Download the **Augmented Reality Chimney Builder App** for an instant quote!

LIFETIME * GUARANTEE!

SCHIEDEL

ICID Plus

100-150mm diameter range
Twin wall insulated system chimney
for gas, oil, wood and multi-fuel

HETAS

DON'T FORGET TO REGISTER YOUR INSTALLATIONS AND START EARNING SCHIEDEL INSTALLER REWARDS
See inside for more details

www.schiedel.com/uk

SAP 940002164 - Updated 28 January 2025

Product description

Our ICID range has evolved into a multi-application system adaptable for Dry (D), Fu (W) and even Positive Pressure (P) applications.

At Schiedel, we pride ourselves on our technology and innovation and this heating season introduce our evolutionary 3-in-1 system:

ICID Plus Ideal not only for traditional stoves but also for pellet stoves, biomass appliances, mini/micro CHP and even condensing boilers capable of withstanding positive pressure.

The system is designed so that the outer case is load bearing and the inner liner is free to expand independently, therefore thermal expansion is accommodated within each and every joint of the system.

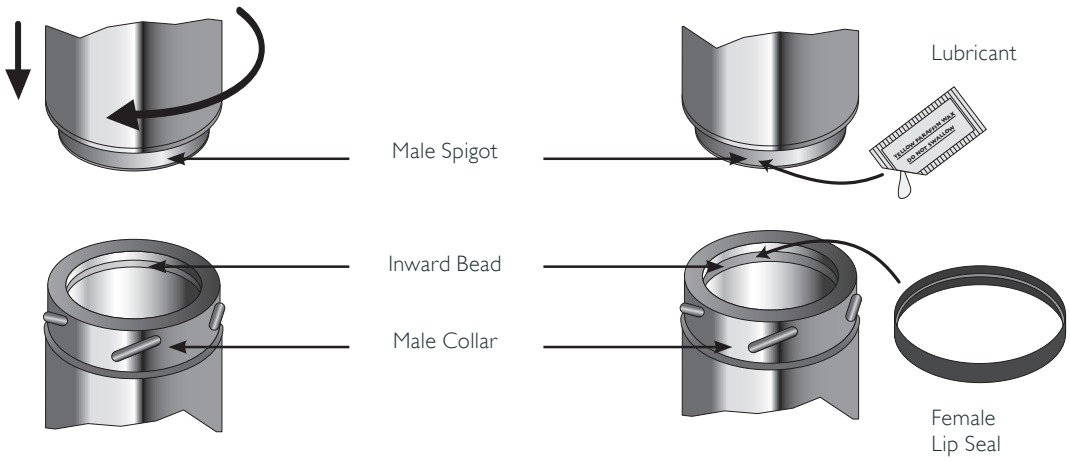
Available in two versions with a choice of either a bright annealed or a matt black painted stainless steel outer case, ICID Plus is available in the following range of diameters: 100 to 150mm.

Front cover image courtesy of Charlotte Smith from St. Mary's Space showing an ICID system installed by Backwoodsman.

ICID PLUS PRODUCT FEATURES

- Twist-lock bayonet jointing system. Secured by locking band (supplied as standard with all components with a female collar).
- Advanced corrosion resistant design and construction uses laser welded 316L stainless steel inner liner and stainless steel case.
- The 25mm of high density mineral wool insulation maintains flue gas temperature, maximising efficiency, improving flue draught on start up and minimising condensation.
- Low external case temperature.
- The inner liner is free to expand through the female collar, allowing for maximum thermal expansion even during a soot fire.
- The inner liner has an engineered design with an inward bead at the female end which acts as a capillary break preventing moisture being drawn through the joint.
- Lip seal packs are available containing a quick fit female lip seal with a grease sachet to allow product to be easily adapted for use in Positive Pressure (P) applications for use on condensing positive pressure appliances.

Joint design



WITHOUT LIP SEAL
ICID Plus for N rated Negative Pressure Applications
(i.e. Stoves)

WITH LIP SEAL
ICID Plus for P rated Positive Pressure Applications
(i.e. Condensing Boilers)

Technical data

	ICID (without lip seal)	ICID Plus (with lip seal)
Fuel	Wood, solid fuel	Gas, Oil
Firing Temp	450°C	200°C
Short Firing Temp	550°C	250°C
Thermal Shock	1000°C	-
Mode of Operation	Zero & Negative Pressure	Positive Pressure
Pressure Capabilities	40Pa	200Pa
Fire Rating	4 Hour Fire Rating to BS 476 Part 20	
Outer Case (Standard)	Stainless Steel	
Outer Case (Option)	Painted matt black	
Outer Case Thickness	0.5mm	
Seam	Laser or inert gas welded	
Liner	316L : 1.4404 : X2CrNiMo 17-12-2	
Liner Thickness (mm)	0.5mm	
Seam	Laser or inert gas welded	
Insulation	High performance mineral fibre	
Insulation Thickness	25mm	
Average Thermal Resistance (200°C)	0.4m2 k/W	

CORROSION RESISTANCE

Chimneys are subject to significant corrosion attack by flue gas condensates, particularly from solid fuel. ICID Plus is specifically designed and manufactured to resist this corrosion.

CHIMNEY DIAMETER

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 EN13384-1 for single appliances, and EN13384-2 for multi appliances.

Approvals

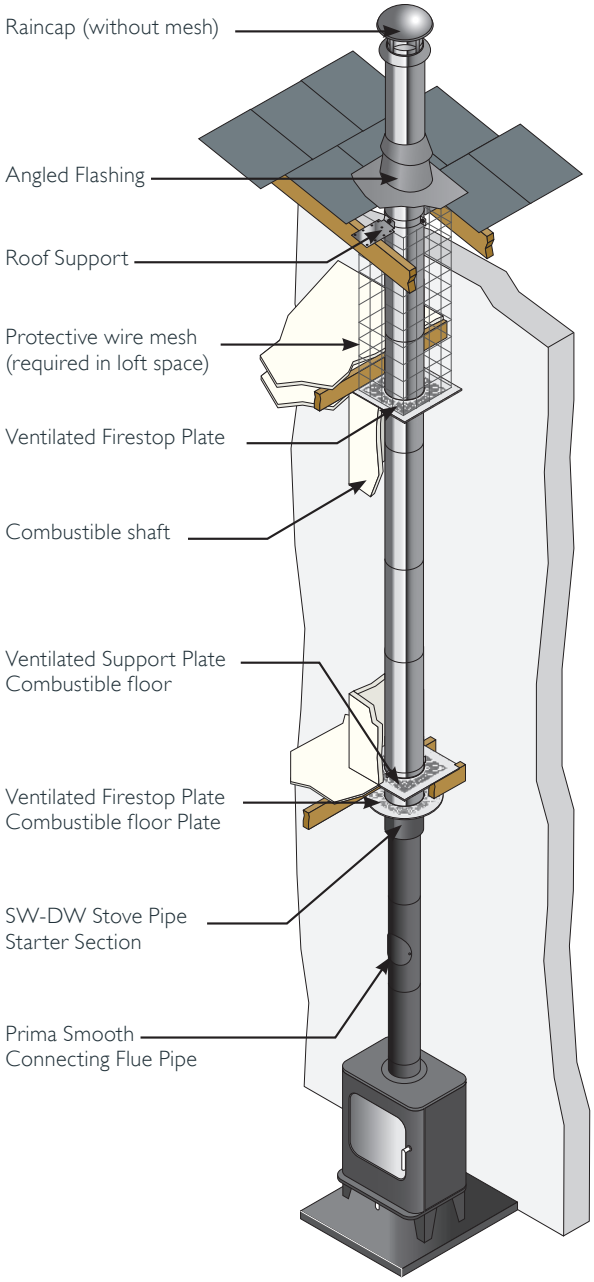
DESIGNATIONS	
ICID is CE Certified to EN1856-1 TÜV 0036 CPR 9195 010 with designations: **ICID is CE Certified to EN1856-2 TÜV 0036 CPR 9195 042 with designations:**	
SYSTEM CHIMNEY EN1856-1	
T450 N1 W V2 L50050 G60 **T450 N1 D V3 L50050 G60**	60mm Distance to combustibles running through a combustible floor using G60 round firestop.
T450 N1 W V2 L50050 G50 **T450 N1 D V3 L50050 G50**	50mm Distance to combustibles a) running through a combustible floor using G50 ventilated fire stops b) In a ventilated shaft using G50 or G60 round ventilated fire stops in combination with G50 ventilated support plate at base and G50 ventilated fire stop plate at top of shaft. c) In free air.
T200 P1 W V2 L50050 O00	Zero distance to combustibles.
CONNECTING FLUE PIPE EN1856-2	
T450 N1 D V2 L50050 G100 M	

NOTES

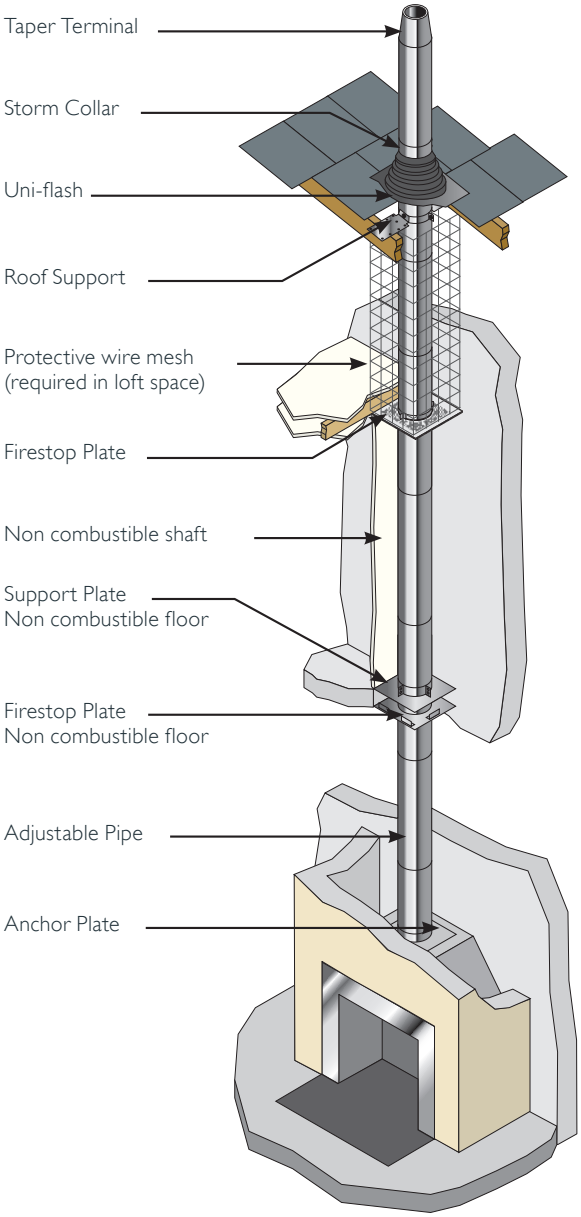
- Manufactured under a Quality Management Scheme approved to BS EN ISO 9001.
- 4 Hour Fire Rating to BS476 Part 20.
- Certified for corrosion resistance on gas, oil and solid fuel by Gastec, MPA and TÜV.
- HETAS listed for use on solid fuel applications.

