

PUMICE

SYSTEM CHIMNEYS & LINERS

...naturally better



Pumice - *naturally* better

Pumice is a natural insulator. This is the unique property that separates pumice from all other chimney materials.

The insulating properties of Pumice allow the flue gases in the chimney to quickly reach their optimum temperature enabling the heating appliance to reach its optimum performance shortly after lighting.

It also keeps the chimney warmer longer as the heat output of the appliance decreases

- once again aiding performance and reducing the likelihood of condensation and soot build-up.

The natural properties of pumice

■ **Resistant to temperature change**

Pumice has very little expansion and contraction with temperature change. This reduces the possibility of cracking and structural damage that can occur with other products.

■ **High Insulation Properties**

Pumice is a natural insulator, able to maintain the temperature of flue gases when other products have allowed the temperature to fall below the dew point.

■ **Lightweight**

Pumice is strong yet lightweight allowing one person to lift and build the chimney units.



Pumice is a natural material sourced from the Hekla Volcano in Iceland.



Pumice is an excellent insulator, keeping flue gases warm while not transmitting heat to the outside.

Product Description

Schiedel Isokern products can be used for new chimneys and for the refurbishment of existing chimneys. The Isokern chimney systems provide a lightweight, easily installed and versatile chimney which can be used internally or externally. The systems are suitable for use with burning appliances in new and refurbished projects. They are ideal for Masonry, Timber Frame and Steel Frame construction. Isokern chimneys have been installed in Europe for over 60 years.



DM (DOUBLE MODULE)

Schiedel Isokern DM block system is a high quality System Chimney. The double wall system maintains flue gas temperatures while preventing heat transference to the outer casing. The separation of the inner and outer components also allows for thermal movement, reducing the risk of cracking and subsequent leaking or staining. It is simple and quick to build. The DM is available in 3 outer casing sizes - DM36, DM44 & DM54.



FLUE LINERS

The Schiedel Isokern flue liner range consists of over 15 different sizes. They can be used for newbuild, extensions and relining existing chimneys.



FIRECHESTS

The Schiedel Isokern range of firechests are supplied as flat packs. They can be easily and quickly constructed to produce a neat and pre-formed fire opening ready for finishing. The Magnum Firechest provides the opportunity to create fire openings up to 1.2m wide.



ISOKOAT FLUE SEALING SYSTEM

The Schiedel Isokoat system is an efficient and cost effective method of re-sealing a defective chimney shaft. The Isokoat material is applied to the chimney under pressure and forced into the cracks sealing them, re-pointing the joints and strengthening the walls. For further details see the separate Isokoat leaflet.

DM Double Module Chimney System

When the ease of construction and maximum insulation matter then the Double Module System comes into its own. The system is designed to be quick and easy to install.

The lightweight blocks are easy to handle. The outer and inner blocks are laid at the same time but with staggered joints for safety and stability. The double layer of pumice blocks separated by an air gap maximises the chimney insulation.

The Pumice Systems are suitable for wood burning, solid fuel, oil and gas (not condensing appliances).

There are 3 systems covering a range of different internal diameters to meet the requirements of different appliances and uses:

DM 36
150mm internal diameter for smaller output inserts, stoves and solid fuel/oil cookers

DM 44
180mm and 200mm internal diameters for inserts, stoves and open fires

DM 54
300mm and 345mm internal diameters for Magnum firechests and larger appliances, inserts and open fires



Unique features of the Isokern DM Chimney System

- **Zero distance to combustibles on straight rendered chimneys**
- **Quick and easy to assemble**
- **Lightweight materials, easy to handle**
- **Highly insulating pumice for better draw and minimum heat loss**
- **Staggered joints for maximum safety and stability**
- **Air gaps between outer casing and flue prevents surface staining**
- **Good resistance to temperature variations gives the maximum performance for your appliance**

Approvals



Isokern Pumice Double Module DM is CE Certified to EN1858 TÜV Cert no. 0036 CPR 90219 001

Isokern Pumice Chimney Liner is CE certified to EN1857 TÜV Cert no. 0036 CPR 90219 002

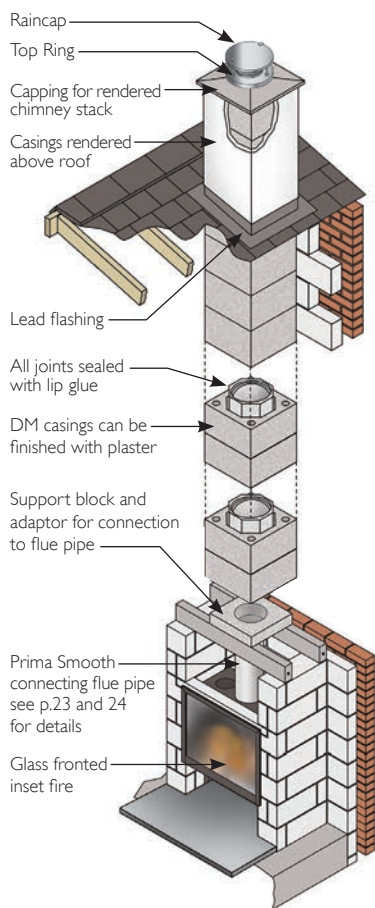
Isokern Magnum Firechest has been tested at the Fraunhofer Institut, Stuttgart, Cert no. P8-094/2006

CE Designation	
Double Module DM System Chimney* T450 NI D 3 G(00)	Pumice Chimney Liner T600 N2 D 3 G

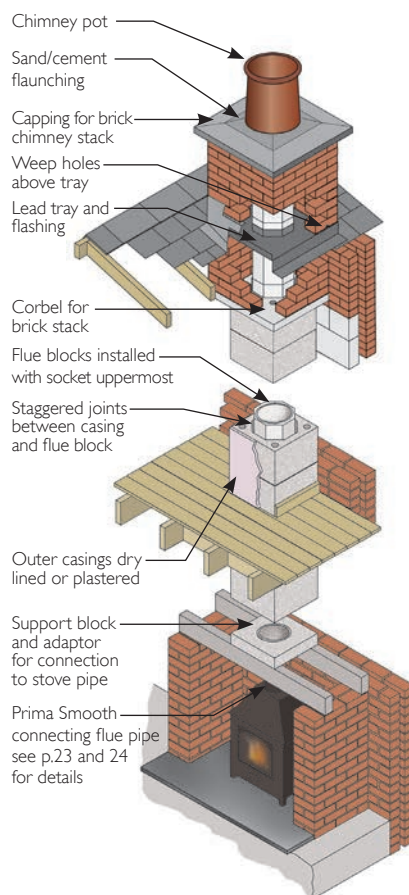
* Zero distance to combustibles on straight chimney systems with ventilated terminal.
38mm distance to combustibles on offset systems, and non ventilated systems.

DM 36 - for smaller output inserts, stoves and cookers

Available in Ø150mm internal diameter only.

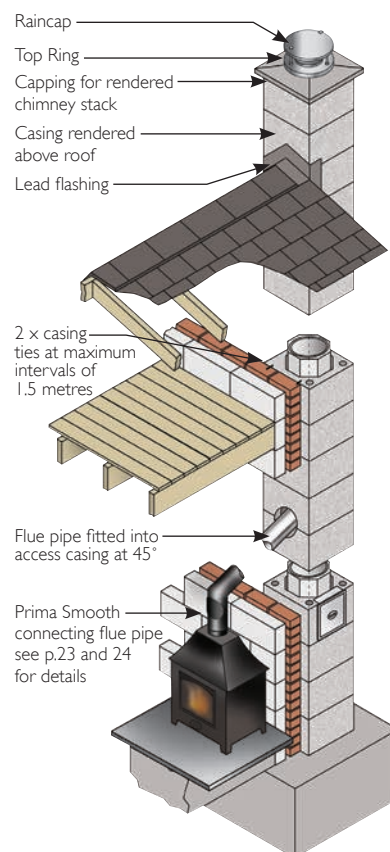


INSET FIRE



FREE STANDING STOVE IN A RECESS.

System includes a Stainless Steel adaptor for ease of connection between the stove and the DM Chimney.



FREE STANDING STOVE WITH EXTERNAL CHIMNEY AND PREFORMED FLUE ENTRY KIT




Downloadable drawings available from our web site

www.schiedel.co.uk

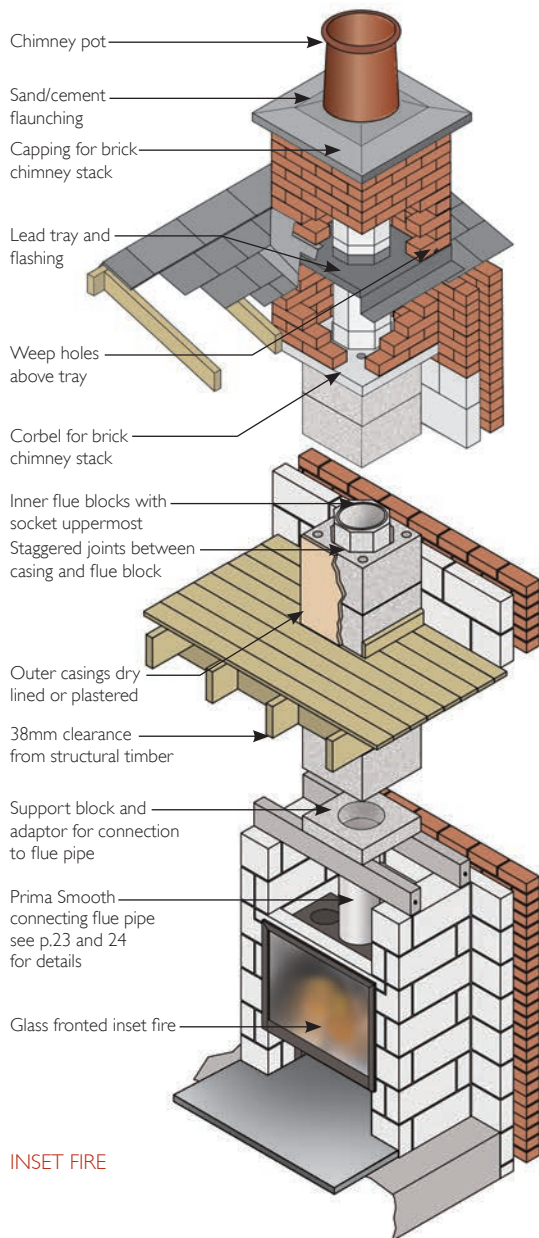
DM 36 - for smaller output inserts, stoves and cookers

