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INSTALLER REWARDS!

# Isokern Pumice

System Chimneys & Liners

**SCHIEDEL**



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SAP Issue 8 940002642 March 2019

# 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.



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

## 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 strong, yet lightweight and comes in easy building blocks.

# 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.



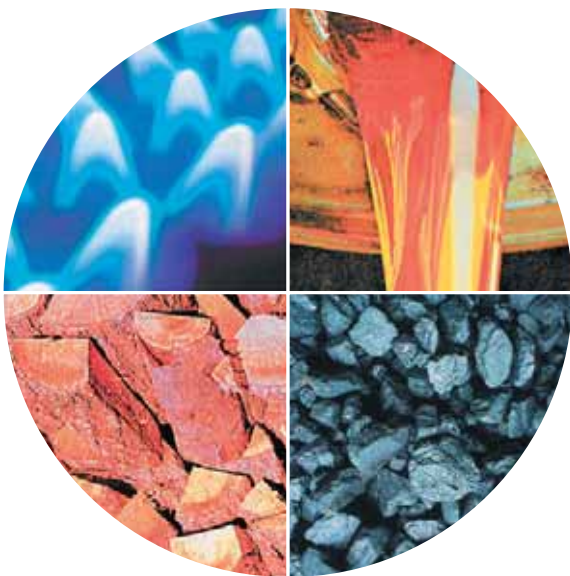
# DM Double Module Chimney System

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 including Biomass & Pellets).

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<br>Chimney*<br>T450 N1 D 3 G(00) | Pumice Chimney Liner<br>T600 N2 D 3 G |



**TÜV C E**

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

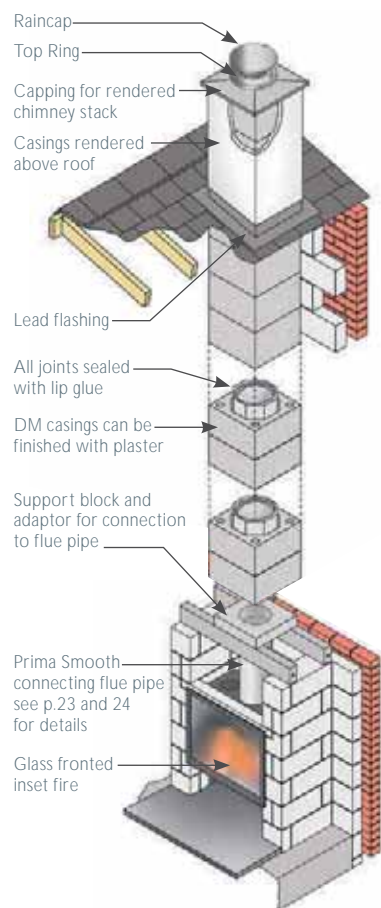


# DM 36 – for smaller output inserts, stoves and cookers

Available in Ø150mm internal diameter only.

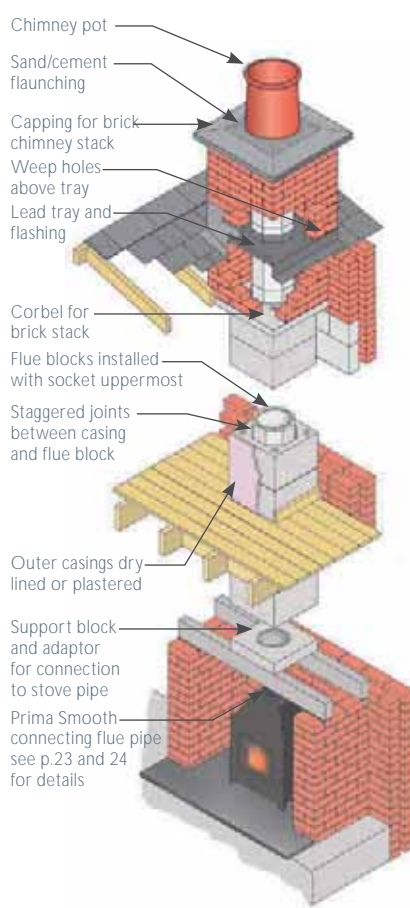


## INSET FIRE

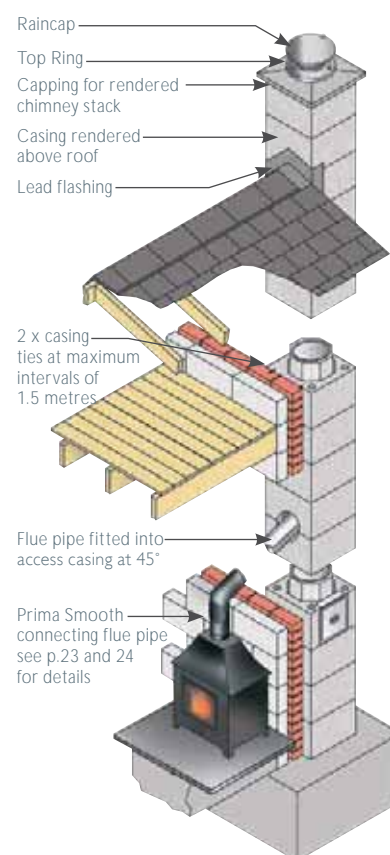


## FREE STANDING STOVE IN A RECESS.

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.COM/UK](http://WWW.SCHIEDEL.COM/UK)

# DM 36 – for smaller output inserts, stoves and cookers



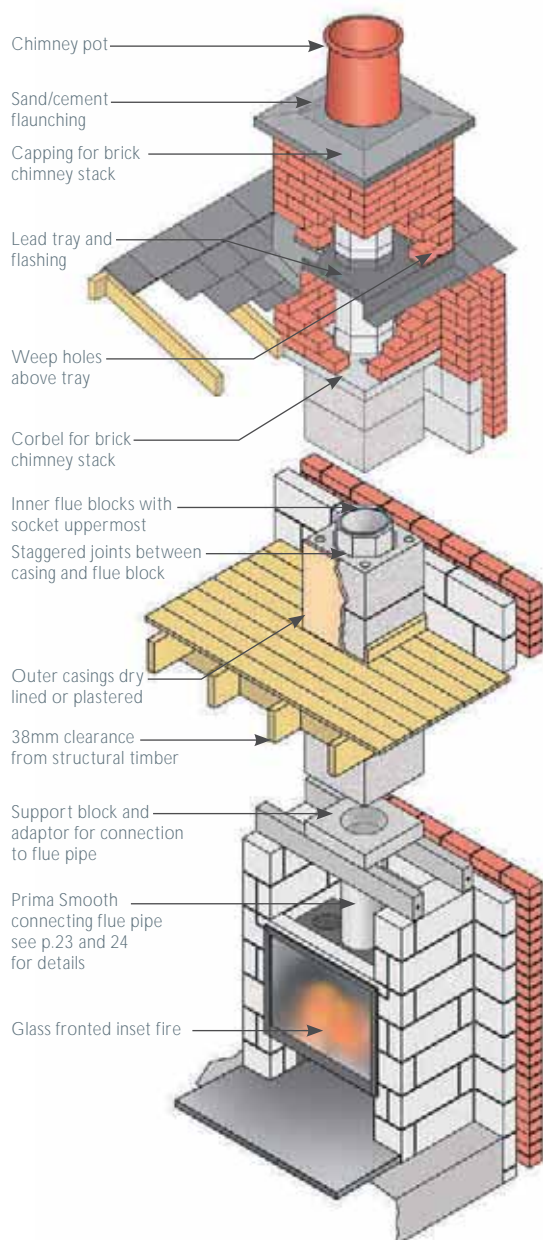
| SAP Code  | Description   | Weight (kg) |
|---|---|-------------|
| All dimensions are external unless otherwise stated |   |             |
| 130714  | 360mm square casing 250mm high  | 15          |
| 130712  | 360mm square access casing 250mm high (150mm i/d access hole)   | 13          |
| 130713  | 360mm square casing & soot door 250mm high  | 18          |
| 130709  | DM36 45° flue entry kit (four parts) 500mm high   | 42          |
| 126363  | 150mm i/d 255 x 255 starter flue block 125mm high   | 4           |
| 126369  | 150mm i/d 255x255 flue block 250mm high   | 8           |
| 126368  | 150mm i/d 255x255 access flue block 500mm high (177mm i/d access hole)  | 16          |
| 130715  | 570mm square corbel for brickwork 75mm high   | 32          |
| 130710  | 490mm square capping - render   | 13          |
| 130711  | 690mm square capping - brickwork  | 31          |
| 126378  | 150mm i/d 360 x 435 offset block (86mm, 30° offset) 150mm high (allow 38mm distance to combustibles on offset chimneys) | 25          |
| 130716  | 150mm i/d 360 square support block 100mm high   | 15          |
| 126373  | 150mm i/d (205mm o/d) stainless steel adaptor   |             |
| 126357  | 125-150mm i/d (205mm o/d) stainless steel deceiver adaptor  |             |
| 130732  | Raincap (with fixing rods for top ring)   |             |
| 135070  | Top Ring (for ventilation)  |             |