Typical installations for solid fuel applications

INTERNAL HOUSE
Combustible Floors



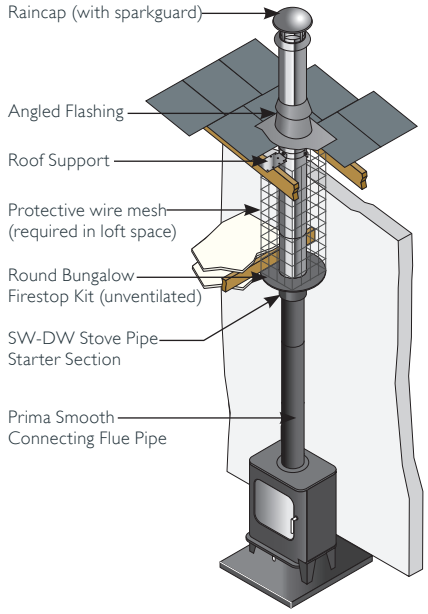
INTERNAL HOUSE
Non Combustible Floors



Typical installations for solid fuel applications

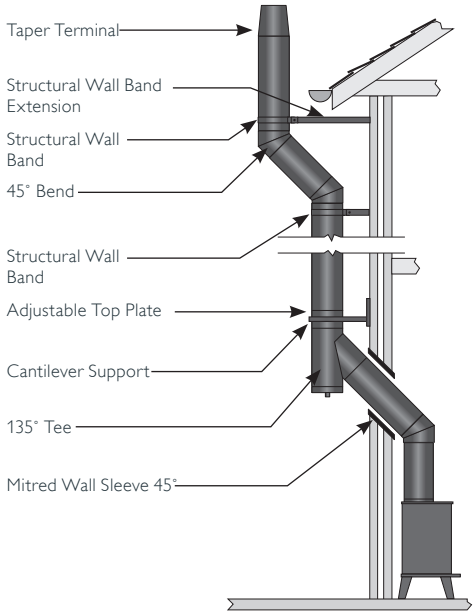
INTERNAL BUNGALOW (VENTILATED LOFT SPACE)

Combustible and Non-Combustible floors



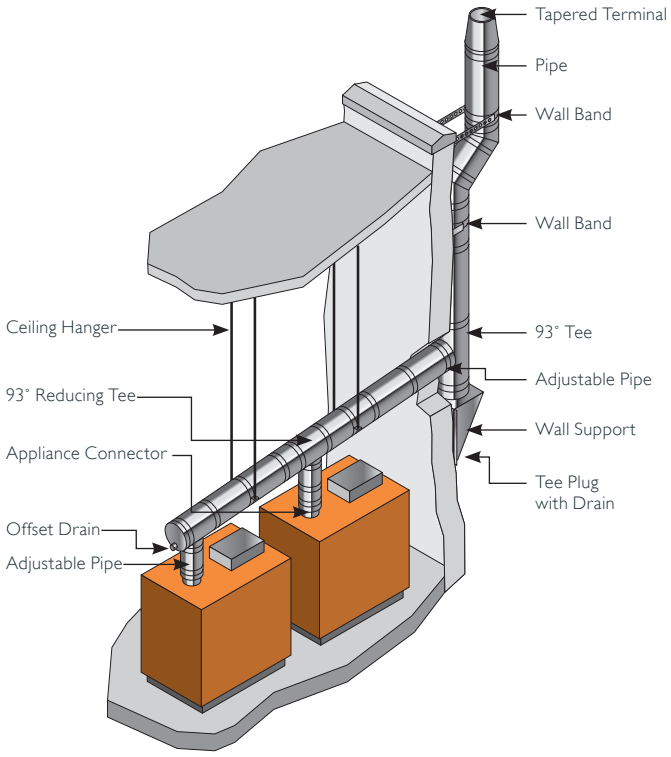
EXTERNAL

System Chimney

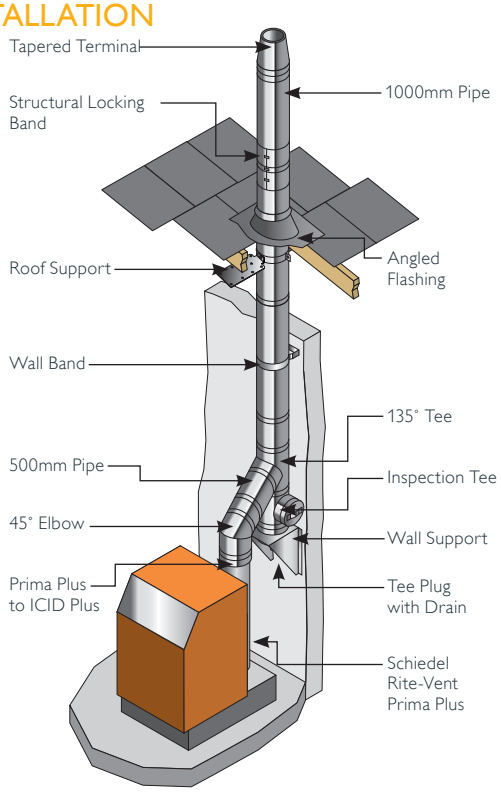


Typical installations

TYPICAL CONDENSING BOILER INSTALLATION



TYPICAL BIOMASS INSTALLATION



Gasket kits
(for use in P rated positive pressure applications)

Female viton lip seal kit			
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code	147322	147323	147324
This female lip seal must be used on wet positive pressure applications and fits into the inward bead on the female socket on the inside of the liner immediately below the male collar.			

Adjustable pipe seal kit			
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code	152135	152136	152137
This kit consists of a female viton seal which fits into the inward bead on the female socket on the inside of the liner immediately below the male collar and a male viton lip seal which must be fitted into the inward bead of the liner, which is situated in the top half of the 2-piece adjustable pipe, and at the bottom of the liner on the 1-piece adjustable pipe.			

Dimensions

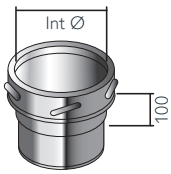
The dimensions of the flue are:			
Int Ømm	100	125	150
Ext Ømm	150	180	200

Finish

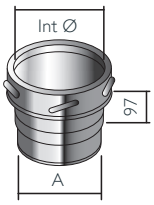
Paint - ICID Plus can be supplied painted in any RAL colour (additional costs apply).

The standard finish for ICID Plus is satin. The option of a matt finish is available on request.

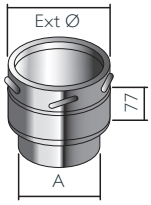
Starting components



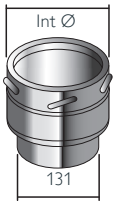
SW - DW connector (open)		DN8A047
Int Ømm	125	150
Ext Ømm	180	200
This component MUST only be fitted to stove pipe and NOT directly to appliance.		
SAP Code Plain	125307	126082
SAP Code Black	125308	126079



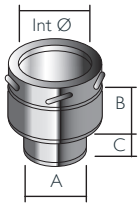
SW - DW connector (closed)			DN8A144
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	97	123	148
This component MUST only be fitted to stove pipe and NOT directly to appliance.			
SAP Code Plain	147329	125287	126060
SAP Code Black	147330	125288	126059



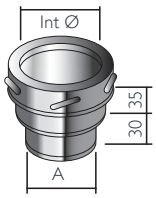
Insulated appliance connector			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	97	123	148
SAP Code Plain	COA	146418	146419
SAP Code Black	COA	146414	146415



Insulated adaptor for Sirius stove	
Int Ømm	125
Ext Ømm	180
SAP Code Plain	176051
SAP Code Black	176052

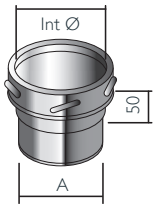


Insulated increasing adaptor		DN8A136
Int Ømm	125	150
Ext Ømm	180	200
A	98	123
B	100	118
C	50	50
SAP Code Plain	125305	126077
SAP Code Black	144438	126078

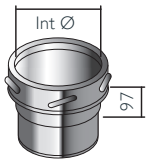


Uninsulated increasing adaptor (SW - DW)			DN8A143
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	COA	98	123
SAP Code Plain	COA	125320	125321
SAP Code Black	COA	144439	125319
* used on appliances with rear outlet			

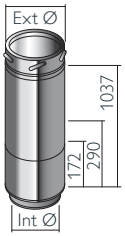
Starting components



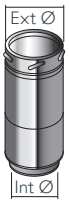
Adaptor Prima Plus to ICID Plus		S027
Int Ømm	125	150
Ext Ømm	180	200
A	130	150
SAP Code Plain	COA	126278
This component MUST only be fitted to stove pipe and NOT directly to appliance.		



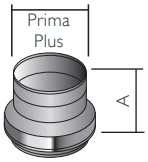
Adaptor Prima Smooth to ICID Plus (dry applications only)		PS027
Int Ømm	125	150
Ext Ømm	180	200
SAP Code Plain	109992	110270
SAP Code Black	109991	110268
This component MUST only be fitted to stove pipe and NOT directly to appliance.		



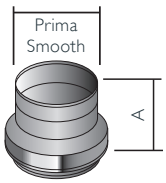
Double Wall Adjustable Starter Section with test point (1037mm)		
Int Ømm	125	150
Ext Ømm	180	200
SAP Code Plain	176802	176803
SAP Code Black	176804	176805



Double Wall Adjustable Starter Section with test point (600mm)		
Int Ømm	125	150
Ext Ømm	180	200
SAP Code Plain	176798	176799
SAP Code Black	176800	176801

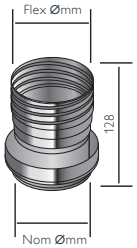


Adaptor ICID Plus to Prima Plus			DN8A113
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	132	132	132
SAP Code Plain	COA	125292	126062

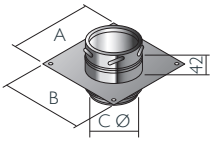


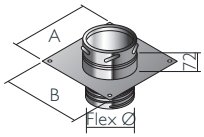
Adaptor ICID Plus to Prima Smooth (dry applications only)		
Int Ømm	125	150
Ext Ømm	180	200
A	132	132
SAP Code Plain	145516	145517

Starting components

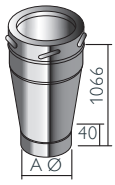


Screwfit adaptor from ICID Plus to TecnoFlex Plus				
Int Ømm	100	125	150	150
Flex Ømm	100	125	150	155
SAP Code Plain	174081	174082	174083	174084

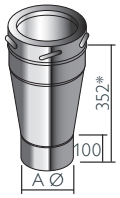




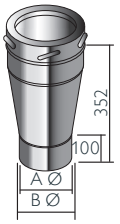
Anchor plate (dry applications only)			dN8A0D6
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	250	300	320
B	270	280	300
C	97	123	148
Flex Ømm	125	125	155
SAP Code Plain	COA	125300*	126072*
SAP Code Flex	147336	142587	142595
SAP Code Black	147337	142591	142596



SW-DW adjustable starter section (long) (dry applications only)		
Int Ømm	125	150
Ext Ømm	180	200
A	123	148
B	1066	1066
SAP Code Plain	COA	COA
SAP Code Black	148507	148508
This component MUST only be fitted to stove pipe and NOT directly to appliance.		