DM 36

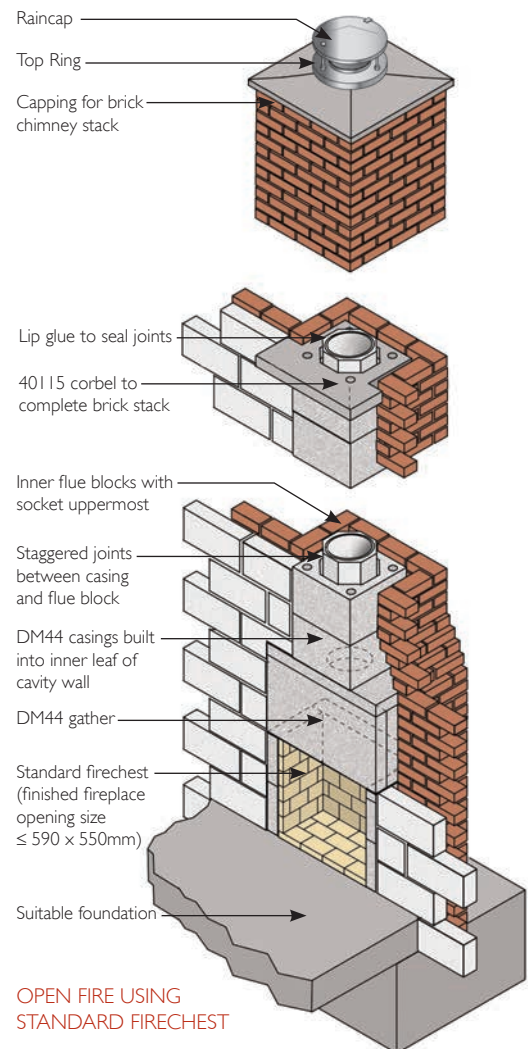
	SAP Code	Description	Weight (kg)
All dimensions are external unless otherwise stated			
	I30714	360mm square casing 250mm high	15
	I30712	360mm square access casing 250mm high (150mm i/d access hole)	13
	I30713	360mm square casing & soot door 250mm high	18
	I30709	DM36 45° flue entry kit (four parts) 500mm high	42
	I26363	150mm i/d 255 x 255 starter flue block 125mm high	4
	I26369	150mm i/d 255x255 flue block 250mm high	8
	I26368	150mm i/d 255x255 access flue block 500mm high (177mm i/d access hole)	16
	I30715	570mm square corbel for brickwork 75mm high	32
	I30710	490mm square capping - render	13
	I30711	690mm square capping - brickwork	31
	I26378	150mm i/d 360 x 435 offset block (86mm, 30° offset) 150mm high (allow 38mm distance to combustibles on offset chimneys)	25
	I30716	150mm i/d 360 square support block 100mm high	15
	I26373	150mm i/d (205mm o/d) stainless steel adaptor	
	I26357	125-150mm i/d (205mm o/d) stainless steel decreaser adaptor	
	I30732	Raincap (with fixing rods for top ring)	
	I35070	Top Ring (for ventilation)	

DM 44 - for inserts, stoves and small open fires

Available in internal diameters Ø180mm and Ø200mm.
Both inner liners fit into the same external block size.



INSET FIRE





OPEN FIRE USING
STANDARD FIRECHEST



Downloadable drawings available from our web site
www.schiedel.co.uk

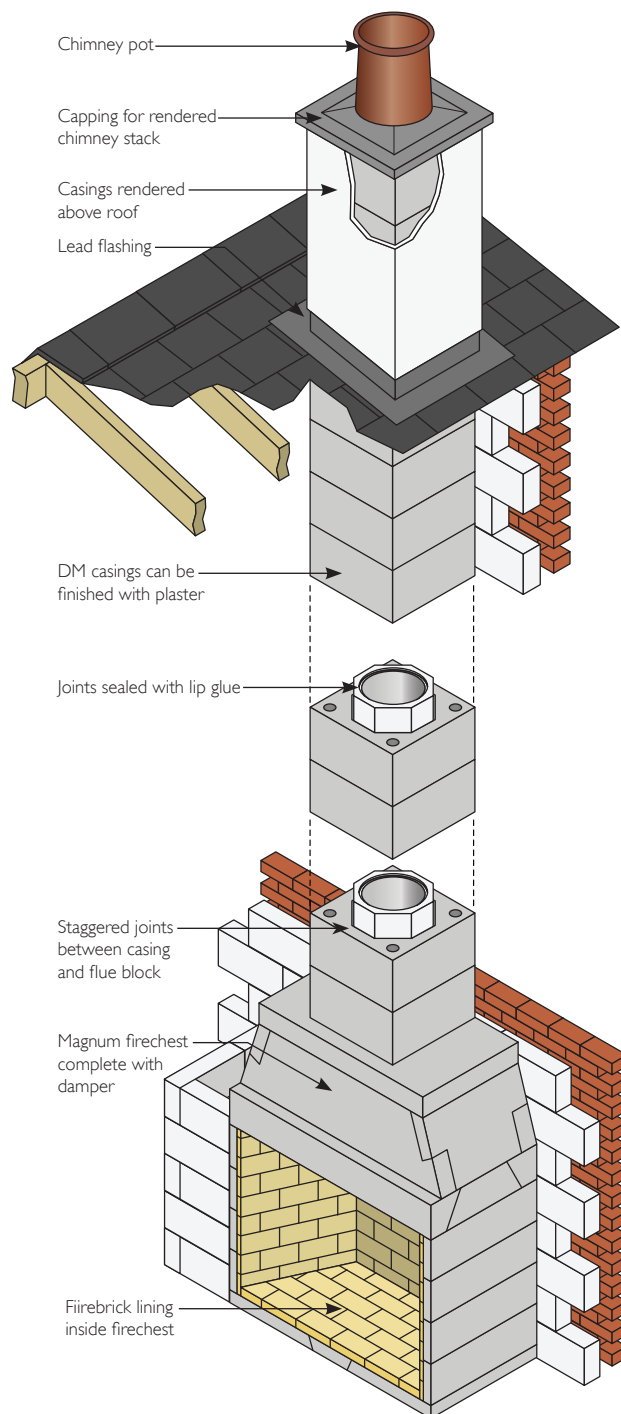
DM 44 - for inserts, stoves and small open fires

DM
44

	SAP Code	Description	Weight (kg)
All dimensions are external unless otherwise stated			
	I30727	440mm square casing 300mm high	30
	I30725	440mm square access casing 300mm high (220mm i/d access hole)	29
	I30726	440mm square casing & soot door 300mm high	36
	I30719	440mm 180mm i/d 45° flue pipe entry kit (4 parts) 600mm high	86
	I30722	440mm 200mm i/d 45° flue pipe entry kit (4 parts) 600mm high	84
	I30720	180mm i/d 310 x 310 starter flue block 150mm high	8
	I27684	200mm i/d 310 x 310 starter flue block 150mm high	7
	I27068	180mm i/d 310 x 310 flue block 300mm high	15
	I27683	200mm i/d 310 x 310 flue block 300mm high	14
	I30717	180mm i/d flue 310 x 310 access block 600mm high	28
	I27682	200mm i/d flue 310 x 310 access block 600mm high	26
	I30728	650mm square corbel for brickwork 75mm high	40
	I30235	650 x 560mm offset corbel for brickwork 75mm high	34
	I30818	740mm T corbel for external brickwork 75mm high	47
	I30723	570mm square capping for render	18
	I30724	820mm square capping for brickwork	44
	I31810	180mm i/d 440 x 500 offset block (56mm, 30° offset) 100mm high	22
	I30718	180mm i/d 440 x 500 offset block (86mm, 30° offset) 150mm high	32
	I27686	200mm i/d 440 x 500 offset block (56mm, 30° offset) 100mm high	20
	I27687	200mm i/d 440 x 500 offset block (86mm, 30° offset) 150mm high (Allow 38mm distance to combustibles on offset chimneys)	30
	I30721	180mm i/d 440mm square support block 100mm high	22
	I30730	200mm i/d 440mm square support block 100mm high	20
	I27691	200mm i/d (255mm o/d) stainless steel adaptor	
	I27671	150-200mm i/d (255mm o/d) stainless steel deceiver adaptor	
	I27672	175-200mm i/d (255mm o/d) stainless steel deceiver adaptor	
	I30732	Raincap (with fixing rods for top ring)	
	I30675	Top Ring (for ventilation)	

DM 54 - for larger open fires and appliances










Available in internal diameters Ø300mm and Ø345mm.
Both inner liners fit into the same external block size.







LARGE FIRE OPENING
CREATED WITH MAGNUM FIRECHEST

DM 54 - for larger open fires and appliances

DM 54

	SAP Code	Description	Weight (kg)
All dimensions are external unless otherwise stated			
	I30708	545mm square casing 300mm high	40
	I29031	300mm i/d 420 x 420 starter flue block 150mm high	11
	I29093	345mm i/d 420 x 420 starter flue block 150mm high	11
	I29033	300mm i/d 420 x 420 flue block 300mm high	22
	I29094	345mm i/d 420 x 420 flue block 300mm high	22
	I30735	800mm square corbel for brickwork 75mm high	57
	I30733	670mm square capping for render	20
	I30734	950mm square capping for brickwork	46
	I29038	300mm i/d 545 x 635 offset block (86mm, 30° offset) 150mm high	44
	I29092	345mm i/d 545 x 635 offset block (86mm, 30° offset) 150mm high (allow 38mm distance to combustibles on offset chimneys)	40
	I29043	300mm i/d 545mm square support block 100mm high	30
	I29039	300mm i/d (365mm o/d) stainless steel adaptor	
	I30732	Raincap (with fixing rods for top ring)	
	I35093	Top Ring (for ventilation)	

DM Accessories

	SAP Code	Description	Weight (kg)
All dimensions are external unless otherwise stated			
	I46432	1500 x 215 x 70mm support lintel Max load (per pair) 1650kg	51
	I30689	Stainless steel casing wall tie	
	I30771	Lip glue (5kg)	5
	I02629	1m reinforcement rod 12mm diameter	1

ACCESSORIES

Typical DM Installation Detail

FOUNDATIONS

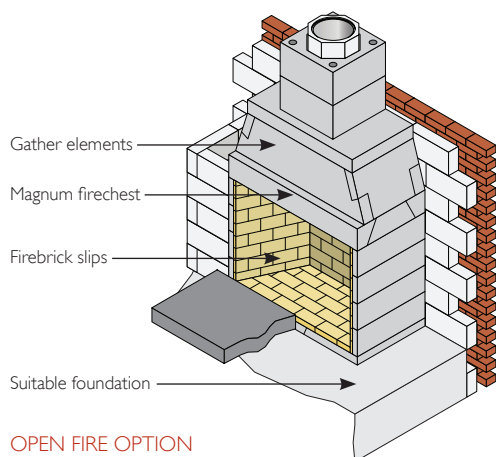
Construction begins by providing a suitable foundation and constructional hearth in accordance with Building Regulations and site requirements.

OPEN FIRE OPTION

Bed the base plate of the firechest onto a suitable foundation/constructional hearth in accordance with Building Regulations and at the level required on site using Isokern lip glue.

Install the firechest using lip glue making sure all elements are level. 100mm of brick/blockwork must be built around the sides and back of the firechest to comply with Building Regulations. The inside of the firechest must be finished with a suitable fireback or firebrick slips.