# DM 44 – for inserts, stoves and small open fires

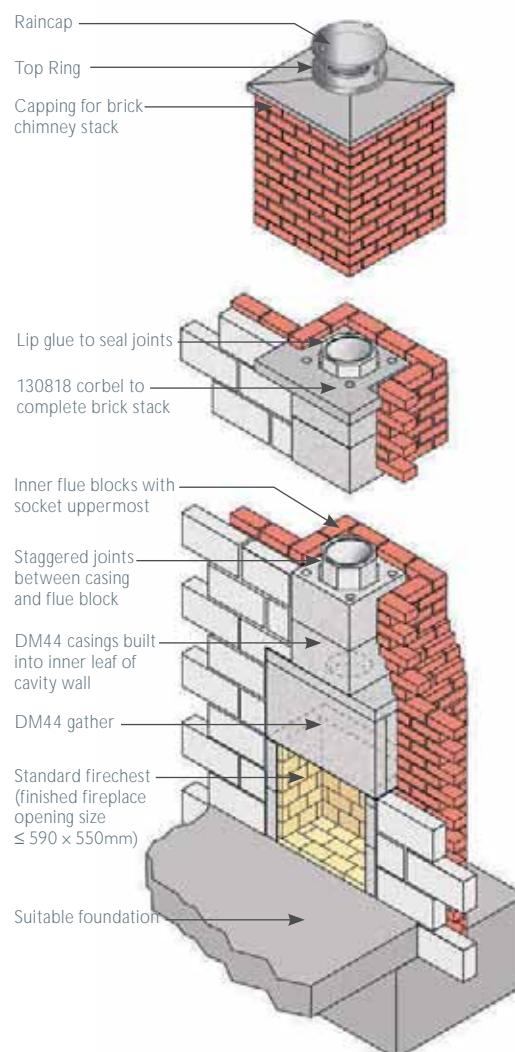
Available in internal diameters Ø180mm and Ø200mm.  
Both inner liners fit into the same external block size.



## INSET FIRE



























## OPEN FIRE USING STANDARD FIRECHEST





# DM 44 – for inserts, stoves and small open fires

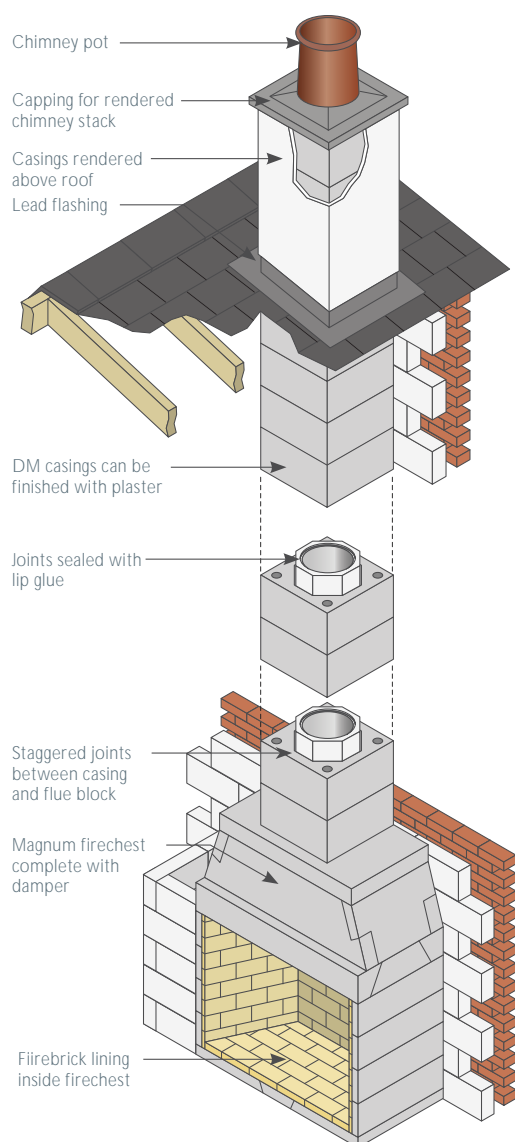
|   | SAP Code  | Description   | Weight (kg) |
|---|---|---|-------------|
|   | All dimensions are external unless otherwise stated |   |             |
|    | 130727  | 440mm square casing 300mm high  | 30          |
|    | 130725  | 440mm square access casing 300mm high (220mm i/d access hole)   | 29          |
|    | 130726  | 440mm square casing & soot door 300mm high  | 36          |
|    | 130719  | 440mm 180mm i/d 45° flue pipe entry kit (4 parts) 600mm high  | 86          |
|    | 130722  | 440mm 200mm i/d 45° flue pipe entry kit (4 parts) 600mm high  | 84          |
|   | 130720  | 180mm i/d 310 x 310 starter flue block 150mm high   | 8           |
|  | 127684  | 200mm i/d 310 x 310 starter flue block 150mm high   | 7           |
|  | 127068  | 180mm i/d 310 x 310 flue block 300mm high   | 15          |
|  | 127683  | 200mm i/d 310 x 310 flue block 300mm high   | 14          |
|  | 130717  | 180mm i/d flue 310 x 310 access block 600mm high  | 28          |
|  | 127682  | 200mm i/d flue 310 x 310 access block 600mm high  | 26          |
|  | 130728  | 650mm square corbel for brickwork 75mm high   | 40          |
|  | 130235  | 650 x 560mm offset corbel for brickwork 75mm high   | 34          |
|  | 130818  | 740mm T corbel for external brickwork 75mm high   | 47          |
|  | 130723  | 570mm square capping for render   | 18          |
|  | 130724  | 820mm square capping for brickwork  | 44          |
|  | 131810  | 180mm i/d 440 x 500 offset block (56mm, 30° offset) 100mm high  | 22          |
|  | 130718  | 180mm i/d 440 x 500 offset block (86mm, 30° offset) 150mm high  | 32          |
|  | 127686  | 200mm i/d 440 x 500 offset block (56mm, 30° offset) 100mm high  | 20          |
|  | 127687  | 200mm i/d 440 x 500 offset block (86mm, 30° offset) 150mm high (Allow 38mm distance to combustibles on offset chimneys) | 30          |
|  | 130721  | 180mm i/d 440mm square support block 100mm high   | 22          |
|  | 130730  | 200mm i/d 440mm square support block 100mm high   | 20          |
|  | 127691  | 200mm i/d (255mm o/d) stainless steel adaptor   |             |
|  | 127671  | 150-200mm i/d (255mm o/d) stainless steel deceiver adaptor  |             |
|  | 127672  | 175-200mm i/d (255mm o/d) stainless steel deceiver adaptor  |             |
|  | 130732  | Raincap (with fixing rods for top ring)   |             |
|  | 130675  | 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



| SAP Code  | Description   | Weight (kg) |
|---|---|-------------|
| All dimensions are external unless otherwise stated |   |             |
| 130708  | 545mm square casing 300mm high  | 40          |
| 129031  | 300mm i/d 420 x 420 starter flue block 150mm high   | 11          |
| 129093  | 345mm i/d 420 x 420 starter flue block 150mm high   | 11          |
| 129033  | 300mm i/d 420 x 420 flue block 300mm high   | 22          |
| 129094  | 345mm i/d 420 x 420 flue block 300mm high   | 22          |
| 130735  | 800mm square corbel for brickwork 75mm high   | 57          |
| 130733  | 670mm square capping for render   | 20          |
| 130734  | 950mm square capping for brickwork  | 46          |
| 129038  | 300mm i/d 545 x 635 offset block (86mm, 30° offset) 150mm high  | 44          |
| 129092  | 345mm i/d 545 x 635 offset block (86mm, 30° offset) 150mm high (allow 38mm distance to combustibles on offset chimneys) | 40          |
| 129043  | 00mm i/d 545mm square support block 100mm high  | 30          |
| 129043  | 300mm i/d (365mm o/d) stainless steel adaptor   |             |
| 130732  | Raincap (with fixing rods for top ring)   |             |
| 135093  | Top Ring (for ventilation)  |             |

## DM Accessories



| SAP Code  | Description   | Weight (kg) |
|---|---|-------------|
| All dimensions are external unless otherwise stated |   |             |
| 146432  | 1500 x 215 x 70mm support lintel Max load (per pair) 1650kg | 51          |
| 130689  | Stainless steel casing wall tie                             |             |
| 130771  | Lip glue (5kg)  | 5           |
| 102629  | 1m reinforcement rod 12mm diameter                          | 1           |

# Typical DM Installation Detail

## FOUNDATIONS

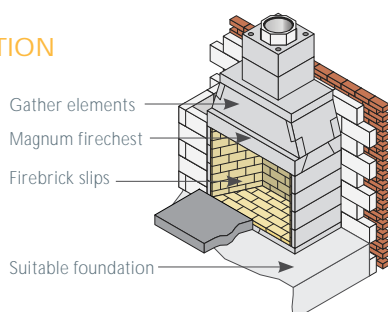
Construction begins by providing a suitable foundation and constructional hearth in accordance with Building Regulations and site requirements.

