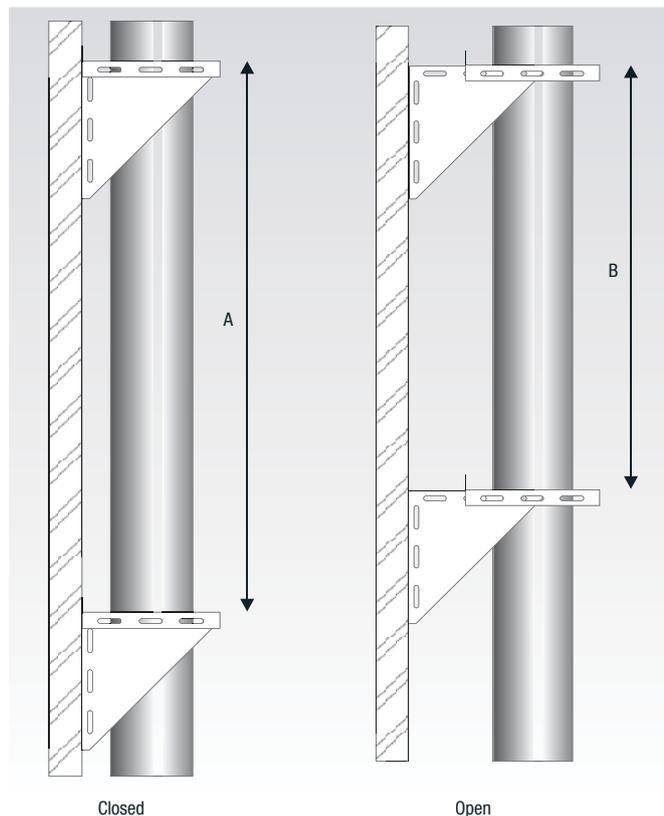


Wall support bracket – technical information



Size (mm)	E (mm)
100	150
130	150
150	150
180	200
200	200
250	220
300	267
350	293

Support configuration and distance between brackets



Size (mm)	A (m)	B (m)
100	30	25
130	30	25
150	30	25
180	20	15
200	20	15
250	20	15
300	20	15
350	18	12

This table details the maximum distance in metres between wall supports, based on the support configuration detailed opposite.

Installation instructions

Detailed installation instructions are provided with all adaptors and terminals, and are also available separately on request, however detailed below are key installation requirements for the Nova chimney system together with regulatory requirements for the UK. For countries outside of the UK, please refer to your countries own regulations and national standards.

General

The installation of the Nova product must be in accordance with local building regulations and associated National Standards and Codes of Practice.

For additional guidance, reference can be made to EN 12391-1: 2003: Chimneys – Execution standard for metal chimneys – part 1: Chimneys for non-roomsealed heating appliances. The National Annex NA of EN 12391-1: 2003 will detail the national requirements for the particular country.

Every chimney section and fitting shall be used as manufactured for assembly on site without any alteration or cutting.

Components are joined with a sixteenth of a turn twist-lock, and secured with a locking band.

All components must be installed with the male coupler facing up as detailed in Fig.1 on page 3.

Nova is suitable for both internal and external applications. Where used on high efficiency condensing appliances, a range of components are available to permit deliberate drainage of condensate, either back to the condensate removal component within the chimney system, or through the heating appliance. No part of the chimney system should be constructed to form an angle greater than 45° from the vertical.

Although components are included that will permit horizontal application, they should only be used for connection to the appliance. Where the system is being used for a condensing application, sections must run at an angle not less than 5° from the horizontal, using tees, elbows and fittings designed for that purpose. Failure to provide adequate drainage could lead to premature failure of the product and seal.

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 see tables on page 14. Building regulations will not permit more than one offset in any chimney run, (i.e. 2 elbows). However that excludes any elbow used to make the connection to the appliance.

Where an offset is used, the length of chimney between the two elbows MUST NOT exceed 20% of the total length of the chimney.

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.

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 firestop. When connecting to a single wall connecting flue or vitreous pipe, at least 150mm of Nova must project below the appliance room ceiling before connection is made. Under no circumstances must there be a joint within the thickness of any floor space.

The internal diameter of the chimney must conform to the

requirements of the appliance manufacturers instructions and should not, under any circumstances, be less than the diameter of the appliance outlet.