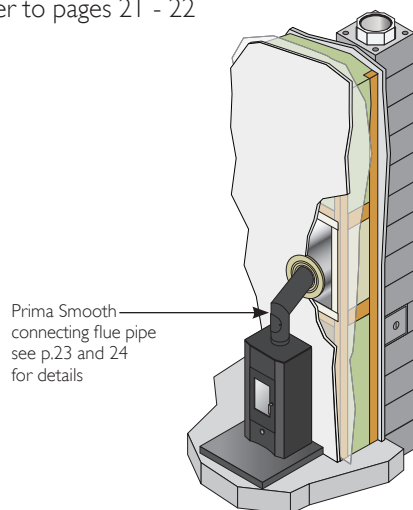
Install the gather using lip glue making sure all the elements are level. The front face of the gather can be finished with plasterboard, rendered or clad in masonry. Lintels may be required above the gather to help carry the brick or blockwork. The maximum loading capacity of the ISOKERN firechest and gather is 2500kg.



OPEN FIRE OPTION

TIMBER FRAME SOLUTION

For timber framed solution refer to pages 21 - 22

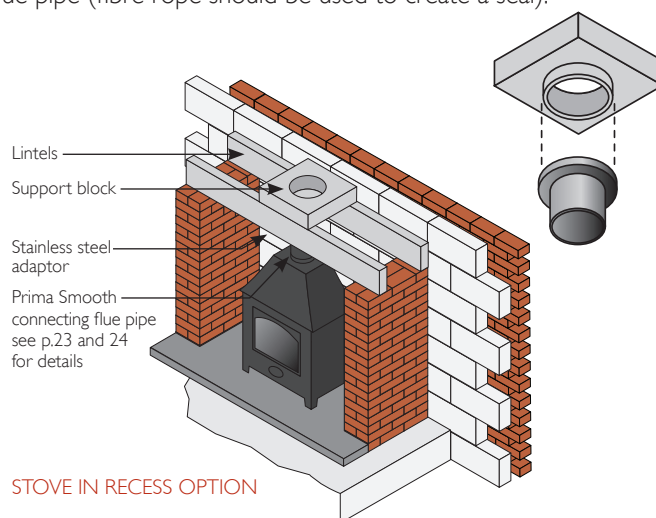


IGNIS-PROTECT 45° VERSION

STOVE IN RECESS OPTION

Pre-stressed lintels or a suitable cast-in-situ concrete slab must be provided above the stove recess, please make sure they are strong enough to carry the load (see appropriate Isokern DM drawing for aperture size). It is recommended to have a minimum of 600mm of stove flue pipe before connecting to the support block.

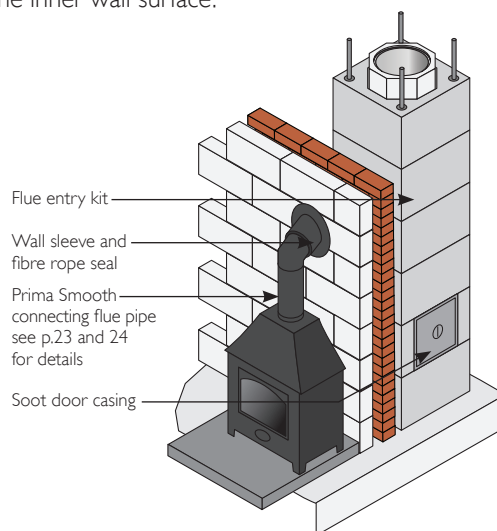
The support block is bedded onto the lintels using a weak mix mortar. A stainless steel adaptor is used to create a positive connection from the support block to the stove flue pipe (fibre rope should be used to create a seal).



STOVE IN RECESS OPTION

FREE STANDING STOVE OPTION

A soot door casing and access flue block must be used below the flue pipe entry. The DM 45° access kit is then used for the connecting flue pipe. A suitable wall sleeve must be used to seal the cavity wall. Any combustible insulation within the wall must then be kept away from the single wall connecting flue pipe by at least 1.5 x its diameter. Fibre rope is used to seal between the flue pipe and wall sleeve, a suitable trim collar can be used to finish the inner wall surface.

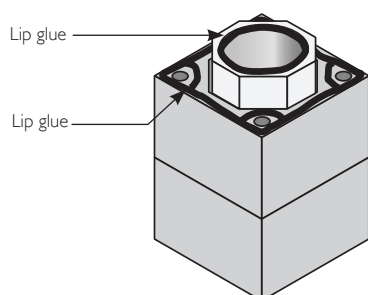


FREE STANDING STOVE OPTION

Typical DM Installation Detail

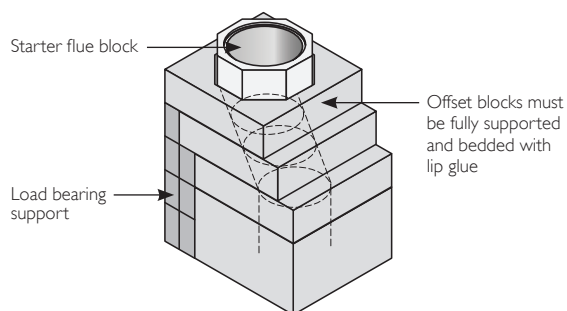
CHIMNEY CONSTRUCTION

Bed the first outer casing using lip glue making sure the rebate (raised lip) is uppermost. The starter flue block is then put inside the casing bedded with lip glue. The socket on the starter flue block must be uppermost and the air gap between the starter flue and the casing should be kept clear. The finished lip glue joints should be 2-3mm thick, a special bag is provided for ease of application and the lip glue should be applied in 12-15 mm beads.

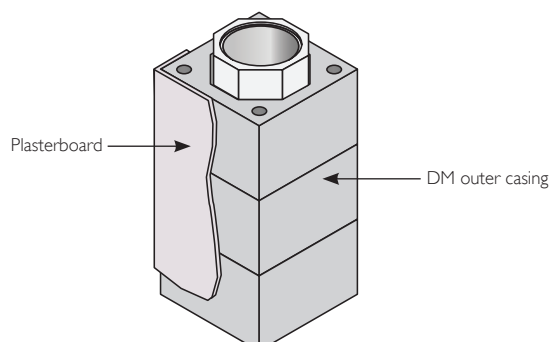


HOW TO USE LIP GLUE

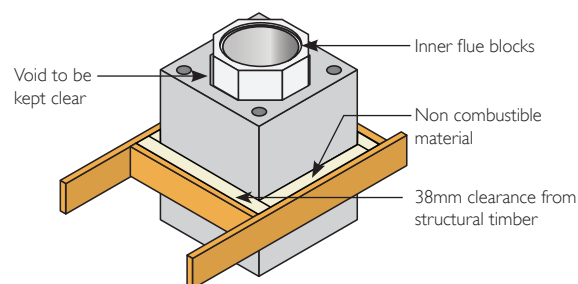
Offset blocks if required must be glued together with lip glue and be fully supported. Please note a chimney should be built straight wherever possible. A starter flue block will be required above the offset blocks to stagger the joints between the outer casing and inner flue blocks.



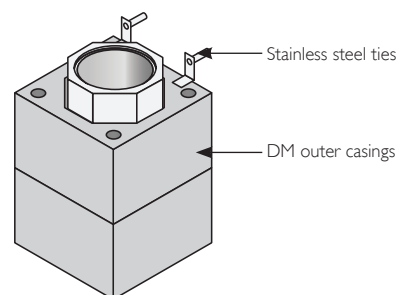
Casings and flue blocks are added using lip glue for all joints. Ensure the air gap between the inner flue and outer casing remains clear. The outer surface of the casings to be finished with plasterboard on dabs or plaster. The side that faces the wall does not need an external finish.



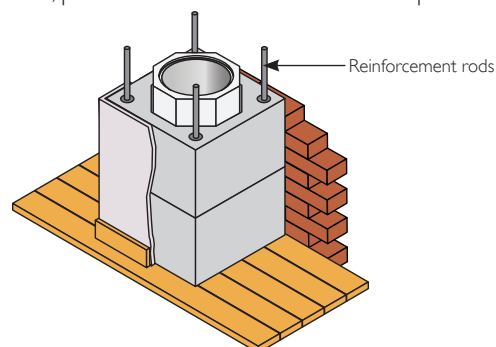
On a rendered stack with a top ring fitted (see p.12 for example), where a straight chimney passes through a floor or roof, zero mm distance to combustibles can be applied. A sliding joint is made using mineral wool or similar non-combustible material. In all other cases, 38mm clearance must be maintained between the outer face of the chimney and any structural timber or loose combustible material. Floor boards, skirting boards, dado rails and other non-structural components may, however, be in contact with the chimney.



External chimneys must be tied to the structure at maximum intervals of 1.5m and at the point where it departs from the roof using 2 x suitable stainless steel wall ties. These are fitted into the outer casing joints. They are not always required for internal chimneys. Please consult the Isokern technical office.



High tensile steel reinforcement rods will be required for all chimneys with a height that exceeds 1.4m above the roof line, 1.1m if the wind speed exceeds 44ms. These rods are available from Isokern and must be grouted (1:3 cement/sand) into the holes provided in the outer casings. You must start the rods at least the same height below the roof as what's above, please check with our technical department.



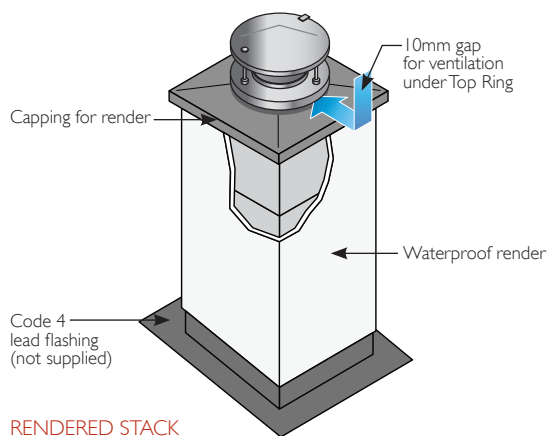
Typical DM Installation Detail

RENDERED STACK OPTION

Code 4 lead flashing to be fitted at roof level as per Building Regulations. We recommend that you scorch a 5-10mm deep channel into the outer surface of the casings and fold in the top edge of the flashing.

Finish the outer surface of the casings above the roof with 2 part waterproof render. The recommended mix is 1:2.5-6 cement:lime:sand for the undercoats, 1:2.8-9 cement:lime:sand for the final coat. The number of coats required will depend upon the degree of exposure, generally a two coat mix is acceptable. The mix may vary due to climate conditions, the thickness of any one coat should not exceed 15mm, and each subsequent coat should be reduced by approximately 3mm.

Isokern concrete capping for render to be lip glued onto the last casing.

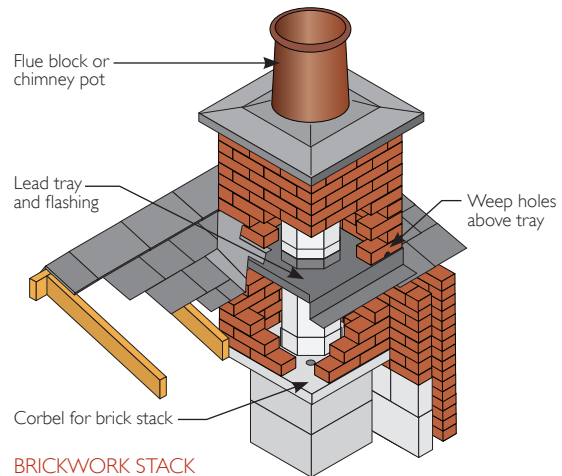


BRICK STACK OPTION

To take brick or stonework externally a corbel is fitted just below the roof. Use trusses and trimmers to brace the cladding as it passes through the roof.