## 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.

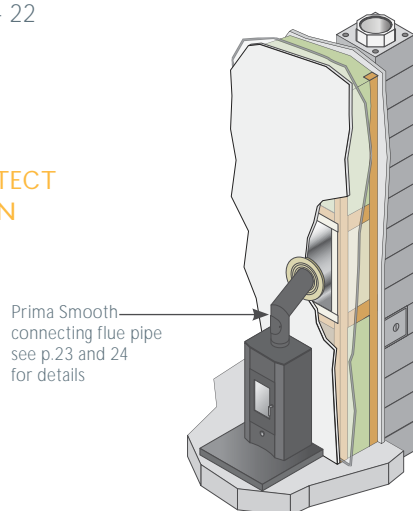
## OPEN FIRE OPTION



## TIMBER FRAME SOLUTION

For timber framed solution refer to pages 21 - 22

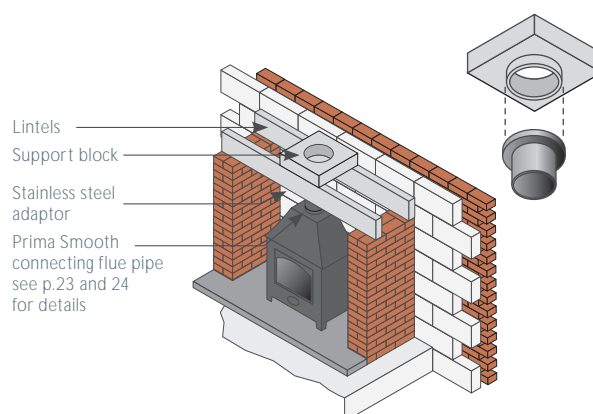
## IGNIS-PROTECT 45° VERSION



## STOVE IN RECESS OPTION

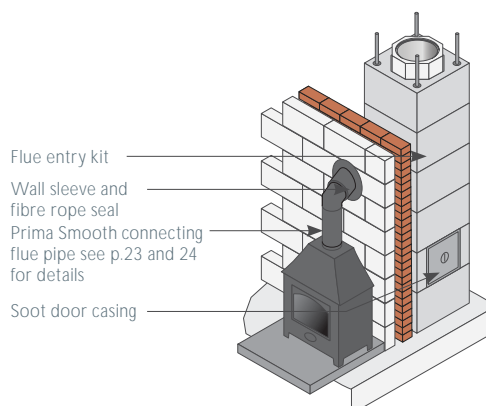
Pre-stressed lintels or a suitable cast-in-situ concrete slab must be provided above the stove recess, please make sure they are strong enough to carry the load (see appropriate Isokern DM drawing for aperture size). It is recommended to have a minimum of 600mm of stove flue pipe before connecting to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



## 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.

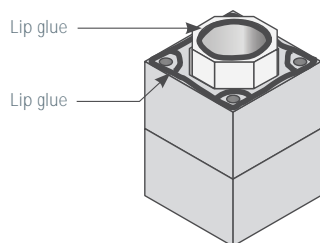


# Typical DM Installation Detail

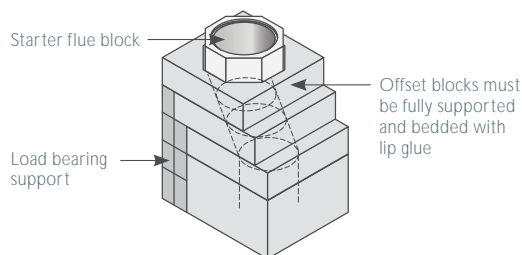
## CHIMNEY CONSTRUCTION

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.

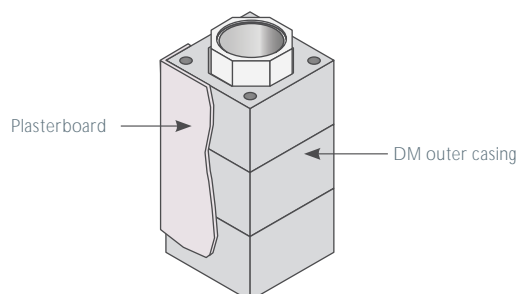
## HOW TO USE LIP GLUE



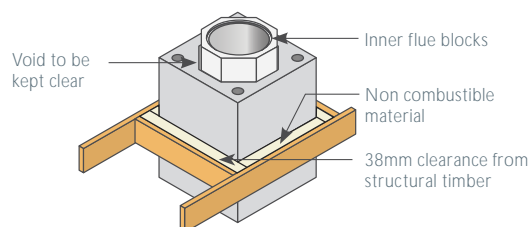
Offset blocks if required must be glued together with lip glue and be fully supported. Please note a chimney should be built straight wherever possible. A starter flue block will be required above the offset blocks to stagger the joints between the outer casing and inner flue blocks.



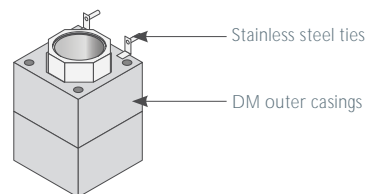
Casings and flue blocks are added using lip glue for all joints. Ensure the air gap between the inner flue and outer casing remains clear. The outer surface of the casings to be finished with plasterboard on dabs or plaster. The side that faces the wall does not need an external finish.



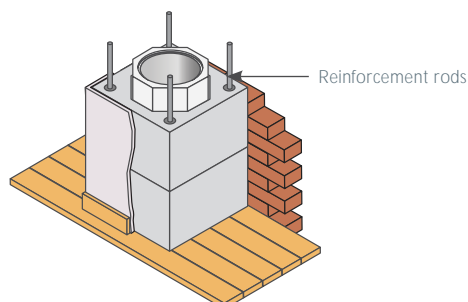
On a rendered stack with a top ring fitted (see p.12 for example), where a straight chimney passes through a floor or roof, zero mm distance to combustibles can be applied. A sliding joint is made using mineral wool or similar non-combustible material. In all other cases, 38mm clearance must be maintained 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

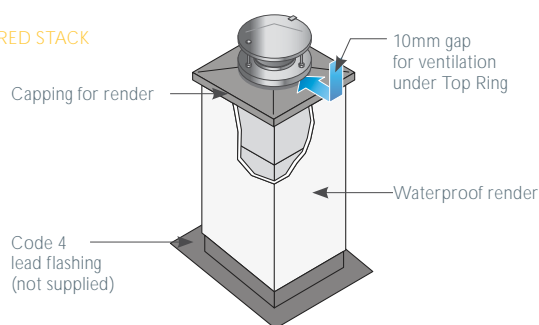
## RENDERED STACK OPTION

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.

### RENDERED STACK



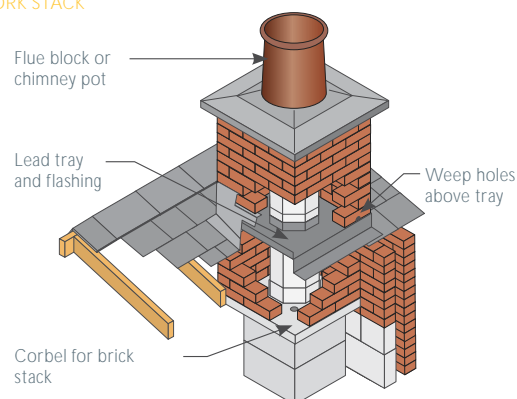
## BRICK STACK OPTION

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.

## BRICKWORK STACK



## 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

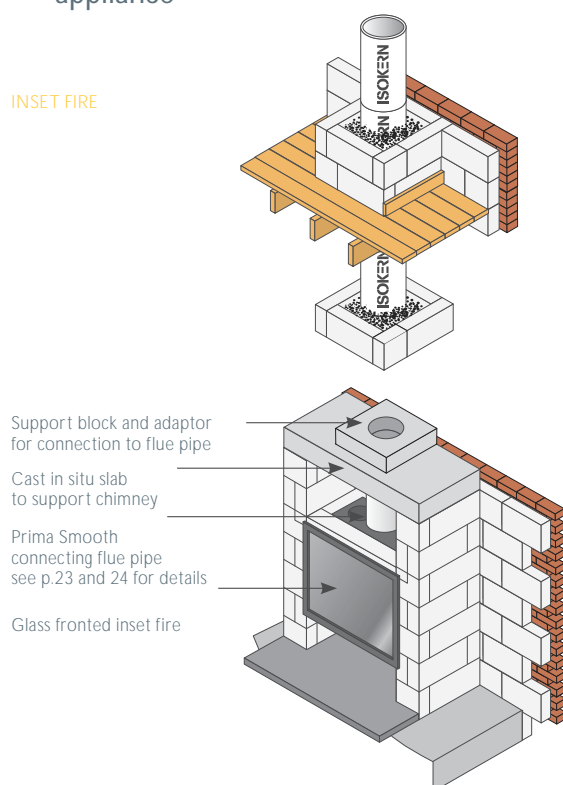
The pumice liner system comes in a range of 15 diameters from 150mm to 1000mm with T Liners, Liner Support Blocks, and Adaptors for ease of connection to the appliance.

