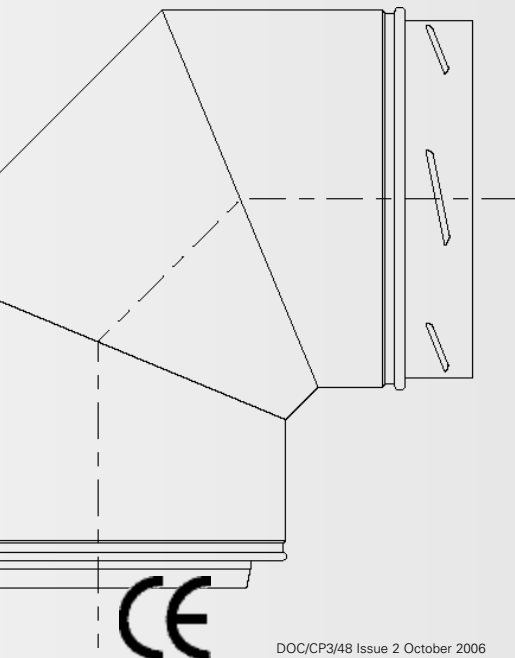


SCHIEDEL

 RITE-VENT



DOC/CP3/48 Issue 2 October 2006

ICID

**125 - 300mm internal diameter
Atmospheric &
condensing applications**

- Stoves and open fires
- Residential & small commercial applications
- Twin wall insulated chimney system for gas, oil, wood and multi-fuel.
- Oil and gas appliances up to 150kw
- Quick assembly twist-lock joint
- Available in stainless steel, copper and paint finish

A company of  **LAFARGE**
ROOFING

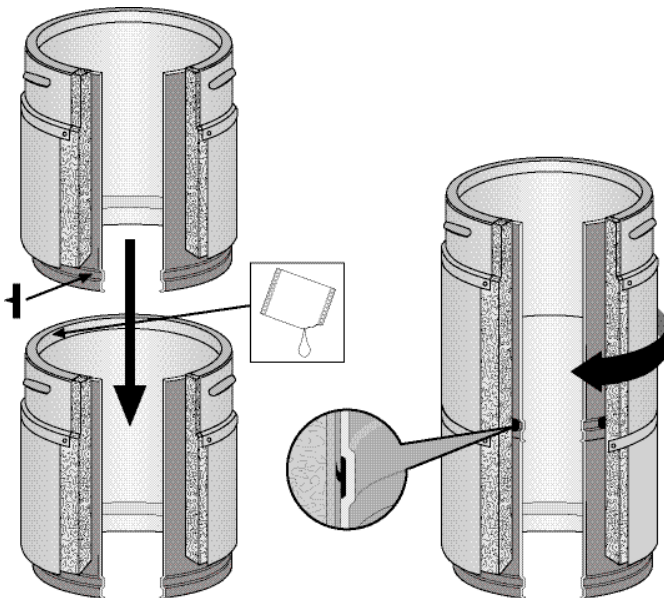
Application

ICID is a twin wall insulated chimney system specifically designed for use on stoves, class 1 chimneys, residential and small commercial and multi fuel appliances with continuous operating temperatures up to 450°C. The system is designed so that the laser welded 304BA stainless steel outer case is load bearing and the laser welded 316L stainless steel inner liner is free to expand independently to accommodate temperature change. It is soot fire resistant.

ICID PLUS

When fitted with a gasket on the liner spigot at every joint, ICID converts into a twin wall insulated chimney system designed for the new generation of condensing gas and oil appliances. Typically in this form the system can be operated at continuous operating temperatures up to 200°C, short firing up to 260°C and positive pressure up to 200Pa at the appliance outlet.

Product Description



ICID

- Twist-lock bayonet jointing system. Secured by locking band.
- Advanced corrosion resistant design and construction uses laser welded 316L stainless steel inner liner and 304 stainless steel case. The only stainless steel system to have passed the internationally recognised GASTEC corrosion test.
- The 25mm high efficiency Superwool™ blanket maintains flue gas temperature, maximising efficiency, improving flue draught on start up and minimising condensation.
- Low external case temperature.
- Inner liner held rigidly by the male locking collar but free to expand and contract with temperature through the female collar by up to 18mm. Can withstand the temperatures of a soot fire without losing the integrity of the joints.
- The inner liner has an inward bead at the female end which acts as a capillary break preventing moisture being drawn through the joint. See figure 1.

ICID PLUS

- A gasket can be fitted to the bead of the inner liner creating a pressure-tight seal up to 200 Pa for use with condensing appliances. See figure 1.

Approvals



ICID is **CE Certified to EN1856-1Tuv 0036CPD9195010** with designations T450 NI W V2 L50050 G75,

T450 NI D V3 L50050 G75, T450 NI W V2 L50050 G50, T450 NI D V3 L50050 G50, T200 PI W V2 L50050 025.

ICID complies with the requirements of Building Regulations Document J when installed in accordance with BS 7566 Part 4 and has been tested by TÜV Munich in accordance with:- EN 1856-1, EN 1859-2000 and EN 13216-1.

Corrosion Resistance

Chimneys are subject to significant corrosion attack by flue gas condensates, particularly from solid fuel and condensing appliances. ICID is specifically designed and manufactured to resist this corrosion. It is the only stainless steel chimney system in the world to have passed the internationally recognised Gastec corrosion test.

Flue Selection Guide

The chimney size should be as recommended by the appliance manufacturer. Where there is a requirement for a flue diameter smaller than the appliance spigot, then the operational requirements of the appliance and the configuration of the flue must satisfy the flue sizing requirements of DIN4705.

For more information contact the installer helpline.

The information and sizes below are provided as a nominal guide only. Flue sizing for appliances, particularly commercial/industrial applications, will vary depending on siting details and appliance manufacturer's instructions and design criteria. These will override the sizing guide and reference must be made to appliance manufacture. For Inglenook and non-standard openings, the diameter of the flue must be at least 15% of the cross sectional area of the fireplace opening.