Code 4 lead tray with 50mm upstands and stepped flashing to be fitted in accordance with Building Regulations. A 50mm upstand should be fitted tight to the outside of the flue block and where possible turned in by approx 10mm. Lead trays should be coated with bituminous paint where it is in contact with mortar. The D.P.C. tray should be fitted at least 150mm above the lowest point of intersection with the roof. Weep holes should be provided at the front of the stack above the tray for water drainage.

Casings can be deleted above the corbel if stack height is less than 1.4m above the roof.



TERMINATION

Raincap - Ventilated Option - (Installation with 0 distance to combustibles for straight rendered chimneys only). Take the last flue block up through the capping, do not fill the gap between the flue block and capping. Push fit the aluminium top ring onto the flue block and make sure there is a 10mm air gap between the outer edge of the ring and the capping. The flue block may need cutting to suit.

Chimney Pot Option - This option always requires a 38mm distance to combustibles from the outside of the block. Fit a chimney pot at least 75mm down into the capping and flaunch with 1:3 cement and sharp sand to seal around. This option is not possible if 0 distance to combustibles is required.

AFTER COMPLETION

After installation is complete tests and checks should be carried out in accordance with document J of the Building Regulations. A chimney notice plate must be completed and permanently fixed in the dwelling, ideally near the electrical consumer unit. The checklist and notice plate are available from Schiedel Isokern.

USE AND MAINTENANCE

The chimney should be left for at least 72 hours before use, then start only with small fires for the first week and gently increase thereafter.

The chimney should be swept at least twice a year, once before the heating season and once after the heating season. You may need to sweep during the heating season depending upon use. The brush should be a medium density polypropylene bristle type and should be the same diameter as the flue. Steel brushes **must not** be used to sweep the Isokern pumice flues.

Always follow the appliance manufacturer's operating instructions. Always burn approved fuels or dry seasoned wood. Avoid burning unseasoned wood and slow burning of solid fuels as this can produce excessive soot and condensation which in turn cause soot fires and damage. If correctly installed, operated and maintained these systems could last the life of the dwelling.

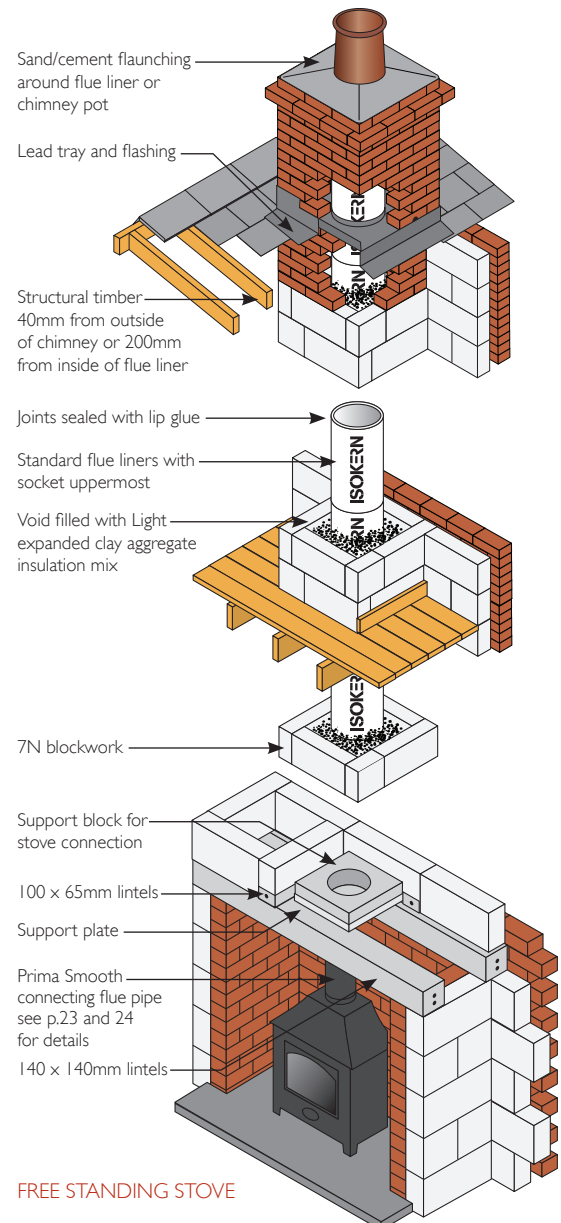
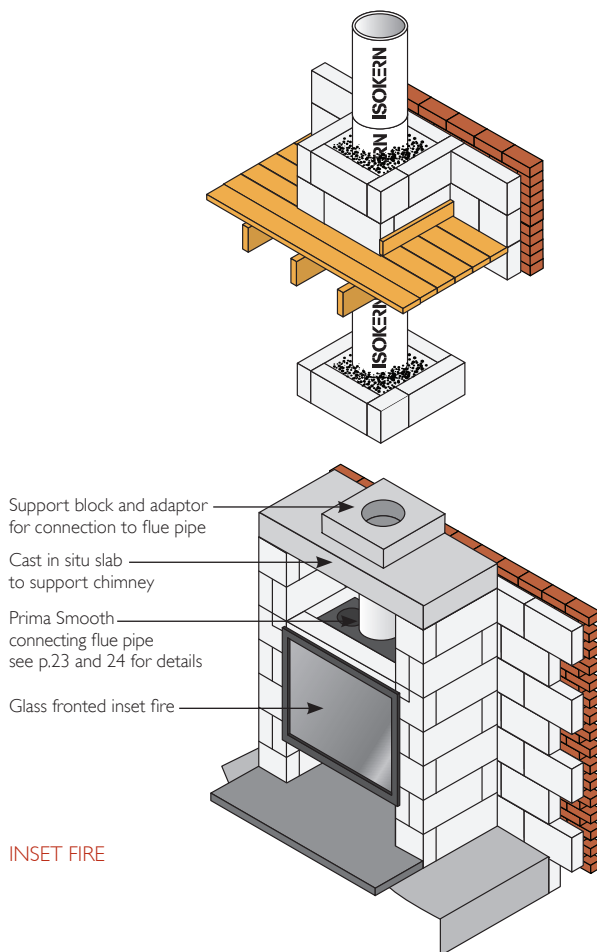
Liner System - for new and existing chimneys

The pumice liner system comes in a range of 15 diameters from 150mm to 1000mm with T Liners, Liner Support Blocks, and Adaptors for ease of connection to the appliance.

The insulated flue liner for traditional build

Suitable for use with inserts, stoves, open fires and cookers burning wood, solid fuel, oil or gas (not condensing appliances).

- **Lightweight materials, easy to handle**
- **Highly insulating pumice for better draw and minimum heat loss**
- **600mm and 1000mm lengths mean fewer joints and fast to install**
- **15 flue sizes available**
- **Good resistance to temperature variations gives the maximum performance for your appliance**



Downloadable drawings available from our web site
www.schiedel.co.uk

Liners and Accessories

SAP Code	Description	Weight (kg)
All dimensions are external unless otherwise stated		
Round Liners		
I26372	150mm i/d 600mm high rebated liner (200mm o/d)	8
I26498	175mm i/d 600mm high rebated liner (235mm o/d)	11
I27685	200mm i/d 600mm high rebated liner (250mm o/d)	12
I27715	225mm i/d 600mm high rebated liner (285mm o/d)	14
I28546	250mm i/d 600mm high rebated liner (310mm o/d)	16
I29036	300mm i/d 600mm high rebated liner (360mm o/d)	19
I29360	350mm i/d 600mm high rebated liner (416mm o/d)	27
I29567	400mm i/d 1000mm high rebated liner (470mm o/d)	50
I29738	450mm i/d 1000mm high rebated liner (530mm o/d)	60
I29927	500mm i/d 1000mm high rebated liner (590mm o/d)	70
I30142	600mm i/d 1000mm high rebated liner (706mm o/d)	100
Collars		
I26361	150mm steel collar	
I26494	175mm steel collar	
I27673	200mm steel collar	
I27705	225mm steel collar	
I28533	250mm steel collar	
I29021	300mm steel collar	
I29356	350mm steel collar	
Support Lintel		
I46431	1500 x 140 x 140mm support lintels Max load (per pair) 3250kg	71
Support Plates (for supporting liners and support blocks)		
I27694	210mm i/d 340mm square 4mm thick (fits 150mm support blocks)	3
I28549	255mm i/d 360mm square 4mm thick (fits 175mm and 200mm support blocks)	3
Liner Support Blocks (for connection to single wall connecting flue pipe)		
I26366	150mm i/d 310mm square 75mm high	7
I26483	175mm i/d 350mm square 75mm high	8
I27340	200mm i/d 350mm square 75mm high	8
I30731	225mm i/d 440mm square 100mm high	20
I28548	250mm i/d 440mm square 100mm high	20
I29043	300mm i/d 545mm square 100mm high	30
T Liners		
I26376	150mm i/d 45° rebated T liner 600mm high	15
I26500	175mm i/d 45° rebated T liner 600mm high	20
I27695	200mm i/d 45° rebated T liner 600mm high	22
I26375	150mm i/d 90° rebated T liner 600mm high	15
Light expanded clay aggregate		
I30769	50 litre (0.05m³)	approx. 19
Lip Glue		
I30771	Lip glue (5kg)	5

Liners and Accessories

LINERS AND ACCESSORIES

SAP Code	Description	Weight (kg)
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All dimensions are external unless otherwise stated



Liner Bends

I26364	150mm i/d 15° rebated bend	4
I26365	150mm i/d 30° rebated bend	5
I26367	150mm i/d 45° rebated bend	6
I26495	175mm i/d 15° rebated bend	5
I26496	175mm i/d 30° rebated bend	6
I26497	175mm i/d 45° rebated bend	8
I27679	200mm i/d 15° rebated bend	5
I27680	200mm i/d 30° rebated bend	6
I27681	200mm i/d 45° rebated bend	8
I27706	225mm i/d 15° rebated bend	7
I27707	225mm i/d 30° rebated bend	8
I27708	225mm i/d 45° rebated bend	9
I28542	250mm i/d 15° rebated bend	8
I28531	250mm i/d 30° rebated bend	9
I28532	250mm i/d 45° rebated bend	10
I29015	300mm i/d 15° rebated bend	10
I29016	300mm i/d 30° rebated bend	11
I31819	300mm i/d 45° rebated bend	12
I29354	350mm i/d 15° rebated bend	13
I29355	350mm i/d 30° rebated bend	14
I31820	350mm i/d 45° rebated bend	16

Larger diameter bends available on request.