## The insulated flue liner for traditional build

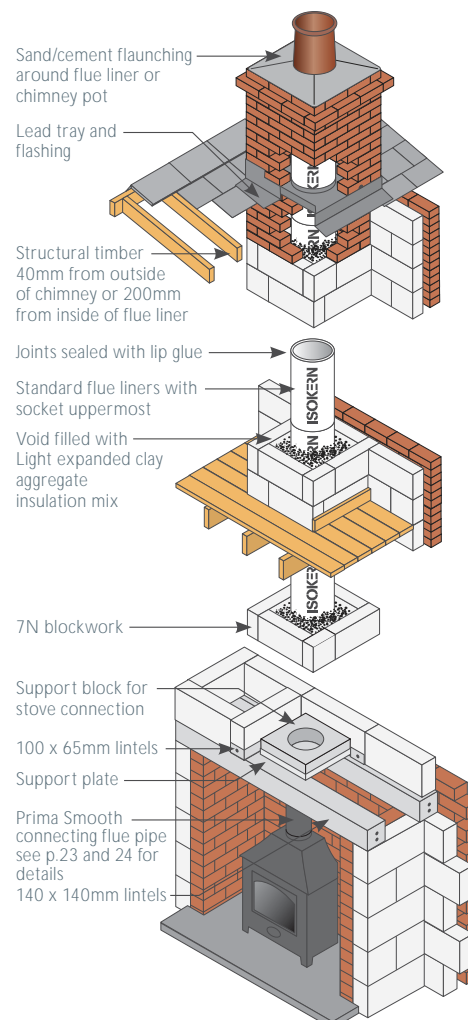
Suitable for use with inserts, stoves, open fires and cookers burning wood, solid fuel, oil or gas (not condensing appliances including Biomass & Pellets).

- 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

### INSET FIRE



### FREE STANDING STOVE



DOWNLOADABLE DRAWINGS AVAILABLE FROM OUR WEB SITE

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# Liners and Accessories

| SAP Code   | Description  | Weight (kg) |
|--|--|-------------|
| All dimensions are external unless otherwise stated                              |  |             |
| <b>Round Liners</b>  |  |             |
| 126372   | 150mm i/d 600mm high rebated liner (200mm o/d)                         | 8           |
| 126498   | 175mm i/d 600mm high rebated liner (235mm o/d)                         | 11          |
| 127685   | 200mm i/d 600mm high rebated liner (250mm o/d)                         | 12          |
| 127715   | 225mm i/d 600mm high rebated liner (285mm o/d)                         | 14          |
| 128546   | 250mm i/d 600mm high rebated liner (310mm o/d)                         | 16          |
| 129036   | 300mm i/d 600mm high rebated liner (360mm o/d)                         | 19          |
| 129360   | 350mm i/d 600mm high rebated liner (416mm o/d)                         | 27          |
| 129567   | 400mm i/d 1000mm high rebated liner (470mm o/d)                        | 50          |
| 129738   | 450mm i/d 1000mm high rebated liner (530mm o/d)                        | 60          |
| 129927   | 500mm i/d 1000mm high rebated liner (590mm o/d)                        | 70          |
| 130142   | 600mm i/d 1000mm high rebated liner (706mm o/d)                        | 100         |
| <b>Collars</b>   |  |             |
| 126361   | 150mm steel collar   |             |
| 126494   | 175mm steel collar   |             |
| 127673   | 200mm steel collar   |             |
| 127705   | 225mm steel collar   |             |
| 128533   | 250mm steel collar   |             |
| 129021   | 300mm steel collar   |             |
| 129356   | 350mm steel collar   |             |
| <b>Support Lintel</b>  |  |             |
| 146431   | 1500 x 140 x 140mm support lintels Max load (per pair) 3250kg          | 71          |
| COA  | 600 x 100 x 65mm support lintels                                       |             |
| <b>Support Plates (for supporting liners and support blocks)</b>                 |  |             |
| 127694   | 210mm i/d 340mm square 4mm thick (fits 150mm support blocks)           | 3           |
| 128549   | 255mm i/d 360mm square 4mm thick (fits 175mm and 200mm support blocks) | 3           |
| <b>Liner Support Blocks (for connection to single wall connecting flue pipe)</b> |  |             |
| 126366   | 150mm i/d 310mm square 75mm high                                       | 7           |
| 126483   | 175mm i/d 350mm square 75mm high                                       | 8           |
| 127340   | 200mm i/d 350mm square 75mm high                                       | 8           |
| 130731   | 225mm i/d 440mm square 100mm high                                      | 20          |
| 128548   | 250mm i/d 440mm square 100mm high                                      | 20          |
| 129043   | 300mm i/d 545mm square 100mm high                                      | 30          |
| <b>T Liners</b>  |  |             |
| 126376   | 150mm i/d 45° rebated T liner 600mm high                               | 15          |
| 126500   | 175mm i/d 45° rebated T liner 600mm high                               | 20          |
| 127695   | 200mm i/d 45° rebated T liner 600mm high                               | 22          |
| 126375   | 150mm i/d 90° rebated T liner 600mm high                               | 15          |
| <b>Light expanded clay aggregate</b>   |  |             |
| 130769   | 50 litre (0.05m³)  | approx. 19  |
| <b>Lip Glue</b>  |  |             |
| 130771   | Lip glue (5kg)   | 5           |



# Liners and Accessories



| SAP Code  | Description                | Weight (kg) |
|---|----------------------------|-------------|
| All dimensions are external unless otherwise stated   |                            |             |
| <b>Liner Bends</b>  |                            |             |
| 126364  | 150mm i/d 15° rebated bend | 4           |
| 126365  | 150mm i/d 30° rebated bend | 5           |
| 126367  | 150mm i/d 45° rebated bend | 6           |
| 126364  | 150mm i/d 15° rebated bend | 4           |
| 126365  | 150mm i/d 30° rebated bend | 5           |
| 126367  | 150mm i/d 45° rebated bend |             |
| 127679  | 200mm i/d 15° rebated bend | 5           |
| 127680  | 200mm i/d 30° rebated bend | 6           |
| 127681  | 200mm i/d 45° rebated bend | 8           |
| 127706  | 225mm i/d 15° rebated bend | 7           |
| 127707  | 225mm i/d 30° rebated bend | 8           |
| 127708  | 225mm i/d 45° rebated bend | 9           |
| 128542  | 250mm i/d 15° rebated bend | 8           |
| 128531  | 250mm i/d 30° rebated bend | 9           |
| 128532  | 250mm i/d 45° rebated bend | 10          |
| 129015  | 300mm i/d 15° rebated bend | 10          |
| 129016  | 300mm i/d 30° rebated bend | 11          |
| 131819  | 300mm i/d 45° rebated bend | 12          |
| 129354  | 350mm i/d 15° rebated bend | 13          |
| 129355  | 350mm i/d 30° rebated bend | 14          |
| 131820  | 350mm i/d 45° rebated bend | 16          |
| Larger diameter bends available on request.   |                            |             |
| <b>Stainless Steel Adaptors with Sealing Rope (for connection to support block)</b>           |                            |             |
| 126373  | 150mm i/d (205mm o/d)      |             |
| 126499  | 175mm i/d (235mm o/d)      |             |
| 127691  | 200mm i/d (255mm o/d)      |             |
| 127719  | 225mm i/d (290mm o/d)      |             |
| 128547  | 250mm i/d (315mm o/d)      |             |
| 129039  | 300mm i/d (365mm o/d)      |             |
| <b>Stainless Steel Increaser Adaptors with Sealing Rope (for connection to support block)</b> |                            |             |
| 126357  | 125-150mm i/d (205mm o/d)  |             |
| 126493  | 150-175mm i/d (235mm o/d)  |             |
| 127671  | 150-200mm i/d (255mm o/d)  |             |
| 127672  | 175-200mm i/d (255mm o/d)  |             |
| 127704  | 200-225mm i/d (290mm o/d)  |             |
| <b>Stainless Steel Adaptors with Sealing Rope (for connection to T liners)</b>                |                            |             |
| 125453  | 125-150mm i/d (210mm o/d)  |             |
| 126358  | 150mm i/d (210mm o/d)      |             |
| 146412  | 150-175mm i/d (240mm o/d)  |             |
| 146413  | 175mm i/d (240mm o/d)      |             |