SW-DW Adjustable starter section (short) (dry applications only) Increasing SW-DW Adjustable starter section* (short) (dry applications only)			DN8A159 DN8A161
Int Ømm	125	125*	150
Ext Ømm	180	200	200
A	123	123	148
B	352	434	352
SAP Code Plain	125340	126096	126118
SAP Code Black	125339	131148	126117
This component MUST only be fitted to stove pipe and NOT directly to appliance.			

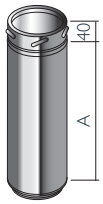


UE to ICID Adjustable starter section		
Int Ømm	125	150
Ext Ømm	180	200
A	123	152
B	147	172
SAP Code Plain	175405	175406
SAP Code Black	175408	175409

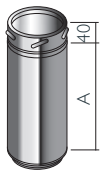
Black painted Starting Components are finished using high temperature paint

Pipes

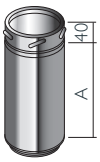
Standard Black components must not be used within the first 600mm of the appliance outlet. A high temperature version must be used.



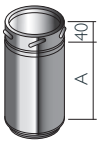
1460mm Pipe (1454mm effective length)			DN8A128
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	1454	1454	1454
SAP Code Plain	COA	125253	126019
SAP Code Black	COA	125251	126017
High temp paint	COA	COA	COA



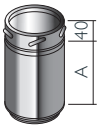
960mm Pipe (954mm effective length)			DN8A001
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	954	954	954
SAP Code Plain	147343	125285	126058
SAP Code Black	147338	125286	126056
High temp paint	176657	175382	175383



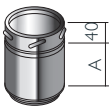
750mm Pipe (744mm effective length)			DN8A157
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	744	744	744
SAP Code Plain	147347	125273	126045
SAP Code Black	147342	125274	126046
High temp paint	COA	175384	175385



460mm Pipe (454mm effective length)			DN8A002
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	454	454	454
SAP Code Plain	147344	125269	126039
SAP Code Black	147339	125270	126037
High temp paint	176654	175386	175387



293mm Pipe (287mm effective length)			DN8A003
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	287	287	287
SAP Code Plain	147345	125261	126030
SAP Code Black	147340	125262	126028
High temp paint	176655	COA	COA

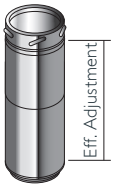


160mm effective length			DN8A004
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	160	160	160
SAP Code Plain	147346	125258	126025
SAP Code Black	147341	125259	126023
High temp paint	176658		

Adjustable pipe - 1 piece 50-230mm			DN8A009
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	147351	125298	126071
SAP Code Black	147348	125294	126064
This item is converted for use on wet positive pressure applications by using the Lip Seal Kit for adjustable pipes - see page 6			

Pipes

Standard Black components must not be used within the first 600mm of the appliance outlet. A high temperature version must be used.

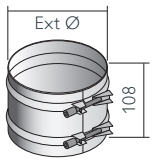


Telescopic pipe - 2 piece 215-310mm			DN8A151
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	147352	125295	126066
SAP Code Black	147349	144441	126068
This item is converted for use on wet positive pressure applications by using the Lip Seal Kit for adjustable pipes - see page 6			

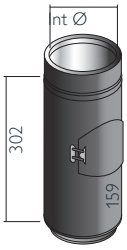
Telescopic pipe - 2 piece 350-570mm			DN8A150
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	147353	125297	126069
SAP Code Black	147350	141888	126065
This item is converted for use on wet positive pressure applications by using the Lip Seal Kit for adjustable pipes - see page 6			

Telescopic pipe - 2 piece 585-885mm		
Int Ømm	125	150
Ext Ømm	180	200
SAP Code Plain	176845	176846
SAP Code Black	176847	176848

Locking band			DN8A083
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	147354	125330	126106
SAP Code Black	147355	125331	126107
Supplied as standard with all components with a female collar			



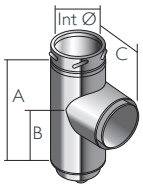
Structural locking band			DN8A092
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	147356	125317	126092
SAP Code Black	147357	125318	126093



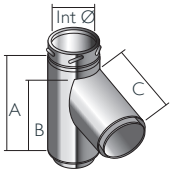
Inspection pipe with test point (dry and condensing)			
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Dry Plain	COA	148484	148485
SAP Code Dry Black	COA	148488	148489
This component incorporates a locking plug with a spring gasket suitable for high temperature T450 rated dry applications only			
SAP Code Condensing Plain	COA	COA	COA
This component incorporates a locking plug with a lip seal gasket suitable for low temperature, max T200 rated applications only.			

ICID touch up paint	
SAP Code Black	175867
Schiedel have now introduced a black touch up spray paint for use with the standard Black satin RAL 9005 BLDP paint spec, used on ICID Plus. This is available in 400ml spray cans.	

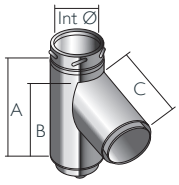
Tees



90° Tee including drain cap (dry applications only)			DN8A135
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	282	301	329
B	150	154	162
C	120	133	142
SAP Code Plain	147360	125282	126054
SAP Code Black	147359	125283	126055



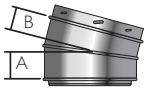
135° Tee including drain cap (condensing and dry applications)			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	325	333	365
B	254	259	283
C	254	259	283
SAP Code Plain	COA	COA	COA



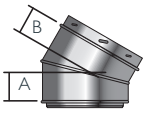
135° Tee including drain cap (dry applications only)			DN8A137
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	325	333	365
B	254	256	283
C	254	259	283
SAP Code Plain	147364	125249	126015
SAP Code Black	147365	125250	126016

Tee plug			
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	COA	125343	126121
SAP Code Black	COA	COA	126122

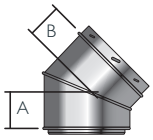
Bends



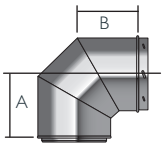
15° Bend			DN8A018
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	60	63	63
B	56	55	56
SAP Code Plain	147372	125256	126022
SAP Code Black	147368	125254	126020



30° Bend			DN8A019
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	63	66	70
B	59	57	61
SAP Code Plain	147373	125264	126033
SAP Code Black	147369	144442	126031



45° Bend			DN8A017
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	76	79	83
B	74	70	74
SAP Code Plain	147374	125267	126036
SAP Code Black	147370	125265	126034

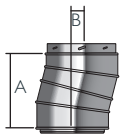


90° Bend			DN8A015
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	131	146	156
B	122	137	147
SAP Code Plain	147375	125277	126049
SAP Code Black	147371	125275	126047

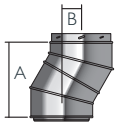
Structural locking band for bends			DN8A155
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	56	56	56
SAP Code Plain	147376	125342	126120
SAP Code Black	147377	125341	126119

Typical offsets

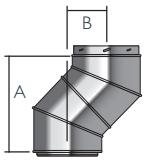
made by assembling 2 bends



15° Offset			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	228	232	234
B	30	31	31

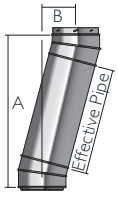


30° Offset			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	228	230	244
B	61	62	65

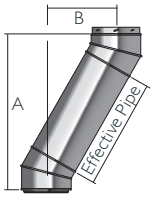


45° Offset			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	256	254	268
B	106	105	111

made by assembling 2 bends and a standard pipe section



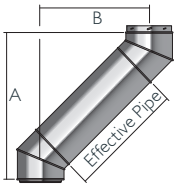
15° Bend offset with standard pipe length				
Int Ømm		100	125	150
Ext Ømm		150	180	200
1454 Effective Pipe	A	1633	1636	1638
	B	406	407	407
954 Effective Pipe	A	1150	1153	1155
	B	277	277	278
744 Effective Pipe	A	947	951	953
	B	223	223	223
454 Effective Pipe	A	667	671	672
	B	148	148	148
287 Effective Pipe	A	505	509	511
	B	104	105	105
160 Effective Pipe	A	383	387	388
	B	71	72	72



30° Bend offset with standard pipe length				
Int Ømm		100	125	150
Ext Ømm		150	180	200
1454 Effective Pipe	A	1487	1489	1504
	B	788	789	793
954 Effective Pipe	A	1054	1056	1071
	B	538	539	543
744 Effective Pipe	A	872	874	889
	B	433	434	438
454 Effective Pipe	A	621	623	638
	B	288	289	293
287 Effective Pipe	A	476	478	493
	B	205	205	209
160 Effective Pipe	A	366	368	383
	B	141	142	146

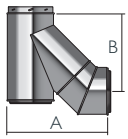
Typical offsets

made by assembling 2 bends and a standard pipe section



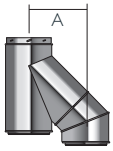
45° Bend offset with standard pipe length

Int Ømm		100	125	150
Ext Ømm		150	180	200
1454 Effective Pipe	A	1284	1282	1296
	B	1134	1133	1139
954 Effective Pipe	A	931	929	943
	B	781	780	786
744 Effective Pipe	A	782	780	794
	B	632	631	637
454 Effective Pipe	A	577	576	590
	B	427	427	433
287 Effective Pipe	A	459	457	471
	B	309	308	314
160 Effective Pipe	A	369	367	381
	B	219	218	224



Offsets for 135° tee and 45° bend

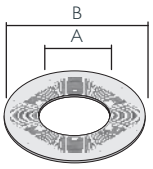
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	383	402	435
B	303	310	334



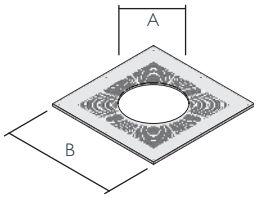
Offsets for 135° tee and 45° bend

Int Ømm	100	125	150
Ext Ømm	150	180	200
A	232	233	252

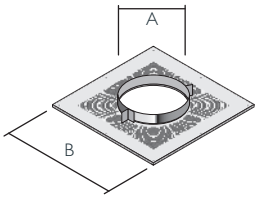
G50 firestop components



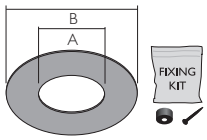
Combustible floor g50 round ventilated firestop plate 1 piece		
Int Ømm	125	150
Ext Ømm	180	200
A	183	241
B	380	400
SAP Code Plain	175701	175702
SAP Code Black	175703	175704



Combustible floor g50 square ventilated firestop plate 1 piece		
Int Ømm	125	150
Ext Ømm	180	200
A	183	241
B	380	400
SAP Code Plain	175705	175706

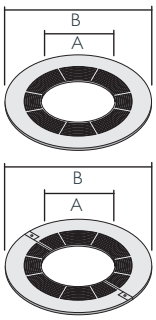


Combustible floor g50 square ventilated support plate 1 piece		
Int Ømm	125	150
Ext Ømm	180	200
A	183	241
B	380	400
SAP Code Plain	175707	175708

