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**SCHIEDEL**

## ICS

80-300mm Diameter Range  
Twin Wall Insulated System Chimney for  
Gas, Oil, Wood and Multi-fuel Applications



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# Application

ICS is a twin wall insulated chimney system for use on open and closed stoves, open fires, residential and small commercial multi-fuel appliances, with continuous operating temperatures up to 450°C.

**ICS Plus** ICS is converted into ICS Plus by adding a lip seal to each component with a male form on the liner (see ICS Plus diagram below). This creates a twin wall insulated chimney system designed for the new generation of condensing gas and oil appliances, with continuous operating temperatures up

to 200°C and positive pressure up to 200Pa at the appliance outlet.

**Other ICS Ranges** For larger commercial and industrial applications of ICS in diameters 350mm to 700mm please refer to our separate sales brochure. For higher pressure applications up to 5000Pa e.g. generators, combustion and process equipment, please see the commercial brochure.

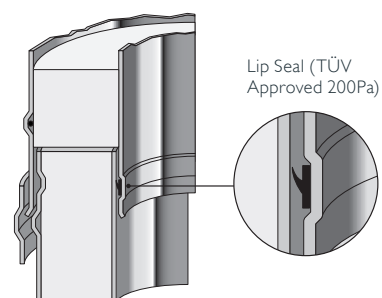
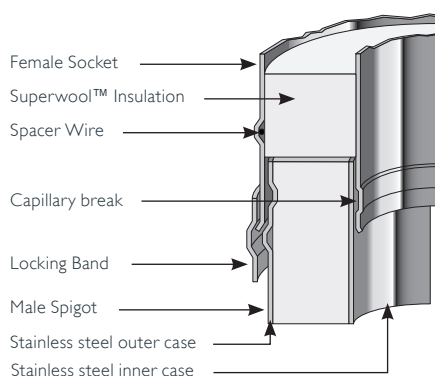
# Product Description

## ICS PRODUCT FEATURES

- Simple push-fit jointing system, secured by locking band.
- Advanced corrosion resistant design and construction uses laser welded 316L stainless steel inner liners and stainless steel case. The only stainless steel system to have passed the internationally recognised GASTEC corrosion test.
- The jointing system increases rigidity and ensures easy drain-down of any condensate in the flue.
- Capillary break prevents moisture being drawn through the joint.
- Because of the sleeve joint, the insulation in the pipe is able to be continuous over the length of the system ensuring no hot spots.
- The 25mm high efficiency Superwool™ blanket maintains flue gas temperature, maximising efficiency, improving flue draught on start up and minimises condensation.
- Low external case temperature.
- The assembly method allows the inner liner to expand and contract with temperature at the female end. The flue can withstand the temperatures of a soot fire without losing the integrity of the joints.
- Generous lead-in edges on liner and case for ease of jointing.

## ICS PLUS PRODUCT FEATURES

- ICS Plus for condensing appliances is created by adding a lip seal gasket that can maintain positive pressure up to 200Pa. All the design and construction benefits of ICS apply.



# Technical Data

|                                    | ICS                                  | ICS Plus          |
|------------------------------------|--------------------------------------|-------------------|
| Fuel                               | Gas, Oil, Wood, Coal                 | Gas, Oil          |
| Firing Temp                        | 450°C                                | 200°C             |
| Thermal Shock                      | 1000°C                               | -                 |
| Mode of Operation                  | Zero & Negative Pressure             | Positive Pressure |
| Pressure Capabilities              | 40Pa                                 | 200Pa             |
| Fire Rating                        | 4 Hour Fire Rating to BS 476 Part 20 |                   |
| Outer Case (Standard)              | Stainless Steel                      |                   |
| Outer Case (Option)                | Painted                              |                   |
| Outer Case Thickness               | 0.6mm                                |                   |
| Seam                               | Laser or inert gas welded            |                   |
| Liner                              | 316L : 1.4404 : X2CrNiMo 17-12-2     |                   |
| Liner Thickness (mm)               | 0.5mm                                |                   |
| Seam                               | Laser or inert gas welded            |                   |
| Insulation                         | High Performance Mineral Fibre       |                   |
| Insulation Thickness               | 25mm                                 |                   |
| Average Thermal Resistance (200°C) | 0.4m <sup>2</sup> kW                 |                   |

# Approvals

ICS is CE Certified to EN1856-1 TÜV 0036 CPR 9195 001 with designations:  
 ICS is CE Certified to EN1856-2 TÜV 0036 CPR 9195 041 with designations:



| System Chimney EN1856-1  |   |  |
|--|---|--|
| <b>T450 N1 W V2 L50050 G60</b><br><b>T450 N1 D V3 L50050 G60</b><br>60mm Distance to combustibles<br>in a combustible shaft* | <b>T450 N1 W V2 L50050 G50</b><br><b>T450 N1 D V3 L50050 G50</b><br>50mm Distance to combustibles<br>in a non combustible shaft or in free air* | <b>T200 P1 W V2 L50050 O00</b><br>Zero distance to combustibles* |
| Connecting Flue Pipe EN1856-2  |   |  |
| <b>T450 N1 D V2 L50050 G100 M</b>  |   |  |

\* For full information refer to p.29

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

# Corrosion Resistance

Chimneys are subject to significant corrosion attack by flue gas condensates, particularly from solid fuel and condensing appliances. ICS is specifically designed and manufactured to resist

this corrosion. It is the only stainless steel chimney system in the world to have passed the internationally recognised Gastec corrosion test.

## Flue Size Selection Guide

The chimney size should be as recommended by the appliance manufacturer. Where there is a requirement for a flue diameter smaller than the appliance spigot, then the operational requirements of the appliance and the configuration of the flue must satisfy the flue sizing requirements of 13384-1 (single appliances) and 13384-2 (multi appliances). For more information contact the helpline (0191 4161150). The information and sizes below are provided as a nominal guide only. Flue sizing for

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

|   | 80 mm | 100 mm | 130 mm         | 150 mm | 180-300 mm |
|---|-------|--------|----------------|--------|------------|
| <b>Gas - Atmospheric Boiler</b><br>Input up to 25kW<br>Input 25kW to 40kW<br>Input 40kW to 60kW                   |       | ●      | ●              | ●      |            |
| <b>Gas - Commercial/ Industrial Boiler</b><br>Input up to 50kW to 70kW  |       |        |                |        | ●2         |
| <b>Gas Fires</b><br>'Radiant' to BS7977-1 2002<br>'Inset' to BS7977-1 2002<br>'Backboiler' to BS7977-2 2003       |       |        | ●1<br>●1<br>●1 |        | ●1         |
| <b>Gas Water Heaters</b><br>Input up to 25kW<br>Input 25kW to 55kW<br>Input 55kW to 60kW<br>Input over 60kW       | ●     | ●      | ●              | ●      | ●2         |
| <b>Gas Warm Air Units</b><br>Input up to 18kW<br>Input 18kW to 35kW<br>Input 35kW to 60kW<br>Input over 60kW      |       | ●      | ●              | ●      | ●2         |
| <b>Gas Stove Cooker</b>   |       | ●2     | ●2             | ●2     |            |
| <b>Kerosene (28 sec Class C2) Heating Boiler</b><br>Output up to 25kW<br>Input 25kW to 45kW<br>Input 45kW to 70kW |       | ●      | ●              | ●      |            |
| <b>Kerosene Stove/Cooker</b>  |       | ●3     | ●3             | ●3     |            |
| <b>Kerosene Water Heater</b><br>Input up to 41kW  |       |        |                | ●      |            |
| <b>Kerosene Visual Effect Stove</b><br>Output up to 17kW  |       | ●3     | ●3             |        |            |

**NOTES:**

- 1 Subject to appliance manufacturer's testing criteria.
- 2 Subject to manufacturer's input rating and chimney height.
- 3 Subject to manufacturer's output rating and chimney height.
- 4 Min 300mm depending on opening, chimney size and height.
- S Smokeless fuel only.
- SC Smokeless fuel or coal.

|   | 100 mm | 130 mm | 150 mm | 180 mm  | 200 mm | 230 mm | 250 mm | 300 mm |
|---|--------|--------|--------|---------|--------|--------|--------|--------|
| <b>Gas Boiler - Forced Draught</b><br>Input up to 25kW<br>Input 25kW to 45kW<br>Input 45kW to 50kW<br>Input 50kW to 75kW<br>Input 75kW to 100kW<br>Input over 100kW | ●      | ●      | ●      | ●       | ●      | ●      | ●2     |        |
| <b>Gas Fires</b><br>'Inset' to BS7977-1 2002<br>'Decorative' to BSEN 509:2000   |        |        |        | ●1<br>● |        |        |        |        |
| <b>Gas Oil (35 sec Class D) Heating Boiler</b><br>Output up to 25kW<br>Output 25kW to 45kW<br>Output 45kW to 70kW<br>Output 70kW to 100kW<br>Output over 100kW      | ●      | ●      | ●      | ●       | ●3     | ●3     | ●3     |        |
| <b>Solid Fuel Heating Boiler</b><br>Input up to 20kW<br>Input 20kW to 30kW<br>Input 30kW to 60kW  |        |        | ●S     | ●SC     |        |        |        |        |
| <b>Open Fires (Standard Opening) 500mm x 550mm</b>  |        |        |        | ●S      | ●SC    | ●SC    | ●SC    |        |
| <b>'Avant Garde' Feature Open Fires</b>   |        |        |        |         |        |        |        |        |
| <b>Room Heaters</b>   |        |        |        |         | ●      | ●      | ●      |        |
| <b>Wood burning Stoves/ Cookers.</b><br>Use only seasoned wood  | ●S     |        |        |         |        |        | ●4     |        |
| <b>Inglenook or non-standard opening.</b><br>Flue size dependant on cross-sectional area of fireplace opening.  | ●1     | ●      | ●      | ●       | ●      | ●      | ●      | ●      |

**NOTES:**

- 1 Subject to appliance manufacturer's testing criteria.
- 2 Subject to manufacturer's input rating and chimney height.
- 3 Subject to manufacturer's output rating and chimney height.
- 4 Min 300mm depending on opening, chimney size and height.
- S Smokeless fuel only.
- SC Smokeless fuel or coal.

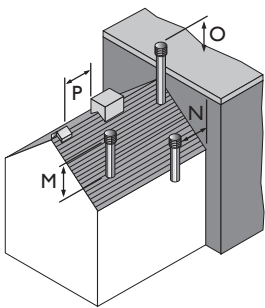
# System Design

## OUTLET SITING

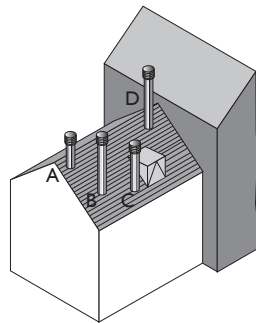
Flue terminations for solid fuel & oil are subject to BS EN 152. Figures A and B illustrate recommendations for the most commonly encountered outlet terminations. Flue terminations for gas in domestic situations are governed by BS EN 152 Section 4.2. Figure C illustrates recommendations for the most common siting situations encountered. Adjacent taller structures may require increased height. The minimum flue projection through the roof is 600mm to the underside of the terminal.

## LOCATION OF OUTLET

**Fig. A**  
Outlet siting for Oil Appliances (<45kW)



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



## FLUE ROUTING

The chimney should remain as straight as possible through its vertical run to assist flow. Should it be necessary to offset a chimney run the following guidelines should be adhered to: It is recommended that a vertical rise of 600mm should be allowed immediately above the appliance before any change of direction.

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

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

## TERMINAL TYPES

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

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

## PROVISION FOR SWEEPING, CLEANING AND MAINTENANCE

Provision should be made for inspecting and cleaning the chimney. To aid cleaning, sufficient distance should be left between changes of direction to permit the safe passage of cleaning brushes within the system. This is particularly important on solid fuel applications. It is recommended that chimneys serving solid fuel appliances be swept as frequently as necessary but at least twice a year. Choose an access component suitable for your installation unless cleaning/inspection can be done through the appliance.