Technical Data		
	ICID	ICID Plus
Fuel	GAS, OIL, WOOD, COAL	GAS, OIL
Continuous Firing Temp	450°C	160°C
Short Firing Temp	550°C	200°C
Thermal Shock	1000°C	-
Mode of Operation	ZERO & NEGATIVE PRESSURE	POSITIVE PRESSURE
Pressure Capabilities	40Pa	200Pa
Outer Case	304 : 1.4301 : X5CrNi 18-10	
Outer Case Thickness	0.46mm	
Seam	LASER OR INERT GAS WELDED	
Liner	316L : 1.4404 : X2CrNiMo 17-12-2	
Liner Thickness (mm)	0.6mm	
Seam	LASER OR INERT GAS WELDED	
Insulation	HIGH PERFORMANCE MINERAL FIBRE	
Insulation Thickness	25mm	
Average Thermal Resistance (200°C)	0.508m ² k/w	

	80 mm	100 mm	130 mm	150 mm	180 - 400mm
Gas - Atmospheric Boiler					
Input up to 25kw		•			
Input 25kw to 40kw			•		
Input 40kw to 60kw				•	
Gas - Commercial/Ind. Boiler					
Input 50kw to 70kw					•2
Gas Fires					
'Radiant' to BS7977-1 2002			•		
'Inset' to BS7977-1 2002			•1		•1
'Backboiler' to BS7977-2 2003			•		
Gas Water Heaters					
Input up to 25kw	•	•			
Input 25kw to 55kw			•		
Input 55kw to 60kw				•	
Input over to 60kw					•2
Gas Warm Air Unit					
Input up to 18kw		•			
Input 18kw to 35kw			•		
Input 35kw to 60kw				•	
Input over to 60kw					•2
Gas Stove/Cooker		•2	•2	•2	
Kerosene (28sec Class C2)					
Heating Boiler					
Output up to 25kw		•			
Output 25kw to 45kw			•		
Output 45kw to 70kw				•	
Kerosene Stove/Cooker		•3	•3	•3	
Kerosene Water Heater					
Input up to 41kw				•	
Kerosene Visual Effect Stove					
Output up to 17kw		•3	•3		

	100 mm	130 mm	150 mm	180 mm	200 mm	230 mm	250 - 400mm
Gas Boiler - Forced Draught							
Input up to 25kw	•						
Input 25kw to 45kw		•					
Input 45kw to 50kw			•				
Input 50kw to 75kw				•			
Input 75kw to 100kw					•		
Input over to 100kw						•	•2
Gas Fires							
'Inset' to BS7977-1 2002				•1			
'Decorative' BSEN 509:2000				•			
Gas Oil (35sec Class D)							
Heating Boiler							
Output up to 25kw	•						
Output 25kw to 45kw		•					
Output 45kw to 70kw			•				
Output 70kw to 100kw				•			
Output over 100kw					•3	•3	•3
Solid Fuel							
Heating Boiler							
Input up to 20kw			•S	•SC			
Input 20kw to 30kw				•S	•SC	•SC	
Input 30kw to 60kw					•SC	•SC	•SC
Open Fires (standard opening)							
500mm x 550mm					• 200min		
Avant Garde Feature Open Fires							•4
Room Heaters			•S				
Wood burning stoves and cookers Use only seasoned wood.			•	• 200min			
Inglenook/ non-standard opening Flue size dependant on cross-sectional area of fireplace opening.							• 230min

** The above information and sizes are provided as a nominal guide only. Flue sizing for appliances, particularly commercial/industrial applications will vary depending on siting details and appliance manufacturer's instructions and design criteria. These will override the above sizing guide and reference must be made to appliance manufacturer.

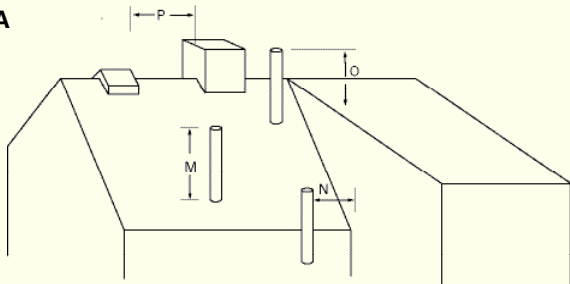
System Design

Outlet Siting

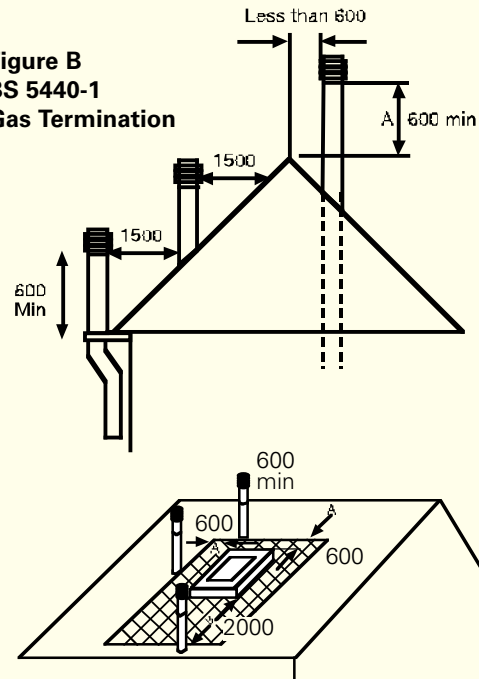
Flue terminations for solid fuel & oil are subject to BS7566 Parts 1, 2, 3 and 4. **Figure A** illustrates recommendations for the most commonly encountered outlet terminations. Flue terminations for gas in domestic situations are governed by the new BS5440-1 2000 Section 4.2. **Figure B** illustrates recommendations for the most common siting situations encountered. Adjacent taller structures may require increased height. The minimum flue projection through the roof is 600mm to the underside of the terminal.

Location of Outlet

Fig A

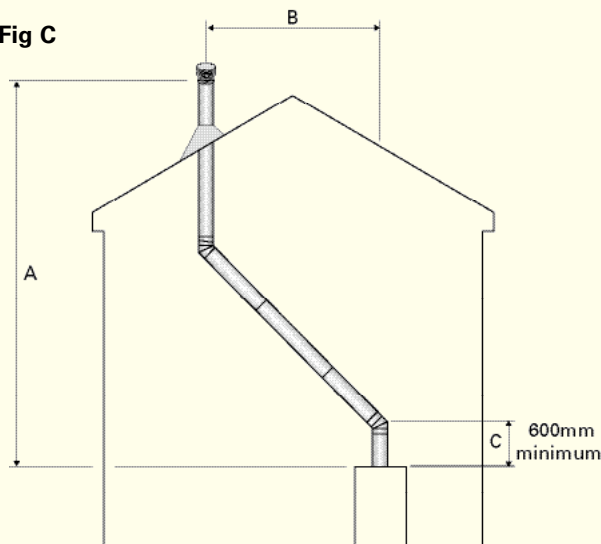


**Figure B
BS 5440-1
Gas Termination**



	Location of Outlet	Application: pressure jet burner	Application: vapourising burner	Solid Fuel
M	Above the highest point of an intersection with the roof	600mm	1000mm	1000mm
N	From a vertical structure to the side of the terminal	750mm	2300mm	2300mm
O	Above a vertical structure which is less than 750mm (pressure jet burner) or 2300mm (vapourising burner) horizontally from the side of the terminal	600mm	1000mm	1000mm
P	From a ridge terminal to a vertical structure on the roof	1500mm	should not be used	-

Fig C



Flue Routing

The chimney should remain as straight as possible through its vertical run to assist flow. Should it be necessary to offset a chimney run the following guidelines should be adhered to:

Gas: An offset no greater than 45° to the vertical, with a run between the bends (B) not exceeding half the overall height of the chimney (A) should be maintained.