# Liners and Accessories



| SAP Code  | Description   | Weight (kg) |
|---|---|-------------|
| All dimensions are external unless otherwise stated |   |             |
| <b>Access Blocks</b>                                |   |             |
| 126362  | 150mm i/d 215mm square 205mm high rebated access block                  | 5           |
| 127678  | 200mm i/d (also for 175mm) 280mm square 280mm high rebated access block | 12          |
| <b>Soot Door</b>                                    |   |             |
| 142837  | Double soot door 265 x 395mm  | 2           |
| <b>Insulated Plug</b>                               |   |             |
| 142599  | Insulated plug (glue to access blocks)                                  | 4           |
| <b>Chimney Pots</b>                                 |   |             |
| <b>Terracotta</b>                                   |   |             |
| 126371  | 150mm i/d roll top terracotta 450mm high                                | 14          |
| 127341  | 200mm i/d roll top terracotta 450mm high                                | 16          |
| 127713  | 225mm i/d roll top terracotta 300mm high                                | 12          |
| 127714  | 225mm i/d roll top terracotta 450mm high                                | 18          |
| 128543  | 250mm i/d roll top terracotta 450mm high                                | 19          |
| 129035  | 300mm i/d roll top terracotta 450mm high                                | 26          |
| 129359  | 350mm i/d roll top terracotta 450mm high                                | 32          |
| <b>Buff</b>   |   |             |
| 126370  | 150mm i/d roll top buff 450mm high                                      | 14          |
| 130697  | 200mm i/d roll top buff 450mm high                                      | 16          |
| 127702  | 225mm i/d roll top buff 300mm high                                      | 12          |
| 127711  | 225mm i/d roll top buff 450mm high                                      | 18          |
| 128544  | 250mm i/d roll top buff 450mm high                                      | 19          |
| 129034  | 300mm i/d roll top buff 450mm high                                      | 26          |
| 129358  | 350mm i/d roll top buff 450mm high                                      | 32          |
| <b>Topguards</b>                                    |   |             |
| <b>Terracotta</b>                                   |   |             |
| 130737  | Topguard terracotta 150-250mm i/d                                       | 2           |
| 130738  | Topguard terracotta 300mm i/d   | 2           |
| 130739  | Topguard terracotta 350mm i/d   | 2           |
| <b>Buff</b>   |   |             |
| 130742  | Topguard buff 150-250mm i/d   | 2           |
| 130740  | Topguard buff 300mm i/d   | 2           |
| 130741  | Topguard buff 350mm i/d   | 2           |
| <b>Notice Plate</b>                                 |   |             |
| 130696  | Chimney notice plate  |             |
| <b>Smoke Pellets</b>                                |   |             |
| 130817  | Smoke pellets (6 per tube)  |             |



# Typical Liner Installation Detail

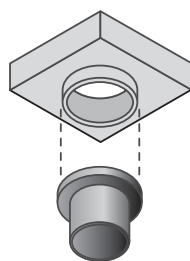
Construction begins by providing a suitable foundation and constructional hearth in accordance with Building Regulations and site requirements.

## STOVE IN RECESS OPTION

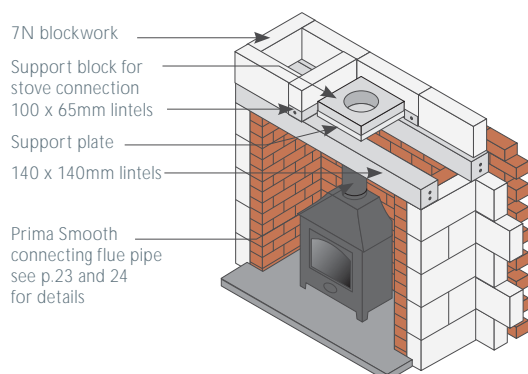
Our pre stressed lintels must be installed above the fireplace recess, for this method a support plate is required under the support block.

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.



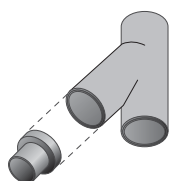
## STOVE IN RECESS OPTION



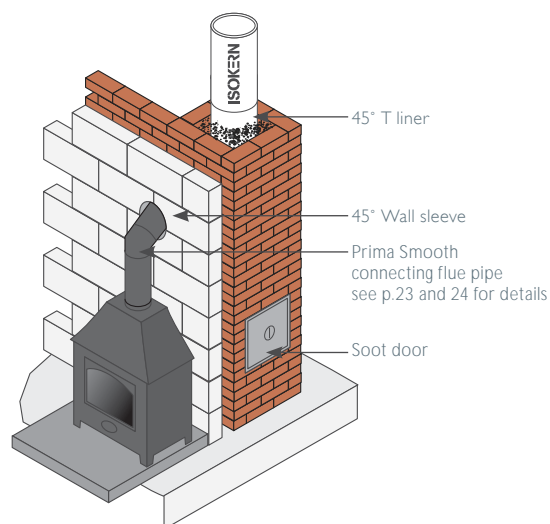
## FREE STANDING STOVE OPTION

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

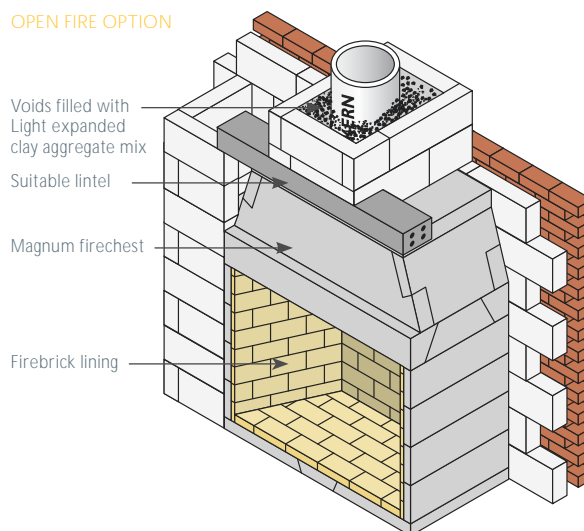


## OPEN FIRE OPTION

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.

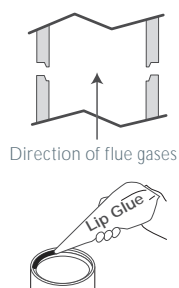
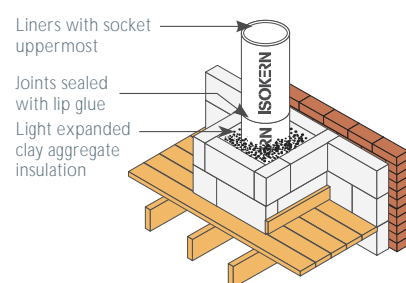
## OPEN FIRE OPTION



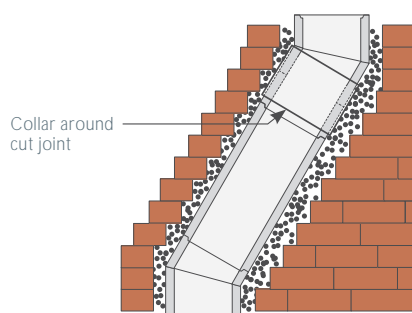
# Typical Liner Installation Detail

## 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.



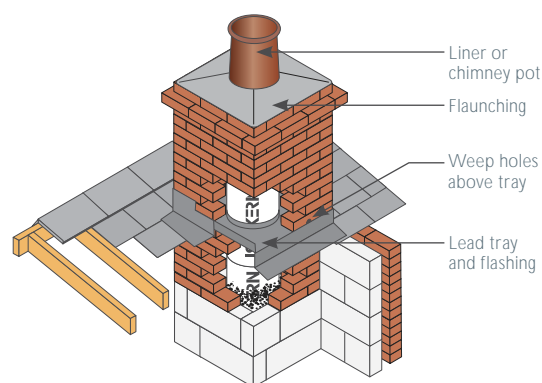
If bends are required in the chimney make sure adequate support is provided and always backfill with light expanded clay aggregate insulation mix. Liners can be cut between bends to achieve a required offset distance. A steel collar as well as lip glue must be used for any cut joints. A maximum of 2 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 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 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

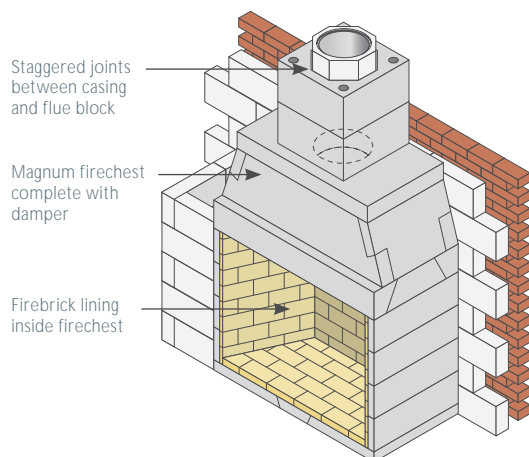
The Magnum Firechest range has been designed to maximise the burning efficiency of wood in an open fire. The specially shaped fire chamber facilitates the efficient burning of wood logs to give efficiencies from 41% to 45%, depending on the model chosen. The firechests are tested to EN13229.