## OUTLET SITING FOR OIL APPLIANCES (<45KW)

| Location of outlet |   | Pressure Jet Burner | Vapourising Burner |
|--------------------|---|---------------------|--------------------|
| M                  | Above the highest point of an intersection with the roof  | 600mm               | 1000mm             |
| N                  | From a structure to the side of the terminal  | 750mm               | 2300mm             |
| O                  | Above a vertical structure which is less than 750mm (pressure jet burner) or 2300mm (vapourising burner) horizontally from the side of the terminal | 600mm               | 1000mm             |
| P                  | From a ridge terminal to a vertical structure on the roof   | 1500mm              | Should not be used |

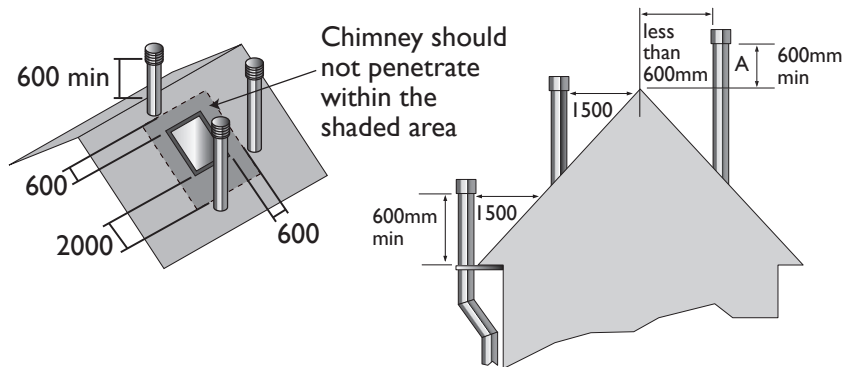
# System Design

## OUTLET SITING FOR SOLID FUEL APPLIANCES (<50KW)

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

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

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



## ROOM VENTILATION

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

## COMMERCIAL INSTALLATIONS

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

## PROVISION FOR CONDENSATE DISPOSAL

### (subject to appliance manufacturer recommendations)

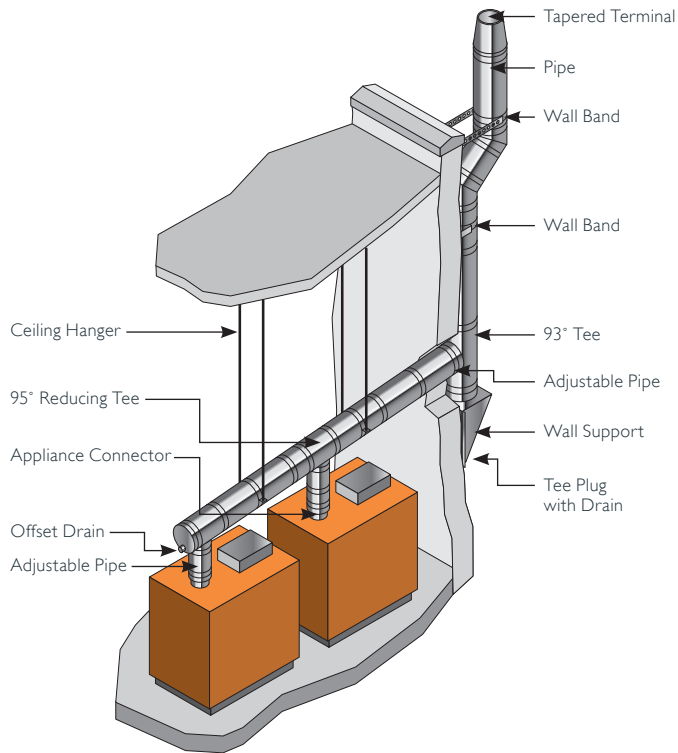
Normally solid fuel and atmospheric gas and oil appliances will not need a drain unless rain ingress is significant. Most condensing appliances however need provision for drainage. As a rule of thumb a condensing boiler produces 1 to 1.5 litres of condensate per hour per 10kW of input.

This is a significant amount of acidic liquid which must be drained from the system. Choose appropriate flue drainage components, normally fitted at the base of the stack and close to the appliance outlet.

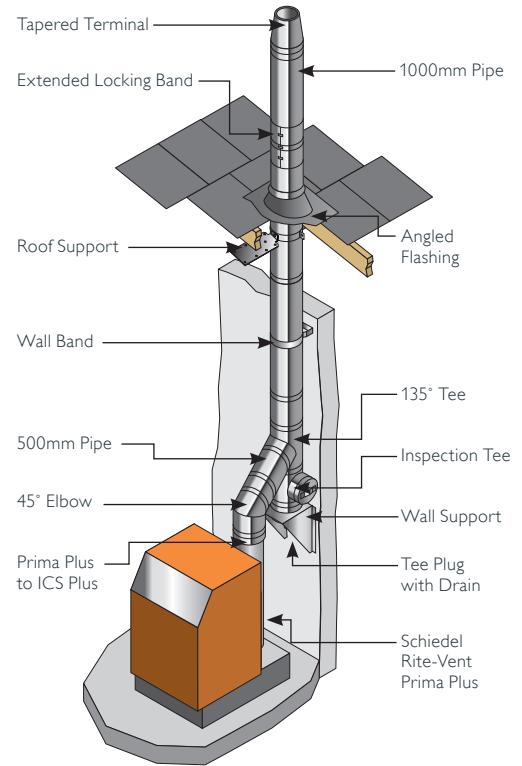
On high efficiency or on condensing systems, a 3° slope on horizontal runs is advised, using the appropriate 87° bend and 93° tee.

# Typical Installations

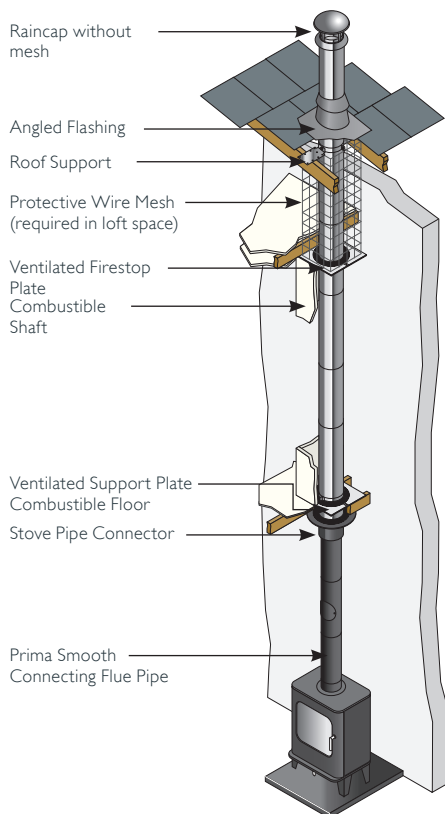
## TYPICAL CONDENSING BOILER INSTALLATION USING ICS PLUS



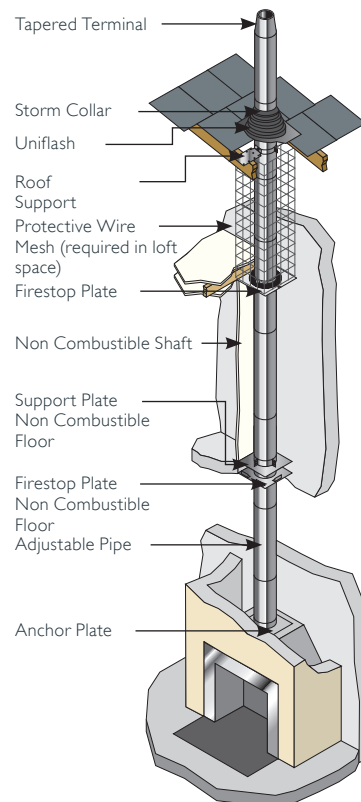
## TYPICAL INSTALLATION USING ICS PLUS



## WOOD/MULTI-FUEL INSTALLATION

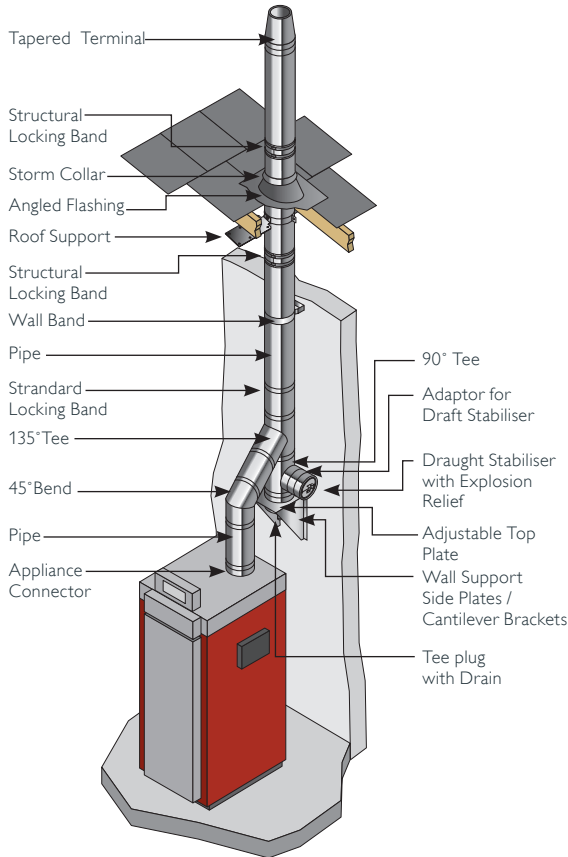


## OPEN FIRE INSTALLATION

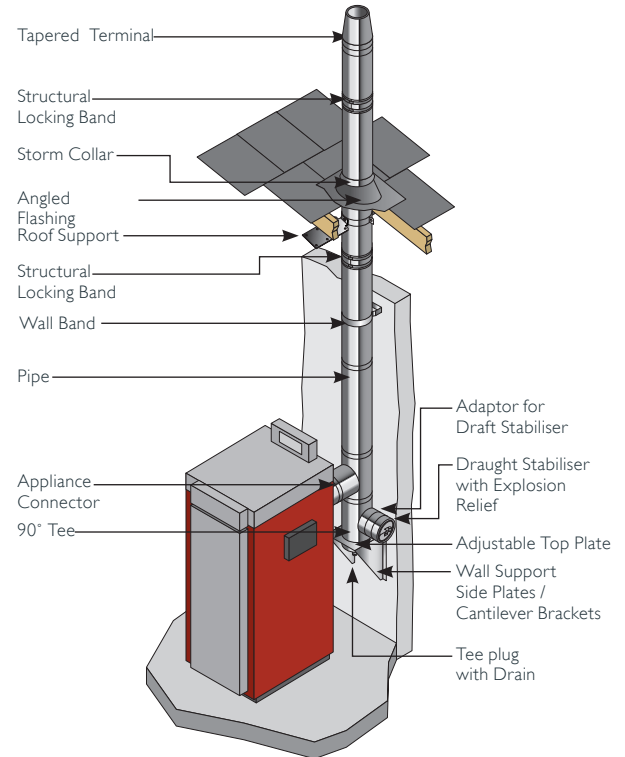


# Typical Installations

## TYPICAL BIOMASS INSTALLATION FROM TOP OUTLET USING ICS SYSTEM CHIMNEY



## TYPICAL BIOMASS INSTALLATION FROM REAR OUTLET USING ICS SYSTEM CHIMNEY WITH 90° TEE SOLUTION



# Product Ordering

The SAP codes shown in the tables next to each component should be used to order materials.

### ICS Plus

ICS components are converted to ICS Plus components by adding a gasket to each component. When ordering ICS Plus, order the internal diameter sized gasket for each component. Some components are specifically manufactured for condensing appliances.

# Finish

ICS & ICS Plus can be supplied painted in any RAL colour (additional costs apply).



# Biomass Base Starter Kits

## STARTER PACK 1

with 135° Tee for appliances with top or rear outlet


|          |        |
|----------|--------|
| Ext Ø mm | 150    |
| Int Ø mm | 200    |
| SAP Code | 128252 |

|   |  |   |                                  |   |   |
|---|--|---|----------------------------------|---|---|
|    | ICS 45 Bend<br>+ Locking Band          |  | ICS Wall Band<br>60mm            |  | ICS 135° Tee<br>+ 2 Locking Bands               |
|    | ICS Wall Band<br>Extensions<br>Bracket |  | ICS 90° Tee<br>+ 2 Locking Bands |  | Roof Support                                    |
|    | ICS Plug Tee<br>and Drain              |  | Uniflashing                      |  | ICS Wall Support<br>Top Plate<br>+ Locking Band |
|  | Tapered Terminal<br>+ Locking Band     |   |                                  |   |   |

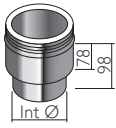
## STARTER PACK 2

with 90° Tee for appliances with rear outlet only

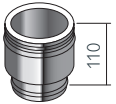
|          |        |
|----------|--------|
| Ext Ø mm | 150    |
| Int Ø mm | 200    |
| SAP Code | 138253 |

|   |                                  |   |   |   |  |
|---|----------------------------------|---|---|---|--|
|  | ICS 90° Tee<br>+ 2 Locking Bands |  | ICS 90° Tee<br>+ 2 Locking Bands                |  | ICS Wall Band<br>60mm                  |
|  | ICS Plug Tee<br>and Drain        |  | ICS Wall Support<br>Top Plate<br>+ Locking Band |  | ICS Wall Band<br>Extensions<br>Bracket |
|  | Roof Support                     |  | Uniflashing                                     |  | Tapered Terminal<br>+ Locking Band     |

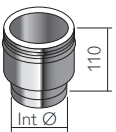
# Starting Components



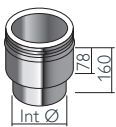
| Appliance Connector |        |        |        |        |        |        |        |        |        | ICS J2147 |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm             | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm             | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| SAP Code            | 148384 | 148385 | 110916 | 111158 | 111468 | 111593 | 111960 | 112147 | 112636 |           |



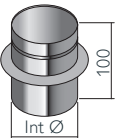
| Connector - Prima Plus to ICS |        |        |        |        |        |        |        |        |        | ICS S068 |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Int Ømm                       | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |          |
| Ext Ømm                       | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |          |
| SAP Code                      | 148399 | 149400 | 101178 | 101179 | 101180 | 101181 | 101360 | 101182 | 101183 |          |



| Connector - Prima Smooth to ICS           |     |     |        |        |        |        |        |     |     | ICS PS068 |
|---|-----|-----|--------|--------|--------|--------|--------|-----|-----|-----------|
| Increasing Connector Prima Smooth to ICS* |     |     |        |        |        |        |        |     |     | ICS PS068 |
| Int Ømm                                   | 80  | 100 | 125    | 125*   | 150    | 180    | 200    | 230 | 250 | 300       |
| Ext Ømm                                   | 130 | 150 | 180    | 200    | 200    | 230    | 250    | 280 | 300 | 350       |
| SAP Code                                  | -   | -   | 125388 | 145505 | 126291 | 134132 | 144449 | -   | -   | -         |



| Biomass Appliance Connector |     |     |        |        |     |     |     |     |     | ICS J21F8 |
|-----------------------------|-----|-----|--------|--------|-----|-----|-----|-----|-----|-----------|
| Int Ømm                     | 80  | 100 | 130    | 150    | 180 | 200 | 230 | 250 | 300 |           |
| Ext Ømm                     | 130 | 150 | 180    | 200    | 230 | 250 | 280 | 300 | 350 |           |
| SAP Code                    | -   | -   | 125610 | 126139 | -   | -   | -   | -   | -   | -         |