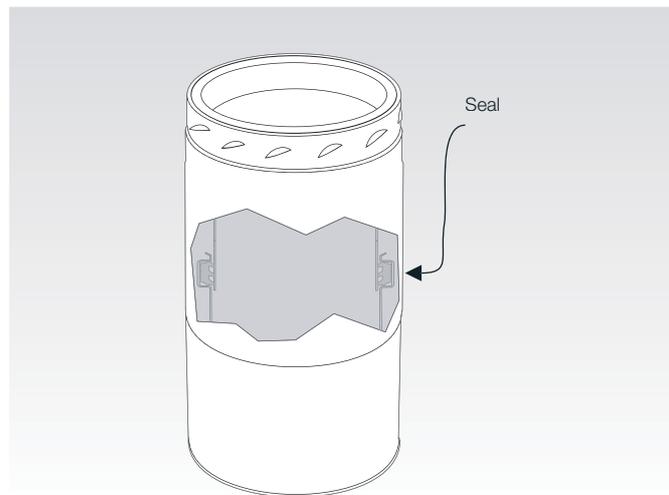
The height of the chimney will depend on the building structure, however a height of 4.5 metres from the top of the appliance outlet to termination is considered the minimum for solid fuel. To prevent excessive cooling of the flue gases when connecting a single wall flue pipe from the stove to the Nova chimney, SFL recommends that the length of the single wall pipe is no more than 1.0 metre.

Adjustable lengths

Each adjustable length is supplied in two halves together with an insulation pack. When required for positive pressure or wet systems, two standard seals are required in addition to the adjustable length. Fit and lubricate seal, if required in the bottom half section and at top section joint.

Depending on the required finished length of the component, additional insulation is added to the annulus of the top section. The top section is then slid over the bottom section and the component installed. Self-tapping screws are then used to secure the overlapping sections.

The adjustable length does NOT load bear. Always use a wall support or support plate immediately above this component when vertically applied. Adjustable lengths should maintain at least a clearance of 300mm to combustible materials.



Data plate

It is a requirement that a data plate is completed by the installer. The plate shall be permanent and indelibly marked, e.g. engraved metal plate, impressed or printed plastic plate and fixed in a visible position. Possible locations for the plate could be by the cleaning/inspection access, at the side of the appliance/fireplace, at the chimney inlet or by the electricity/gas/water meter. Data plates are available from SFL Customer Services Dept. See Installation Instructions for further information.