Oil - Solid Fuel: An offset no greater than 30° to the vertical, with a run between the bends not exceeding 20% of the overall height of the chimney should be maintained.

In both instances a maximum of two bends in any one chimney run should be used. A vertical rise of 600mm should be allowed immediately above the appliance before any offsets. Reference for both guidelines can be found in the Building Regulations Doc J and relevant British Standards on installations.

Terminal Types

For solid fuel appliances, BS7566 Parts 1, 2, 3 and 4 recommends use of an open terminal for chimneys up to 200mm diameter. Rain ingress should not be significant, but drain components can be fitted. Above 200mm a covered terminal can be used, and for all oil and gas installations.

Mesh carries the risk of sooting and requires regular cleaning to avoid blockage particularly with oil and solid fuel.

Provision for sweeping, cleaning and maintenance

Provision should be made for inspecting and cleaning the chimney. This is particularly important on solid fuel applications. It is recommended that chimneys serving solid fuel appliances be swept as frequently as necessary but at least twice a year. Choose an access component suitable for your installation unless cleaning/inspection can be done through the appliance.

Room Ventilation

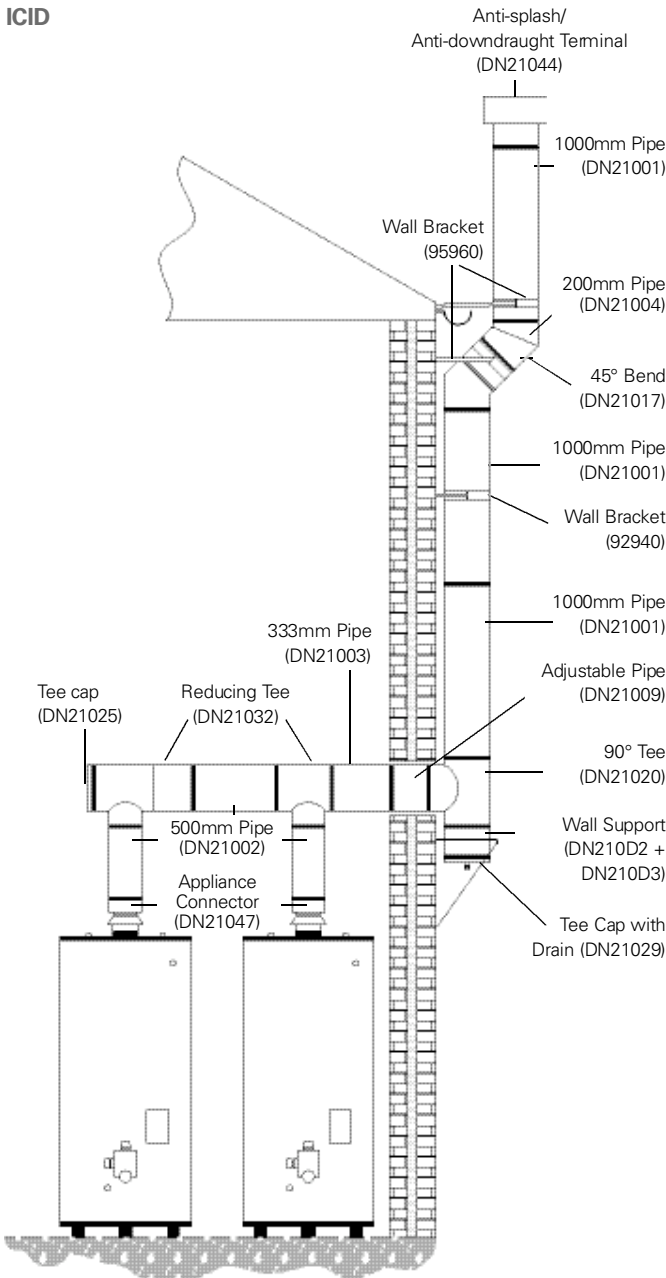
The room carrying the appliance should have an air vent either direct to an external air source or vented into a room that has an external vent direct to an air source. This is required to provide adequate air supply to allow the appliance and flue to operate efficiently. These requirements are specified in the Building Regulations (Document J) also by CIBSE and BS5440.

Provision for condensate disposal (subject to appliance manufacturer recommendations)

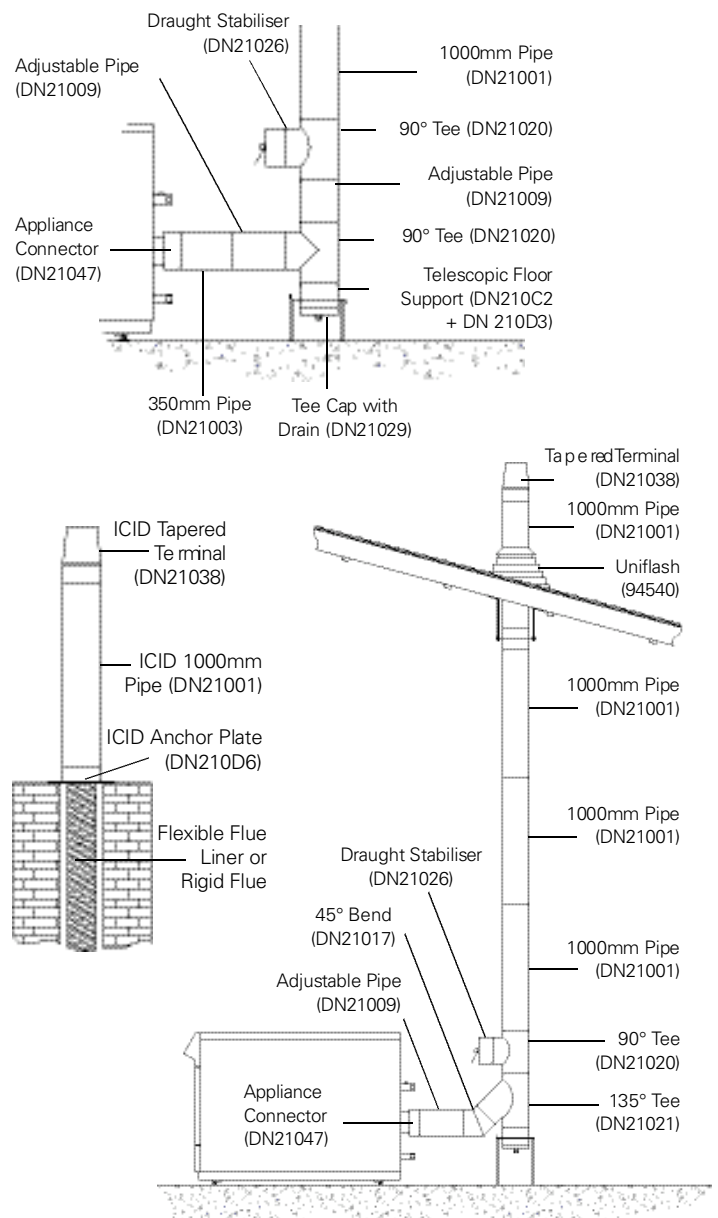
Normally solid fuel and atmospheric gas and oil appliances will not need a drain unless rain ingress is significant. Most condensing appliances however need provision for drainage. As a rule of thumb a condensing boiler produces 1 to 1.5 litres of condensate per hour per 10kw of input. This is a significant amount of acidic liquid which must be drained from the system. Choose appropriate flue drainage components, normally fitted at the base of the stack and close to the appliance outlet.