Stainless Steel Adaptors with Sealing Rope (for connection to support block)

I26373	150mm i/d (205mm o/d)
I26499	175mm i/d (235mm o/d)
I27691	200mm i/d (255mm o/d)
I27719	225mm i/d (290mm o/d)
I28547	250mm i/d (315mm o/d)
I29039	300mm i/d (365mm o/d)



Stainless Steel Increaser Adaptors with Sealing Rope (for connection to support block)

I26357	125-150mm i/d (205mm o/d)
I26493	150-175mm i/d (235mm o/d)
I27671	150-200mm i/d (255mm o/d)
I27672	175-200mm i/d (255mm o/d)
I27704	200-225mm i/d (290mm o/d)



Stainless Steel Adaptors with Sealing Rope (for connection to T liners)

I25453	125-150mm i/d (210mm o/d)
I26358	150mm i/d (210mm o/d)
I46412	150-175mm i/d (240mm o/d)
I46413	175mm i/d (240mm o/d)

Liners and Accessories

SAP Code	Description	Weight (kg)
All dimensions are external unless otherwise stated		
Access Blocks		
I26362	150mm i/d 215mm square 205mm high rebated access block	5
I27678	200mm i/d (also for 175mm) 280mm square 280mm high rebated access block	12
Soot Door		
I42837	Double soot door 265 x 395mm	2
Insulated Plug		
I42599	Insulated plug (glue to access blocks)	4
Chimney Pots		
I26371	Terracotta 150mm i/d roll top terracotta 450mm high	14
I27341	200mm i/d roll top terracotta 450mm high	16
I27713	225mm i/d roll top terracotta 300mm high	12
I27714	225mm i/d roll top terracotta 450mm high	18
I28543	250mm i/d roll top terracotta 450mm high	19
I29035	300mm i/d roll top terracotta 450mm high	26
I29359	350mm i/d roll top terracotta 450mm high	32
	Buff	
I26370	150mm i/d roll top buff 450mm high	14
I30697	200mm i/d roll top buff 450mm high	16
I27702	225mm i/d roll top buff 300mm high	12
I27711	225mm i/d roll top buff 450mm high	18
I28544	250mm i/d roll top buff 450mm high	19
I29034	300mm i/d roll top buff 450mm high	26
I29358	350mm i/d roll top buff 450mm high	32
Topguards		
I30737	Terracotta Topguard terracotta 150-250mm i/d	2
I30738	Topguard terracotta 300mm i/d	2
I30739	Topguard terracotta 350mm i/d	2
	Buff	
I30742	Topguard buff 150-250mm i/d	2
I30740	Topguard buff 300mm i/d	2
I30741	Topguard buff 350mm i/d	2
Notice Plate		
I30696	Chimney notice plate	
Smoke Pellets		
I30817	Smoke pellets (6 per tube)	



Typical Liner Installation Detail

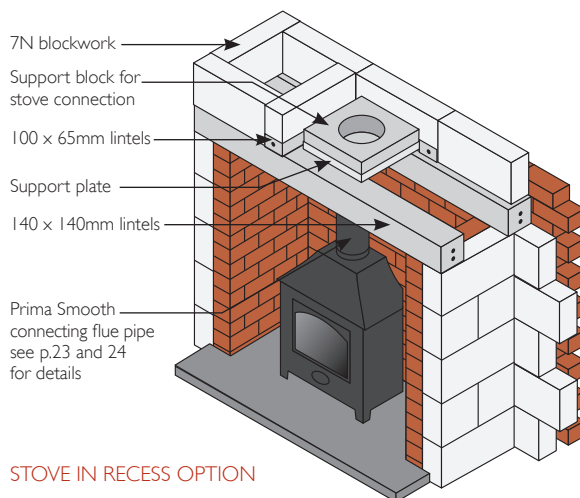
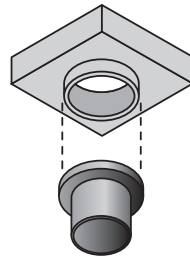
Construction begins by providing a suitable foundation and constructional hearth in accordance with Building Regulations and site requirements.

STOVE IN RECESS OPTION

Our pre stressed lintels must be installed above the fireplace recess, for this method a support plate is required under the support block.

Alternatively a suitable cast-in-situ concrete slab lintel can be created above the fireplace recess. (See Isokern standard drawings for hole size depending on diameter of chosen flue).

The support block is bedded onto the slab lintel using weak mix mortar. A stainless steel adaptor is used to connect from the support block to the stove flue pipe. This adaptor is pushed up onto the support block spigot (fibre rope should be used to create a seal). It is recommended to have a minimum of 600mm length of flue pipe before connecting to the chimney.

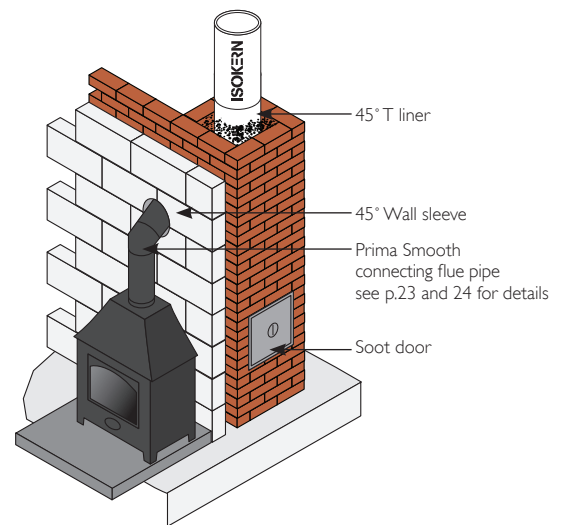
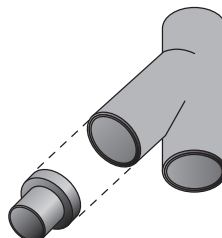


STOVE IN RECESS OPTION

FREE STANDING STOVE OPTION

A soot door must be provided below the flue pipe entry to allow for inspection and removal of soot and debris. A suitable wall sleeve is to be used to seal the cavity wall. Any combustible insulation within the wall must be kept away from the single skin connecting flue pipe by at least 1.5 x its diameter.

A stainless steel adaptor is fitted to the Isokern T Liner with the fibre tape supplied. The flue pipe is a push fit over the spigot on the adaptor. Seal off the gap between the flue pipe and wall sleeve with fire proof rope and closing plate.

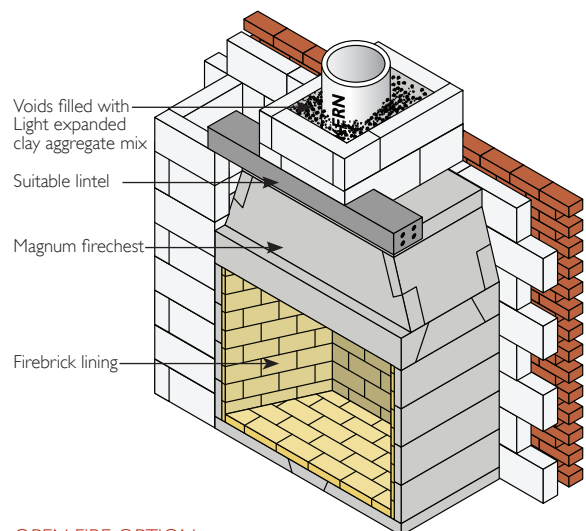


FREE STANDING STOVE OPTION

OPEN FIRE OPTION

Install the firechest onto the constructional hearth using lip glue making sure all elements are level. 100mm of brick or blockwork must be built around the sides and back of the firechest to comply with Building Regulations. The inside of the firechest must be finished with a suitable fireback or firebrick slips.

Install the gather using lip glue making sure all elements are level. The front face of the gather can be finished with plasterboard, rendered or clad in masonry. Lintels may be required above the gather to help carry the brick or blockwork. The maximum loading capacity of the Isokern firechest and gather is 2500kg.

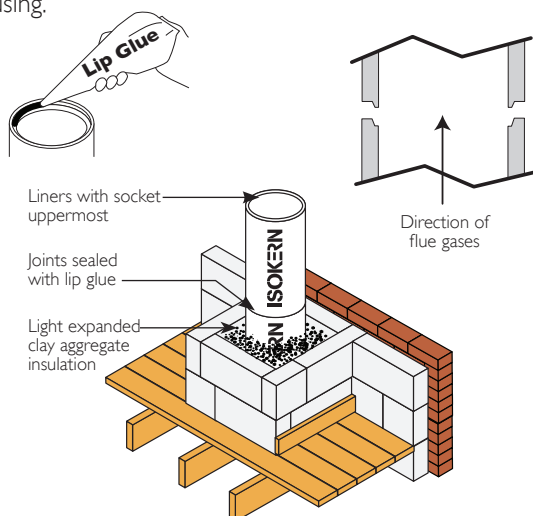


OPEN FIRE OPTION

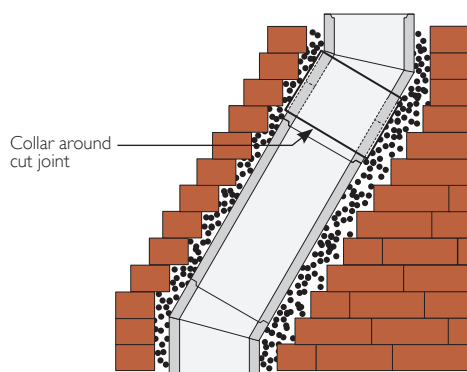
Typical Liner Installation Detail

ALL OPTIONS

The flue liners are installed socket uppermost and sealed with Isokern lip glue. Finished lip glue joints should be 2-3mm thick. A special bag is provided for ease of application and the lip glue should be applied in 12-15mm beads. Remove any excess glue to maintain a smooth surface. Clad the liners with a minimum of 100mm thick brickwork or medium density (7kN) blockwork. A minimum thickness of 15mm Light expanded clay aggregate insulation must be installed between the liners and masonry. Mix 20 parts to 1 part opc cement and a small amount of water. Make sure it is well mixed before using.



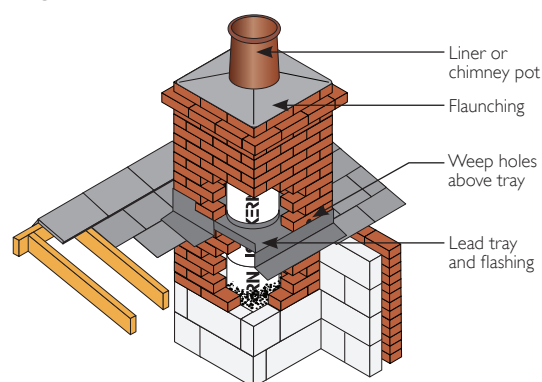
If bends are required in the chimney make sure adequate support is provided and always backfill with light expanded clay aggregate insulation mix. Liners can be cut between bends to achieve a required offset distance. A steel collar as well as lip glue must be used for any cut joints. A maximum of 2 complete offsets (4 bends) are allowed per chimney and the angle must not be greater than 45° from the vertical.



You must provide adequate clearance from combustible material in accordance with Building Regulations. Combustible materials must be 200mm from the inner surface of flue liner or 40mm from the outside of the masonry chimney unless it is a floorboard, skirting board, dado or picture rail, mantel-shelf or architrave.