### DAMPER

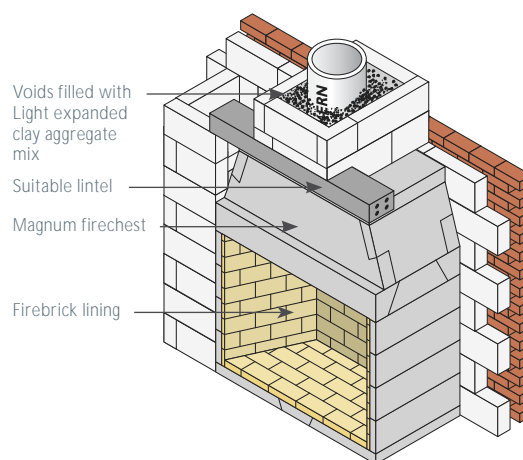
A flue damper is available in the Magnum range of firechests. In wood burning installations the flue damper can be used to control the draft in the flue and avoid excessive heat loss when the fireplace is not being used. This is reflected in the SAP calculation for Document L. The inclusion of the damper 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



# Firechests



| SAP Code  | Model | Opening Width (mm) | Opening Height (mm) | Ext. Width (mm) | Ext. Height (mm) | Ext. Depth (mm) | Weight (kg) |
|---|-------|--------------------|---------------------|-----------------|------------------|-----------------|-------------|
| <b>Magnum Firechests</b>  |       |                    |                     |                 |                  |                 |             |
| 130773  | 500   | 510                | 540                 | 685             | 1540             | 440             | 390         |
| 129371  | 950   | 990                | 960                 | 1090            | 1761             | 710             | 715         |
| 129568  | 1100  | 1130               | 960                 | 1230            | 1761             | 710             | 790         |
| 129767  | 1200  | 1246               | 960                 | 1346            | 1761             | 710             | 845         |
| Magnum 500 Inside Flue diameter 200mm<br>Magnum 950 - 1200 Inside Flue diameter 350mm |       |                    |                     |                 |                  |                 |             |
| <b>Standard Firechests</b>  |       |                    |                     |                 |                  |                 |             |
| 130820  |       | 690                | 660                 | 850             | 660              | 450             | 100         |



| SAP Code                | Model            | Inside Flue Dia. (mm) | Internal Width (mm) | Ext. Width (mm) | Ext. Height (mm) | Ext. Depth (mm) | Weight (kg) |
|-------------------------|------------------|-----------------------|---------------------|-----------------|------------------|-----------------|-------------|
| <b>Manor Gathers</b>    |                  |                       |                     |                 |                  |                 |             |
| 133463                  | 900 Centre Hole  | 350                   | 933                 | 1086            | 525              | 640             | 140         |
| 135267                  | 900 Offset Hole  | 350                   | 933                 | 1086            | 525              | 640             | 140         |
| 135280                  | 1150 Centre Hole | 350                   | 1191                | 1350            | 930              | 640             | 268         |
| 135279                  | 1150 Offset Hole | 350                   | 1191                | 1350            | 930              | 640             | 268         |
| <b>Pumice Gathers</b>   |                  |                       |                     |                 |                  |                 |             |
| 130822                  | Liner            | 225                   | 690                 | 850             | 600              | 450             | 100         |
| 130729                  | DM44             | 200                   | 690                 | 850             | 600              | 450             | 100         |
| <b>Concrete Gathers</b> |                  |                       |                     |                 |                  |                 |             |
| 130699                  | C16              | 200/225               | 600                 | 800             | 225              | 450             | 110         |
| 131200                  | C17              | 250                   | 800                 | 1000            | 300              | 550             | 130         |
| 131201                  | C18              | 300                   | 800                 | 1000            | 300              | 550             | 138         |



| SAP Code                        | Description                       | Weight (kg) |
|---------------------------------|-----------------------------------|-------------|
| <b>Firebricks and Firebacks</b> |                                   |             |
| 112562                          | Firebrick 230 x 114 x 25mm buff   | 1.6         |
| 115281                          | Firebrick 230 x 114 x 50mm buff   | 2.8         |
| 130753                          | Firebrick mortar                  | 20          |
| 129735                          | 450mm milner scored clay fireback | 42.5        |

# Ignis-Protect

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

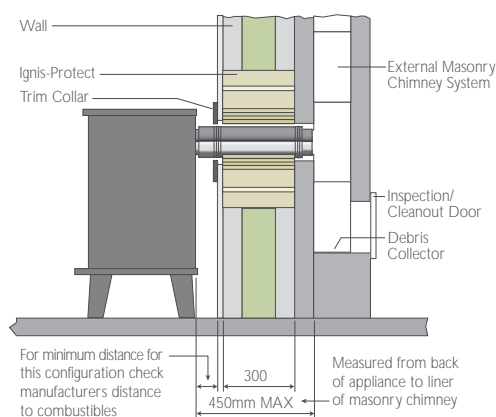
Use of 90° Ignis-Protect System in accordance with BS EN 15287-1 Acceptable alternative methods of connection methods

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:

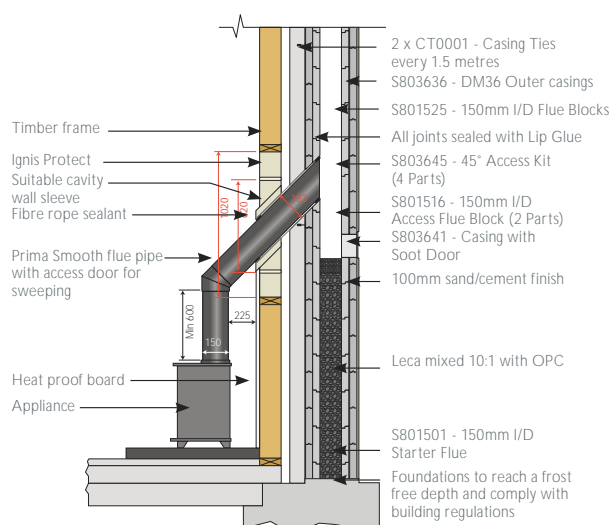
- The maximum length of horizontal connecting flue pipe does not exceed 450mm
- A Defra exempt appliance or an appliance, which is limited to burning authorised smokeless fuel only, is installed
- A calculation according to BS EN13384-1 has indicated safe operation of the proposed configuration, and 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

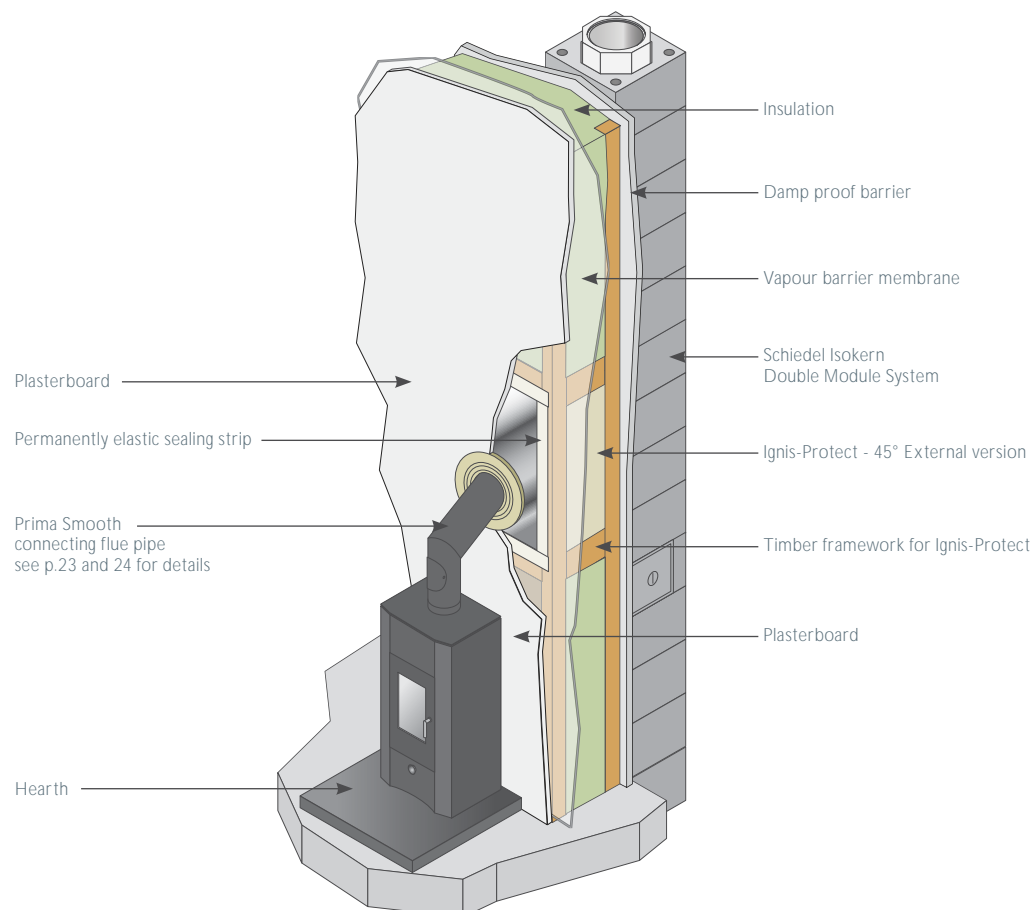




# Ignis-Protect

| SAP Code                         | Thikness (mm) | Height (mm) | Width (mm) | Pallet Quantity |
|----------------------------------|---------------|-------------|------------|-----------------|
| <b>Ignis-Protect 90° Version</b> |               |             |            |                 |
| 101841                           | 150           | 700         | 565        | 12              |
| 101842                           | 200           | 700         | 565        | 9               |
| 101843                           | 250           | 700         | 565        | 6               |
| 101844                           | 300           | 700         | 565        | 4               |
| 101845                           | 350           | 700         | 565        | 4               |
| 101846                           | 400           | 700         | 565        | 2               |
| <b>Ignis-Protect 45° Version</b> |               |             |            |                 |
| 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               |
| 144032                           | 450           | 1320        | 565        | 2               |
| 144033                           | 466           | 1320        | 565        | 2               |
| 144034                           | 500           | 1320        | 565        | 2               |