A 5° slope on horizontal runs is advised, using the appropriate 85° or 40° bend and 95° tee.

ICID



ICID Single



Dimensions

The dimensions of the flue are:

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358

Product Ordering

To identify fully the component required it is necessary to state the product code followed by diameter as follows.

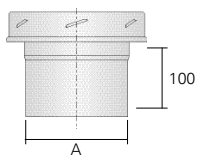
- Quote the product code followed by the internal diameter. eg, for a 150 Int Ø ICID 45° bend, the full code would be DN21017150.
- Codes starting with a number 9 are universal accessories common to a number of Rite-Vent ranges and therefore require definition of the external diameter. eg, to specify the wall band 50mm to suit a 150 Int Ø system, the external diameter is 200mm therefore the full code is 92940200.

Finish

Copper ICID is available with a copper casing instead of the standard 304 stainless. Normally supplied unprotected so that the finish weathers down, this can be particularly beneficial to meet architectural styling requirements, suitability for listed buildings etc.

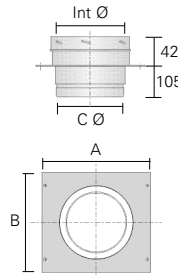
Paint ICID can be supplied ready painted in any RAL colour.

Starting Components



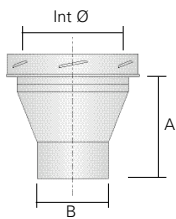
Appliance/Vitreous Connector DN21047

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A Ø	123	148	178	198	247	297



Anchor Plate/Chimflex Adaptor DN210D6

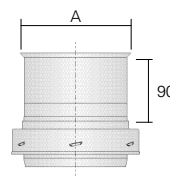
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	300	320	355	375	428	478
B	280	300	335	356	408	458
C Ø	123	148	178	198	245	295



Single Wall Increaser DN21107

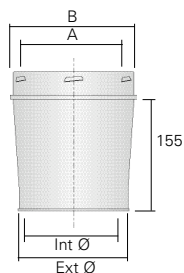
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	80	110	110	80	140	140
B Ø	100	127	150	170	225	250

Used mainly to connect a flue one size bigger than the appliance outlet when instructed by the appliance manufacturer, e.g. for when the fuel is coal rather than wood.



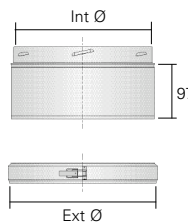
Adaptor ICID to Chimflex DN21079

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A Ø	133	163	188	208	258	308



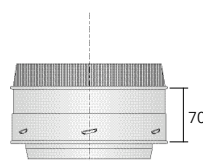
Increaser DN21071 + Int + A

Int Ø mm	125	150	180	200	250
Ext Ø mm	180	200	235	256	308
A Ø	150	180	200	250	300
B Ø	200	235	256	308	358



Adaptor ICID from SM DN21055

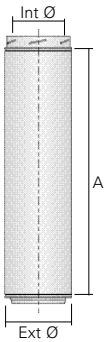
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
SM Int Ø	127	152	178	203	254	304



Adaptor ICID to SM DN21080

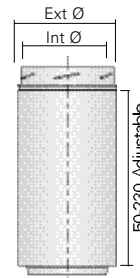
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
SM Int Ø	127	152	178	203	254	304

Pipes



Nominal Length	Effective Length 'A'	Code No
1000	960	DN21001
500	460	DN21002
333	293	DN21003
200	160	DN21004

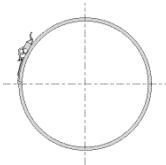
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358



Adjustable Pipe 50 - 230mm DN21009

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358

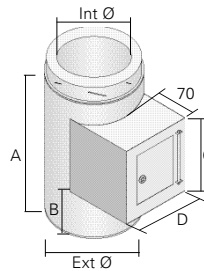
Complete with locking band. Telescopes over pipe below. Minimum engagement should be half the diameter. This component is NOT load-bearing.



Locking Band DN21083

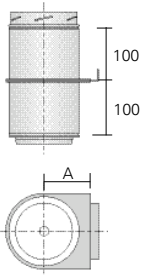
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358

This item is supplied with pipes, bends, tees and terminals.



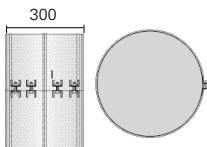
Inspection Length DN21011

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	460	460	460	460	460	460
B	95	95	95	95	95	95
C	260	260	260	260	260	260
D	230	230	230	230	230	230



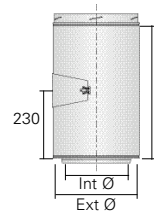
Damper Pipe DN21058

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A Ø	127	137	155	165	191	216



Extended Locking Band DN21092

Use on horizontal runs to achieve 4m between supports. Also use to avoid guy wires and to achieve 3m unsupported above roof level by fitting to the joint immediately below every joint above roof level.



Inspection Pipe DN210A4

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358

Gasket to convert ICID to ICID Plus

Fit into the groove form on all male spigot liners.

Silicone Gasket S000



Int Ø	125	150	180	200	250	300
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Viton Gasket V000

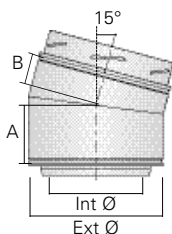


Int Ø	125	150	180	200	250	300
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For use on oil applications. To comply with the requirements of EN1856-1 which became effective on installations from April 2006.

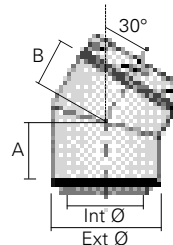
Bends

Note: To enable exact system alignment, female sockets of bends are made without locating flutes. Consequently female sockets of bends MUST be locked after alignment either with a locking band or self-tapping screws.