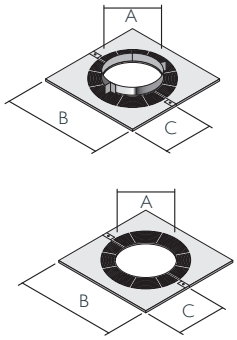


Magnetic firestop cover plate kit			9509
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	154	183	203
B	370	380	400
SAP Code Plain	147378	126945	127552
SAP Code Black	147379	126946	127553
SAP Code White	147380	126947	127554

G60 firestop components



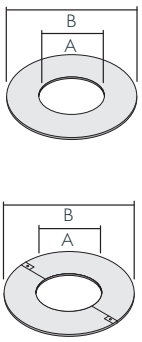
Combustible floor Round ventilated firestop plate - 1 piece* Round ventilated firestop plate - 2 piece			9423 9424
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	153	183	203
B	350	380	400
SAP Code 1PC Plain	125902	126661	127227
SAP Code 1PC Black	125900	126659	127225
SAP Code 1PC White	125901	126660	127226
SAP Code 2PC Plain	125905	126664	127230
SAP Code 2PC Black	125903	126662	127228
SAP Code 2PC White	125904	126663	127229



Combustible floor g60 ventilated support plate - 2 piece Combustible floor g60 rectangular ventilated firestop plate - 2 piece			95260 94250
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	153	183	203
B	350	380	400
C	175	190	200
SAP Code Support Plate	125908	126667	127234
SAP Code Firestop Plate	125907	126666	127232

Bungalow firestop kits

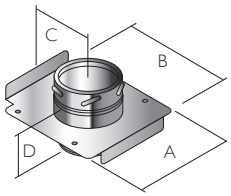
All Unventilated Bungalow Firestop Kits may only be used on a combustible ceiling in a bungalow where there is a minimum 50mm distance to combustibles where the chimney penetrates the ceiling area and where the roof space above the ceiling is open and ventilated. Within the roof space, a protective wire mesh framework must be built around the chimney to ensure the minimum 50mm distance to combustibles is maintained.



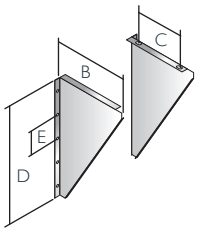
Unventilated bungalow round firestop plate - 1 piece and 2 piece 9428 9429			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	153	183	203
B	350	380	400
SAP Code Plain 1 PC	147381	126526	127108
SAP Code Black 1 PC	147382	126528	127110
SAP Code White 1 PC	147383	126529	127111
SAP Code Plain 2 PC	147384	126527	127109
SAP Code Black 2 PC	147385	131122	127106
SAP Code White 2 PC	147386	COA	127107

Support components

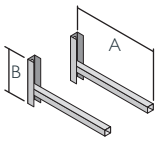
Retrofit wall supports			
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain 60mm - 200mm	169699	169700	169701
SAP Code Black 60mm - 200mm	169696	169697	169698
SAP Code Plain 200 - 375mm	170321	170322	170323
SAP Code Black 200 - 375mm	170318	170319	170320



Top plate			DN8A0D3
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	266	276	296
B	247	287	307
C	127	142	152
D	106	106	106
SAP Code Plain	147387	125140	125833
SAP Code Black	147388	125141	125834

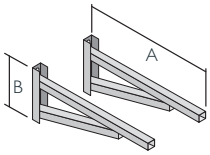


Wall support side plates			DN8A0D2
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	235	275	295
B	165	160	180
C	470	470	470
D	100	100	100
SAP Code Plain	101043	125357	126136
SAP Code Black	COA	125355	126133



Cantilever support		Type 325 - 95420001 Type 475 - 95420002
Type	325	475
Int Ømm Range	00-150	100-200
A	325	475
B	242	242
SAP Code Plain	101742	101743
SAP Code Black	130686	130687

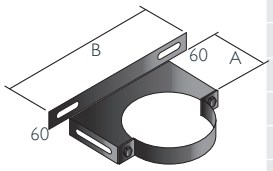
Used in combination with Adjustable Top Plate.



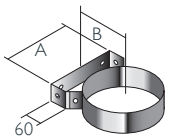
Cantilever support	Type 570 - 95420003
Type	570
Int Ømm Range	100-200
A	570
B	330
SAP Code Plain	101744
SAP Code Black	130688

Used in combination with Adjustable Top Plate.

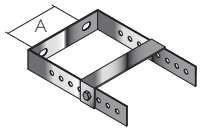
Support components



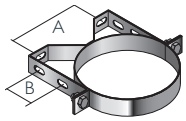
Retrofit wall band			95600
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	136	151	161
B	300	330	350
SAP Code Plain	147389	126657	127223
SAP Code Black	147390	126658	127224



Wall band (60mm)			92930
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	148	180	200
B	135	140	150
SAP Code Plain	125898	126648	127213
SAP Code Black	131170	126620	127196

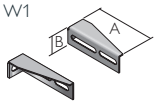


Adjustable back bracket for wall band 60-300mm			95950
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	83	112	132
SAP Code Plain	125890	126623	127199
SAP Code Black	COA	126622	127198

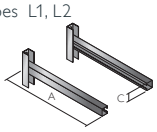


Structural wall band (50mm)			95430
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	126	144	164
B	55	55	55
SAP Code Plain	101264	101265	101266
SAP Code Black	COA	126654	127218

Type W1

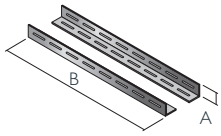


Types L1, L2

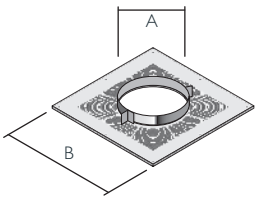


Structural and Retrofit wall band extensions			W1 - 95440001 L1 - 95440004 L2 - 95440005
Type	W1	L1	L2
Adj.	55-100	100-250	100-440
A	130	300	450
B	36	-	-
C	COA	32	32
SAP Code Plain	101735	143846	143847
SAP Code Black	130824	144655	144656

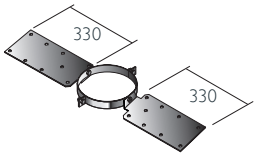
Support components



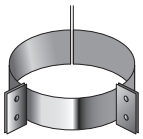
Ceiling joist support arms (pair)	9459001
Type	570
Int Ømm Range	125-200
A	39
B	700
SAP Code Plain	130694
Used in combination with Ceiling Joist Support.	



Ceiling joist support/ventilated support plate			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	291	321	341
SAP Code Plain G60 Ceiling Joist Support	125908	126667	127234
Plain G50 Ceiling Joist Support	COA	175707	175708

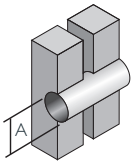


Roof support			
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	100961	100962	100963



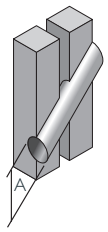
Guy wire bracket			
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	100640	100641	100642
SAP Code Black	COA	131808	127202

Telescopic roof stays			
Ext Ømm	150	180	200
SAP Code Black	170141	170142	170143

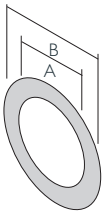


Wall sleeve 90°			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A Masonry	200	230	250
A Timber F	270	300	320
SAP Code Masonry	147392	126642	127206
SAP Code Timber	125897	126647	127212

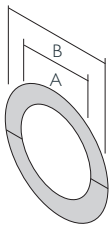
Support components



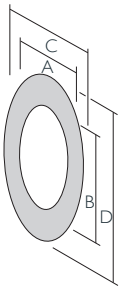
Wall sleeve 45°			Masonry - 94620 Timber Frame - 94910
Int Ømm	100	125	150
Ext Ømm	150	180	200
A Masonry	200	230	250
A Timber F	270	300	320
SAP Code Masonry	125894	126641	127205
SAP Code Timber	125895	126643	127207
Supplied as a 1m long mitred tube to be cut to length on site			



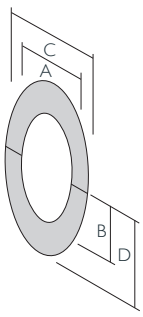
1 Piece trim collar 90°			9580
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	154	184	204
B	300	330	350
SAP Code Plain	COA	127038	127642
SAP Code Black	126337	127039	127643



2 Piece trim collar 90°			9599
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	154	184	204
B	300	330	350
SAP Code Plain	126338	127040	127644
SAP Code Black	126339	127041	127645

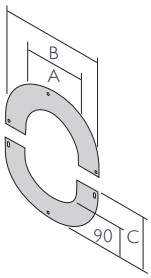


1 Piece trim collar 45°			9589
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	154	184	204
B	216	259	287
C	300	330	350
D	412	454	483
SAP Code Plain	147393	126612	127186
SAP Code Black	147394	126613	127187
SAP Code White	COA	COA	COA

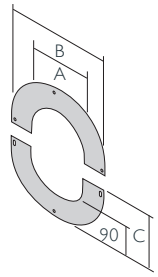


2 Piece trim collar 45°			9579
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	154	184	204
B	108	130	144
C	300	330	350
D	206	227	242
SAP Code Plain	126335	127035	127639
SAP Code Black	126336	127036	127640
SAP Code White	COA	COA	COA

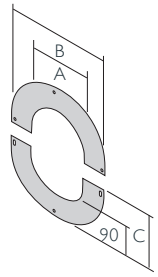
Support components



Adjustable trim collar 35-45°			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	COA	187	204
B	COA	364	384
C	COA	204.5	214.5
SAP Code Plain	COA	126513	127093
SAP Code Black	COA	126511	127091
SAP Code White	COA	COA	COA

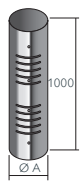


Adjustable trim collar 0-20°			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	COA	187	204
B	COA	364	384
C	COA	204.5	214.5
SAP Code Plain	COA	126507	127087
SAP Code Black	COA	126505	127085
SAP Code White	COA	COA	COA

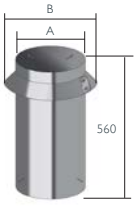


Adjustable trim collar 20-35°			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	COA	187	204
B	COA	364	384
C	COA	204.5	214.5
SAP Code Plain	COA	126510	127090
SAP Code Black	COA	126508	127088
SAP Code White	COA	COA	COA

Loft guard



Loft guard			
Int Ømm	100	125	150
Ext Ømm	150	180	200
Ø A	COA	300	320
SAP Code Plain	COA	137464	137464



Loft guard - for Scottish regulations		
Int Ømm	180	200
Ø A	300	320
Ø B	400	420
SAP Code Plain	158404	158405

Ignis Protect

Designed specifically for air tight, energy efficient and timber framed buildings

In order to meet the latest European building regulations, specific leakage and performance criteria have to be met, which are much more stringent than in the past. These criteria are key in relation to chimney products passing through combustible walls.

Schiedel Chimney Systems have invested heavily to provide tested and approved solutions to resolve these challenges and are proud to introduce their latest cutting edge product.