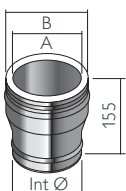
| Starting Connector |        |        |        |        |        |        |        |        |        | ICS J2169 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm            | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm            | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| SAP Code           | 148382 | 148383 | 110293 | 110509 | 110771 | 110921 | 111325 | 111519 | 112111 |           |



| Adaptor - ICS to Prima Plus |        |        |        |        |        |        |        |        |        | ICS J2178 |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm                     | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm                     | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| SAP Code                    | 148397 | 148398 | 101192 | 101193 | 101194 | 101195 | 101361 | 101196 | 101197 |           |

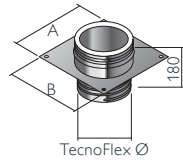
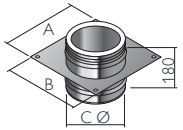


| Adaptor - ICS to TecnoFlex Plus Screw Fit |        |        |        |        |        |        |        |        |        | ICS J2179 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm                                   | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm                                   | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| SAP Code                                  | 130561 | 124814 | 111031 | 111281 | 111535 | 111743 | 112043 | 112255 | 112770 |           |



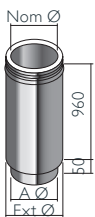
| Increaser |        |        |        |        |        |        |        |        |     | ICS J2171 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----------|
| Int Ømm   | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300 |           |
| Ext Ømm   | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350 |           |
| A         | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    | -   |           |
| B         | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    | -   |           |
| SAP Code  | 148386 | 148387 | 101892 | 101893 | 101894 | 101895 | 101896 | 101897 | -   |           |

# Starting Components

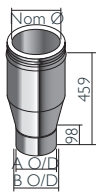


| Anchor Plate - Plain                               |        |        |        |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Anchor Plate - TecnoFlex Plus Screw Fit Connection |        |        |        |        |        |        |        |        |        |
| ICS J21D6  |        |        |        |        |        |        |        |        |        |
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A  | 250    | 270    | 300    | 300    | 320    | 350    | 370    | 400    | 420    |
| B  | 220    | 240    | 270    | 270    | 290    | 320    | 340    | 370    | 390    |
| C Ø  | 80     | 100    | 125    | 150    | 180    | 200    | 230    | 250    | 300    |
| TecnoFlex Plus Ø                                   | 80     | 100    | 125    | 155    | 180    | 200    | 230    | 250    | 300    |
| SAP Code Plain                                     | 148380 | 148381 | 101002 | 101003 | 101004 | 101005 | 101336 | 101006 | 101007 |
| SAP Code Flex                                      | -      | -      | 142630 | 142631 | 142632 | 142633 | -      | -      | -      |

Order code for Increaser Anchor Plate from 125 to 130mm is 125626



| Stove Starter Pipe |     |     |        |        |        |        |  | ICS J2175 |  |
|--------------------|-----|-----|--------|--------|--------|--------|--|-----------|--|
| Int Ømm            | 80  | 100 | 130    | 150    | 180    | 200    |  |           |  |
| Ext Ømm            | 130 | 150 | 180    | 200    | 230    | 250    |  |           |  |
| A                  | -   | -   | 125    | 150    | 175    | 200    |  |           |  |
| SAP Code           | -   | -   | 125640 | 126204 | 126908 | 127506 |  |           |  |



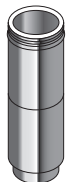
| SW-DW Adjustable Starter Pipe |     |     |        |        |        |        |        | Increasing SW-DW Adjustable Starter Pipe* |  |
|-------------------------------|-----|-----|--------|--------|--------|--------|--------|---|--|
| Int Ømm                       | 80  | 100 | 130    | 130*   | 150    | 180    | 200    |   |  |
| Ext Ømm                       | 130 | 150 | 180    | 200    | 200    | 230    | 250    |   |  |
| A O/D                         | -   | -   | 122.7  | 122.7  | 147.6  | 176.5  | 197.5  |   |  |
| B O/D                         | -   | -   | 130    | 130    | 154.5  | 183.5  | 204.5  |   |  |
| SAP Code                      | -   | -   | 133653 | 143702 | 133654 | 133655 | 133656 |   |  |

This component MUST only be fitted to stove pipe and NOT directly to appliance.



| SW-DW Adjustable Starter Pipe 1200mm |     |     |        |        |        |        |  |
|--------------------------------------|-----|-----|--------|--------|--------|--------|--|
| Int Ømm                              | 80  | 100 | 130    | 150    | 180    | 200    |  |
| Ext Ømm                              | 130 | 150 | 180    | 200    | 230    | 250    |  |
| A O/D                                | -   | -   | 122.8  | 147.7  | 179.6  | 197.6  |  |
| B O/D                                | -   | -   | 130    | 154.5  | 183.5  | 204.5  |  |
| SAP Code                             | -   | -   | 149567 | 149568 | 149569 | 149570 |  |

This component MUST only be fitted to stove pipe and NOT directly to appliance.

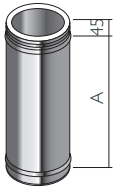


| DW Adjustable Starter Section 1025mm Eff. Length |     |     |        |        |        |        |
|--|-----|-----|--------|--------|--------|--------|
| Int Ømm  | 80  | 100 | 130    | 150    | 180    | 200    |
| Ext Ømm  | 130 | 150 | 180    | 200    | 230    | 250    |
| SAP Code Plain                                   | -   | -   | 152239 | 152240 | 152241 | 152242 |
| SAP Code Black                                   | -   | -   | -      | 152247 | -      | -      |

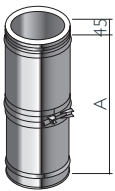


| DW Adjustable Starter Section 600mm Eff. Length |     |     |        |        |        |        |
|---|-----|-----|--------|--------|--------|--------|
| Int Ømm   | 80  | 100 | 130    | 150    | 180    | 200    |
| Ext Ømm   | 130 | 150 | 180    | 200    | 230    | 250    |
| SAP Code Plain                                  | -   | -   | 152243 | 152244 | 152245 | 152246 |
| SAP Code Black                                  | -   | -   | -      | 152248 | -      | -      |

# Pipes

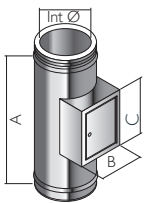


| Effective Length |        |        | A         |        | 955    | 750    | 455    | 205    | 150    |       |
|------------------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|-------|
|                  |        |        | Part ref. |        | ICS    | J2101  | J21F9  | J2102  | J2103  | J2104 |
| Int Ømm          | 80     | 100    | 130       | 150    | 180    | 200    | 230    | 250    | 300    |       |
| Ext Ømm          | 130    | 150    | 180       | 200    | 230    | 250    | 280    | 300    | 350    |       |
| SAP Code 955     | 116493 | 117091 | 117623    | 117960 | 118311 | 118468 | 118713 | 113605 | 100691 |       |
| SAP Code 750     | -      | -      | -         | 126161 | 126877 | -      | -      | -      | -      |       |
| SAP Code 455     | 113542 | 114693 | 115393    | 115902 | 116368 | 116715 | 117086 | 117321 | 100691 |       |
| SAP Code 205     | 111569 | 111980 | 112593    | 112909 | 113364 | 114271 | 114610 | 114926 | 100677 |       |
| SAP Code 150     | 111160 | 111471 | 111949    | 112244 | 112673 | 112961 | 113282 | 113516 | 100663 |       |

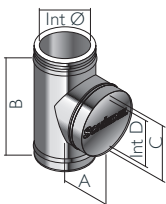


| Adjustable Pipe   |        |        | A         |        | 585-1005 | 375-585 | 270-375 | 195-250 |        |
|-------------------|--------|--------|-----------|--------|----------|---------|---------|---------|--------|
|                   |        |        | Part ref. |        | ICS      | J2154   | J2153   | J2109   | J2152  |
| Int Ømm           | 80     | 100    | 130       | 150    | 180      | 200     | 230     | 250     | 300    |
| Ext Ømm           | 130    | 150    | 180       | 200    | 230      | 250     | 280     | 300     | 350    |
| SAP Code 585-1005 | 124592 | 124572 | 125622    | 126175 | 126888   | 127484  | 127976  | 128391  | 128899 |
| SAP Code 375-585  | 148378 | 148379 | 116882    | 117207 | 117556   | 117873  | 118141  | 118305  | 118639 |
| SAP Code 270-375  | 148376 | 148377 | 100715    | 100716 | 100717   | 100718  | 101289  | 100719  | 100720 |
| SAP Code 195-250  | 148393 | 148394 | 114523    | 114975 | 115450   | 115885  | 116270  | 116481  | 117047 |

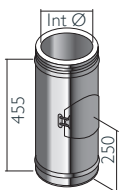
To change into ICS Plus a total of 3 gaskets are required on adjustable pipes.



| Inspection Length - ICS |     |     |        |        |        |        |        |        | ICS J2111 |
|-------------------------|-----|-----|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm                 | 80  | 100 | 130    | 150    | 180    | 200    | 230    | 250    | 300       |
| Ext Ømm                 | 130 | 150 | 180    | 200    | 230    | 250    | 280    | 300    | 350       |
| A                       | -   | -   | 292    | 292    | 292    | 292    | 411    | 411    | 411       |
| B                       | -   | -   | 114    | 114    | 114    | 114    | 202    | 202    | 202       |
| C                       | -   | -   | 173    | 173    | 173    | 173    | 292    | 292    | 292       |
| SAP Code                | -   | -   | 113207 | 115319 | 115429 | 116120 | 117404 | 117515 | 117871    |

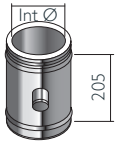


| Inspection Length - ICS Plus |        |        |        |        |        |        |        |        | ICS Plus DF21E6 |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| Int D                        | 130    | 150    | 180    | 200    | 230    | 250    | 250    | 250    | 250             |
| Int Ømm                      | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300             |
| Ext Ømm                      | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350             |
| A                            | 125    | 135    | 150    | 160    | 175    | 185    | 180    | 210    | 238             |
| B                            | 255    | 275    | 305    | 325    | 355    | 375    | 375    | 375    | 375             |
| C                            | 145    | 155    | 170    | 180    | 195    | 205    | 205    | 205    | 205             |
| SAP Code                     | 148403 | 148404 | 100895 | 100896 | 100897 | 100898 | 101304 | 100899 | 100900          |

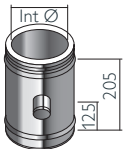


| Inspection Pipe - ICS |        |        |        |        |        |        |        |        | ICS J21A4 |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm               | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300       |
| Ext Ømm               | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350       |
| SAP Code              | 130550 | 124795 | 115391 | 115905 | 116364 | 116717 | 117046 | 117323 | 117693    |

# Pipes



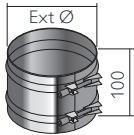
| Measure Pipe |        |        |        |        |        |        |        |        | ICS J2195 |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm      | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300       |
| Ext Ømm      | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350       |
| SAP Code     | 148401 | 148402 | 101142 | 101143 | 101144 | 101145 | 101343 | 101146 | 101147    |



| Vertical Drain Pipe |        |        |        |        |        |        |        |        | ICS J21A5 |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm             | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300       |
| Ext Ømm             | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350       |
| SAP Code            | 148405 | 148406 | 101156 | 101157 | 101158 | 101159 | 101359 | 101160 | 101161    |



| Locking Band   |        |        |        |        |        |        |        |        | ICS J2183 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300       |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350       |
| SAP Code   | 104464 | 104465 | 104420 | 104421 | 104468 | 104423 | 104424 | 104470 | 104471    |
| Supplied with components (as standard) with female form. |        |        |        |        |        |        |        |        |           |



| Structural Locking Band   |        |        |        |        |        |        |        |        | 95850  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm   | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm   | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| SAP Code  | 101124 | 101125 | 101126 | 101127 | 101128 | 101129 | 101130 | 101131 | 101132 |
| For static loading information please see p.40 of the Installation Instructions |        |        |        |        |        |        |        |        |        |

## Gasket to convert ICS to ICS Plus

Fit into the groove form on all female socket (liners) and into grooves on adjustable pipe liner.

Refer to our YouTube TV Channel to see a conversion demonstration.