15° Bend DN21018

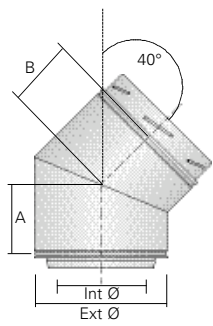
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	63	63	63	64	72	71
B	45	46	48	50	53	57



30° Bend DN21019

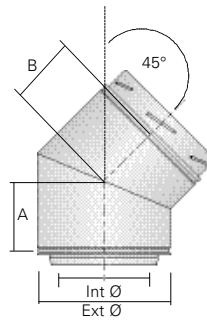
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	66	70	73	77	85	92
B	57	61	64	68	76	83

Bends cont'd



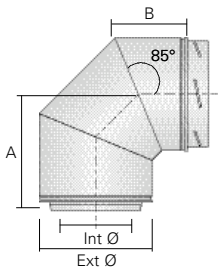
40° Bend DN210A9

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	113	116	122	125	135	145
B	68	71	77	80	90	100



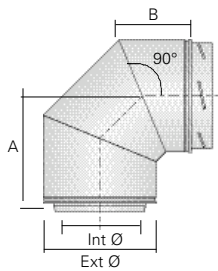
45° Bend DN21017

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	79	83	91	95	106	116
B	70	74	82	86	97	107



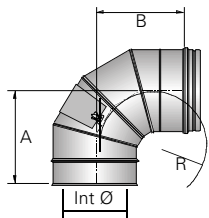
85° Bend DN210A8

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	176	185	199	208	231	256
B	130	139	153	162	185	210



90° Bend DN21015

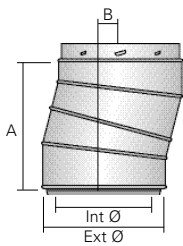
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	146	156	174	184	210	235
B	137	147	165	175	201	226



90° Inspection Bend DN210A2

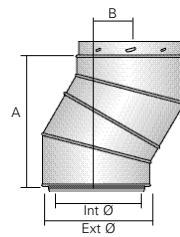
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	184	194	209	219	244	272
B	139	149	164	174	199	277

Offsets



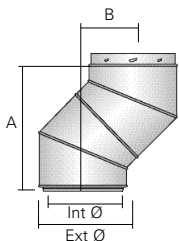
Offsets for Double 15° Bend

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	212	214	218	224	246	252
B	28	28	29	30	32	33



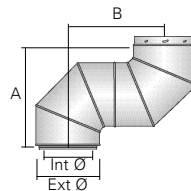
Offsets for Double 30° Bend

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	230	244	256	271	304	327
B	62	66	69	73	81	88



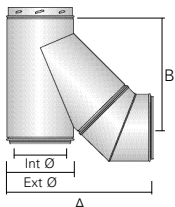
Offsets for Double 45° Bend

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	254	268	295	309	347	381
B	105	111	122	128	144	158



Offsets for Double 90° Bend

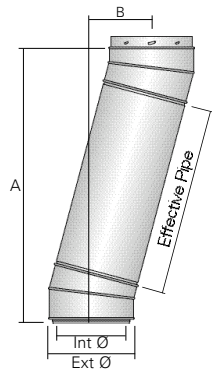
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	283	303	339	359	411	461
B	283	303	339	359	411	461



Offsets for 135° Tee and 45° Elbow

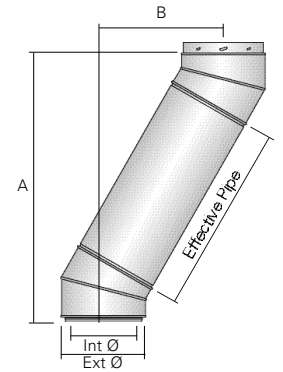
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	389	425	497	532	621	706
B	310	334	376	402	464	525

Offsets cont'd



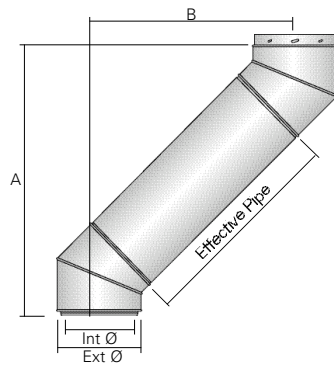
**Double 15° Bend
C/W Pipe Length**

	Int Ø	125	150	180	200	250	300
	Ext Ø	180	200	235	256	308	358
960 EFF Pipe	A	1140	1142	1146	1151	1173	1179
	B	276	277	277	278	281	282
460 EFF Pipe	A	657	659	663	668	690	696
	B	147	147	148	149	151	152
293 EFF Pipe	A	495	497	501	507	529	535
	B	104	104	105	105	108	109
160 EFF Pipe	A	367	369	373	379	400	406
	B	69	70	70	71	74	75



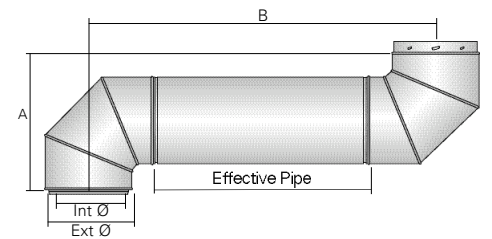
**Double 30° Bend
C/W Pipe Length**

	Int Ø	125	150	180	200	250	300
	Ext Ø	180	200	235	256	308	358
960 EFF Pipe	A	1061	1076	1087	1102	1132	1158
	B	542	546	549	553	561	568
460 EFF Pipe	A	628	643	654	669	699	725
	B	292	296	299	303	311	318
293 EFF Pipe	A	483	498	509	524	554	580
	B	208	212	215	219	227	234
160 EFF Pipe	A	368	383	394	409	439	465
	B	142	146	149	153	161	168



**Double 45° Bend
C/W Pipe Length**

	Int Ø	125	150	180	200	250	300
	Ext Ø	180	200	235	256	308	358
960 EFF Pipe	A	933	947	974	988	1025	1060
	B	784	790	801	807	822	837
460 EFF Pipe	A	580	593	621	634	672	706
	B	431	436	448	453	469	483
293 EFF Pipe	A	462	475	503	516	554	588
	B	313	318	330	335	351	365
160 EFF Pipe	A	367	381	408	422	460	494
	B	218	224	235	241	257	271

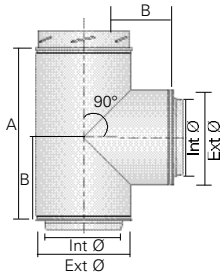


**Double 90° Bend
C/W Pipe Length**

	Int Ø	125	150	180	200	250	300
	Ext Ø	180	200	235	256	308	358
960 EFF Pipe	A	283	303	339	359	411	461
	B	1243	1263	1299	1319	1371	1421
460 EFF Pipe	A	283	303	339	359	411	461
	B	743	763	799	819	871	921
293 EFF Pipe	A	283	303	339	359	411	461
	B	576	596	632	652	704	754
160 EFF Pipe	A	283	303	339	359	411	461
	B	443	463	499	519	571	621

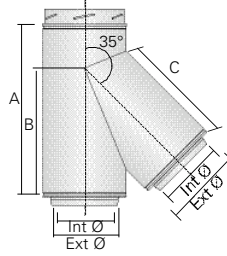
Tees and Accessories

Note: To enable exact system alignment, female sockets of tees are made without locating flutes. Consequently female sockets of tees **MUST** be locked after alignment either with a locking band or self-tapping screws.