Europäisches Patentamt
European Patent Office
Office européen des brevets

Protected in accordance with European patent specification EP 1 878 849 B1

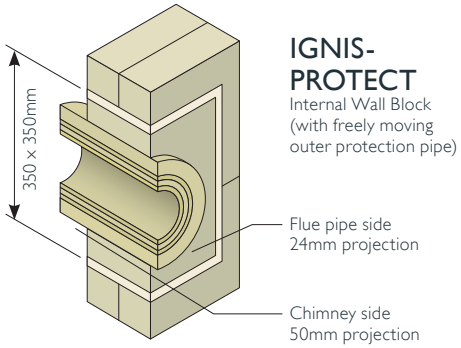
HEARTH & Home EXHIBITION AWARDS 2015 WINNER

IGNIS-PROTECT,
Winner of Best Product Award Hearth & Home Exhibition 2015.

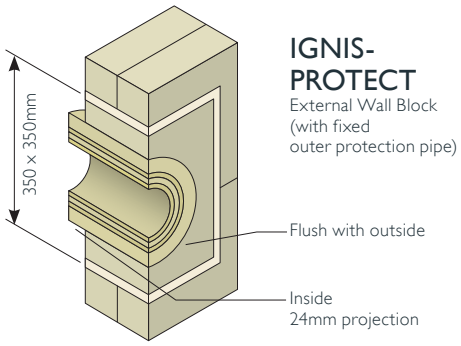
Product description

PRODUCT FEATURES

- Suitable for SW and DW connecting flue pipes passing through interior or exterior walls made of combustible materials
- Available in two versions:
  - **For exterior walls** (with aluminium laminate on inside face)
  - **For interior walls** (without aluminium laminate and with an extended removable core)
- Available in both 90° and 45° versions
- For flue gas temperature up to:
  - 450 °C for SW connecting flue pipes (T450)
  - 600 °C for DW connecting flue pipes(T600)
- Max. 100 °C surface temperature during soot fire
- Monolithic component made of mineral wool, density 120 kg/m³, building material class A1
- Internal face finished with aluminium laminate
- External face made with textured surface to facilitate facade rendering
- Removable pipe sections to allow interfit with the residential diameters of ICID
- Can be used without any additional protection
- Available in a range of standard wall thicknesses between 100mm -500mm



IGNIS-PROTECT
Internal Wall Block
(with freely moving
outer protection pipe)



IGNIS-PROTECT
External Wall Block
(with fixed
outer protection pipe)

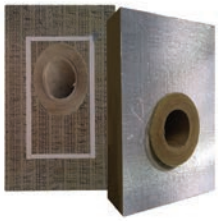
Approvals

DIBt
Zulassungs Nr. Z-7.4-3372 Deutsches Institut für Batechnik

- Z-7.4-3372 relating to T450 designated products
- Z-7.4-3402 relating to T600 designated products

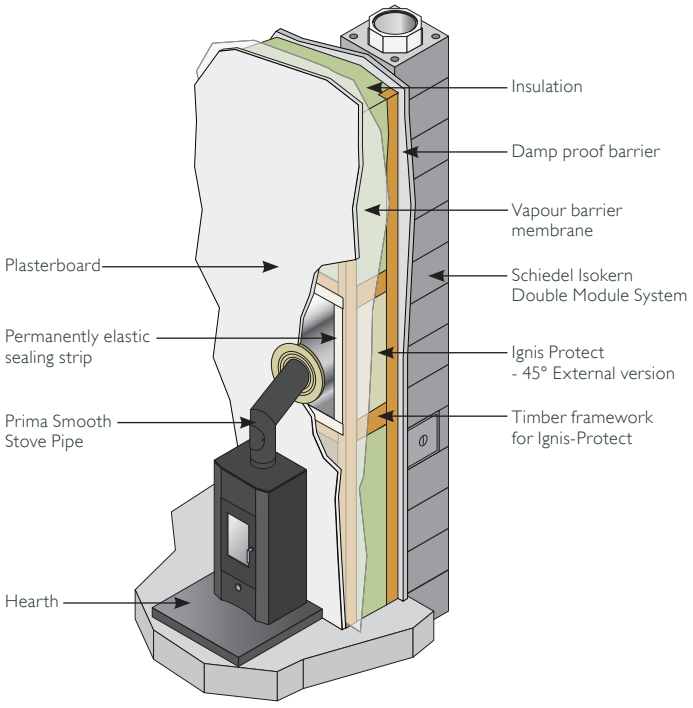
Ignis Protect

(for air tight wall penetration)

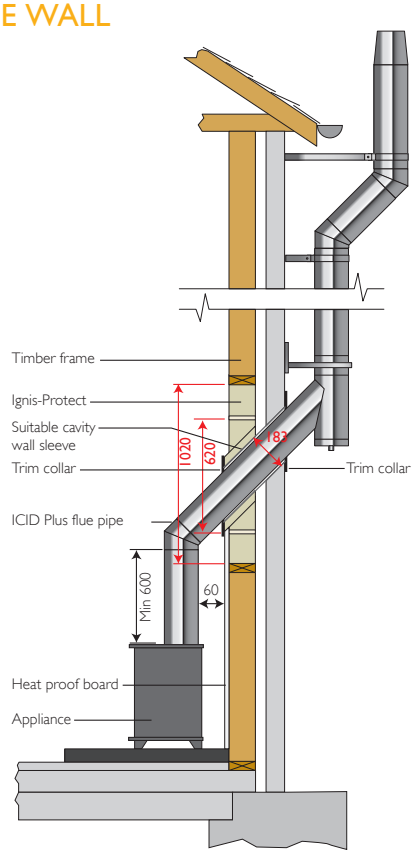


SAP Code	Thickness (mm)	Height (mm)	Width (mm)	Pallet Quantity
Ignis-Protect 90° Version				
174344	150	700	565	12
174345	200	700	565	9
174346	250	700	565	6
174347	300	700	565	4
174348	350	700	565	4
174349	400	700	565	2
Ignis-Protect 45° Version				
149530	100	1020	565	18
149531	150	1020	565	12
149532	200	1020	565	9
149533	250	1320	565	6
149534	300	1320	565	4
149535	350	1320	565	4
149536	400	1320	565	2

IGNIS-PROTECT 45° VERSION



IGNIS-PROTECT ICID PLUS ON TRADITIONAL TIMBER FRAME WALL



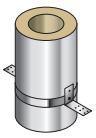
Protect Box

Engineered to meet the key challenges of modern houses...

Schiedel Protect Box is the proven solution to safeguard distance to combustible materials in low energy and passive houses.

PRODUCT FEATURES

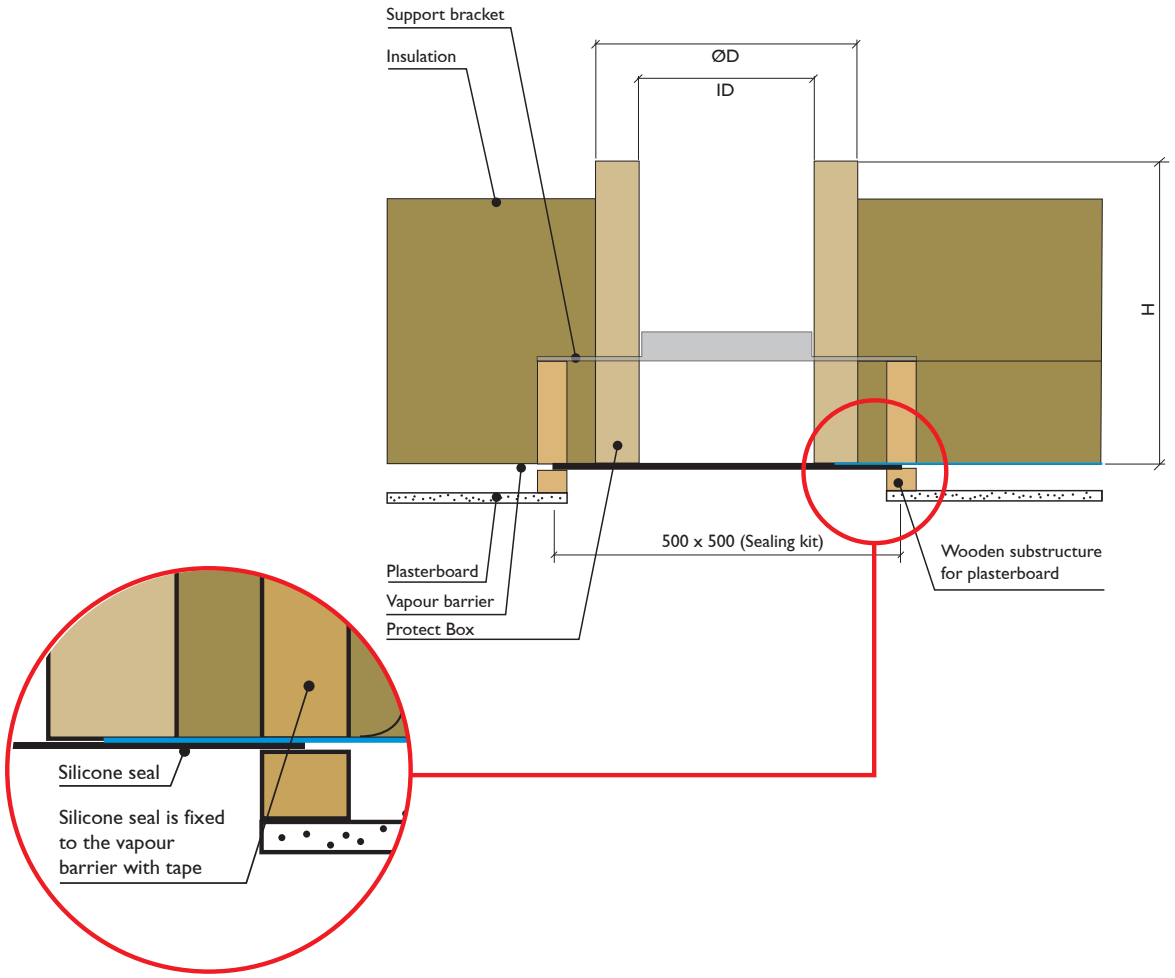
- Increasing air tight construction
- Standard height of 350mm or 700mm.
- Tested and designed for use with both painted and unpainted ICID throughout
- Designed to meet blower door test.
- Constructed using a high temperature resistant Rock-wool insulation to give zero distance to combustibles.
- A silicone sealing kit is available to allow for the chimney to pass through an air tight membrane at ceiling level in a cold roof construction or at roof level in a warm roof construction.
- The seal comes with marked diameter measurements (100-380mm), ensuring an easy cutting process for each diameter.