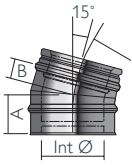


| Silicon Gasket (Gas Only)   |        |        |        |        |        |        |        |        | S000   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm   | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm   | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| SAP Code  | 124582 | 120423 | 120421 | 120419 | 126611 | 127185 | 127750 | 119581 | 128693 |
| For use on condensing gas applications with a pressure rating of up to 200Pa. |        |        |        |        |        |        |        |        |        |

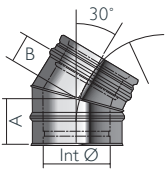


| Viton Gasket (Gas & Oil)  |        |        |        |        |        |        |        |        | V000   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm   | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm   | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 250    |
| SAP Code  | 124618 | 124919 | 125721 | 119577 | 119575 | 127653 | 128059 | 128521 | 129009 |
| For use on condensing gas and oil applications with a pressure rating of up to 200Pa. |        |        |        |        |        |        |        |        |        |

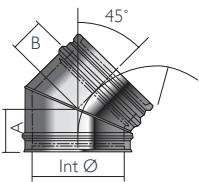
# Bends



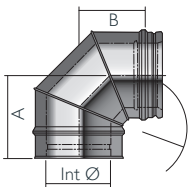
| 15° Bend |        |        |        |        |        |        |        |        |        | ICS J2118 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| A        | 95     | 95     | 95     | 95     | 100    | 100    | 100    | 105    | 105    |           |
| B        | 55     | 55     | 55     | 55     | 60     | 60     | 60     | 65     | 65     |           |
| SAP Code | 111089 | 111396 | 111830 | 112167 | 112623 | 112584 | 113177 | 113431 | 100734 |           |



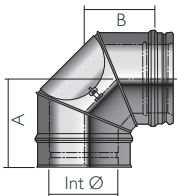
| 30° Bend |        |        |        |        |        |        |        |        |        | ICS J2119 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| A        | 95     | 100    | 108    | 110    | 115    | 120    | 120    | 125    | 130    |           |
| B        | 55     | 60     | 68     | 70     | 75     | 80     | 80     | 85     | 90     |           |
| SAP Code | 111091 | 111398 | 111793 | 112174 | 113242 | 113543 | 114518 | 114815 | 100748 |           |



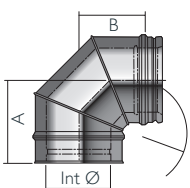
| 45° Bend |        |        |        |        |        |        |        |        |        | ICS J2117 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| SAP Code | 111522 | 111937 | 112487 | 112806 | 113246 | 114388 | 114968 | 115303 | 100762 |           |
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| A        | 110    | 115    | 120    | 125    | 130    | 135    | 145    | 145    | 155    |           |
| B        | 70     | 75     | 80     | 85     | 90     | 95     | 105    | 105    | 115    |           |



| 90° Bend |        |        |        |        |        |        |        |        |        | ICS J2115 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| A        | 168    | 178    | 192    | 201    | 216    | 228    | 244    | 252    | 281    |           |
| B        | 132    | 140    | 156    | 165    | 180    | 192    | 208    | 216    | 237    |           |
| SAP Code | 112105 | 112748 | 114190 | 114761 | 115710 | 116033 | 116429 | 117015 | 100817 |           |



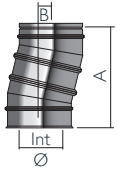
| Inspection Bend |     |        |        |        |        |        |        |        |        | ICS J21A2 |
|-----------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm         | 80  | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |           |
| Ext Ømm         | 130 | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |           |
| A               | -   | 136    | 152    | 161    | 176    | 188    | 204    | 212    | 237    |           |
| B               | -   | 180    | 196    | 205    | 220    | 232    | 248    | 256    | 281    |           |
| SAP Code        | -   | 148409 | 109585 | 109586 | 109587 | 109588 | 116425 | 109589 | 117563 |           |



| 87° Bend |        |        |        |        |        |        |     |        |        | ICS J21F3 |
|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|-----------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230 | 250    | 300    |           |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280 | 300    | 350    |           |
| A        | 166    | 173    | 189    | 198    | 213    | 225    | -   | 248    | 271    |           |
| B        | 130    | 137    | 153    | 162    | 177    | 189    | -   | 212    | 232    |           |
| SAP Code | 130566 | 124825 | 125614 | 126163 | 126879 | 127468 | -   | 128377 | 128884 |           |

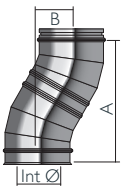
# Offsets

(made by assembling 2 bends)



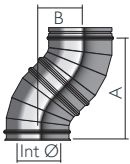
## 15° Offset

|         |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Int Ømm | 80  | 100 | 130 | 150 | 180 | 200 | 230 | 250 | 300 |
| Ext Ømm | 130 | 150 | 180 | 200 | 230 | 250 | 280 | 300 | 350 |
| A       | 295 | 295 | 295 | 295 | 315 | 315 | 315 | 334 | 334 |
| B       | 39  | 39  | 39  | 39  | 41  | 41  | 41  | 44  | 44  |



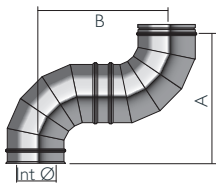
## 30° Offset

|         |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Int Ømm | 80  | 100 | 130 | 150 | 180 | 200 | 230 | 250 | 300 |
| Ext Ømm | 130 | 150 | 180 | 200 | 230 | 250 | 280 | 300 | 350 |
| A       | 280 | 299 | 327 | 336 | 355 | 373 | 373 | 392 | 411 |
| B       | 75  | 80  | 88  | 90  | 95  | 100 | 100 | 105 | 110 |



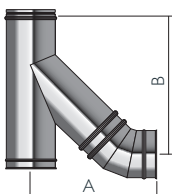
## 45° Offset

|         |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Int Ømm | 80  | 100 | 130 | 150 | 180 | 200 | 230 | 250 | 300 |
| Ext Ømm | 130 | 150 | 180 | 200 | 230 | 250 | 280 | 300 | 350 |
| A       | 307 | 324 | 341 | 358 | 376 | 393 | 427 | 427 | 461 |
| B       | 127 | 134 | 141 | 148 | 156 | 163 | 177 | 177 | 191 |



## 90° Offset

|         |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Int Ømm | 80  | 100 | 130 | 150 | 180 | 200 | 230 | 250 | 300 |
| Ext Ømm | 130 | 150 | 180 | 200 | 230 | 250 | 280 | 300 | 350 |
| A       | 300 | 316 | 348 | 366 | 396 | 420 | 452 | 468 | 518 |
| B       | 300 | 316 | 348 | 366 | 396 | 420 | 452 | 468 | 518 |

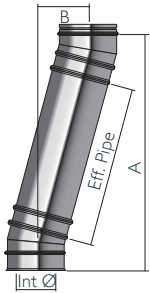


## Offsets for 135° Tee & 45° Bend

|         |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Int Ømm | 80  | 100 | 130 | 150 | 180 | 200 | 230 | 250 | 300 |
| Ext Ømm | 130 | 150 | 180 | 200 | 230 | 250 | 280 | 300 | 350 |
| A       | 343 | 370 | 437 | 445 | 452 | 496 | 523 | 537 | 592 |
| B       | 305 | 324 | 404 | 406 | 415 | 473 | 475 | 499 | 556 |

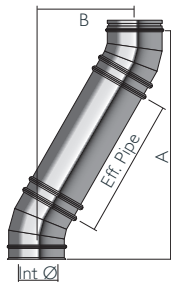
# Typical Offsets

(made by assembling 2 bends and a standard pipe section)



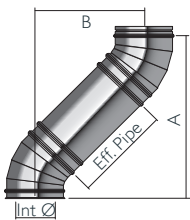
## 15° Bend Offset with Standard Pipe Length

| Int Ømm            |   | 80   | 100  | 130  | 150  | 180  | 200  | 230  | 250  | 300  |
|--------------------|---|------|------|------|------|------|------|------|------|------|
| Ext Ømm            |   | 130  | 150  | 180  | 200  | 230  | 250  | 280  | 300  | 350  |
| Effective Pipe 955 | A | 1218 | 1218 | 1218 | 1218 | 1238 | 1238 | 1238 | 1257 | 1257 |
|                    | B | 286  | 286  | 286  | 286  | 288  | 288  | 288  | 291  | 291  |
| Effective Pipe 455 | A | 735  | 735  | 735  | 735  | 755  | 755  | 755  | 774  | 774  |
|                    | B | 157  | 157  | 157  | 157  | 159  | 159  | 159  | 162  | 162  |
| Effective Pipe 205 | A | 493  | 493  | 493  | 493  | 513  | 513  | 513  | 532  | 532  |
|                    | B | 92   | 92   | 92   | 92   | 94   | 94   | 94   | 97   | 97   |
| Effective Pipe 150 | A | 445  | 445  | 445  | 445  | 465  | 465  | 465  | 484  | 484  |
|                    | B | 79   | 79   | 79   | 79   | 81   | 81   | 81   | 84   | 84   |



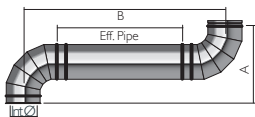
## 30° Bend Offset with Standard Pipe Length

| Int Ømm            |   | 80   | 100  | 130  | 150  | 180  | 200  | 230  | 250  | 300  |
|--------------------|---|------|------|------|------|------|------|------|------|------|
| Ext Ømm            |   | 130  | 150  | 180  | 200  | 230  | 250  | 280  | 300  | 350  |
| Effective Pipe 955 | A | 1107 | 1126 | 1154 | 1163 | 1182 | 1200 | 1200 | 1219 | 1238 |
|                    | B | 553  | 558  | 566  | 568  | 573  | 578  | 578  | 583  | 588  |
| Effective Pipe 455 | A | 674  | 693  | 721  | 709  | 765  | 765  | 765  | 784  | 793  |
|                    | B | 303  | 308  | 316  | 318  | 323  | 328  | 328  | 333  | 338  |
| Effective Pipe 205 | A | 458  | 477  | 505  | 514  | 533  | 551  | 551  | 570  | 589  |
|                    | B | 178  | 183  | 191  | 193  | 198  | 203  | 203  | 208  | 213  |
| Effective Pipe 150 | A | 414  | 433  | 461  | 470  | 489  | 507  | 507  | 526  | 545  |
|                    | B | 153  | 158  | 166  | 168  | 173  | 178  | 178  | 183  | 188  |



## 45° Bend Offset with Standard Pipe Length

| Int Ømm            |   | 80  | 100 | 130  | 150  | 180  | 200  | 230  | 250  | 300  |
|--------------------|---|-----|-----|------|------|------|------|------|------|------|
| Ext Ømm            |   | 130 | 150 | 180  | 200  | 230  | 250  | 280  | 300  | 350  |
| Effective Pipe 955 | A | 982 | 999 | 1016 | 1033 | 1051 | 1068 | 1102 | 1102 | 1136 |
|                    | B | 802 | 809 | 816  | 823  | 831  | 838  | 852  | 852  | 866  |
| Effective Pipe 455 | A | 629 | 646 | 663  | 680  | 698  | 715  | 749  | 749  | 783  |
|                    | B | 449 | 456 | 463  | 470  | 478  | 485  | 499  | 499  | 513  |
| Effective Pipe 205 | A | 452 | 469 | 486  | 503  | 521  | 538  | 572  | 572  | 606  |
|                    | B | 272 | 279 | 286  | 293  | 301  | 308  | 322  | 322  | 336  |
| Effective Pipe 150 | A | 417 | 434 | 451  | 468  | 486  | 503  | 537  | 537  | 571  |
|                    | B | 237 | 244 | 251  | 258  | 266  | 273  | 287  | 287  | 301  |

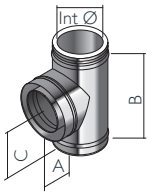


## 90° Bend Offset with Standard Pipe Length

| Int Ømm            |   | 80   | 100  | 130  | 150  | 180  | 200  | 230  | 250  | 300  |
|--------------------|---|------|------|------|------|------|------|------|------|------|
| Ext Ømm            |   | 130  | 150  | 180  | 200  | 230  | 250  | 280  | 300  | 350  |
| Effective Pipe 955 | A | 296  | 315  | 345  | 366  | 415  | 414  | 445  | 464  | 518  |
|                    | B | 1251 | 1270 | 1300 | 1321 | 1370 | 1369 | 1400 | 1419 | 1473 |
| Effective Pipe 455 | A | 296  | 315  | 345  | 366  | 415  | 414  | 445  | 464  | 518  |
|                    | B | 751  | 770  | 800  | 821  | 870  | 869  | 900  | 919  | 973  |
| Effective Pipe 205 | A | 296  | 315  | 345  | 366  | 415  | 414  | 445  | 464  | 518  |
|                    | B | 501  | 520  | 550  | 571  | 620  | 619  | 650  | 669  | 723  |
| Effective Pipe 150 | A | 296  | 316  | 345  | 366  | 415  | 414  | 445  | 464  | 518  |
|                    | B | 446  | 466  | 495  | 516  | 565  | 564  | 595  | 614  | 673  |

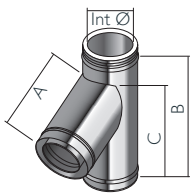


# Tees



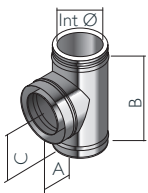
| 90° Tee  |  | ICS J2120 |        |        |        |        |        |        |        |        |
|----------|--|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  |  | 80        | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  |  | 130       | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A        |  | 145       | 155    | 170    | 180    | 195    | 205    | 220    | 230    | 258    |
| B        |  | 250       | 270    | 305    | 325    | 355    | 375    | 405    | 425    | 480    |
| C        |  | 145       | 155    | 170    | 180    | 195    | 205    | 220    | 230    | 258    |
| SAP Code |  | 112880    | 113386 | 114584 | 115231 | 116187 | 116706 | 117416 | 117805 | 100886 |

To change into ICS Plus a total of 2 gaskets are required on tee sections - refer to our YouTube TV Channel to see a conversion demonstration



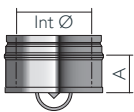
| 135° Tee             |  | ICS (Dry System) J2121<br>ICS Plus (Wet System) DF2121 |        |        |        |        |        |        |        |        |
|----------------------|--|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm              |  | 80   | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm              |  | 130  | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A                    |  | -  | 262    | 298    | 322    | 358    | 382    | 419    | 443    | 509    |
| B                    |  | -  | 327    | 375    | 403    | 445    | 474    | 516    | 544    | 622    |
| C                    |  | -  | 262    | 298    | 322    | 358    | 382    | 419    | 443    | 509    |
| SAP Code ICS (Dry)   |  | -  | 114914 | 116671 | 117052 | 117406 | 100856 | 118345 | 118527 | 100858 |
| SAP Code ICS + (Wet) |  | -  | 124794 | 125612 | 126146 | 126865 | 127451 | 127968 | 128359 | 128861 |