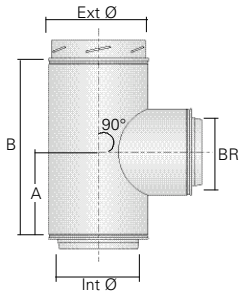
90° Tee DN21020

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	246	329	354	394	446	496
B	127	162	175	195	221	246



135° Tee DN21021

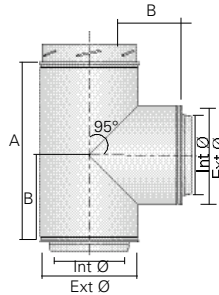
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	336	365	414	444	517	588
B	259	283	326	351	414	474
C	259	283	326	351	414	474



90° Reducing Tee DN21032 + Int +BR

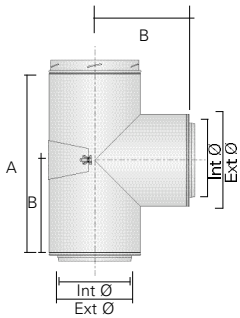
Int Ø mm	150	180	200	250	300
A	162	175	195	221	246
B	325	350	390	442	492
BR Ø	125	150	180	200	250
		125	150	180	200
			125	150	180
				125	150
					125

To order quote DN21032 followed by main bore Ø followed by branch Ø.



95° Tee DN21102

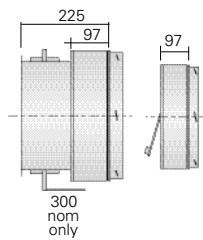
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	246	329	354	394	446	496
B	135	169	183	195	232	246



Inspection Tee DN210A3

For dimensions refer to 90° Tee DN21020.

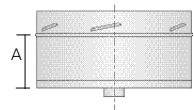
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	246	329	354	394	446	496
B	127	162	175	195	221	246



Draught Stabiliser Section DN21026

Used to regulate excessive draught conditions within the chimney system.

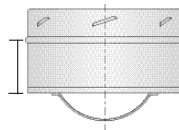
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358



Insulated Tee Plug and Drain DN21029

This component provides a removable trap for condensate at the base of the vertical stack.

Int Ø mm	125	150	180	200	250	300
A	110	115	110	110	120	130

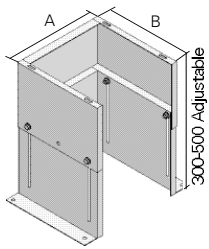


Insulated Tee Plug DN21025

This component is used to provide access into a Tee to facilitate cleaning and inspection.

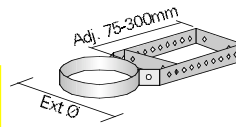
Int Ø mm	125	150	180	200	250	300
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Support Components



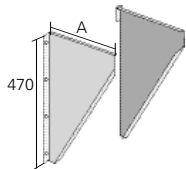
Floor Support (Adjustable) DN210C2

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	154	180	230	256	308	358
A	300	320	355	375	428	478
B	275	295	330	351	403	453



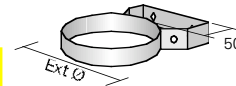
Wall Band (300mm extension) 95960
Internal/external use

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358



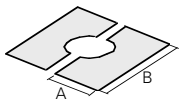
Wall Support Side Plates DN210D2
Stainless Steel

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	275	295	325	345	395	450



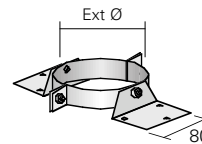
Wall Band (50mm) 92940
Internal/external use

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358



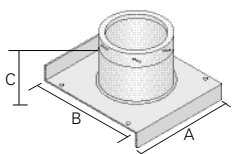
Roof Plate 94720

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	255	270	295	310	350	380
B	450	450	450	610	610	610



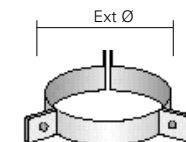
Roof Support 94640

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358



Wall Support Intermediate Top Plate DN210D3

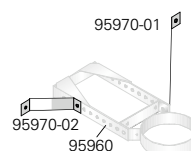
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	300	320	355	375	428	478
B	280	300	355	356	408	458
C	42	42	42	42	42	42



Guy Wire Bracket 95900

This accessory should be used to secure free standing chimney sections.

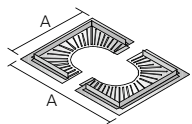
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358



Anti Swing Stay
(Pair)

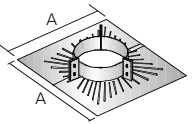
Short 95970-02
Long 95970-01

Support Components cont'd



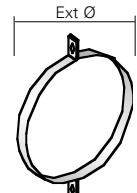
Firestop Plate 94730
(2 piece)

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A Ø	430	450	485	506	558	608



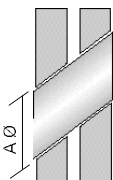
Support Plate 95740
(2 piece)

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	430	450	485	506	558	608



Ceiling Hanger 95750
This accessory is designed to support runs of chimney from the roof or ceiling.

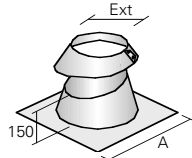
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358



Wall Sleeve 94980
This component must be used where the chimney is passing through an external wall. It is supplied 400mm long to enable it to be cut to the necessary length on site.

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A Ø	230	250	280	306	358	408

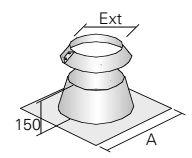
Flashings



Angled Flashing 5°- 45° 95510

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	610	700	700	800	800	860

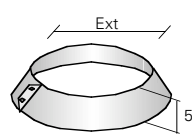
For use on pitched roofs.



Flat Flashing 95530

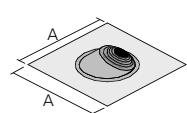
Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	610	610	610	610	610	610

For use on flat roofs.



Storm Collar 95560
(Stainless Steel)
Available as an optional extra.
For use with flat flashing or for use as a trim collar.

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358

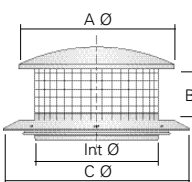


Uniflash 94540

Product code	94540001	94540002	94540003
Ext Ø mm	80 - 200	150 - 300	250 - 450
A	500	685	800

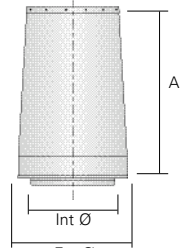
Universal EPDM rubber/aluminium flashing. Just pull the required diameter tab on the rubber seal.

Terminals



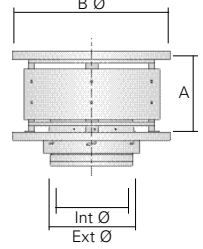
Raincap (without mesh) DN21056
Raincap DN21037

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A Ø	266	266	362	362	362	509
B	80	80	80	100	120	140
C Ø	272	272	325	325	420	420



Insulated Tapered Terminal DN21038

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	200	200	204	240	240	375



Anti-Splash Anti-Downdraught Terminal (Gastec Approved)
With Mesh DN21043
Without Mesh DN21044

Int Ø mm	125	150	180	200	250	300
Ext Ø mm	180	200	235	256	308	358
A	130	175	200	200	250	300
B Ø	254	304	359	409	509	609

Installation

Mandatory Requirements

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 a CORGI (gas) or OFTEC (oil) registered installer.