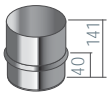
## TYPICAL INSTALLATION OF 45° VERSION



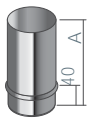
# Connecting Flue Pipe – Prima Smooth

Prima Smooth is a high quality 316L grade stainless steel single wall flue system available with two wall thickness options of 0.6mm and 1mm. Prima Smooth has been tested and approved for use as connecting flue pipe between an appliance and a Pumice System Chimney.

## Starting Components



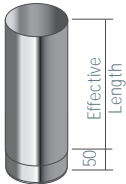
| Appliance Connector  |       |        |        |        |        | 0.6mm PS013 | 1mm PS113 |
|----------------------|-------|--------|--------|--------|--------|-------------|-----------|
| SAP Code Painted     | 0.6mm | 125359 | 125363 | 126253 | 126257 | 119939      | 119937    |
|                      | 1mm   | 125360 | 125364 | 126254 | 126258 | 119931      | 119929    |
| SAP Code Unpainted   | 0.6mm | 125361 | 125365 | 126255 | 126259 | 119940      | 119938    |
|                      | 1mm   | 125366 | 125366 | 126256 | 126260 | 119932      | 119930    |
| Int Ømm Prima Smooth |       | 125    | 125    | 150    | 150    | 180         | 200       |
| Appliance Spigot mm  |       | 126    | 128    | 148    | 153    | 178         | 198       |



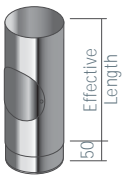
| Swaged Starter Pipes |     |  |        |        |        |        |  |
|----------------------|-----|--|--------|--------|--------|--------|--|
| SAP Codes            |     |  |        |        |        |        |  |
| Painted A 1000       | 1mm |  | 133984 | 133987 | 133993 | 133996 |  |
| Unpainted A 1000     | 1mm |  | 133956 | 133959 | 133965 | 133968 |  |
| Painted A 500        | 1mm |  | 133985 | 133988 | 133994 | 133997 |  |
| Unpainted A 500      | 1mm |  | 133957 | 133960 | 133966 | 133969 |  |
| Painted A 250        | 1mm |  | 133986 | 133989 | 133995 | 133998 |  |
| Unpainted A 250      | 1mm |  | 133958 | 133961 | 133967 | 133970 |  |
| Int Ømm Prima Smooth |     |  | 125    | 150    | 180    | 200    |  |
| Appliance Spigot mm  |     |  | 123    | 148    | 178    | 198    |  |

# Connecting Flue Pipe – Prima Smooth

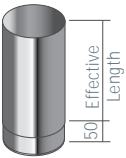
## Pipes



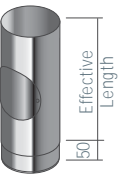
| Standard Pipe Effective Length 950mm |       |        |        |        | 0.6mm PS001<br>1mm PS101 |
|--------------------------------------|-------|--------|--------|--------|--------------------------|
| SAP Code Painted                     | 0.6mm | 122583 | 114554 | 119860 | 119858            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



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



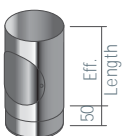
| Standard Pipe Effective Length 450mm |       |        |        |        | 0.6mm PS002<br>1mm PS102 |
|--------------------------------------|-------|--------|--------|--------|--------------------------|
| SAP Code Painted                     | 0.6mm | 122585 | 111973 | 119868 | 119866            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



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



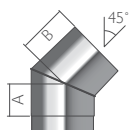
| Standard Pipe Effective Length 200mm |       |        |        |        | 0.6mm PS003<br>1mm PS103 |
|--------------------------------------|-------|--------|--------|--------|--------------------------|
| SAP Code Painted                     | 0.6mm | 122586 | 110716 | 119880 | 119878            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



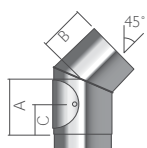
| Inspection Pipe Effective Length 250mm |       |        |        |        | 0.6mm PS004<br>1mm PS104 |
|--|-------|--------|--------|--------|--------------------------|
| SAP Code Painted                       | 0.6mm | 122587 | 111169 | 119876 | 119874                   |
|  | 1mm   | 122588 | 119985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

# Connecting Flue Pipe – Prima Smooth

## Bends



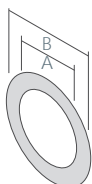
| 45° Bend           |       |        |        |        | 0.6mm PS015<br>1mm PS115 |
|--------------------|-------|--------|--------|--------|--------------------------|
| SAP Code Painted   | 0.6mm | 121422 | 110717 | 119911 | 119909                   |
|                    | 1mm   | 122589 | 120013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



| 45° Inspection Bend  |       |        |        |        | 0.6mm PS044<br>1mm PS144 |
|----------------------|-------|--------|--------|--------|--------------------------|
| SAP Code Painted     | 0.6mm | 122594 | 111335 | 119915 | 119913                   |
|                      | 1mm   | 121423 | 120004 | 120011 | 120009                   |
| SAP Code Unpainted   | 0.6mm | 110875 | 111332 | 119916 | 119914                   |
|                      | 1mm   | 110948 | 111324 | 120012 | 120010                   |
| 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                      |

# Connecting Flue Pipe – Prima Smooth

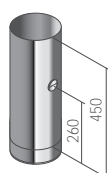
## Additional Components



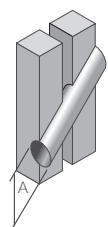
| 1 Piece Trim Collar 90° |       |        |        | 0.6mm 9580P |
|-------------------------|-------|--------|--------|-------------|
| SAP Code Painted        | 0.6mm | 126337 | 127039 | 127643      |
| SAP Code Unpainted      | 0.6mm | 164279 | 127038 | 127642      |
| Int Ømm                 |       | 150    | 180    | 200         |
| A mm                    |       | 154    | 184    | 204         |
| B mm                    |       | 300    | 330    | 350         |



| 1 Piece Trim Collar 45° |       |        |        | 0.6mm 9589P |
|-------------------------|-------|--------|--------|-------------|
| SAP Code Painted        | 0.6mm | 147394 | 126613 | 127187      |
| SAP Code Unpainted      | 0.6mm | 125887 | 126612 | 127186      |
| 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         |

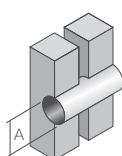


| Test Point         |       |        |        | 0.6mm PS003<br>1mm PS103 |
|--------------------|-------|--------|--------|--------------------------|
| SAP Code Painted   | 0.6mm | 146361 | 146365 | 146369                   |
|                    | 1mm   | 146371 | 146375 | 146363                   |
| SAP Code Unpainted | 0.6mm | 146360 | 146364 | 146368                   |
|                    | 1mm   | 146362 | 146366 | 146370                   |
| Int Ømm            |       | 125    | 150    | 180                      |



| Wall Sleeve 45° (for masonry wall only) |        |        |        | 94620  |
|---|--------|--------|--------|--------|
| SAP Codes Masonry                       | 125894 | 126641 | 127205 | 128102 |
| A Masonry                               | 200    | 230    | 250    | 288    |

Supplied as a 1m long mitred tube to be cut to length on site. For timber framed houses, see Ignis Protect on p.23



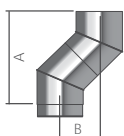
| Wall Sleeve 90° (for masonry wall) |        |        |  | 94980  |
|------------------------------------|--------|--------|--|--------|
| SAP Codes Masonry                  | 147392 | 126642 |  | 127206 |
| A Masonry                          | 200    | 230    |  | 250    |

For timber framed houses, see Ignis Protect on p.23

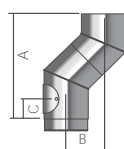


# Connecting Flue Pipe – Prima Smooth

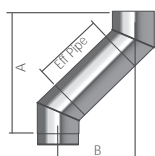
Offsets (made by assembling 2 bends)



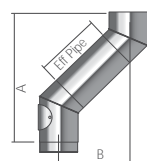
| 45° Offset |     |     |     |     |
|------------|-----|-----|-----|-----|
| Int Ømm    | 125 | 150 | 180 | 200 |
| A mm       | 333 | 333 | 333 | 333 |
| B mm       | 138 | 138 | 138 | 138 |



| 45° Offset (using Inspection Bend) |     |     |     |     |
|------------------------------------|-----|-----|-----|-----|
| 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  |

# Garden Fireplace

The Schiedel Isokern Garden Fireplace is the ideal solution for outdoor living. The Garden Fireplace chimney is available in 3 sizes and is all delivered in a complete packaged solutions.