To change into ICS Plus a total of 2 gaskets are required on tee sections - refer to our YouTube TV Channel to see a conversion demonstration

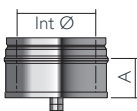


| 93° Tee  |  | J21F2 |        |        |        |        |        |        |        |        |
|----------|--|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  |  | 80    | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  |  | 130   | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A        |  | -     | 162    | 178    | 189    | 206    | 216    | 233    | 244    | 264    |
| B        |  | -     | 278    | 309    | 329    | 359    | 379    | 405    | 455    | 490    |
| C        |  | -     | 166    | 178    | 189    | 206    | 216    | 233    | 257    | 268    |
| SAP Code |  | -     | 124827 | 125651 | 126217 | 126922 | 127523 | 127997 | 128433 | 128933 |

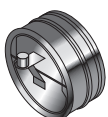
To change into ICS Plus a total of 2 gaskets are required on tee sections - refer to our YouTube TV Channel to see a conversion demonstration



| Tee Plug |  | ICS J2125 |        |        |        |        |        |        |        |        |
|----------|--|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  |  | 80        | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  |  | 130       | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A        |  | 35        | 32     | 38     | 41     | 44     | 44     | 48     | 48     | 48     |
| SAP Code |  | 148395    | 148396 | 101106 | 101107 | 101108 | 101109 | 101342 | 101110 | 101111 |

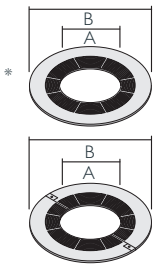


| Tee Plug with Drain |  | ICS J2129 |        |        |        |        |        |        |        |        |
|---------------------|--|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm             |  | 80        | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm             |  | 130       | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A                   |  | 35        | 32     | 38     | 41     | 44     | 44     | 48     | 48     | 48     |
| SAP Code            |  | 148407    | 148408 | 101030 | 101031 | 101032 | 101033 | 101338 | 101034 | 101035 |



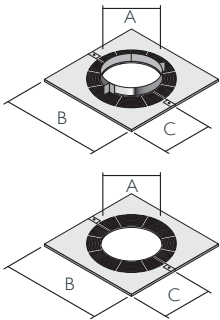
| Draught Stabiliser Econ.<br>Draught Stabiliser with Explosion Relief |  | ICS J2126<br>- |        |        |        |        |        |        |        |        |
|--|--|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  |  | 80             | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  |  | 130            | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| SAP Code Econ.   |  | -              | 124800 | 101204 | 101205 | 101206 | 101207 | 101208 | 101209 | 101210 |
| SAP Code with Ex.R.  |  | -              | -      | 148410 | 148411 | 148412 | -      | -      | 148413 | -      |

# Firestop Components

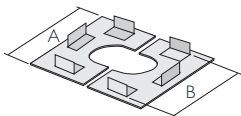


| Combustible Floor                          |        |        |        |        |        |        |        |        |      |
|--|--------|--------|--------|--------|--------|--------|--------|--------|------|
| Round Ventilated Firestop Plate - 1 Piece* |        |        |        |        |        |        |        |        | 9423 |
| Round Ventilated Firestop Plate - 2 Piece  |        |        |        |        |        |        |        |        | 9424 |
| Int Ømm                                    | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    |      |
| Ext Ømm                                    | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    |      |
| A  | 133    | 153    | 183    | 203    | 233    | 253    | 283    | 303    |      |
| B  | 330    | 350    | 380    | 400    | 430    | 450    | 480    | 500    |      |
| SAP Code 1PC Plain                         | 125501 | 125902 | 126661 | 127227 | 128117 | 128601 | 128639 | 128715 |      |
| SAP Code 1PC Black                         | 125499 | 125900 | 126659 | 127225 | 128115 | 128599 | 128637 | 128713 |      |
| SAP Code 1PC White                         | 125500 | 125901 | 126660 | 127226 | 128116 | 128600 | 128638 | 128714 |      |
| SAP Code 2PC Plain                         | 125504 | 125905 | 126664 | 127230 | 128120 | 128604 | 128642 | 128718 |      |
| SAP Code 2PC Black                         | 125502 | 125903 | 126662 | 127228 | 128118 | 128602 | 128640 | 128716 |      |
| SAP Code 2PC White                         | 125503 | 125904 | 126663 | 127229 | 128119 | 128603 | 128641 | 128717 |      |

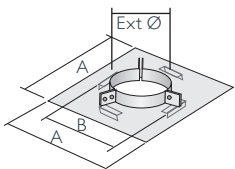
\*One piece firestop available for use exclusively with stove starter pipe



| Combustible Floor                               |        |        |        |        |        |        |        |        |       |
|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Ventilated Support Plate - 2 Piece              |        |        |        |        |        |        |        |        | 95260 |
| Rectangular Ventilated Firestop Plate - 2 Piece |        |        |        |        |        |        |        |        | 94250 |
| Int Ømm   | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    |       |
| Ext Ømm   | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    |       |
| A   | 133    | 153    | 183    | 203    | 233    | 253    | 283    | 303    |       |
| B   | 330    | 350    | 380    | 400    | 430    | 450    | 480    | 500    |       |
| C   | 165    | 175    | 190    | 200    | 215    | 225    | 240    | 250    |       |
| SAP Code Support P                              | 125507 | 125908 | 126667 | 127234 | 127778 | 128219 | 128645 | 128721 |       |
| SAP Code Firestop P                             | 125506 | 125907 | 126666 | 127232 | 127777 | 128218 | 128644 | 128720 |       |

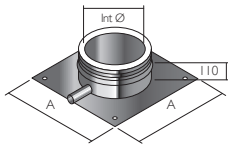


| Non Combustible Floor |        |        |        |        |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Firestop Plate        |        |        |        |        |        |        |        |        | 94670  |
| Int Ømm               | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm               | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A                     | 300    | 300    | 330    | 350    | 380    | 400    | 430    | 450    | 500    |
| B                     | 230    | 250    | 280    | 300    | 330    | 350    | 380    | 400    | 450    |
| SAP Code              | 125489 | 125891 | 126624 | 127200 | 127755 | 128197 | 128625 | 128698 | 129131 |



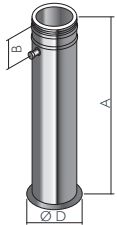
| Non Combustible Floor |         |        |        |        |        |        |        |        |        |
|-----------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Support Plate         |         |        |        |        |        |        |        |        | 95680  |
| Int Ømm               | 80      | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm               | 130     | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A                     | 300     | 300    | 330    | 350    | 380    | 400    | 430    | 450    | 500    |
| B                     | 230     | 250    | 280    | 300    | 330    | 350    | 380    | 400    | 450    |
| SAP Code              | 1255495 | 125896 | 126646 | 127210 | 127762 | 128203 | 128631 | 128705 | 129138 |

# Support Components



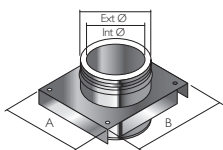
## Base Support Plate with Drain ICS J2191

|          |        |        |        |        |        |        |        |        |        |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  | 130    | 150    | 180    | 200    | 235    | 230    | 250    | 300    | 350    |
| A        | 230    | 250    | 280    | 300    | 330    | 350    | 380    | 400    | 450    |
| SAP Code | 148390 | 148391 | 104557 | 104558 | 100989 | 100990 | 101322 | 104559 | 104560 |



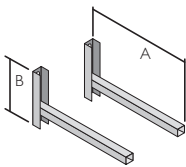
## Base Drain Plug Support Refer to SAP code

|          |      |      |        |        |        |        |        |        |        |
|----------|------|------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  | 80   | 100  | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  | 130  | 150  | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A        | 1045 | 1045 | 1045   | 1045   | 1045   | 1045   | 1045   | 1045   | 1045   |
| B        | 160  | 160  | 160    | 160    | 160    | 160    | 160    | 160    | 160    |
| D Ø      | 179  | 196  | 226    | 246    | 276    | 296    | 326    | 346    | 401    |
| SAP Code | -    | -    | 100994 | 100995 | 100996 | 100997 | 101330 | 100998 | 100999 |



## Adjustable Top Plate J21D3

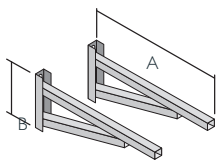
|          |        |        |        |        |        |        |        |        |        |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A        | 188    | 208    | 238    | 258    | 278    | 285    | 315    | 335    | 385    |
| B        | 256    | 276    | 306    | 326    | 356    | 353    | 383    | 403    | 453    |
| SAP Code | 130555 | 124805 | 125636 | 126194 | 126900 | 127496 | 127984 | 128406 | 128910 |



## Cantilever Support Type 325 - 95420001 Type 475 - 95420002

|                |        |        |
|----------------|--------|--------|
| Type           | 325    | 475    |
| Int Ømm Range  | 80-150 | 80-300 |
| A              | 325    | 475    |
| B              | 242    | 242    |
| SAP Code Plain | 101742 | 101743 |
| SAP Code Black | 130686 | 130687 |

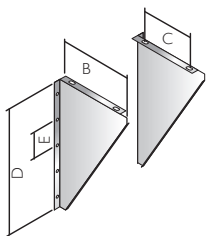
Used in combination with Adjustable Top Plate.



## Cantilever Support Type 570 - 95420003

|                |        |
|----------------|--------|
| Type           | 570    |
| Int Ømm Range  | 80-300 |
| A              | 570    |
| B              | 330    |
| SAP Code Plain | 101744 |
| SAP Code Black | 130688 |

Used in combination with Adjustable Top Plate.



## Wall Support Side Plates J21D2

|          |        |        |        |        |        |        |        |        |        |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| B        | 215    | 2355   | 265    | 285    | 315    | 335    | 365    | 385    | 440    |
| C        | 145    | 165    | 195    | 215    | 245    | 265    | 295    | 315    | 370    |
| D        | 470    | 470    | 470    | 470    | 470    | 470    | 470    | 470    | 470    |
| E        | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    |
| SAP Code | 101042 | 101043 | 101044 | 101045 | 101046 | 101047 | 101339 | 101048 | 101049 |

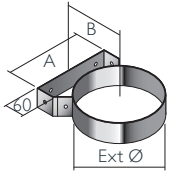
Used in combination with Adjustable Top Plate.



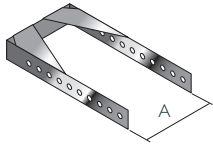
## NEW Retrofit Wall Support

|                |        |        |        |
|----------------|--------|--------|--------|
| Int Ømm        | 100    | 130    | 150    |
| Ext Ømm        | 150    | 180    | 200    |
| A              | 300    | 315    | 325    |
| SAP Code Black | 169696 | 169697 | 169698 |
| SAP Code Plain | 169699 | 169700 | 169701 |

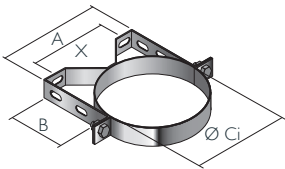
# Support Components



| Wall Band (60mm) |        |        |        |        |        |        |        |        | 92930  |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm          | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm          | 130    | 150    | 180    | 200    | 235    | 256    | 280    | 300    | 350    |
| A                | 128    | 148    | 178    | 198    | 228    | 248    | 278    | 298    | 350    |
| B                | 125    | 135    | 150    | 160    | 175    | 180    | 200    | 210    | 235    |
| SAP Code         | 125497 | 125898 | 126648 | 127213 | 127764 | 128205 | 128633 | 128707 | 129140 |

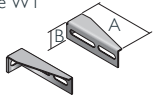


| Adjustable Back Bracket for Wall Band 60 - 300mm |        |        |        |        |        |        |        |        | 95950  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm  | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm  | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A  | 131    | 151    | 181    | 201    | 231    | 251    | 281    | 301    | 351    |
| SAP Code   | 125488 | 125890 | 126623 | 127199 | 127754 | 128196 | 128624 | 128697 | 129130 |

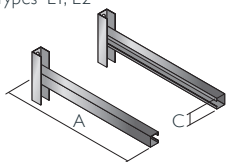


| Structural Wall Band (50mm) |        |        |        |        |        |        |        |        | 95430  |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm                     | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm                     | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| A                           | 138    | 158    | 188    | 208    | 238    | 258    | 288    | 308    | 358    |
| B                           | 116    | 126    | 141    | 151    | 166    | 176    | 191    | 201    | 225    |
| Ø Ci                        | 131    | 151    | 181    | 201    | 231    | 251    | 281    | 301    | 350    |
| X                           | 100    | 120    | 150    | 170    | 200    | 220    | 250    | 270    | 320    |
| SAP Code                    | 101263 | 101264 | 101265 | 101266 | 101267 | 101268 | 101402 | 101269 | 101270 |

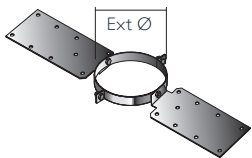
Type W1



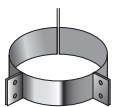
Types L1, L2



| Structural Wall Band Extension |  |        |         | W1 - 95440001 | L1 - 95440004 | L2 - 95440005 |
|--------------------------------|--|--------|---------|---------------|---------------|---------------|
| Type                           |  | W1     | L1      | L2            |               |               |
| Adj.                           |  | 55-100 | 100-250 | 100-440       |               |               |
| A                              |  | 130    | 300     | 450           |               |               |
| B                              |  | 36     | -       | -             |               |               |
| C                              |  | -      | 32      | 32            |               |               |
| SAP Code                       |  | 101735 | 143846  | 143847        |               |               |



| Roof Support |        |        |        |        |        |        |        |        | 94640  |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm      | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm      | 130    | 150    | 180    | 200    | 235    | 256    | 280    | 300    | 350    |
| SAP Code     | 100960 | 100961 | 100962 | 100963 | 100964 | 100965 | 100966 | 100967 | 129146 |