Protect Box			
SAP Code	Height	Int Ø	Ext Ø
121342	700	255	455
175127*	350	255	455
*Does not include roof support			

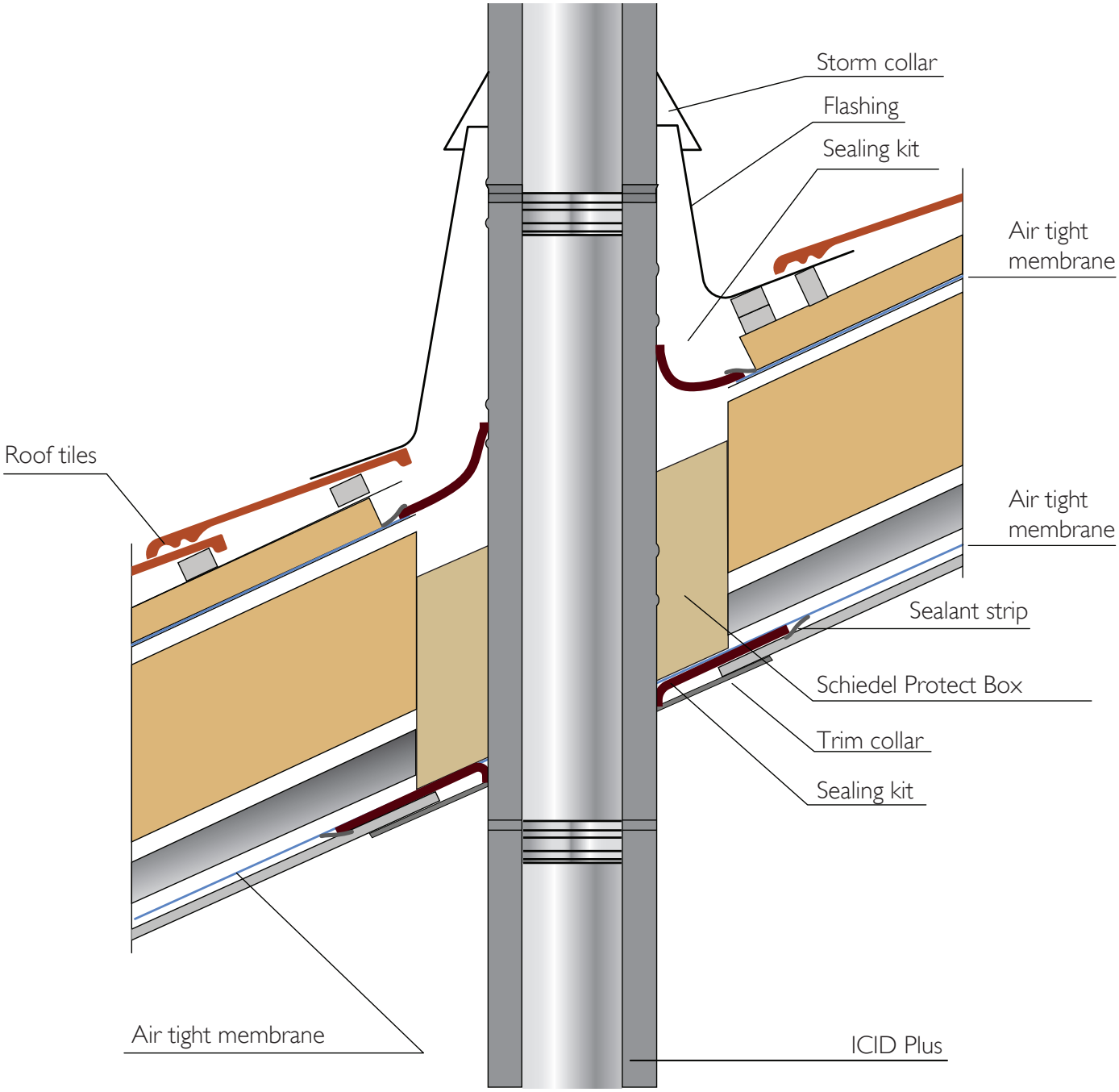
Sealing kit	
SAP Code	178248

Roof support		
SAP Code	Int Ø	Ext Ø
900010899	255	455



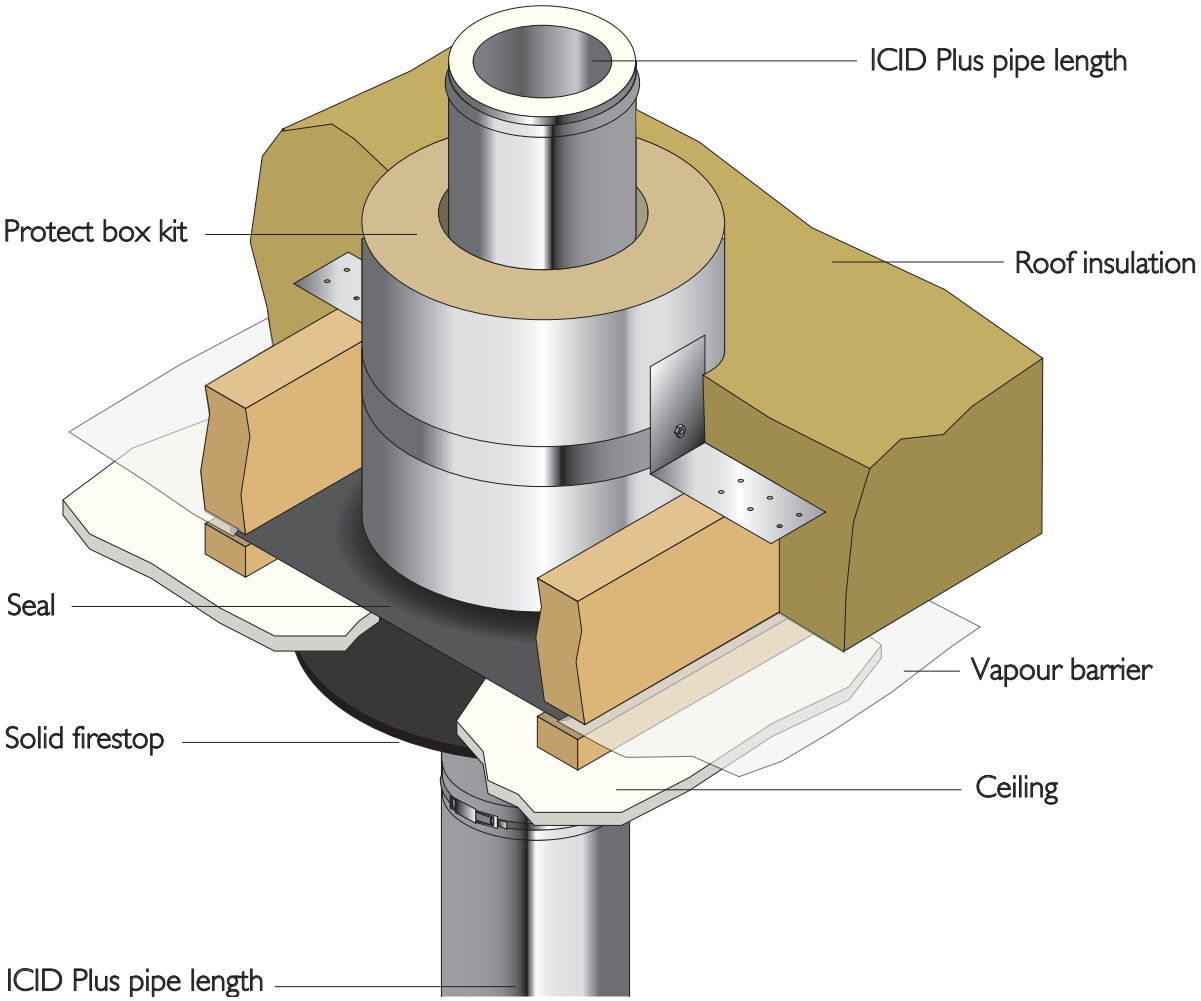
Typical installations

SCHIEDEL PROTECT BOX THROUGH PITCHED ROOF

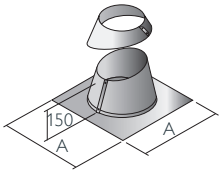


Typical installations

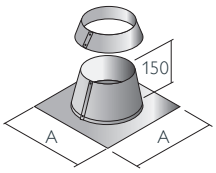
PROTECT BOX IN SITU



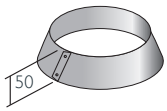
Flashings



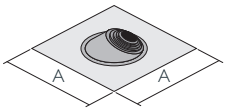
Angled flashing kit 5° - 45°			95510
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	610	610	700
SAP Code Plain	125889	126621	127197
SAP Code Black	COA	COA	130662



Flat flashing kit			95530
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	610	610	610
SAP Code Plain	125892	126625	127201
SAP Code Black	COA	COA	131807

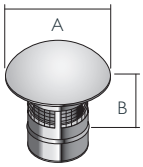


Storm collar			
Int Ømm	100	125	150
Ext Ømm	150	180	200
SAP Code Plain	106138	106140	106141
SAP Code Black	COA	126645	127209

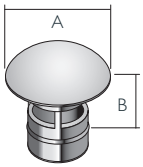


Uniflash		
Product Code	94540001	94540002
Ext Ømm	80-200	150-300
A	500	685
SAP Code	112198	112197
Universal EPDM rubber/aluminium flashing. Just pull the required diameter tab on the rubber seal.		

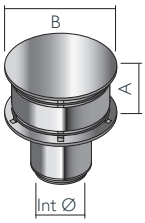
Terminals



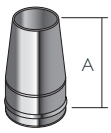
Raincap			with 25mm anti-bird mesh DN8A140
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	266	266	310
B	70	90	90
SAP Code Plain	147399	125337	133921
SAP Code Black	147400	125335	133924



Raincap			without mesh DN8A142
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	266	266	310
B	70	90	90
SAP Code Plain	147401	125144	133923
SAP Code Black	147402	125145	133926



Anti-splash anti-downdraught terminal (Gastec approved)			
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	-	142	170
B	-	254	304
SAP Code with mesh Plain	COA	125302	126074
SAP Code with mesh Black	COA	COA	COA
SAP Code without mesh Plain	COA	125303	126075
SAP Code without mesh Black	COA	125301	126073



Insulated tapered terminal			DN8A038
Int Ømm	100	125	150
Ext Ømm	150	180	200
A	204	200	200
SAP Code Plain	147403	125351	126130
SAP Code Black	147404	125352	126129