Fit appropriate lead dpc's and flashings in accordance with the relevant regulations. Isokern recommend that the lead tray should be dressed up the outside of the flue liners to avoid a weak joint. Weep holes should be provided above the tray for moisture drainage.

Terminate the chimney to the correct height in accordance with document J of the Building Regulations. The chimney can be finished by flaunching (1:3 cement/sharp sand) either around the Isokern flue liner or a suitable chimney pot. Approved rain caps can be used to help prevent water entering the flue.



AFTER COMPLETION

After installation is complete tests and checks should be carried out in accordance with document J of the Building Regulations. A chimney notice plate must be completed and permanently fixed in the dwelling, ideally near the electrical consumer unit. The checklist and notice plate are available from Schiedel Isokern.

USE AND MAINTENANCE

The chimney should be left for at least 72 hours before use, then start with only small fires for the first week and gradually increase thereafter.

The chimney should be swept at least twice a year; once before the heating season and once after the heating season. You may need to sweep during the heating season depending upon use. The brush should be a medium density polypropylene bristle type and should be the same diameter as the flue. Steel brushes **must not** be used to sweep Isokern pumice flues.

Always follow the appliance manufacturer's operating instructions. Always burn approved fuels or dry seasoned wood. Avoid burning unseasoned wood and slow burning of solid fuels as this can produce excessive soot and condensation which can in turn cause soot fires and damage. If correctly installed, operated and maintained these systems could last the life of the dwelling.

Firechests

The ideal solution for creating open fires. The finished appearance is down to individual taste using one of the many fireplace surrounds on the market.

The Schiedel Isokern firechest complements the Isokern chimney systems which are designed to create a complete system, avoiding many of the variable factors that lead to draught problems and smoky fireplaces.

The Isokern firechest range is cast using lightweight, highly insulating pumice. The components interlock like pieces of a three dimensional jigsaw to form a sturdy, robust fireplace recess and gather. The joints are sealed using lip glue jointing compound. Starting from a suitable foundation and constructional hearth, assembly of the complete firechest and gather could take less than one hour.

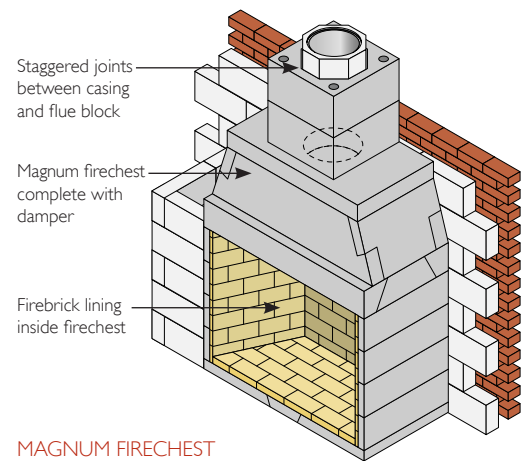
The range includes firechests with fire opening widths from 500 to 1250mm. Each firechest is packed on a pallet with detailed assembly instructions. The firechest is load bearing and will carry up to 2600kg of chimney above, although you may exceed this weight with the use of additional lintels.

The Magnum Firechest Range

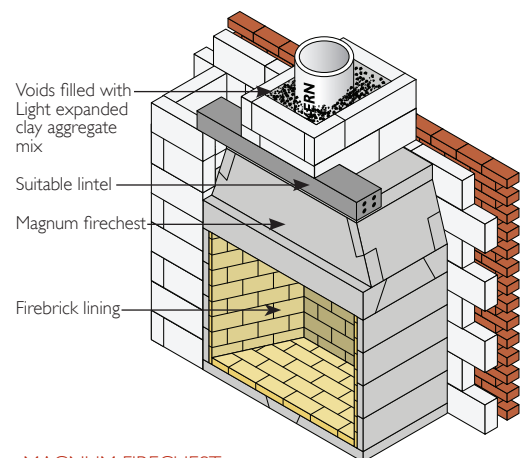
The Magnum Firechest range has been designed to maximise the burning efficiency of wood in an open fire. The specially shaped fire chamber facilitates the efficient burning of wood logs to give efficiencies from 41% to 45%, depending on the model chosen. The firechests are tested to EN13229.

DAMPER

A flue damper is available in the Magnum range of firechests. In wood burning installations the flue damper can be used to control the draft in the flue and avoid excessive heat loss when the fireplace is not being used. This is reflected in the SAP calculation for Document L. The inclusion of the damper will halve the chimney ventilation rate in the SAP calculation. It must not be installed with gas fires.



MAGNUM FIRECHEST
WITH DM SYSTEM CHIMNEY



MAGNUM FIRECHEST
WITH PUMICE LINERS

Downloadable drawings available from our web site

www.schiedel.co.uk

Firechests



Magnum Firechests

SAP Code	Model	Opening Width (mm)	Opening Height (mm)	Ext. Width (mm)	Ext. Height (mm)	Ext. Depth (mm)	Weight (kg)
I30773	500	510	540	685	1540	440	390
I29371	950	990	960	1090	1761	710	715
I29568	1100	1130	960	1230	1761	710	790
I29767	1200	1246	960	1346	1761	710	845

Magnum 500 Inside Flue diameter 200mm

Magnum 950 - 1200 Inside Flue diameter 350mm



Manor Gathers

SAP Code	Model	Inside Flue Dia. (mm)	Internal Width (mm)	Ext. Width (mm)	Ext. Height (mm)	Ext. Depth (mm)	Weight (kg)
I33463	900 Centre Hole	350	933	1086	525	640	140
I35267	900 Offset Hole	350	933	1086	525	640	140
I35280	1150 Centre Hole	350	1191	1350	930	640	268
I35279	1150 Offset Hole	350	1191	1350	930	640	268



Standard Firechest

SAP Code	Opening Width (mm)	Opening Height (mm)	Ext. Width (mm)	Ext. Height (mm)	Ext. Depth (mm)	Weight (kg)
I30820	690	660	850	660	450	100



Pumice Gathers

SAP Code	Model	Internal width (mm)	Inside Flue Dia. (mm)	Ext. Width (mm)	Ext. Height (mm)	Ext. Depth (mm)	Weight (kg)
I30822	Liner	690	225	850	600	450	100
I30729	DM44	690	200	850	600	450	100



Concrete Gathers

SAP Code	Model	Inside Flue Dia. (mm)	Internal Width (mm)	Ext. Width (mm)	Ext. Height (mm)	Ext. Depth (mm)	Weight (kg)
I30699	C16	225	600	800	225	450	110
I31200	C17	250	800	1000	300	550	130
I31201	C18	300	800	1000	300	550	138



Firebricks and Firebacks

SAP Code	Description	Weight (kg)
I12562	Firebrick 230 x 114 x 25mm buff	1.6
I15281	Firebrick 230 x 114 x 50mm buff	2.8
I30753	Firebrick mortar	20
I29735	450mm milner scored clay fireback	42.5

Ignis-Protect

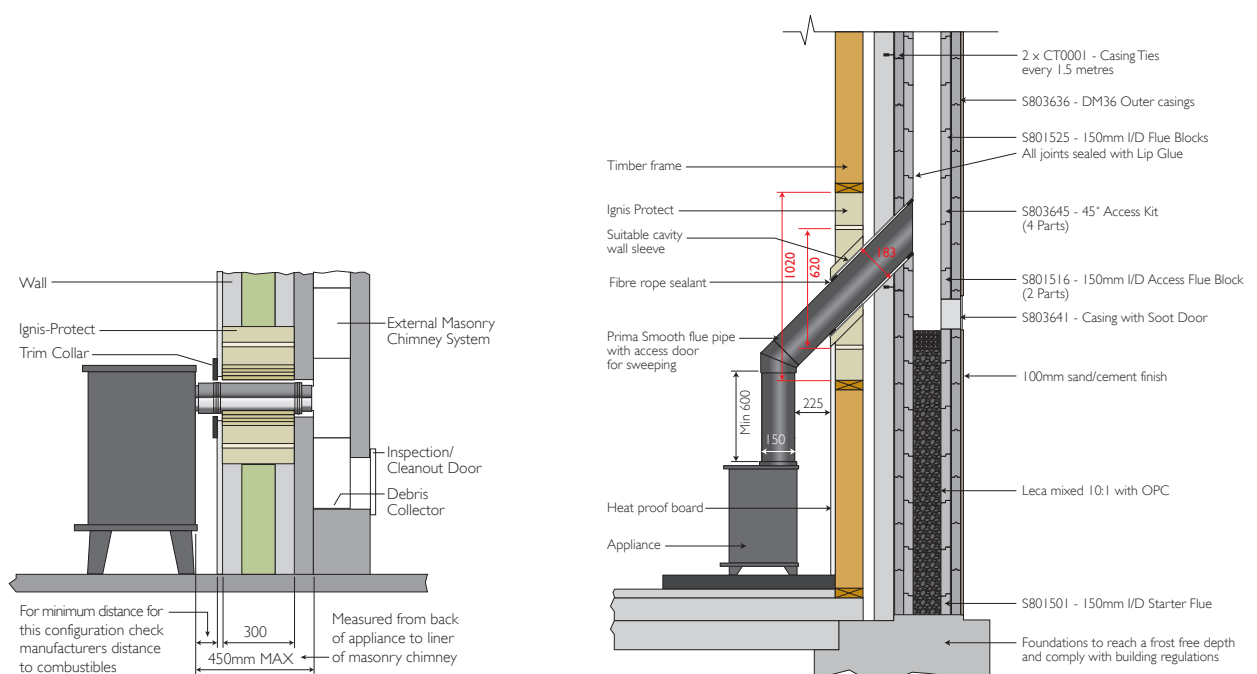
*Designed specifically for
Air Tight, Energy Efficient and
Timber Framed Buildings*



Use of 90° Ignis-Protect System in accordance with
BS EN 15287-1 Acceptable alternative methods of connection methods

Where a horizontal connecting flue of more than 150mm is required to connect a solid fuel fired appliance to a chimney, an installation method as per the examples below may be used provided the following criteria is met:-

- The maximum length of horizontal connecting flue pipe does not exceed 450mm;
- A Defra exempt appliance or an appliance, which is limited to burning authorised smokeless fuel only, is installed;
- A calculation according to BS EN 13384-1 has indicated safe operation of the proposed configuration, and the results of the calculation are left with the householder along with the appliance installation instructions;
- The appliance manufacturer agrees in writing to the proposed configuration;
- The chimney manufacturer agrees in writing to the proposed configuration;
- The total length of single wall connecting flue pipe is not more than 1.5m;
- The appropriate distances to combustible materials from both the appliance and the connecting flue pipe are maintained.