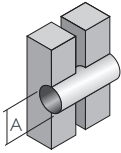


| Guy Wire Bracket |        |        |        |        |        |        |        |        | 95900  |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm          | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm          | 130    | 150    | 180    | 200    | 235    | 256    | 280    | 300    | 350    |
| SAP Code         | 100639 | 100640 | 100641 | 100642 | 100643 | 100644 | 128627 | 100646 | 129134 |

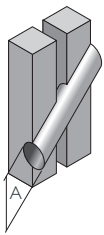


| Ceiling Hanger |        |        |        |        |        |        |        |        | 95750  |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm        | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm        | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| SAP Code       | 110118 | 110199 | 110392 | 112037 | 112279 | 112503 | 128623 | 112870 | 129129 |

# Support Components

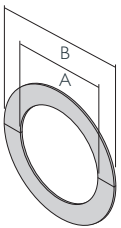


| Wall Sleeve 90°   | Masonry - 94980      |        |        |        |        |        |        |        |        |  |
|-------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|                   | Timber Frame - 94810 |        |        |        |        |        |        |        |        |  |
| Int Ømm           | 80                   | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |  |
| Ext Ømm           | 130                  | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |  |
| A Masonry         | 180                  | 200    | 230    | 250    | 280    | 300    | 330    | 350    | 400    |  |
| A Timber          | 250                  | 270    | 300    | 320    | 350    | 370    | 200    | 420    | 470    |  |
| SAP Code Masonry  | 125493               | COA    | 126642 | 127206 | 127760 | 128201 | COA    | 128703 | 129137 |  |
| SAP Code Timber F | 125496               | 125897 | 126647 | 127212 | 127763 | 128204 | 128632 | 128706 | 129139 |  |

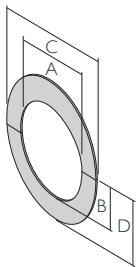


| Wall Sleeve 45°   | Masonry - 94620      |        |        |        |        |        |        |        |  |  |
|-------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--|--|
|                   | Timber Frame - 94910 |        |        |        |        |        |        |        |  |  |
| Int Ømm           | 80                   | 100    | 130    | 150    | 180    | 200    | 230    | 250    |  |  |
| Ext Ømm           | 130                  | 150    | 180    | 200    | 230    | 250    | 280    | 300    |  |  |
| A Masonry         | 180                  | 200    | 230    | 250    | 280    | 300    | 330    | 350    |  |  |
| A Timber          | 250                  | 270    | 300    | 320    | 350    | 370    | 200    | 420    |  |  |
| SAP Code Masonry  | 125492               | 125894 | 126641 | 127205 | 127759 | 128200 | 128629 | 128702 |  |  |
| SAP Code Timber F | 125494               | 125895 | 126642 | 127207 | 127761 | 128202 | 128630 | 128704 |  |  |

Supplied as a 1m long mitred tube to be cut to length on site.



| 2 - Piece Trim Collar 90° | 9599    |        |        |        |        |        |        |        |     |  |
|---------------------------|---------|--------|--------|--------|--------|--------|--------|--------|-----|--|
|                           | Int Ømm | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250 |  |
| Ext Ømm                   | 130     | 150    | 180    | 200    | 230    | 250    | 280    | 300    |     |  |
| A                         | 134     | 154    | 184    | 204    | 234    | 254    | 284    | 304    |     |  |
| B                         | 280     | 300    | 330    | 350    | 380    | 400    | 430    | 450    |     |  |
| SAP Code Plain            | 125719  | 126338 | 127040 | 127644 | 128057 | 128512 | 128649 | 129007 |     |  |
| SAP Code Black            | 125720  | 126339 | 127041 | 127645 | 128058 | 128513 | 128650 | 129008 |     |  |



| 2 - Piece Trim Collar 45° | 9579    |        |        |        |        |        |        |        |     |  |
|---------------------------|---------|--------|--------|--------|--------|--------|--------|--------|-----|--|
|                           | Int Ømm | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250 |  |
| Ext Ømm                   | 130     | 150    | 180    | 200    | 235    | 256    | 280    | 300    |     |  |
| A                         | 134     | 154    | 184    | 204    | 234    | 254    | 284    | 304    |     |  |
| B                         | 94      | 108    | 130    | 144    | 165    | 179    | 200    | 214    |     |  |
| C                         | 280     | 300    | 330    | 350    | 380    | 400    | 430    | 450    |     |  |
| D                         | 192     | 206    | 227    | 242    | 263    | 277    | 298    | 312    |     |  |
| SAP Code Plain            | 125717  | 126335 | 127035 | 127639 | 128055 | 128510 | 128647 | 129004 |     |  |
| SAP Code Black            | 125718  | 126336 | 127036 | 127640 | 128056 | 128511 | 128648 | 129005 |     |  |

# Loft Guard



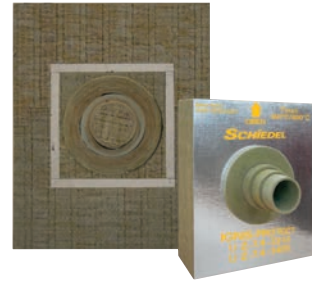
| Loft Guard |     |     |        |        |        |        |     |     |     |   |
|------------|-----|-----|--------|--------|--------|--------|-----|-----|-----|---|
| Int Ømm    | 80  | 100 | 130    | 150    | 180    | 200    | 230 | 250 | 300 |   |
| Ext Ømm    | 130 | 150 | 180    | 200    | 230    | 250    | 280 | 300 | 350 |   |
| Ø A        | -   | -   | 300    | 320    | 350    | 370    | -   | -   | -   | - |
| SAP Code   | -   | -   | 137464 | 137464 | 137465 | 137465 | -   | -   | -   | - |



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

# Ignis-Protect

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



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



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

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

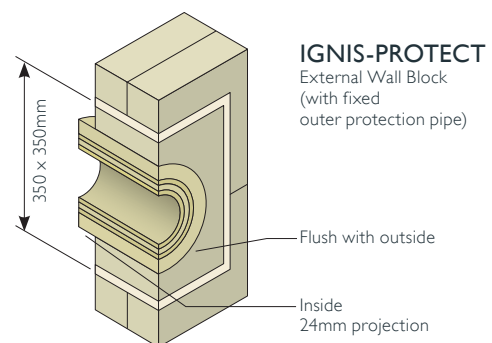
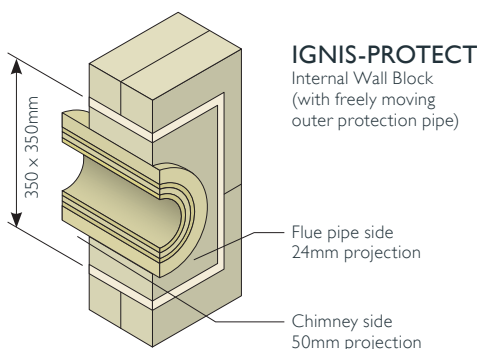


**IGNIS-PROTECT,**  
Winner of Best Product Award  
Hearth & Home Exhibition.

## Product Description

### PRODUCT FEATURES

- Suitable for SW and DW connecting flue pipes passing through interior or exterior walls made of combustible materials
- Available in two versions:
  - **For exterior walls** (with aluminium laminate on inside face)
  - **For interior walls** (without aluminium laminate and with an extended removable core)
- Available in both 90° and 45° versions
- For flue gas temperature up to:
  - 450 °C for SW connecting flue pipes (T450)
  - 600 °C for DW connecting flue pipes(T600)
- Max. 100 °C surface temperature during soot fire
- Monolithic component made of mineral wool, density 120 kg/m<sup>3</sup>, building material class A1
- Internal face finished with aluminium laminate
- External face made with textured surface to facilitate facade rendering
- Removable pipe sections DN 130, 150, 180, 200 mm  
IGNIS-PROTECT can be used without any additional protection
- Available in a range of standard wall thickness's between 100mm -500mm



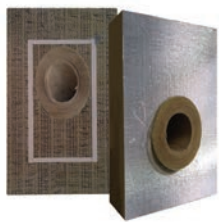
## Approvals

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

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

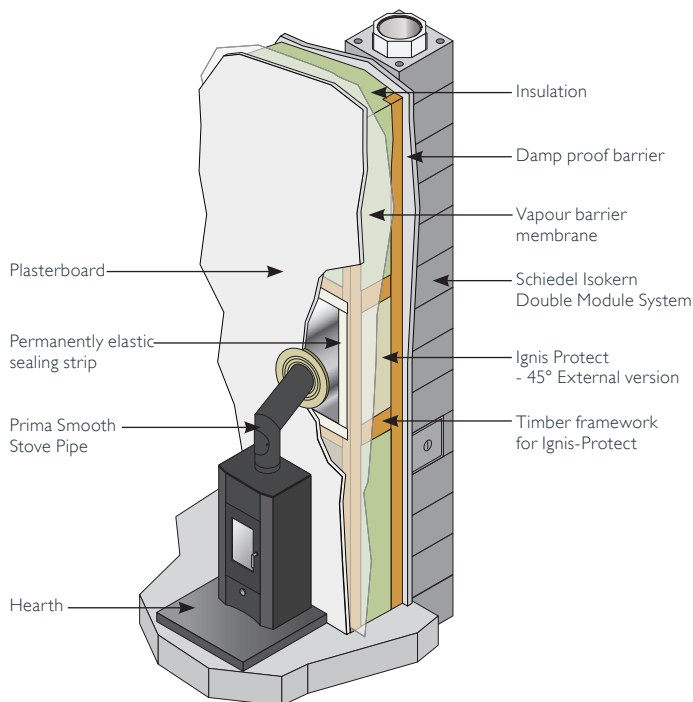
# Ignis-Protect

(for air tight wall penetration)

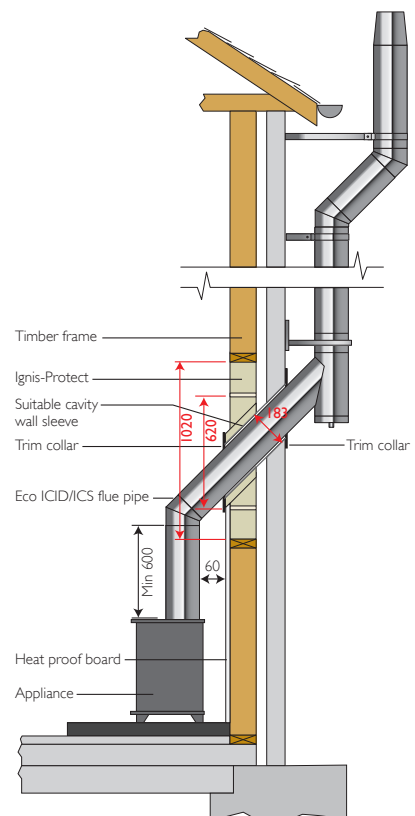


| SAP Code                         | Thickness (mm) | Height (mm) | Width (mm) | Pallet Quantity |
|----------------------------------|----------------|-------------|------------|-----------------|
| <b>Ignis-Protect 90° Version</b> |                |             |            |                 |
| 101841                           | 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               |

## IGNIS-PROTECT 45° VERSION



## IGNIS-PROTECT ICS ON TRADITIONAL TIMBER FRAME WALL



# Protect Box

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

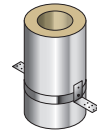
- Ever more air tight construction
- Increasing depth of loft insulation