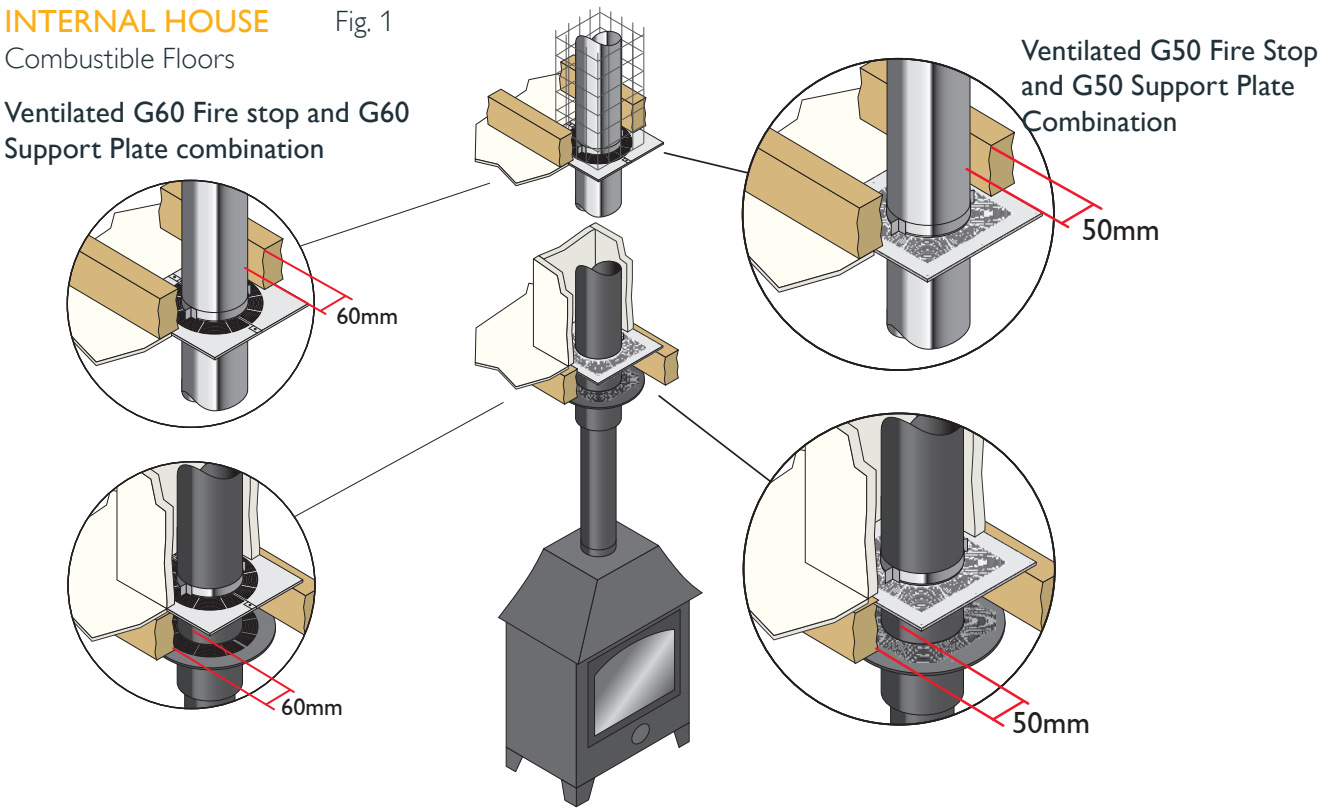
Distance to combustibles on high temperature

(T450) applications (see p.17)

INTERNAL HOUSE

Fig. 1

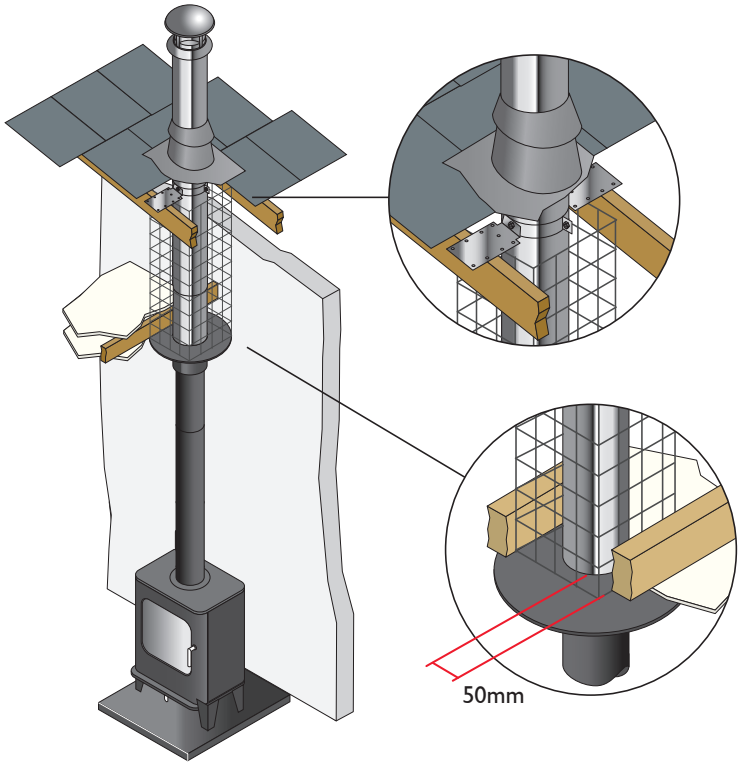
Combustible Floors



INTERNAL BUNGALOW (VENTILATED LOFT SPACE)

Fig. 2

Combustible and Non-Combustible Floors



System design

OUTLET SITING

Flue terminations for solid fuel & oil are subject to EN15287-1 2007. Figures A and B illustrate recommendations for the most commonly encountered outlet terminations. Flue terminations for gas in domestic situations are governed by the BS5440-1 2008 Section 4.2. Figure C 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
Outlet siting for Oil Appliances (<45kW)

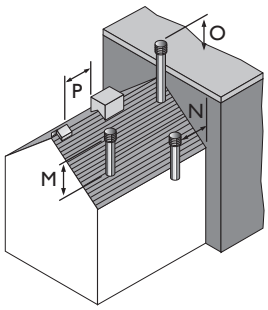
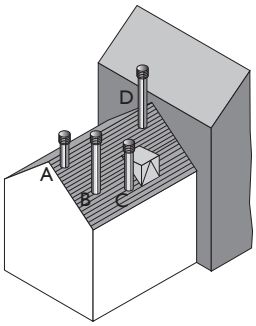


Fig. B
Outlet siting for Solid Fuel Appliances (<50kW)



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:

It is recommended that a vertical rise of 600mm should be allowed immediately above the appliance before any change of direction.

Within a system, on all fuels, there should be no more than 4 changes of direction of maximum 45°.

90° Factory made bends or tees within the system may be treated as being equal to two 45° bends (see Document J of the Building Regulations issued October 1st 2010).

TERMINAL TYPES

On solid fuel appliances, an open termination is normally recommended. However in certain conditions, rain caps or anti-downdraught terminals may be used.

Rain caps and anti-downdraught terminals are available in two versions, with mesh/spark guard and without mesh. Where a terminal with mesh is used, there is a risk of soot build up, and therefore regular cleaning is required to avoid blockage, particularly when using oil or solid fuel.

PROVISION FOR SWEEPING, CLEANING AND MAINTENANCE

Provision should be made for inspecting and cleaning the chimney. To aid cleaning, sufficient distance should be left between changes of direction to permit the safe passage of cleaning brushes within the system. 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.

OUTLET SITING FOR OIL APPLIANCES (<45KW)

Location of outlet		Pressure jet burner	Vapourising burner
M	Above the highest point of an intersection with the roof	600mm	1000mm
N	From a structure to the side of the terminal	750mm	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
P	From a ridge terminal to a vertical structure on the roof	1500mm	Should not be used

OUTLET SITING FOR SOLID FUEL APPLIANCES (<50KW)

Point where flue passes through weather surface (Notes 1, 2)		Clearance to flue outlet
A	At or within 600mm of the ridge	At or within 600mm above the ridge
B	Elsewhere on the roof (whether pitched or flat)	At least 2300mm horizontally from the nearest point on the weather surface and: a) at least 1000mm above the highest point of intersection of the chimney and the weather surface; or b) at least as high as the ridge
C	Below (on a pitched roof) or within 2300mm horizontally to an openable roof-light, dormer window or other opening (Note 3)	At least 1000mm above the top of the opening
D	Within 2300mm of an adjoining or adjacent building, whether or not beyond the boundary (Note 3)	At least 600mm above any part of the adjacent building within 2300mm

System design

1. The weather surface is the building external surface, such as its roof, tiles or external walls.
2. A flat roof has a pitch less than 10°.
3. The clearance for A or B, as appropriate, will also apply.
4. A vertical flue fixed to an outside wall should be treated as equivalent to an inside flue emerging at the nearest edge of the roof.

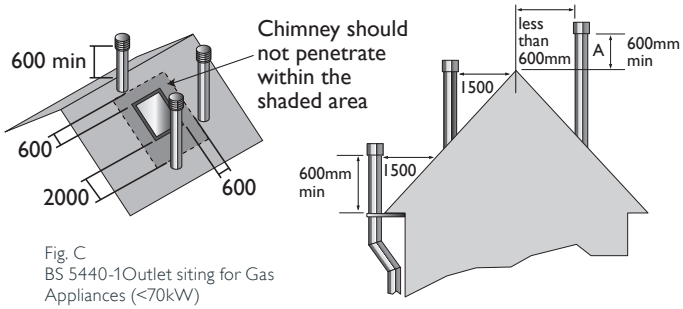


Fig. C
BS 5440-1Outlet siting for Gas Appliances (<70kW)

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.

COMMERCIAL INSTALLATIONS

Schiedel Rite-Vent can provide a full design & flue sizing advice service for commercial installations, using both ICID Plus and our ICS product ranges.

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.

On high efficiency or on condensing systems, a 3° slope on horizontal runs is advised, using the appropriate 87° bend and 93° tee.

Load bearing data

Maximum load bearing (metres of pipe)		
Internal Diameter (mm)	**80-130**	**150**
Base drain section	22	18
Retrofit wall support	10	10*
Drain plug support	18	18
Adjustable top plate + locking band	15	15
Telescopic floor support	18	18
Pair of side plates (see diagram a)	15	15
Pair of side plates (see diagram b)	10	10
Cantilever support	22	18
Extension support (anchor plate)	1.5	1.5
Ventilated support plate (all types)	12	12
Support plate	12	12
Ceiling hanger	1.5	1.5
Wall band 50/60mm	3	3
Adjustable wall band 60-300mm	3	3
Structural wall band	4	4
Extension for structural wall band	4	4
Guy wire bracket	1.5	1.5
Roof support (above truss)	6	6
Roof support (below truss)	4	4
90° Tee + locking band	22	18
93° Tee + locking band	22	18
135° Tee + locking band	15	10
Inspection tee (round)	22	18
Inspection tee (rectangular)	22	18

Approximate weights of products (kg)				
Internal Diameter Length(mm)	1000	500	250	195
80	4.32	2.13	1.09	0.85
100	5.14	2.53	1.29	1.01
130	6.35	3.14	1.60	1.24
150	7.18	3.54	1.86	1.41

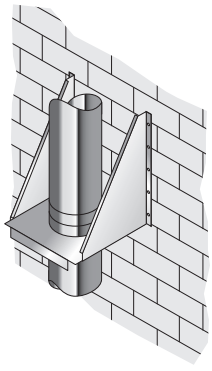


Diagram A

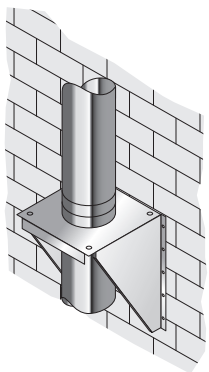


Diagram B

Installation

These notes should be read in conjunction with the detailed ICID Plus Installation Instructions.