The flue system must be installed to comply with Building Regulations Document J (in England, Wales & Northern Ireland) Regulations for Scotland. The installation must also comply with BS7566 pts 1,2,3,4 for oil flues and BS5440 pt 1: 2000 for gas flues up to 70kw.

Jointing

The joint is locked by rotating the upper section clockwise. To secure the joint, the locking band supplied with the female end of all components must be used. To allow alignment, the female section of the locking collar on tees and elbows have no locating flutes. For this reason these joints **MUST** be secured using the locking band.

For condensing applications a lip seal gasket must be fitted in the bead of the projecting liner spigot of every joint. The gasket should be fitted dry and lubrication applied to the internal of the socket into which it is to be assembled.

Adjustable Length

An ICID adjustable length allows adjustment from 75mm up to 250mm. Assembly is achieved by fitting the adjustable length over the preceding pipe. Remove insulation as necessary and secure when desired length is achieved using jointband supplied. The adjustable is not load-bearing, therefore adequate support must be provided immediately above.

Connection to Appliance

Always use an appliance connector, sealed using fibre rope and fire cement or high temperature sealant. The inner liner should not project below the appliance outlet spigot and can be cut to length if required.

Appliance Removal

Use of a pipe length and an adjustable length immediately above the appliance enables removal of the appliance later without dismantling the full system.

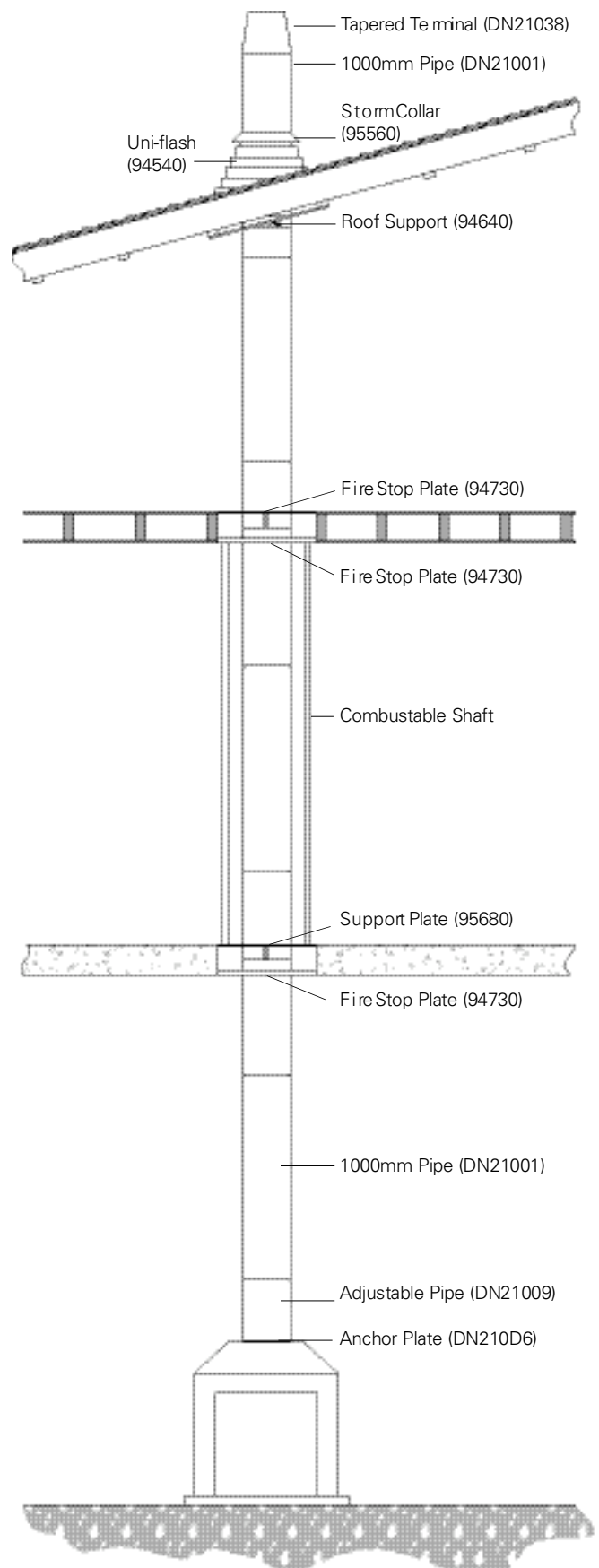
Painting of ICID

If required to be painted, simply clean the surface with a solvent cleaner (White Spirit), apply a coat of primer and a top coat of high temperature paint e.g. enamel. Extreme care must be taken when cleaning with solvent to ensure that it does not come into contact with the insulation within the cavity.

Recommended distances to combustibles

In accordance with building regulations it is essential that the required distance to combustible materials is maintained throughout the chimney system. For gas and oil this is 50mm and for solid fuel 75mm. ICID support components provide this as standard.

ICID Solid Fuel Chimney



Support Components

The weight of a chimney system is considerable and requires independent support. No weight should be taken by the appliance. A wall support at the base of the stack will support up to 10m of chimney, or in an inverted position, up to 15m. Wall supports can then be used as an intermediate support every 10m thereafter.

Alternatively, on internal systems the weight is held by using a support plate and clamp fixed on top of the first floor/ceiling joist. A Firestop plate is also required fixed to the ceiling below. In a normal house, when passing through the second floor the only requirement is two firestop plates because the system is adequately supported at first floor level.

Refer to load bearing table below for full details of maximum loadings.

