

Making sense of the CE Designations

One of the key features of the European Standard for metal chimneys (EN 1856) is a user-readable classification system that designates the features of the product.

A label showing the classification must go with each flue component. Understanding the classification can make the job of selecting the right flue much easier and will allow you to compare different flues. It's easy to use so long as you know the keys. The diagram below unlocks the coded information.

Picking out a few of the main points:

Temperature rating Maximum temperature (°C) for continuous use of the flue. T450 is suitable for multi-fuel. T200 is suitable for gas and oil.

Corrosion resistance This is fuel dependent as follows; **V1** Resistant to attack from products of combustion from gas

 $\mbox{\bf V2}$ Resistant to attack from products of combustion from light oil (sulphur content up to 0.2%) and natural wood

V3 Resistant to attack from products of combustion from heavy oil (sulphur content > 0.2%), solid fuels and peat

VM Not tested but rating declared by the manufacturer

Liner material and thickness 316L, is the highest quality grade and is expected to withstand the corrosion effect of multi-fuel, wood or heavy oil. The code for 316L is L50. Light oil is less corrosive and normally 304 (L20) has proved adequate in dry conditions, but in the increasingly common wet conditions created by high efficiency condensing boilers, the higher grade is required (316L). The thickness is the steel thickness in mm.

Soot fire resistance and distance to combustibles Expressed as either G, for soot fire resistance or O for not, followed by the declared minimum distance to combustibles expressed in mm. To obtain the G classification means that the product has been tested at 1000°C for 30 minutes and remains intact. The temperature of combustible material at the designated distance must not exceed 100°C at an ambient temperature of 20°C.

A fuller explanation is available in the technical section of our web site or in our pocket sized installer's guide.

The CE Designation Marking System is laid out as follows:

Motal chimney system	EN 1856:	T450	N ₁ 1	W	V2	£50	050	Ģ	75
Product Description									
Standard Number									
Temperature Rating									
Pressure Rating									
(N = Negative, P = Pressure, H									
Condensate Resistance									
(W = Wet, D = Dryl									
Corrosion Resistance									
Liner Material									
Material Thickness									
Soot Fire Resistance									
Distance to combustible	oti								
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Schiedel Rite-Vent

Crowther Estate
Washington
Tyne & Wear NE38 OAQ
Tel. +44 (0)191 416 1150
Fax. +44 (0)191 415 1263
sales@schiedelrite-vent.co.uk
www.schiedelrite-vent.co.uk

Schiedel Chimney Systems

Carrickmacross
Co. Monaghan
Ireland
Tel. +353 (0)42 966 1256
Fax. +353 (0)42 966 2494
office@schiedel.ie
www.schiedel.ie



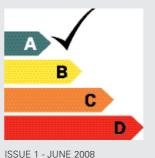






Choosing the right flue for your stove

- Well performing appliance
- Energy efficient
- Low CO₂ output when burning wood
- For new houses and existing ones





Helping you choose the right chimney/flue.

The purpose of this booklet is to guide you to the correct flue for an appliance. The 3 types of stainless steel flue, Twin Wall, Single Wall and Flexible Liner have been designed for different applications and you must install the right one for the appliance.

ICS

Twin wall insulated chimney system for new flues in new and existing houses. Suitable for wood, oil, gas and solid fuel.



Prima Plus 1mm

Single wall stainless steel flue system for use as an alternative to vitreous enamel or the relining of an existing chimney. The adjustable bend is particularly useful if the stove is not directly in line with the chimney.



Flexible Liners

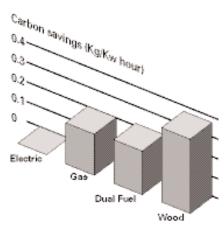
For relining existing chimneys to take gas, oil and multi-fuel stoves. Single skin Wonderflex and Triplelock for gas and oil (28 sec) stoves. Twin skin TecnoFlex for multi-fuel and wood stoves



Energy efficient, CO2 savings, Document L, SAP ...what do they all mean when I am choosing a stove?

In the drive for more efficient homes the latest revision of the Document L building regulation means that all new houses must comply with stringent new rules, aimed at reducing carbon emissions from houses by 20%.

By choosing an appropriate secondary heating appliance and an efficient chimney/flue system, you can help meet the Government's target without compromising on the cosy focal point that truly makes a house a home.



Carbon savings using other fuels compared to electricity

Lower your carbon count

Document L assumes two types of heating - primary central heating and secondary heating from room heaters. The SAP calculation used to determine the carbon emissions assumes the secondary heating to be electric.