MANDATORY REQUIREMENTS

Connection to an appliance that is connected to the fuel supply must be carried out by a GAS SAFE (gas) or OFTEC (oil) registered installer. We recommend the use of HETAS approved installers for solid fuel applications. For full design and installation details the key referral documents are:

- BS EN 1856-1: Chimneys - System Chimney Products
- BS EN 1859: Metal Chimneys - Testing Methods
- BS EN 1443: Chimneys - General Requirements
- BS EN 15287-1: Chimneys. Design, installation and commissioning of chimneys. Chimneys for non-room sealed heating appliances.
- BS 5440-1: Flueing and ventilation for gas appliances of rated input not exceeding 70kW net (1st, 2nd and 3rd family gases)
- Specification for installation of gas appliances to chimneys and for maintenance of chimneys.
- Approved Document J: - Combustion appliances and fuel storage systems (England & Wales)
- DFP Technical Booklet L: - Combustion appliances and fuel storage systems (NI)
- Technical Handbook (Domestic & Non Domestic), Section 3 - Environment (Scotland)
- Appliance Installation Instructions and related standards. Other standards covering specific applications will also be relevant and must be adhered to.
- Planning permission may be required, and reference should be made to the local Building Control Department.

ENCLOSURE/SHAFTS

With the exception of the room containing the appliance, where the chimney passes through any part of the building, where there is a risk of accidental human contact, i.e a bedroom etc., or where there is a risk of contact with combustible materials stored in a cupboard or in the roof-space, the chimney must be enclosed in an appropriate way to meet Building Regulations. This can be achieved by boxing in the chimney in habitable rooms, or by the use of a protective wire mesh frame in roof spaces etc. In all cases the minimum distance to any combustible material, including loft insulation, must be respected according to the table on p.3, and any enclosure should be ventilated using the appropriate ventilated fire stops (see p.17).

DISTANCE TO COMBUSTIBLES

In accordance with building regulations its is essential that the correct distance to combustible material is maintained. On solid fuel applications, where there is a risk of soot fire, a distance of 60mm to combustibles must be maintained within a combustible floor and within a combustible shaft, where the old G60 ventilated fire stop plates and G60 ventilated support plate are used (see Fig.1 p.31). Where the new G50 ventilated firestop plates and G50 ventilated support plates are used, then this distance to combustibles is reduced to 50mm both within the floor space and within the shaft. There is no need to line the area within the floor cavity with plasterboard; however the ventilated fire stop plate and ventilated support plate must be used.

On gas and oil applications, a distance of 50mm to combustibles must be maintained within a combustible floor and within a combustible shaft. The ventilated fire stop plate and ventilated support plate must be used.

Where the chimney penetrates a non combustible floor and where a non combustible shaft is used, a distance of 50mm to the shaft is sufficient. In this case, non ventilated fire stops and non ventilated support plates may be used at first floor level with a ventilated fire stop being used where the chimney penetrates into the roof space.

On bungalow applications where the chimney runs through either a combustible or non-combustible ceiling, an unventilated bungalow fire stop plate kit can be used. Please note that an unventilated support plate can not be used above the ceiling in this case. The weight of the chimney should be supported using the roof support (see p.21). Distance to combustibles must be respected within the ceiling space (see Fig. 2 p.30) and mesh frame should be used within the loft space, which must be ventilated (see Fig. 2 p.30).

Installation

JOINTING SYSTEM

All joints in the ICID Plus chimney range, which require a locking band, are made by means of a simple twist lock jointing method. This is achieved by pushing together the male and female collars on each end of the main chimney components and twisting the components through 1/6 of a turn to lock the collars into place. It should be noted that the female collars on elbows and tees are not fluted in order to allow for these items to be positioned according to requirements on site. In all cases the joints should be held securely in place using the locking band, which is supplied with all components with a female collar.

Where a system is to be used on a positive pressure condensing appliance, then components, which are not designated as dry only, can be converted for this application by the addition of the lip seal or in the case of adjustable pipes, lip seals. Please refer to p.6.

Joints are not permitted within wall and ceiling spaces. Any flue pipe (i.e. single wall) connection to the chimney must be made in the same room as the appliance. The chimney must project at least 425mm below the ceiling. Where a chimney passes through a wall, a wall sleeve must be used to prevent damage to the chimney and the building.

CONNECTION TO APPLIANCE

Use the appropriate appliance connector, sealing with fire rope and fire cement or high temperature sealant on solid fuel. The length of the inner liner can be trimmed where required to allow for thermal expansion within the appliance outlet spigot.

APPLIANCE REMOVAL

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

INSPECTION

To conform to Building Regulations, provisions should be made to enable a chimney to be inspected and cleaned. An inspection length or an insulated 90° or 135° Tee can form a suitable inspection point. To aid cleaning, sufficient distance should be left between changes of direction to permit the safe passage of cleaning brushes within the system. 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.

CHIMNEY DIAMETER

The chimney size should be as recommended by the appliance manufacturer and must satisfy the flue sizing requirements of EN13384-1 for single appliances, and EN13384-2 for multi appliances.

Guarantee

LIFE EXPECTANCY AND GUARANTEE

We are confident in our products and so offer you (the owner) a generous guarantee in relation to the ICID Plus system (the System). Provided that you comply with the conditions stated below, the system will be free from defects for whichever is the greater of:

- a period equal to the guarantee period of the appliance to which the Liner is first connected; or
- 20 years.

The conditions of the guarantee are:

- Correctly sized and installed in accordance with the manufacturer's instructions, current Building Regulations and relevant British and European standards.
- Maintained correctly by a qualified and competent person and maintenance records kept updated for both appliance and chimney/chimney liner.
- Used in combination with an appliance burning only approved fuels in accordance with Schiedel Chimney Systems and the appliance manufacturer's instructions.
- Register your product within 30 days of installation at www.schiedel.com/uk and provide us with any evidence we reasonably request to prove that your System has been fitted by a HETAS approved installer or if not, has been signed off by a Building Control Inspector prior to use.
- Familiarise yourself with the installation instructions and comply with its provisions in full during the lifetime of your usage of the product (including by keeping the required records safe). Failure to do so will invalidate any guarantee claim.

For more details about the guarantee visit our website.

For recommended fuels listings, please refer to the HETAS Guide www.hetas.co.uk

In the event of a fault developing in the product due to defective materials or faulty manufacture Schiedel Chimney Systems undertake to replace the product only. Schiedel Chimney Systems cannot accept liability nor take any responsibility for the installation, building or redecorating costs or any other consequential losses arising. If any complaint is found to be a result of faulty installation, non-compliance with or abuse contrary to these conditions, the cost of site investigation is chargeable.

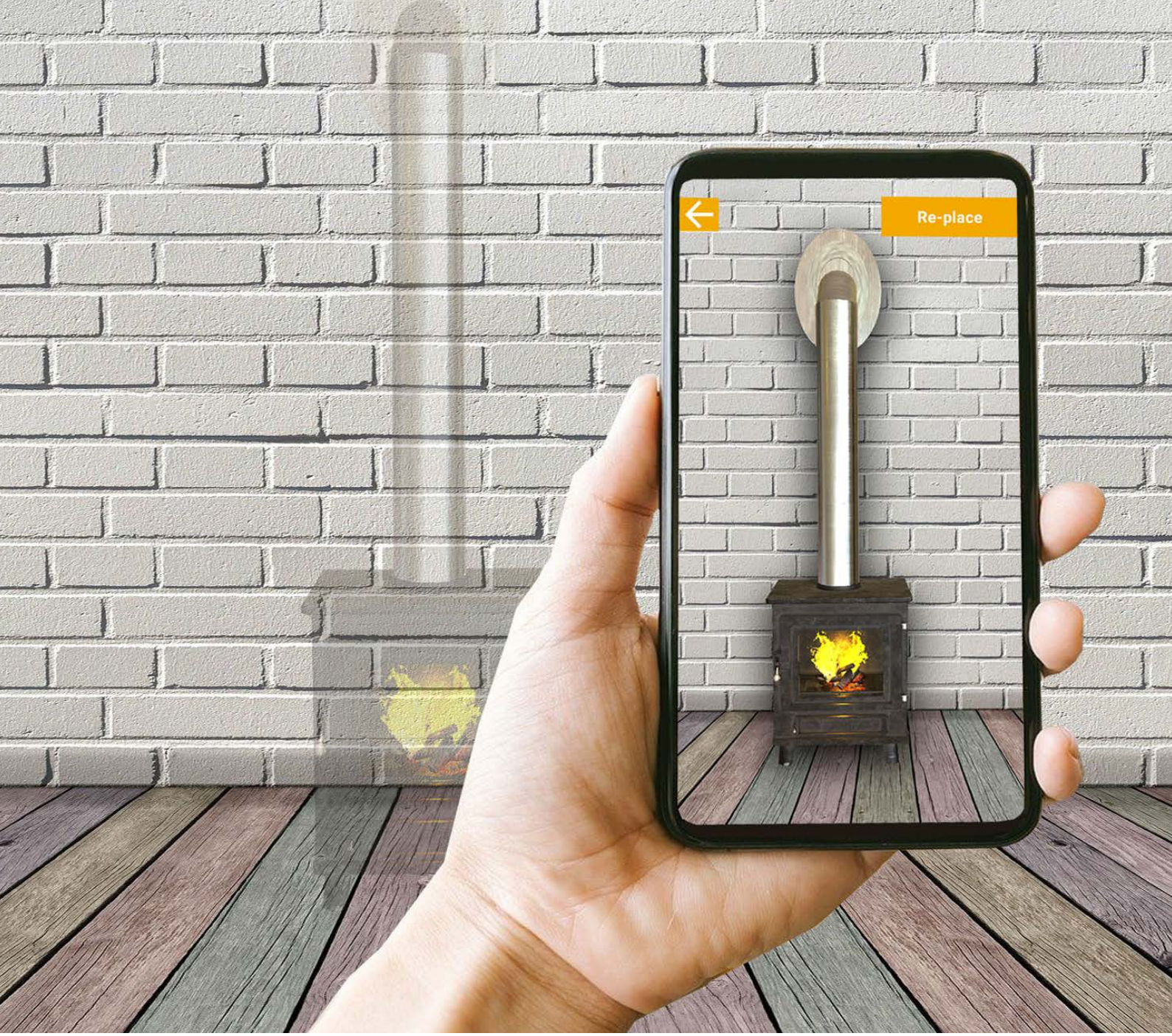
Schiedel Installer Rewards

Exciting news from Schiedel Chimney Systems for stove and chimney Installers! Whenever you register an installation with our easy to use, online guarantee registration portal, you will now accrue points based on the number of installations and installation type.

LOVE2SHOP

Once you have reached a minimum of 25 points, you can begin to redeem them for £25 Love2Shop vouchers.

So head on over to the portal and start to register your installations to take full advantage of our Lifetime Guarantee on ICID, and also to start earning points!



Download the **Augmented Reality Chimney Builder**, which allows you to see a stove within a room and generate a quote on your mobile device

SCHIEDEL

Schiedel Chimney Systems
Crowther Estate
Washington
Tyne & Wear NE38 0AQ
Tel. +44 (0)191 416 1150

sales.uk@schiedel.com
www.schiedel.com/uk

SCHIEDEL INSTALLER REWARDS

Exciting news from Schiedel Chimney Systems! Whenever you register an installation with our easy to use, online guarantee registration portal, you will now accrue points based on the number of installations and installation type to redeem for Love2Shop vouchers!

LOVE2SHOP

Follow us on Social Media @SchiedelUK

A standard INDUSTRIES COMPANY