Installation instructions

Installation criteria for maximum freestanding height

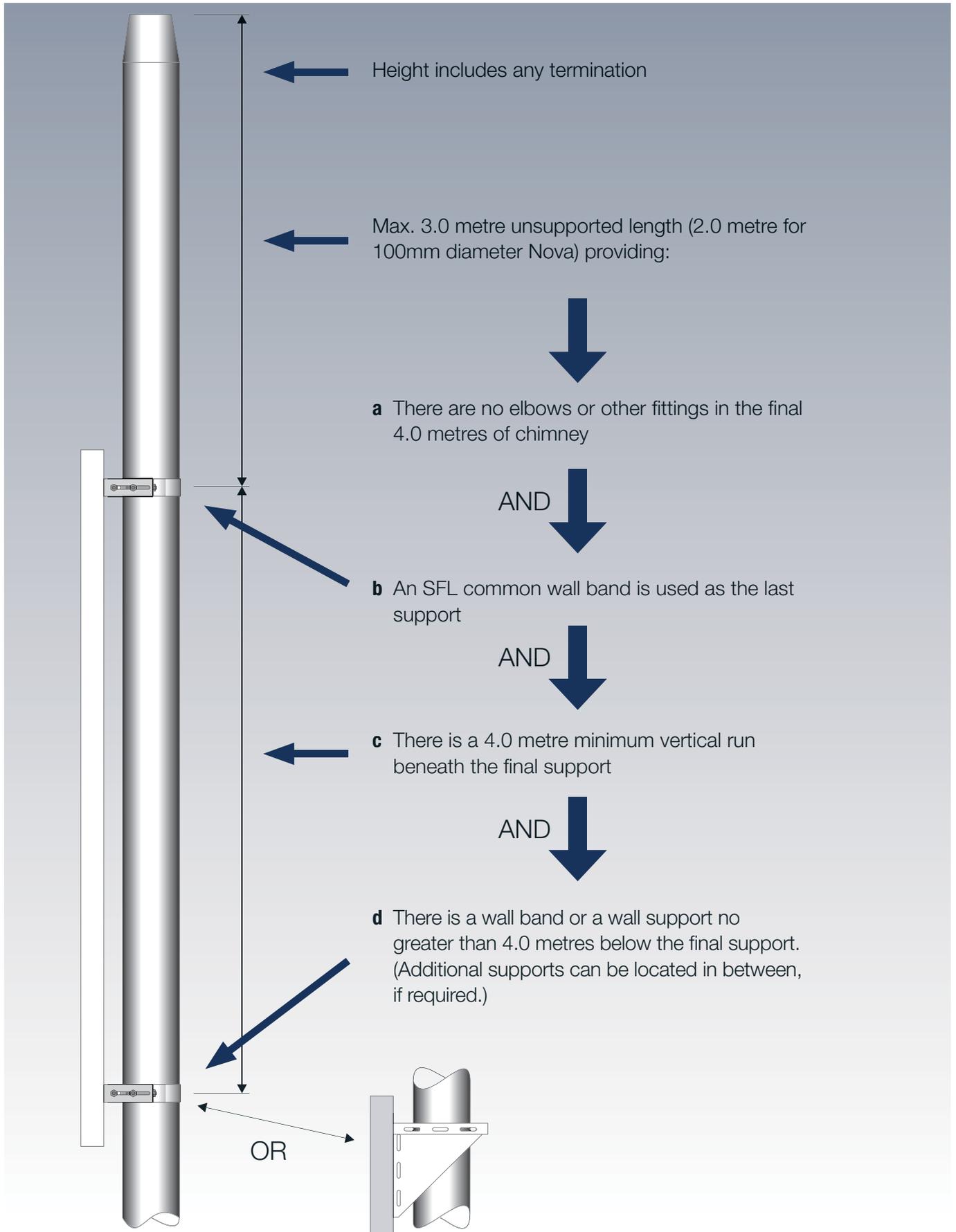


Fig. 4 Maximum unsupported termination detail

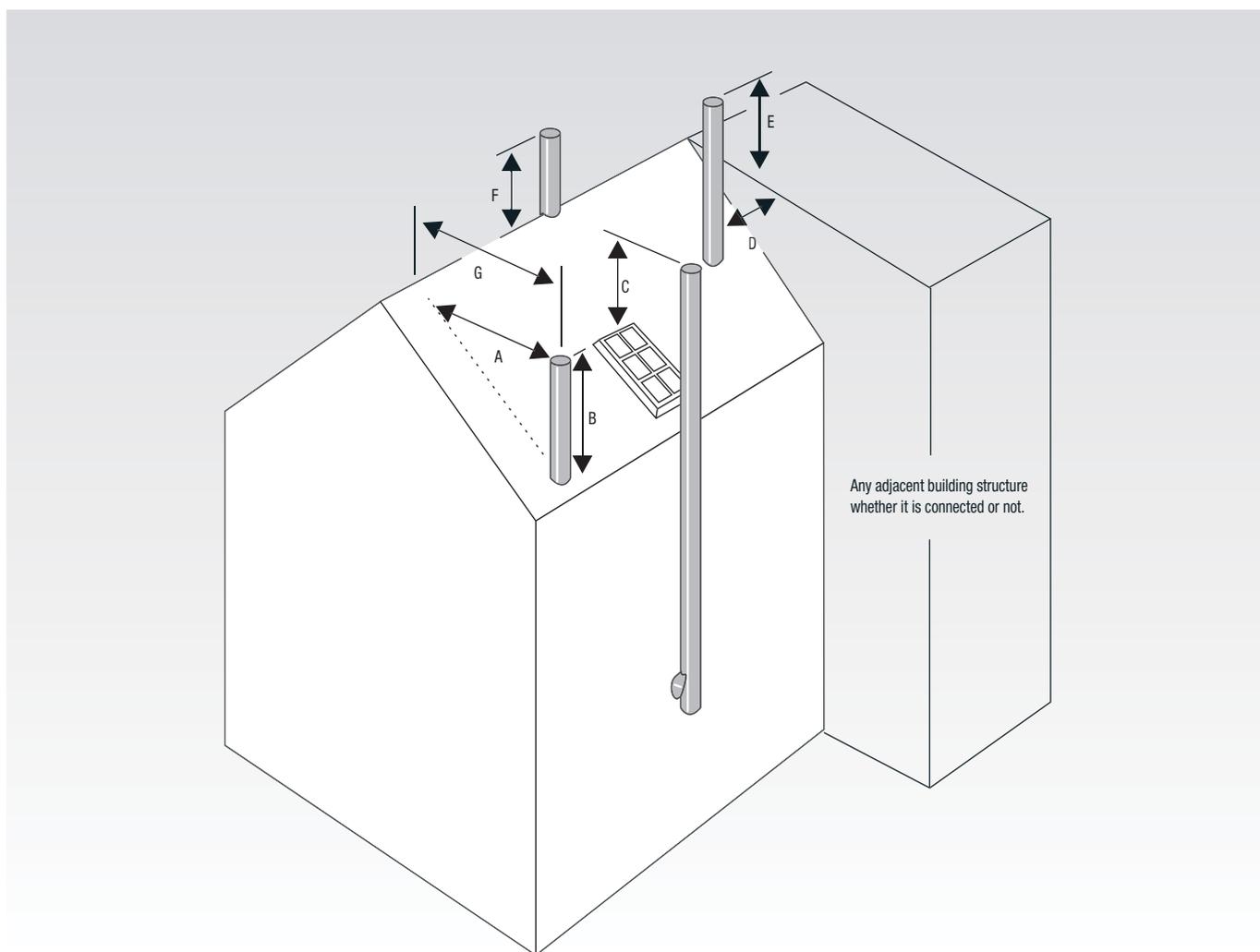
Installation – chimney termination

Chimney termination heights and positions are subject to current Building Regulations and National Standards. The illustrations are based Approved Document J of the Building Regulations for solid fuel and oil fired appliances. Domestic natural gas fired appliances are governed by BS5440-1: 2008. All other European countries are governed by their own Regulations, however reference can be made to the countries National Annex of BS EN 15287-1: 2007 for individual requirements.

If the chimney serves an oil fired appliance with a pressure jet burner, the chimney must discharge a minimum 600mm above the roof penetration point, or any adjacent structure, if it is within 750mm. It must also be at least 600mm from any opening into the building and 300mm from any combustible material.