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

## PRODUCT FEATURES

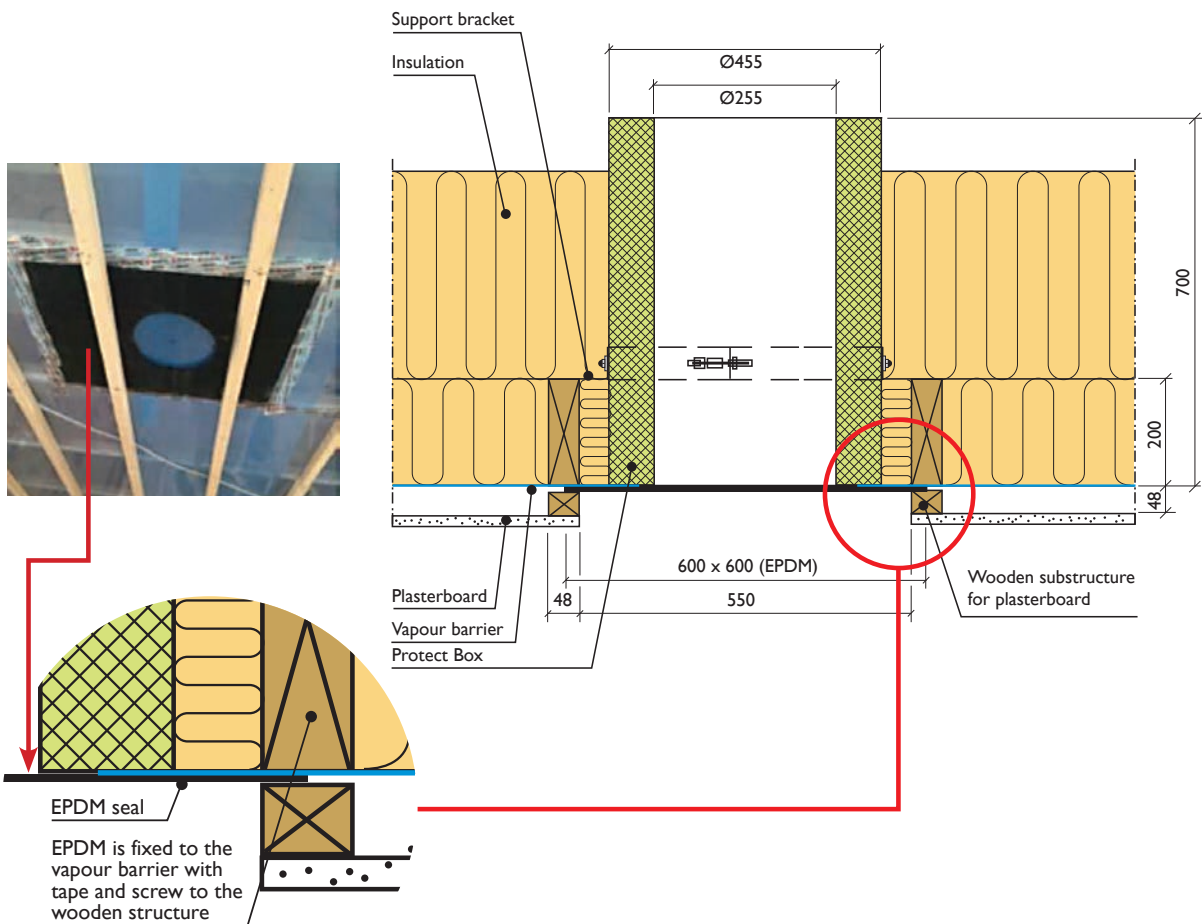
- Designed to meet blower door test.
- Constructed using a high temperature resistant rock wool insulation with an aluminium laminate outer surface to give zero distance to combustibles.
- An EPDM kit is available to allow for the chimney to pass through an air tight membrane at ceiling level in a cold roof construction or at roof level in a warm roof construction.
- Standard height 700 mm to meet new roof insulation requirements.



| Protect Box |        |
|-------------|--------|
| SAP Code    | 121342 |



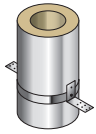
| EPDM Seal |        |
|-----------|--------|
| SAP Code  | 136939 |



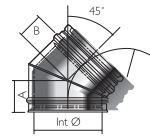


# Protect Box and Accessories

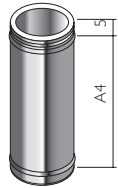
(for air tight ceiling/roof penetration)



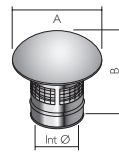
| Protect Box |        |
|-------------|--------|
| Int Ømm     | 251    |
| Ext Ømm     | 451    |
| SAP Code    | 121342 |



| Bends             |        |
|-------------------|--------|
| Int Ømm           | 150    |
| Ext Ømm           | 250    |
| SAP Code 45° Bend | 104804 |



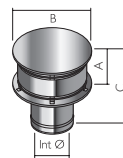
| Pipes            |        |
|------------------|--------|
| Int Ømm          | 150    |
| Ext Ømm          | 250    |
| SAP Code 1000 mm | 104784 |
| SAP Code 500 mm  | 104779 |
| SAP Code 250 mm  | 104774 |



| Raincaps           |        |
|--------------------|--------|
| Int Ømm            | 150    |
| Ext Ømm            | 250    |
| SAP Code No Mesh   | 126241 |
| SAP Code With Mesh | 126240 |



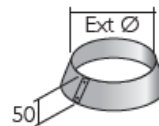
| EPDM Seal |        |
|-----------|--------|
| SAP Code  | 136939 |



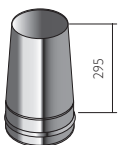
| Anti Drawdown Term. With Mesh |        |
|-------------------------------|--------|
| Int Ømm                       | 150    |
| Ext Ømm                       | 250    |
| SAP Code                      | 115244 |



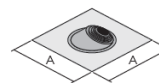
| Roof Support |        |
|--------------|--------|
| Int Ømm      | 150    |
| Ext Ømm      | 250    |
| SAP Code     | 100965 |



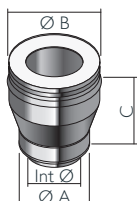
| Storm Collar |        |
|--------------|--------|
| Int Ømm      | 150    |
| Ext Ømm      | 250    |
| SAP Code     | 106143 |



| Tapered Terminal |        |
|------------------|--------|
| Int Ømm          | 150    |
| Ext Ømm          | 250    |
| SAP Code         | 114311 |



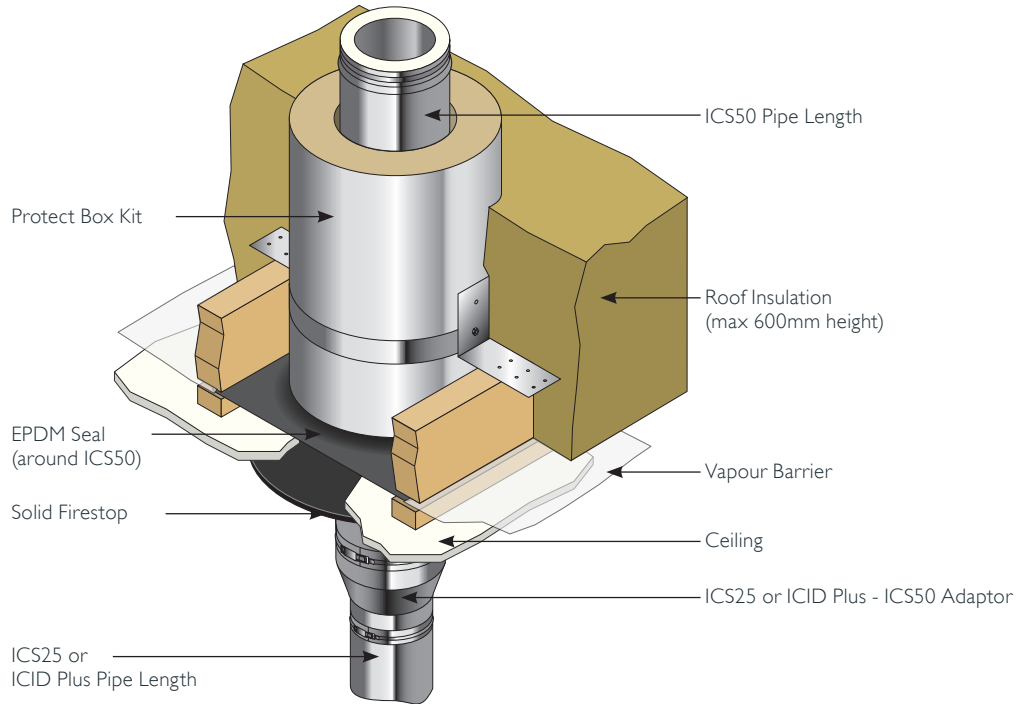
| Uniflash |         |
|----------|---------|
| Int Ømm  | 150-300 |
| A        | 685     |
| SAP Code | 112197  |



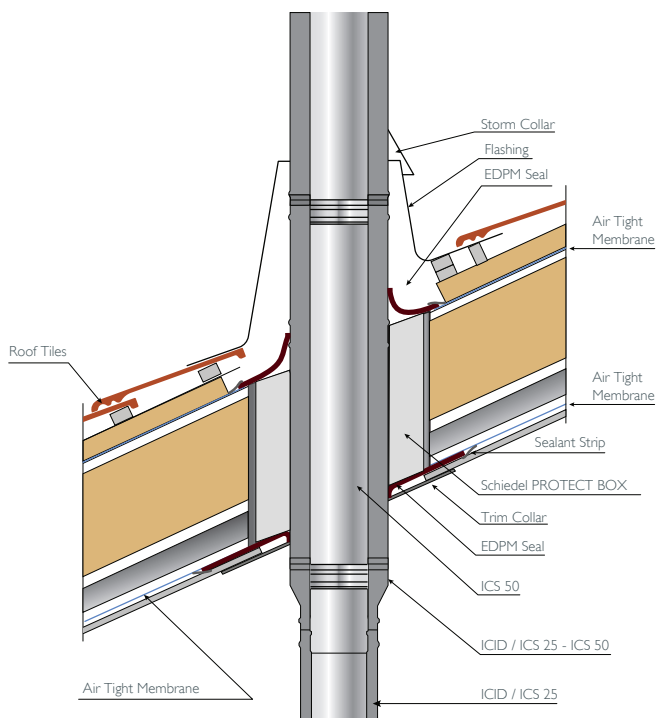
| ICS25 - ICS50 Adaptor |        |
|-----------------------|--------|
| Int Ømm               | 150    |
| Ø A                   | 201    |
| Ø B                   | 251    |
| C                     | 195    |
| SAP Code Plain        | 114484 |

# Typical Installations

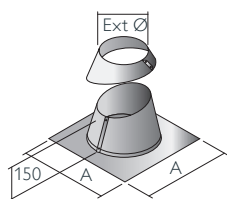
## PROTECT BOX IN SITU



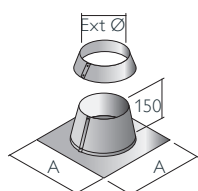
## SCHIEDEL PROTECT BOX THROUGH PITCHED ROOF



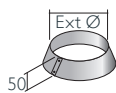
# Flashings



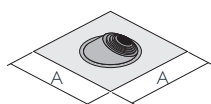
| Angled Flashing Kit 5° - 45° |        |        |        |        |        |        |        |        | 95510  |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm                      | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm                      | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| Ø A                          | 610    | 610    | 610    | 700    | 700    | 700    | 800    | 800    | 860    |
| SAP Code                     | 125487 | 125889 | 126621 | 127197 | 127753 | 128195 | 128622 | 120884 | 129128 |



| Flat Flashing Kit |        |        |        |        |        |        |        |        | 95530  |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm           | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm           | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| Ø A               | 610    | 610    | 610    | 610    | 610    | 610    | 610    | 610    | 800    |
| SAP Code          | 125490 | 125892 | 126625 | 127201 | 127756 | 128192 | 128626 | 128699 | 129132 |

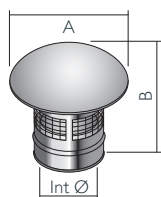


| Storm Collar |        |        |        |        |        |        |        |        | 95560  |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Int Ømm      | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300    |
| Ext Ømm      | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350    |
| SAP Code     | 106136 | 106138 | 106140 | 106141 | 106142 | 106143 | 100975 | 106144 | 106145 |

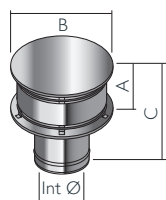


| Uniflash  |          |          |          |
|---|----------|----------|----------|
| Product Code  | 94540001 | 94540002 | 94540003 |
| Ext Ømm   | 80-100   | 150-300  | 250-450  |
| A   | 500      | 685      | 800      |
| SAP Code  | 112198   | 112197   | 114341   |
| Universal EPDM rubber/aluminium flashing. Just pull the required diameter tab on the rubber seal. |          |          |          |

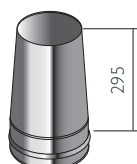
# Terminals



| Raincap               |        |        |        |        |        |        |        |        | with 15mm mesh ICS J2137<br>without mesh ICS J2156 |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Ext Ømm               | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300  |
| Int Ømm               | 130    | 150    | 180    | 200    | 230    | 250    | 280    | 300    | 350  |
| A                     | 266    | 266    | 266    | 362    | 362    | 362    | 362    | 362    | 490  |
| B                     | 210    | 213    | 219    | 213    | 217    | 220    | 225    | 229    | 271  |
| SAP Code with mesh    | 112769 | 113085 | 113534 | 114970 | 115364 | 115702 | 116037 | 116222 | 117060   |
| SAP Code without mesh | 112499 | 112795 | 113183 | 114575 | 115005 | 115242 | 115729 | 115942 | 116792   |



| Anti-splash Anti-draught Terminal (Gastec Approved) |     |     |         |        |        |        |        |        | with 15mm mesh ICS J2144<br>without mesh ICS J2143 |
|---|-----|-----|---------|--------|--------|--------|--------|--------|--|
| Ext Ømm   | 80  | 100 | 130     | 150    | 180    | 200    | 230    | 250    | 300  |
| Int Ømm   | 130 | 150 | 180     | 200    | 230    | 250    | 280    | 300    | 350  |
| A   | -   | -   | 130     | 175    | 200    | 200    | 250    | 275    | 330  |
| B   | -   | -   | 254     | 304    | 359    | 409    | 459    | 509    | 609  |
| C   | -   | -   | 220     | 265    | 290    | 290    | 340    | 365    | 420  |
| SAP Code with mesh                                  | -   | -   | 114904  | 115166 | 116258 | 116970 | 117466 | 118025 | 118645   |
| SAP Code without mesh                               | -   | -   | 1143552 | 114830 | 115893 | 116496 | 117167 | 117700 | 118432   |



| Insulated Tapered Terminal |        |        |        |        |        |        |        |        | ICS J2138 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Int Ømm                    | 80     | 100    | 130    | 150    | 180    | 200    | 230    | 250    | 300       |
| Ext Ømm                    | 130    | 150    | 180    | 200    | 235    | 256    | 280    | 300    | 350       |
| SAP Code                   | 120565 | 148392 | 101214 | 101215 | 101216 | 101217 | 114420 | 114704 | 115212    |

# Installation

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

## MANDATORY REQUIREMENTS

Connection to an appliance which is not connected to the fuel supply, may be carried out by a competent person. However, connection to an appliance that is connected to the fuel supply must be carried out by a GAS SAFE (gas) or OFTEC (oil) registered installer. We recommend the use of HETAS approved installers for solid fuel applications.