REAR OUTLET TWIN WALL CONNECTING FLUE PIPE
INTO EXTERNAL MASONRY CHIMNEY THROUGH A WALL

ISOKERN DM WITH IGNIS PROTECT
ON TRADITIONAL TIMBER FRAME WALL

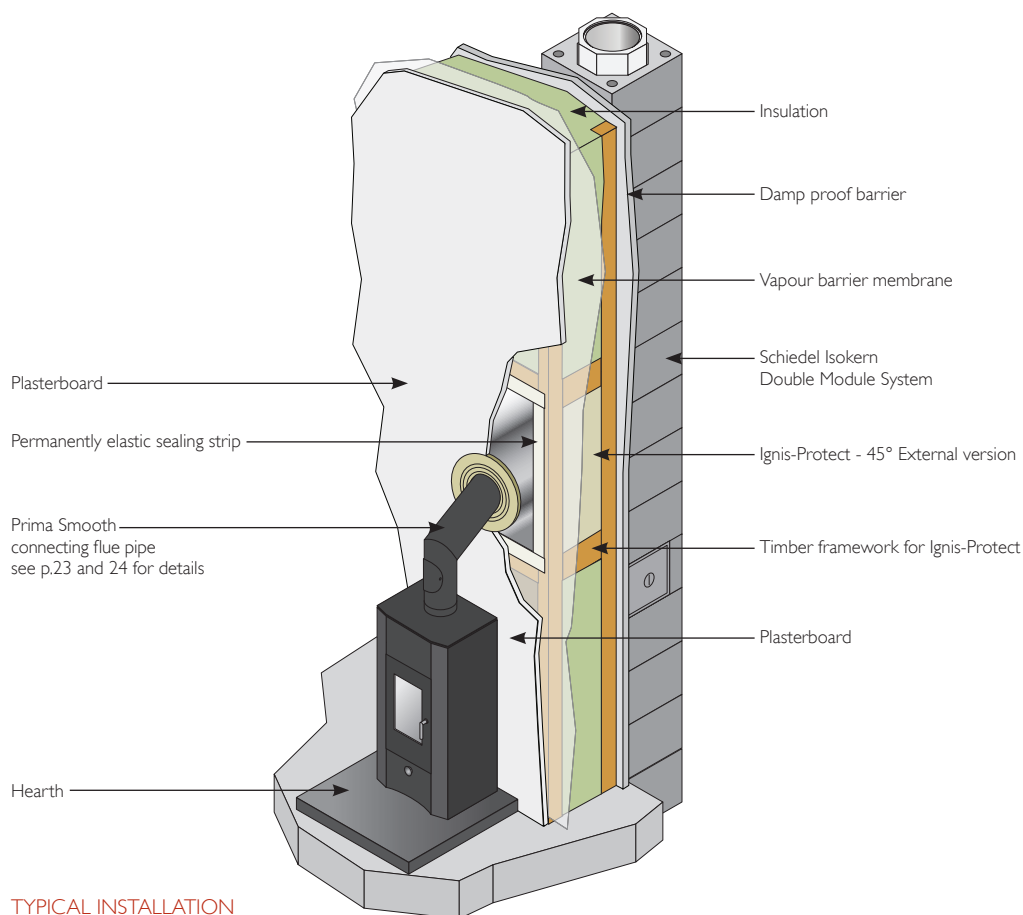
Ignis-Protect

Ignis-Protect 90° Version

SAP Code	Thickness (mm)	Height (mm)	Width (mm)	Pallet Quantity
I01841	150	700	565	12
I01842	200	700	565	9
I01843	250	700	565	6
I01844	300	700	565	4
I01845	350	700	565	4
I01846	400	700	565	2

Ignis-Protect 45° Version

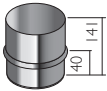
SAP Code	Thickness (mm)	Height (mm)	Width (mm)	Pallet Quantity
I49530	100	1020	565	18
I49531	150	1020	565	12
I49532	200	1020	565	9
I49533	250	1320	565	6
I49534	300	1320	565	4
I49535	350	1320	565	4
I49536	400	1320	565	2
I44032	450	1320	565	2
I44033	466	1320	565	2
I44034	500	1320	565	2



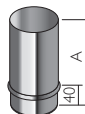
TYPICAL INSTALLATION
OF 45° VERSION

Connecting Flue Pipe - Prima Smooth

Starting Components

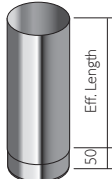


Appliance Connector		0.6mm PS013				1mm PS113	
Int Ømm Prima Smooth		125	125	150	150	180	200
Appliance Spigot mm		123	128	148	153	178	198
SAP Codes							
Painted	0.6mm	125359	125363	126253	126257	119939	119937
	1mm	125360	125364	126254	126258	119931	119929
Unpainted	0.6mm	125361	125365	126255	126259	119940	119938
	1mm	125362	125366	126256	126260	119932	119930

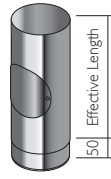


Swaged Starter Pipes		0.6mm PS013				1mm PS113	
Int Ømm Prima Smooth		125	150	180	200		
Appliance Spigot mm		123	148	178	198		
SAP Codes							
Painted A 1000	1mm	133984	133987	133993	133996		
	1mm	133956	133959	133965	133968		
Unpainted A 1000	1mm	133985	133988	133994	133997		
	1mm	133957	133960	133966	133969		
Painted A 500	1mm	133986	133989	133995	133998		
	1mm	133958	133961	133967	133970		

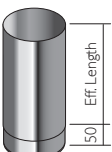
Pipes



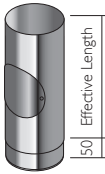
Standard Pipe Effective Length 950mm		0.6mm PS001 1mm PS101			
Int Ømm		125	150	180	200
SAP Codes					
Painted	0.6mm	122583	114554	119860	119858
	1mm	122584	119954	119957	119955
Unpainted	0.6mm	113272	114550	119861	119859
	1mm	115948	116338	119958	119956



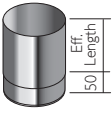
Inspection Pipe Effective Length 950mm		0.6mm PS011 1mm PS111			
Int Ømm		125	150	180	200
SAP Codes					
Painted	0.6mm	114177	114707	119864	119862
	1mm	115979	116477	119961	119959
Unpainted	0.6mm	114179	114709	119865	119863
	1mm	113482	114708	119962	119960



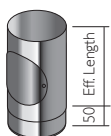
Standard Pipe Effective Length 450mm		0.6mm PS002 1mm PS102			
Int Ømm		125	150	180	200
SAP Codes					
Painted	0.6mm	122585	111973	119868	119866
	1mm	125375	120601	119965	119963
Unpainted	0.6mm	111487	111972	119869	119867
	1mm	112994	113393	119966	119964



Inspection Pipe Effective Length 450mm		0.6mm PS012 1mm PS112			
Int Ømm		125	150	180	200
SAP Codes					
Painted	0.6mm	112081	112155	119872	119870
	1mm	114182	114252	119969	119967
Unpainted	0.6mm	112083	112150	119873	119871
	1mm	111608	112115	119970	119968



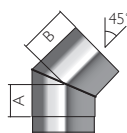
Standard Pipe Effective Length 200mm		0.6mm PS003 1mm PS103			
Int Ømm		125	150	180	200
SAP Codes					
Painted	0.6mm	122586	110716	119880	119878
	1mm	125374	120602	119977	119975
Unpainted	0.6mm	110485	110723	119881	119879
	1mm	111302	111543	119978	119976



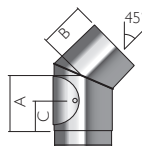
Inspection Pipe Effective Length 250mm		0.6mm PS004 1mm PS104			
Int Ømm		125	150	180	200
SAP Codes					
Painted	0.6mm	122587	111169	119876	119874
	1mm	122588	119985	119973	119971
Unpainted	0.6mm	110885	111165	119877	119875
	1mm	110850	111147	119974	119972

Connecting Flue Pipe - Prima Smooth

Bends

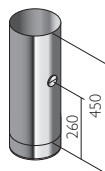


45° Bend		0.6mm PS015 1mm PS115			
Int Ømm		125	150	180	200
A mm		73	73	73	73
B mm		122	122	122	122
SAP Codes					
Painted	0.6mm	121422	110717	119911	119909
	1mm	122589	120013	120007	120005
Unpainted	0.6mm	110468	110720	119912	119910
	1mm	110515	110707	120008	120006

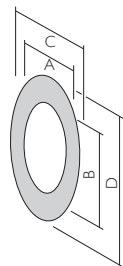


45° Inspection Bend		0.6mm PS044 1mm PS144			
Int Ømm		125	150	180	200
A mm		155	155	155	155
B mm		122	122	122	122
C mm		94	94	94	94
Inspection Hole Ø mm		100	130	130	130
SAP Codes					
Painted	0.6mm	122594	111335	119915	119913
	1mm	121423	120004	120011	120009
Unpainted	0.6mm	110875	111332	119916	119914
	1mm	110948	111324	120012	120010

Additional Components

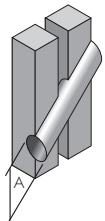


Test Point		0.6mm PS015 1mm PS115			
Int Ømm		125	150	180	200
SAP Codes					
Painted	0.6mm	146361	146365	146369	146373
	1mm	146371	146375	146363	146367
Unpainted	0.6mm	146360	146364	146368	146372
	1mm	146362	146366	146370	146374



1 Piece Trim Collar 45°		0.6mm PS044 1mm PS144			
Int Ømm		150	180	200	
A mm		154	184	204	
B mm		215	259	287	
C mm		300	330	350	
D mm		412	454	483	
SAP Codes					
Painted	0.6mm	COA	126613	127187	
Unpainted	0.6mm	125887	126612	127186	

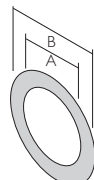
COA: code on application



Wall Sleeve 45° (for masonry wall only) 94620

A Masonry	200	230	250	288	306
SAP Code Masonry	125894	126641	127205	128102	128587

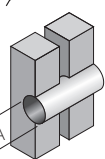
Supplied as a 1m long mitred tube to be cut to length on site.
For timber framed houses, see Ignis Protect on p.22



1 Piece Trim Collar 90° 0.6mm PS044 9580P

Int Ømm	150	180	200
A mm	154	184	204
B mm	300	330	350
SAP Codes			
Painted	0.6mm	126337	127039
Unpainted	0.6mm	COA	127038

COA: code on application

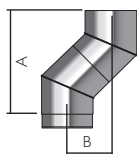


Wall Sleeve 90° (for masonry wall only) 94980

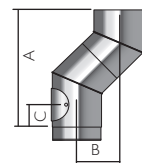
A Masonry	200	230	250	288	306
SAP Code Masonry	147392	126642	127206	COA	COA

For timber framed houses, see Ignis Protect on p.22
COA: code on application

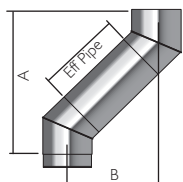
Offsets (made by assembling 2 bends)



45° Offset		0.6mm PS015 1mm PS115			
Int Ømm		125	150	180	200
A mm		333	333	333	333
B mm		138	138	138	138

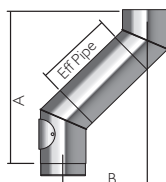


45° Offset (using Inspection Bend)		0.6mm PS044 1mm PS144			
Int Ømm		125	150	180	200
A mm		415	415	415	415
B mm		138	138	138	138
C mm		94	94	94	94