Where used with an oil fired appliance with a vapourising burner, termination must comply with the details in Fig. 5.

Fig. 5 Termination over solid fuel, wood and draught hooded oil fired appliances



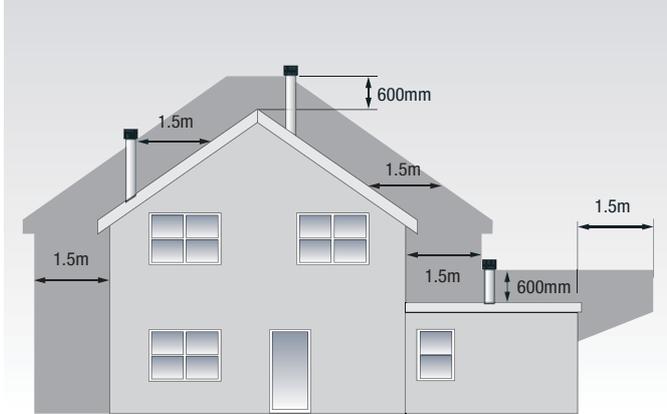
Minimum distance measured from the top of the chimney construction, excluding any pot or terminal.

- 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.
- 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 can be 600mm above the ridge.

NB: All dimensions relate to the underside of the terminal.

Installation – chimney termination over gas appliances

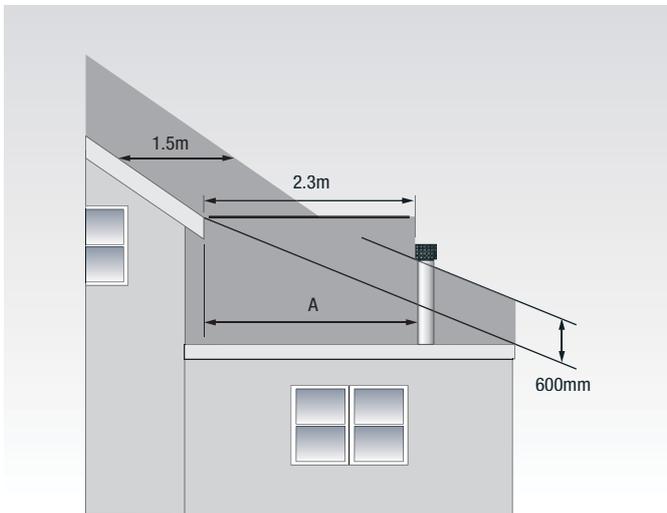
No part of the flue outlet shall be less than 1.5 metres measured horizontally to the roof surface, or any wall. Where the flue terminates above the ridge, it shall do so by not less than 600mm, other than where the flue terminates with a purpose designed ridge terminal.