The flue system must be installed to comply with Building Regulations Document J (in England, Wales & Northern Ireland). Separate Building Regulations apply in Scotland. The installation must also comply with BS EN15287 Parts 1 & 2 and BS5440 pt 1: 2000 for gas flues up to 70kW.

## JOINTING

Pipes, bends, tees and flue gas carrying components are joined together by a simple push fit. The joint is then secured by fitting a locking band. The male spigot should be uppermost and pointing in the direction of the terminal as indicated on the product label. All components with a female form will be supplied with a locking band.

Gaskets must be used for ICS Plus (ordered separately and are required for high efficiency and condensing applications) and should be fitted dry and lubrication applied to the internal of the female liner socket.

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

## ADJUSTABLE LENGTH

The ICS range of adjustable pipes provides flexibility during installation. Assembly is achieved by the removal of the insulation (if necessary) to the desired length, and is then secured using the jointing band supplied. The adjustable length is not load-bearing, therefore adequate support must be provided immediately above.

## CONNECTION TO APPLIANCE

Use the appropriate appliance connector, sealing with fire rope and fire cement or high temperature sealant on solid fuel appliances and the appropriate lip seal in the case of condensing appliances. The inner liner should not project below the appliance outlet spigot and can be cut to length if required.

## APPLIANCE REMOVAL

Use of the SW-DW Adjustable Starter pipe or one of the DW Adjustable Starter Sections immediately above the appliance enables removal of the appliance later without dismantling the full system.

## PAINTING

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

## ENCLOSURES/SHAFTS

With the exception of the room containing the appliance, where the chimney passes through any part of the building, where there is a risk of accidental human contact, i.e. a bedroom etc., or where there is a risk of contact with combustible materials stored in a cupboard or in the roof-space, the chimney must be enclosed in an appropriate way to meet Building Regulations. This can be achieved by boxing in the chimney in habitable rooms, or by the use of a protective wire mesh frame in roof spaces etc. In all cases the minimum distance to any combustible material, including loft insulation, must be respected according to the table on p.3, and any enclosure should be ventilated using the appropriate ventilated fire stops (see p.18).

## SUPPORT COMPONENTS

The weight of a chimney system is considerable and requires independent support. Minimal weight should be taken by the appliance. The weight of the chimney can be supported from floor level using a Base support plate or Telescopic floor support; from the wall by using the Retrofit Wall Support or wall support top plates together with side plates or cantilever brackets; or from first floor level using a support plate and clamp fixed to the floor/ceiling joist.

Wall brackets and roof brackets are not load bearing and provide lateral support only.

Refer to load bearing tables on p.29 for full details of maximum loadings.

## STRUCTURAL LOCKING BAND

Where the flue is free standing above the roof and its height exceeds 1.5m beyond the last support or the roof, a guy wire bracket must be used, and every 1.5m thereafter. Alternatively, a height of up to 3m can be achieved unsupported with the use of a structural locking band at the joint immediately below the last support and on every joint above the roof level.

# Installation

## DISTANCE TO COMBUSTIBLES

In accordance with building regulations its is essential that the correct distance to combustible material is maintained. On solid fuel applications, where there is a risk of soot fire, a distance of 60mm to combustibles must be maintained within a combustible floor and within a combustible shaft (see Fig.1). There is no need to line the area within the floor cavity with plasterboard; however the ventilated fire stop plate and ventilated support plate must be used.

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

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

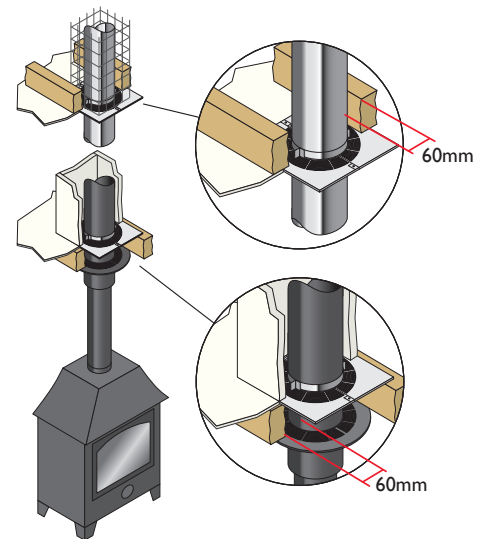
On condensing appliances, where temperatures will not exceed 200°C, the tested and approved distance to combustibles is zero mm.



For a direct link to the ICS Installation Instructions scan the QR code.

## TYPICAL INSTALLATION OF ICS25 THROUGH A COMBUSTIBLE FLOOR & SHAFT

**Fig. 1**  
Distance to combustibles from outer case of chimney



# Load Bearing Data

| Maximum Load Bearing (metres of pipe) |                 |         |         |     |
|---------------------------------------|-----------------|---------|---------|-----|
| Internal Diameter (mm)                | 80-130          | 150-180 | 200-250 | 300 |
| Retrofit Wall Support                 | 10m up to 150mm | -       | -       | -   |
| Base Drain Section                    | 22              | 18      | 18      | 18  |
| Drain Plug Support                    | 18              | 18      | 18      | 18  |
| Adjustable Top Plate + Locking Band   | 15              | 15      | 15      | 15  |
| Telescopic Floor Support              | 18              | 18      | 18      | 18  |
| Pair of Side Plates (see diagram A)   | 15              | 15      | 15      | 15  |
| Pair of Side Plates (see diagram B)   | 10              | 10      | 10      | 10  |
| Cantilever Support                    | 22              | 18      | 18      | 18  |
| Extension Support (Anchor Plate)      | 1.5             | 1.5     | 1.5     | 1.5 |
| Ventilated Support Plate (All types)  | 12              | 12      | 9       | -   |
| Support Plate                         | 12              | 12      | 9       | -   |
| Ceiling Hanger                        | 1.5             | 1.5     | 1.5     | 15  |
| Wall Band 50/60mm                     | 3               | 3       | 3       | 3   |
| Adjustable Wall Band 60-300mm         | 3               | 3       | 3       | 3   |
| Structural Wall Band                  | 4               | 4       | 4       | 4   |
| Extension for Structural Wall Band    | 4               | 4       | 4       | 4   |
| Guy Wire Bracket                      | 1.5             | 1.5     | 1.5     | 1.5 |
| Roof Support (above truss)            | 6               | 6       | 6       | 5   |
| Roof Support (below truss)            | 4               | 4       | 4       | 3   |
| 90° Tee + Locking Band                | 22              | 18      | 18      | 18  |
| 93° Tee + Locking Band                | 22              | 18      | 18      | 18  |
| 135° Tee + Locking Band               | 15              | 10      | 10      | 10  |
| Inspection Tee (Round)                | 22              | 18      | 18      | 18  |

| Approximate Weights of Products (Kg) |            |       |      |      |      |
|--------------------------------------|------------|-------|------|------|------|
| Internal Diameter                    | Length(mm) | 1000  | 500  | 250  | 195  |
| 80                                   |            | 4.32  | 2.13 | 1.09 | 0.85 |
| 100                                  |            | 5.14  | 2.53 | 1.29 | 1.01 |
| 130                                  |            | 6.35  | 3.14 | 1.60 | 1.24 |
| 150                                  |            | 7.18  | 3.54 | 1.86 | 1.41 |
| 180                                  |            | 8.40  | 4.14 | 2.11 | 1.65 |
| 200                                  |            | 9.22  | 4.55 | 2.31 | 1.80 |
| 230                                  |            | 10.44 | 5.13 | 2.62 | 2.03 |
| 250                                  |            | 11.24 | 5.53 | 2.81 | 2.19 |
| 300                                  |            | 15.08 | 7.58 | 3.44 | 2.47 |

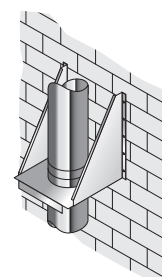


Diagram A

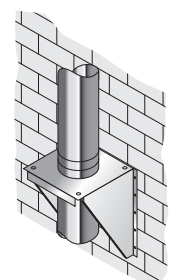


Diagram B

# After Installation

## TESTING BEFORE USE

This is carried out using a flue flow test as described in BS EN 15287 parts 1 & 2, with reference to the appropriate appliance type.

## MAINTENANCE

It is essential that the flue way be kept clear at all times in the interest of good practice and health, safety and appliance performance. The system should be checked regularly during the appliance maintenance.

(Refer to appliance manufacturer's instructions).

# Product Guarantee

Under normal operating conditions and providing the system is installed correctly, it should last the lifetime of the appliance which is normally 10 years. ICS carries a 10 year conditional guarantee.

The conditions are that the chimney is:

- Correctly sized and installed in accordance with the Schiedel Rite-Vent and appliance manufacturer's instructions.
- Properly maintained.
- Burning only approved fuels.

For recommended fuels listings, please refer to the HETAS guide ([www.hetas.co.uk](http://www.hetas.co.uk)), or appliance manufacturer's instructions. Warranty registration details are provided with installation instructions for completion and registration with Schiedel Rite Vent.

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

# 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 guarantees and also to start earning points!



# Useful Guides

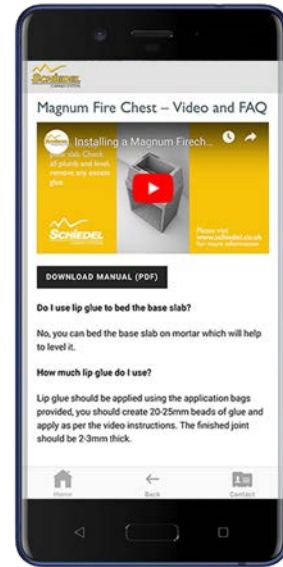
## THE SCHIEDEL INSTALLATION APP

This handy mobile guide can be used on mobile devices and touch-screen 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.

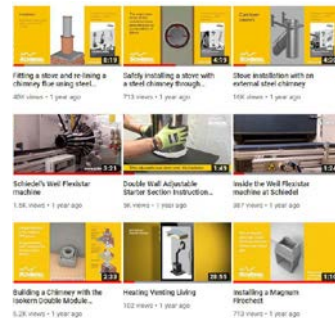
Download the iPhone and iPad version in the App Store and Android version in the Google Play Store.



## YOUTUBE TV CHANNEL

The Schiedel YouTube TV Channel contains a number of videos showing installation examples in easy to understand 3D diagrams.

Visit the channel today to learn more  
Search for "Schiedel UK" in YouTube to find us.



## DOWNLOADS SPECIALIST CENTRE

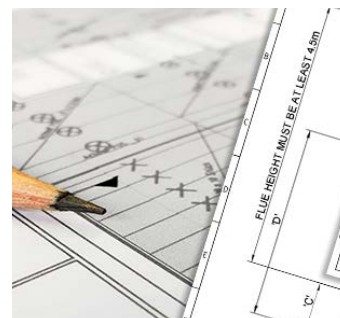
We have a comprehensive range of CAD cells, typical installations using Isokern Pumice components and other diagrams, which are ideal resources for architects and builders when designing a chimney system for a new build or renovation.

## SCHIEDEL BIM CATALOGUE AND APP

A range of Schiedel Products for Commercial and Residential are now available within our new 3D BIM (Building Information Modelling) Catalogue. All BIM and AEC CAD formats, like Autodesk Revit, Nemetschek Allpan and Grafisoft Archicad for the respective CAD systems are available to engineers, planners and purchasers for free.

You can visit the Google, Apple and Windows App Stores and search for Cadenas to download the 3D CAD Models and then within the App, search for "Schiedel"

All this information is also available when you 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.



# Complementary Products And Services From Schiedel Chimney Systems



## ICS

Twin Wall Insulated System Chimney for gas, oil and multi-fuel applications.

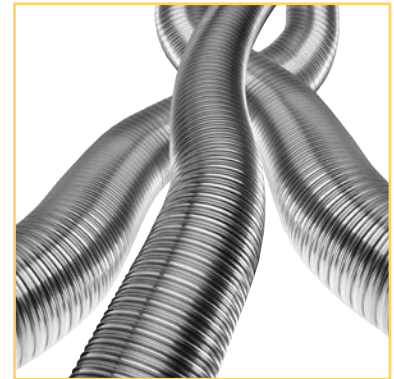
- Capillary break prevents moisture being drawn through the joint
- 80-300mm Diameter range



## PRIMA PLUS

Single Wall Stainless Steel Flue System

- Prima Plus available 0,6mm or 1mm options for domestic multi-fuel stoves
- Prima Plus for large residential & commercial condensing gas & oil appliances & chimney relining
- 80-300mm Diameter range



## TECNOFLEX PLUS

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

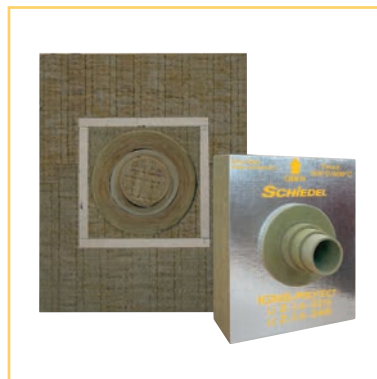
- Twin skin TecnoFlex Plus available in 316L or 904L options
- 80-300mm Diameter range



## 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



## IGNIS-PROTECT

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



## DM & LINERS

Pumice System Chimneys, Firechests and Liners.

- Pumice is a natural insulator, able to maintain the temperature of flue gases
- Lightweight – allowing one person to lift and build the chimney units
- Pumice expands and contracts less with temperature change than other chimney systems.



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schiedel.com/uk

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