The natural pumice gives this outdoor fireplace all the insulation needed to have a safe and spectacular focal point of any garden. The relatively small footprint also means that this can be placed against any wall in even in gardens or yards where space is at a premium.

The kit includes the chimney blocks, the lip glue for assembly, firebrick and also firebrick mortar and a render to either seal the joints or give an entire rendered finish.

Please visit our [website](#) for more information on this product.



# 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 <sup>2</sup> ) | 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                         |                             |                                       | 3                                       |
| DM54 Offset Blocks                         |                             |                                       |   |

LIGHT EXPANDED CLAY AGGREGATE CALCULATION CHART



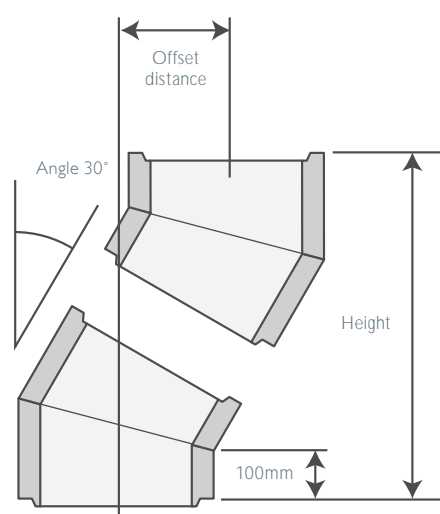
| Int. Diameter of Liners & Flue Blocks (mm) | Ext. Diameter of Liner (mm) | Int. Size of Chimney (mm) | Bags per Linear metre |
|--|-----------------------------|---------------------------|-----------------------|
| 150  | 200                         | 235 x 235                 | 0.48             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

# Useful Charts and Information

## OFFSET DIMENSION CHART

| Int. Diameter of Liners (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

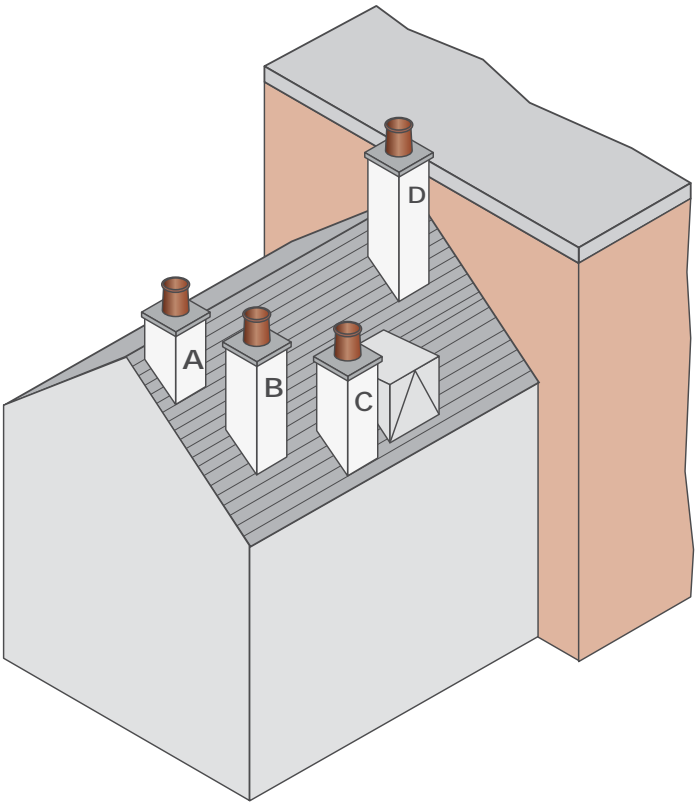


# Useful Charts and Information

## 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<br>(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:<br>A) at least 1000mm above the highest point of intersection of the chimney and the weather surface; or<br>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   |

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

### 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.

# 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:<br>If design air permeability $> 5.0\text{m}^3/(\text{h.m}^2)$ then<br>300mm <sup>2</sup> /kW for first 5kW of appliance rated output<br>850mm <sup>2</sup> /kW for balance of appliance rated output<br>If design air permeability $\leq 5.0\text{m}^3/(\text{h.m}^2)$ then<br>850mm <sup>2</sup> /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:<br>If design air permeability $> 5.0\text{m}^3/(\text{h.m}^2)$ then<br>550mm <sup>2</sup> /kW of appliance rated output above 5kW<br>If design air permeability $\leq 5.0\text{m}^3/(\text{h.m}^2)$ then<br>550mm <sup>2</sup> /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 mm<sup>2</sup> by 100 to find the corresponding area in cm<sup>2</sup>.
- 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 <sup>2</sup> | 18,500mm <sup>2</sup> | 16,500mm <sup>2</sup> | 14,500mm <sup>2</sup> |

- 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 <sup>2</sup> | Free Air in mm <sup>2</sup> |
|--------------------------|-----------------------------|-----------------------------|
| 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                |



# Useful Guides

## THE SCHIEDEL INSTALLATION APP

This handy mobile guide can be used on mobile devices and touchscreen tablets.

It offers a number of very useful guides on all aspects of installing an appliance using Schiedel Chimney Systems, including:

- Quick and straightforward reference for installers.
- Video breakdowns of each stage of the installation process, from connection to the appliance through to termination.
- Highlighting the safety critical areas where the chimney penetrates the floors, ceilings, roof and walls.
- Incorporates frequently asked questions information at each stage of the installation process, in line with building regulations.
- An easy-to-use system for downloading full product information and installation instructions.
- Register your Guarantee in the App.

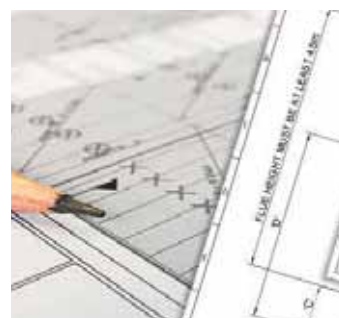
Download the iPhone and iPad version in the App Store and Android version in the Google Play Store.



## DOWNLOADS SPECIALIST CENTRE

We have a comprehensive range of CAD cells, typical installations using Isokern Pumice components and other diagrams, which are ideal resources for architects and builders when designing a chimney system for a new build or renovation

Visit our website and head over to the **SPECIALIST CENTRE** which can be found under the **SCHIEDEL WORLD** menu, or contact us and we will send a USB stick with all the relevant information and downloads on.



# 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.

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 Flex and ICID, and also to start earning points!



# Complementary Products and Services from Schiedel Chimney Systems



## ICID PLUS

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

- 100-200 Internal diameter range



## PRIMA SMOOTH

Single Wall Stainless Steel Connecting Flue Pipe for use on wood and multi-fuel applications.

- 316L Grade stainless steel
- Available in matt black or steel finish
- 125-200mm internal diameters



## TECNOFLEX PLUS

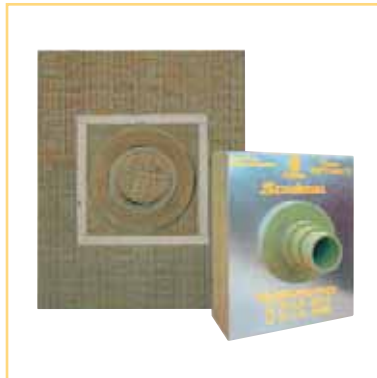
For relining existing chimneys to take gas, oil, wood, multi-fuel appliances and open fires.

- Twin skin TecnoFlex Plus available in 316L or 904L options
- 80-300mm Diameter range



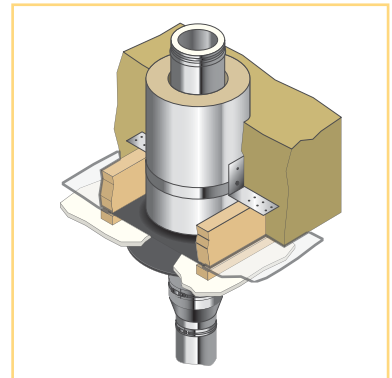
## GARDEN FIREPLACE

Easy to build – all materials are included. Fully load bearing. Can be built freestanding, raised or built against a wall. Chimney height can be increased by purchasing extra blocks.



## IGNIS-PROTECT

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



## PROTECT BOX

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

**SCHIEDEL**

Schiedel Chimney Systems Ltd.  
Unit 8 & 9, Block A, Holton Road  
Holton Heath Industrial Estate  
Poole, Dorset BH16 6LG  
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## SCHIEDEL INSTALLER REWARDS

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INDUSTRIES COMPANY