The flue shall terminate outside the dark shaded zone.

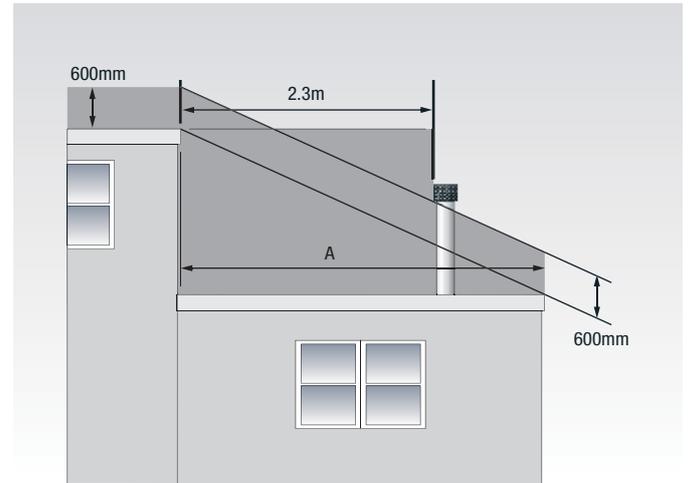
Termination through an extension roof adjacent to a sloped roof taller building

Where passing through a roof of an extension or lower part of a building, the terminal must be located not less than 2.3 metres from the structure. It must also terminate not less than 600mm above an imaginary line drawn between the outer edge of the extension, or 10 metres, (A), which ever the longer, and the edge of the higher roof, including any roof of an adjacent but separate building.



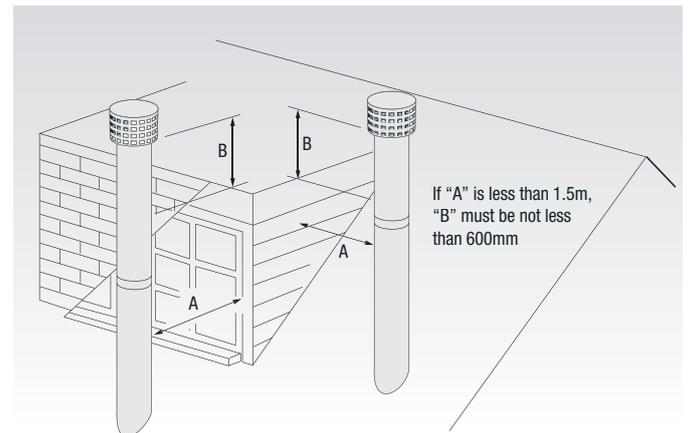
The flue shall terminate outside the dark shaded zone.

Termination through an extension roof adjacent to a taller flat roof building

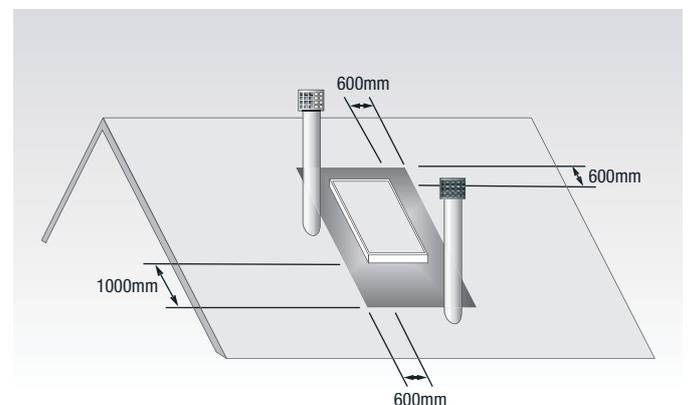


The flue shall terminate outside the dark shaded zone.

Termination above a pitched roof with structures for gas appliances



Terminals on flues serving gas-fired appliances adjacent to windows or openings on pitched and flat roofs



The chimney should not penetrate the dark shaded area.

The information contained in this brochure was accurate at the date of publishing. However the company reserves the right to introduce at any time modifications and changes of details as may be necessary. To avoid any misunderstanding, interested parties should contact the company to confirm whether any material alterations have been made since the date of this brochure.



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