Electricity is a more carbon intensive energy source than wood, gas or oil. Wood is the most environmentally friendly fuel you can use. The use of wood in an efficient glass fronted stove can save nearly 200Kg of carbon per year when compared to the use of an electric fire. This fact gives you the opportunity to make a carbon saving by substituting electricity with an efficient wood burning stove. You can then use this gain in carbon credits to offset against other aspects of construction like insulation or glazing.

Chimney specification

The carbon saving is further increased by using a chimney that has a diameter of less than 200mm as this reduces the air loss in the chimney by 50%. The good news is most wood burning stoves require a 150mm or 180mm chimney. Modern efficient appliances require a well insulation chimney to perform effectively.

Choosing your appliance at the planning stage is now crucial Both primary and secondary heating MUST be specified at the design stage if the required carbon savings are to be realised. This is a big change in our thinking as the choice of appliance would usually have been left until building was complete or the house occupied. If the choice is not made before the build, the SAP programme will default to the worst case scenario.

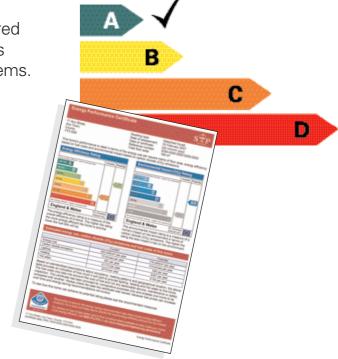
- Greater energy efficiency
- Lower carbon emissions from burning wood
- Gain carbon credits to offset against other aspects of construction
- Meet the requirements of Document L and SAP

Energy Efficiency Certificates and Home Improvement Packs

The introduction of an Energy Performance Certificate as part of the documentation required when selling a house will make home owners think about the efficiency of their heating systems.

The Energy Performance Certificate will cause people to be more thoughtful about the selection of secondary heating in an extension or when upgrading an existing appliance.

The energy efficiency certificate will contain a chart showing the efficiency rating for the house from A to G in the format we have become accustomed to for consumer goods like fridges and freezers. As the energy efficiency for the house is expressed as a single figure any saving gained from heating can be used to offset the negative effect of less environmentally friendly aspects of the house. An efficient heating appliance also needs an efficient chimney system. The key to a well performing chimney is consistent insulation along the entire length of the flue without cold spots. It is the flue's ability to keep flue gases warm that will ensure they can escape freely into the atmosphere.







HETAS is the independent UK body recognised by DEFRA for the official testing and approval of domestic solid fuels, solid fuel and wood burning appliances and associated equipment and services. Also approved by DCLG (by Statutory Instrument) to run a Competent Persons self-certification scheme for Installers of wood, biomass and solid fuel appliances/systems.

Schiedel Rite-Vent flues are HETAS approved products and should be installed by a competent person.