45° Offset with standard Pipe lengths

	Int Ømm	125	150	180	200
Effective Pipe 950	A mm	1005	1005	1005	1005
	B mm	810	810	810	810
Effective Pipe 450	A mm	651	651	651	651
	B mm	456	456	456	456
Effective Pipe 200	A mm	474	474	474	474
	B mm	279	279	279	279



45° Offset with standard Pipe lengths (using Inspection Bend)

	Int Ømm	125	150	180	200
Effective Pipe 950	A mm	1087	1087	1087	1087
	B mm	810	810	810	810
Effective Pipe 450	A mm	733	733	733	733
	B mm	456	456	456	456
Effective Pipe 200	A mm	556	556	556	556
	B mm	279	279	279	279

Useful Charts and Information

FLUE AREA AND LIP GLUE QUANTITY CHART

Int. Diameter of Liners & Flue Blocks (mm)	Ext. Diameter of Liner (mm)	Int. Area of Liner (cm ²)	Approx number of joints per bag of glue
150	200	177	16
175	235	240	14
200	250	314	12
225	285	397	11
250	310	491	10
300	360	707	9
350	416	962	7
400	470	1256	6
450	530	1590	5
500	590	1963	5
600	710	2826	4
DM36 Casing			6
DM44 Casing			5
DM54 Casing			4
DM36 Offset Blocks			5
DM44 Offset Blocks			4
DM54 Offset Blocks			3



LIGHT EXPANDED CLAY AGGREGATE CALCULATION CHART

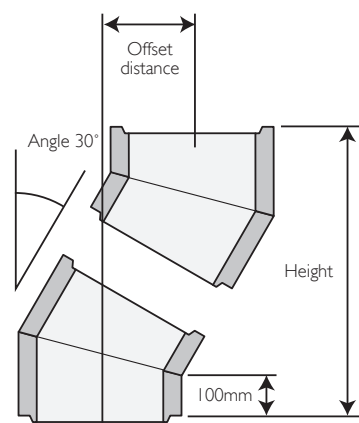
Int. Diameter of Liner (mm)	Ext. Diameter of Liner (mm)	Int. Size of Chimney (mm)	Bags per Linear metre
150	200	235 × 235	0.48
150	200	235 × 350	1.02
150	200	350 × 350	1.82
175	235	350 × 350	1.58
175	235	350 × 460	2.35
175	235	460 × 460	3.36
200	250	350 × 350	1.47
200	250	350 × 460	2.24
200	250	460 × 460	3.25
225	285	350 × 350	1.17
225	285	350 × 460	1.94
225	285	460 × 460	2.96
250	310	350 × 350	0.94
250	310	350 × 460	1.71
250	310	460 × 460	2.72
300	360	460 × 460	2.20
300	360	460 × 575	3.25
300	360	575 × 575	4.58
350	416	460 × 460	1.51
350	416	460 × 575	2.57
350	416	575 × 575	3.89
400	470	575 × 575	3.14



Useful Charts and Information

OFFSET DIMENSION CHART

Int. Diameter of Liner (mm)	Angle of Bend	Overall Combined Height	Offset Distance (mm)
150	15°	427	56
150	30°	456	122
150	45°	467	194
175	15°	435	57
175	30°	471	126
175	45°	489	202
200	15°	440	58
200	30°	481	129
200	45°	503	208
225	15°	449	59
225	30°	499	134
225	45°	528	219
250	15°	456	60
250	30°	511	137
250	45°	545	222
300	15°	469	63
300	30°	536	144
300	45°	581	240
350	15°	483	63
350	30°	564	151
350	45°	620	257



PAIR OF BENDS

CHIMNEY HEIGHTS

On solid fuel and wood burning applications, the minimum recommended flue height is 4.5m from above the fire place opening or top of the appliance. For shorter flue heights a draft calculation would be required in line with the flue sizing requirements of EN13384-1.

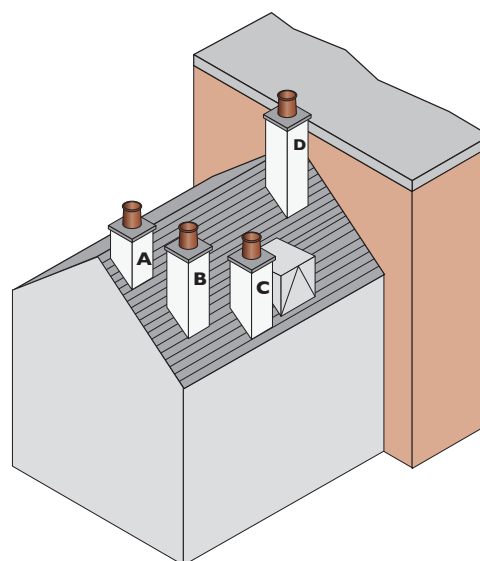
The maximum freestanding stack height above the roof for a traditional coursed masonry chimney is 4.5 times the narrowest horizontal part of the chimney.

CHIMNEY HEIGHTS ABOVE ROOF

	Point where flue passes through weather surface (Notes 1,2)	Clearances to flue outlets
A	at or within 600mm of the ridge	at least 600mm above the ridge
B	elsewhere on a 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 rooflight, 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 the adjacent building

NOTES

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 clearances given for A or B as appropriate will also apply.



For clearances to easily ignitable roof coverings such as thatch refer to diagram 2.2 of Approved Document J 2010 Edition

Useful Charts and Information

VENTILATION REQUIREMENTS

It is very important that sufficient air for combustion and ventilation is provided to the room containing the appliance, to enable correct and efficient working of the appliance and chimney system. Reference should be made to the appliance manufacturer's instructions and recommendations are also given in the Building Regulations Document J, see below:

CARBON MONOXIDE ALARMS

Where a new or replacement fixed solid fuel appliance is installed in a dwelling, a carbon monoxide alarm should be provided in the room where the appliance is located.

The carbon monoxide alarms should comply with BS EN 50291:2001.

The carbon monoxide alarm must be located in the same room as the appliance:

- On the ceiling at least 300mm from any wall or if it is located on a wall, as high up as possible (above any doors and windows), but not within 150mm of the ceiling and
- between 1m and 3m horizontally from the appliance.

N.B Provision of a carbon monoxide alarm should not be regarded as a substitute for correct installation and regular servicing.

VENTILATION REQUIREMENTS FOR SOLID FUEL

Type of Appliance	Type and amount of Ventilation (1)
Open appliance, such as an open fire with no throat, e.g. a fire under a canopy as in Diagram 23.	Permanently open air vent(s) with a total equivalent area of at least 50% of the cross sectional area of the flue.
Open appliance, such as an open fire with a throat, as in Diagrams 22 and 29.	Permanently open air vent(s) with a total equivalent area of at least 50% of the throat opening area. (2)
Other appliance, such as a stove, cooker or boiler; with a flue draught stabiliser.	Permanently open air vents as below: If design air permeability $> 5.0\text{m}^3/(\text{h.m}^2)$ then 300mm ² /kW for first 5kW of appliance rated output 850mm ² /kW for balance of appliance rated output If design air permeability $\leq 5.0\text{m}^3/(\text{h.m}^2)$ then 850mm ² /kW of appliance rated output (4)
Other appliance, such as a stove, cooker or boiler; with no flue draught stabiliser.	Permanently open vents as below: If design air permeability $> 5.0\text{m}^3/(\text{h.m}^2)$ then 550mm ² /kW of appliance rated output above 5kW If design air permeability $\leq 5.0\text{m}^3/(\text{h.m}^2)$ then 550mm ² /kW of appliance rated output (4)

Notes:

- Equivalent area is as measured according to the method in BS EN 13141-1:2004 or estimated according to paragraph 1.14. Divide the area given in mm² by 100 to find the corresponding area in cm².
- For simple open fires as depicted in Diagram 29, the requirement can be met with room ventilation areas as follows:

Nominal fire size (fireplace opening size)	500mm	450mm	400mm	350mm
Total equivalent area of permanently open air vents	20,500mm ²	18,500mm ²	16,500mm ²	14,500mm ²

- Example: an appliance with a flue draught stabiliser and a rated output of 7kW would require an equivalent area of $(5 \times 300) + (2 \times 850) = 3200\text{mm}^2$
- It is unlikely that a dwelling constructed prior to 2008 will have an air permeability of less than $5.0\text{m}^3/(\text{h.m}^2)$ at 50Pa unless extensive measures have been taken to improve air-tightness. See Appendix F.

MAGNUM COMBUSTION AIR REQUIREMENT

Size of Magnum Firechest	Free Air in cm ²	Free Air in mm ²
500	200	20,000
950	248	24,800
1100	338	33,800
1200	385	38,500

MAGNUM FIREBRICK, LIP GLUE & MORTAR QUANTITY

Size of Magnum Firechest	25mm thick Bricks	50mm thick Bricks	Lip Glue	Firebrick Mortar
500	Included	Included	2	Included
950	40	34	5	2
1100	40	44	6	2
1200	40	48	6	2

Please note the base bricks should be laid loose.

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The NEW highly Insulated Twin Wall System Chimney for traditional stoves, pellet stoves, biomass appliances, mini/micro CHP and condensing boilers capable of withstanding positive pressure.

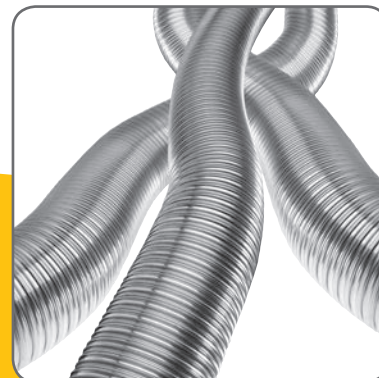
- Easy twist lock connection
- Effective insulation
- 100-200 Internal diameter range



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- 316L Grade stainless steel
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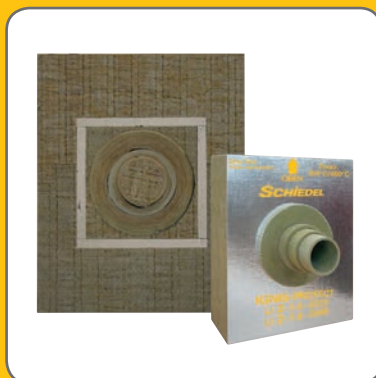
- Twin skin TecnoFlex Plus available in 316L or 904L options for oil, wood, multi-fuel & open fires
- 80-300mm Diameter range



ICS

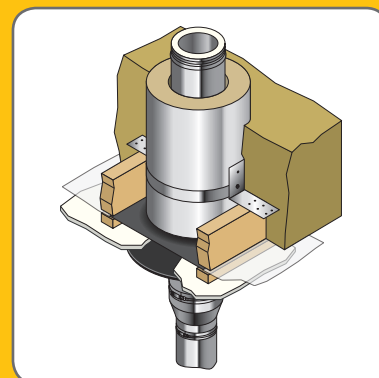
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- Simple push-fit jointing system
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- Capillary break prevents moisture being drawn through the joint
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