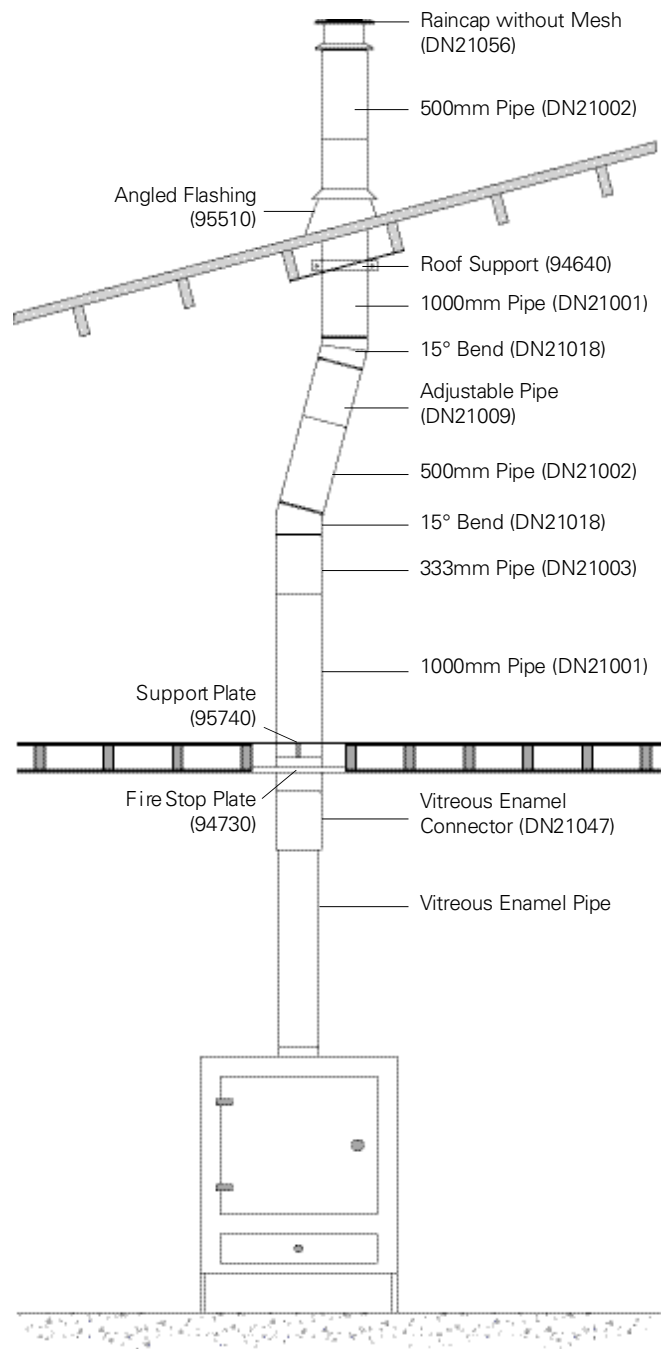
Load Bearing Data						
Product	125	150	180	200	250	300
Support Plate	9m	9m	9m	6m	6m	6m
Floor Support (Adj)	22m	22m	18m	18m	18m	18m
Wall Support (Inv)	15m	15m	15m	15m	15m	15m
Wall Support	10m	10m	10m	10m	10m	10m
Inspection Length	22m	18m	18m	18m	18m	18m
90° Tee	22m	18m	18m	18m	18m	18m
135° Tee	15m	10m	10m	10m	10m	10m

Wall brackets and roof brackets are not load bearing and give lateral support only. Wall brackets should be fitted every 3m and at any offsets to ensure the system is rigidly supported.

Where the flue is free standing above the roof and its height exceeds 1.5m beyond the last support or the roof a guy wire bracket must be used, and every 1.5m thereafter. Alternatively, a height of up to 4m can be achieved unsupported with the use of an extended locking band at the joint immediately below and every joint above the roof level.

Approx Weight of Products (kg)					
Int Dia	Effective	960	460	293	160
125		5.70	2.98	2.08	1.17
150		6.40	3.37	2.36	1.34
180		7.85	4.15	2.92	1.69
200		8.56	4.48	3.11	1.75
250		10.76	5.65	3.94	2.23
300		12.73	6.69	4.67	2.65

ICID Solid Fuel Chimney



After Installation

Testing before use

This is done by means of flue flow test as described in BS5440:Part 1-2000. It can be summarised as follows:- After a visual and physical check of the joints in the system, and ensuring an adequate air supply for combustion has been provided, close all doors and windows in the room in which the appliance is to be installed. It will be necessary to introduce heat to the flue system for a minimum of 10 mins. and possibly up to 30 mins. using a blow torch or similar. Position a smoke pellet (providing a performance of 5m³ of smoke in 30 secs. burn time) at the intended of the appliance. The test is satisfactory if there is no significant spillage from the appliance position, no seepage over the length of the system, and discharge only from the terminal. If these conditions are not met, the test has failed and all faults must be rectified and the system retested before connection of the appliance to the fuel supply. In the event of any further problems, reference to BS5440:Part 1-2000 must be made.

Life Expectancy

Under normal operating conditions and providing the system is installed correctly, it should last the lifetime of the appliance which is normally 10 to 12 years. ICID carries a 10 year conditional warranty. The conditions are that the chimney is correctly sized, installed, and properly maintained, burning only approved fuels in accordance with the Rite-Vent and appliance manufacturer's instructions.

For recommended fuels listings, please refer to the HETAS guide, or by contacting the Solid Fuel Association (Tel: 0845 601 4406) or appliance manufacturer's instructions. Warranty registration details are provided with installation instructions for completion and registration with Rite-Vent.

Maintenance

It is essential that the flue way be kept clear at all times in the interest of good practise and health, safety and appliance performance. The system should be checked regularly during the appliance maintenance. (Refer appliance manufacturer's instructions).

Every effort is made to ensure accuracy at time of going to press. However, as part of our policy of continual product development, we reserve the right to alter specifications without prior notice. All installation drawings are graphical representations. Building regulations and relevant British standards must be adhered to.



INSTALLER HELPLINE
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More information on www.rite-vent.co.uk





ICID

Quick assembly twin wall insulated chimney system for gas, oil, wood and multifuel appliances and open hearths.

Residential and small commercial applications.

125-300mm internal diameters.

Quick assembly twist-lock joint.

For class 1 chimneys, atmospheric and condensing appliances.

Other products in the Schiedel Rite-Vent range



K Vent

Twin wall insulated venting system for oil (28 sec) and gas appliances.

Residential and small commercial applications.

100-150mm internal diameters.

Oil appliances up to 45kW output.

Gas appliances up to 60kW input.

Interfits with B Vent gas vent.



ICS

Twin wall insulated chimney system for gas, oil, wood and multifuel appliances and open hearths

Residential and commercial applications.

80-705mm internal diameters.

For atmospheric, condensing and pressure appliances.

Wet or dry flue and chimney operating conditions.



B Vent

Twin wall gas venting system.

Residential & small commercial applications.

75-150mm internal diameters.

Gas appliances up to 60kW input.



Prima

Single wall stainless steel flue system.

80-755mm diameter range.

Prima Plus 1mm for domestic multi fuel stoves.

Prima Plus for large residential and commercial condensing gas and oil appliances and chimney relining.

Prima SW for commercial warm air heaters, gas and oil venting and particle/fume extraction.



Flue Boxes

For installing gas fires and back boilers.

Connection to single and twin skin flexible liners, B Vent, ICS or ICID.

Fast fix spigot for flex connection avoids much of the building work.

Single skin and twin skin air-insulated versions.



Flexible Liners

For relining existing chimneys to take gas, oil, wood, multifuel appliances and open fires.

Single skin Wonderflex and Triplelock for gas and oil (28 sec).

Twin skin Turboflex Plus for oil, wood, multifuel and open fires.

80-400mm diameter range.

Schiedel Rite-Vent

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