www.hetas.co.uk

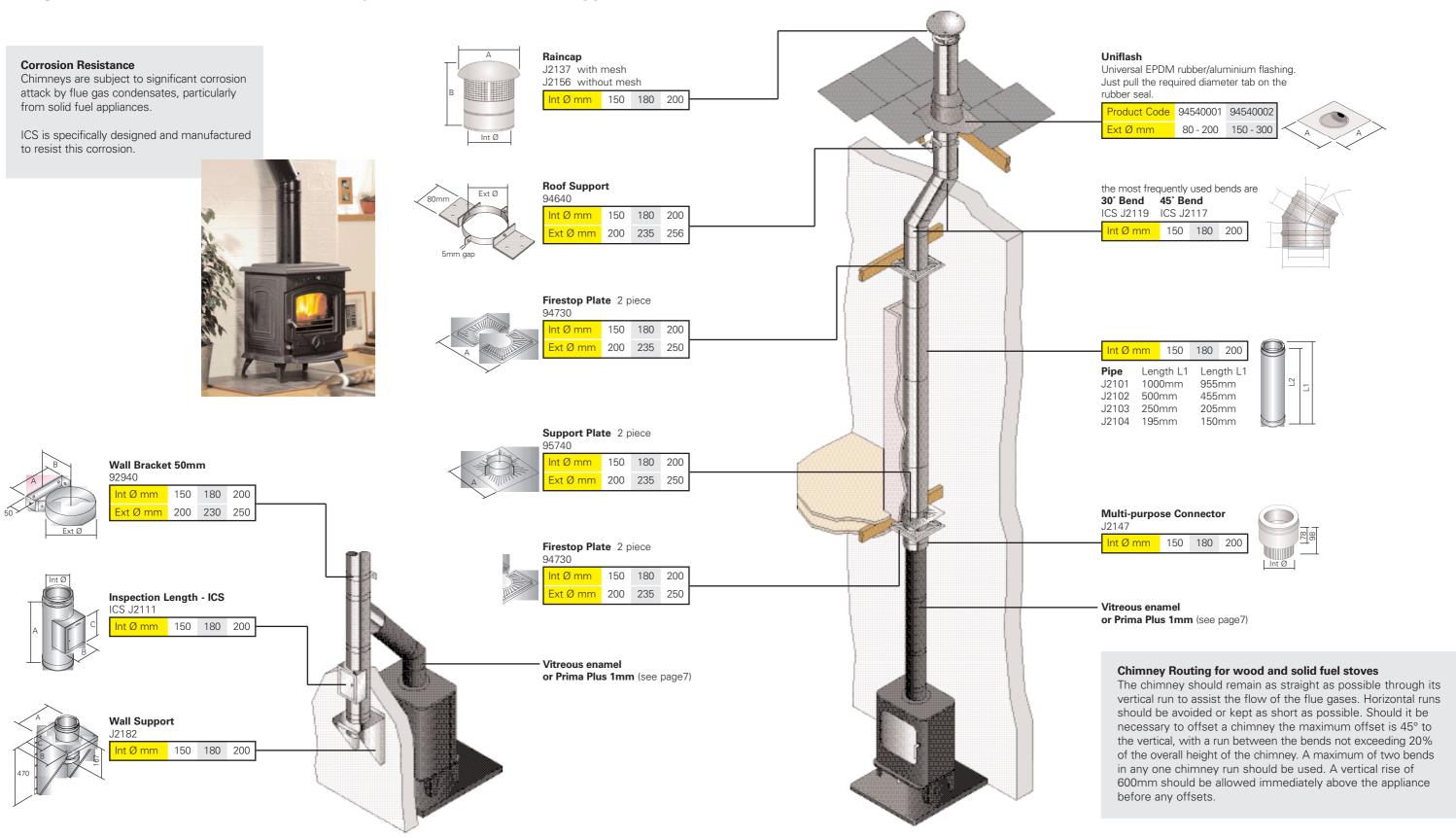


New chimneys

New chimneys

Using ICS twin wall to create a new chimney for a wood or multi-fuel appliance

External chimney



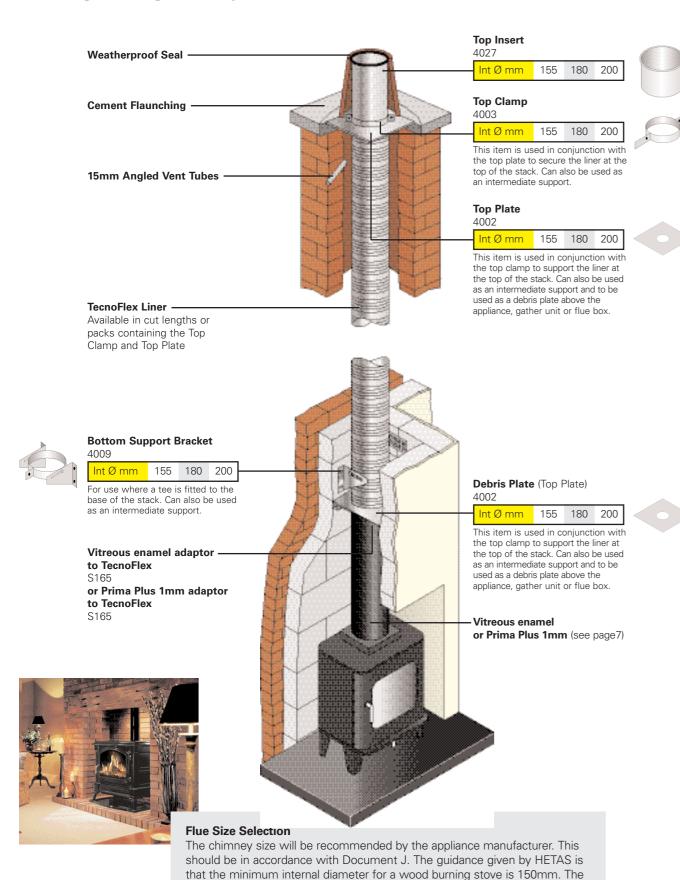
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Chimney within the house



Existing chimneys

Re-lining existing chimney with TecnoFlex for a wood or multi-fuel stove

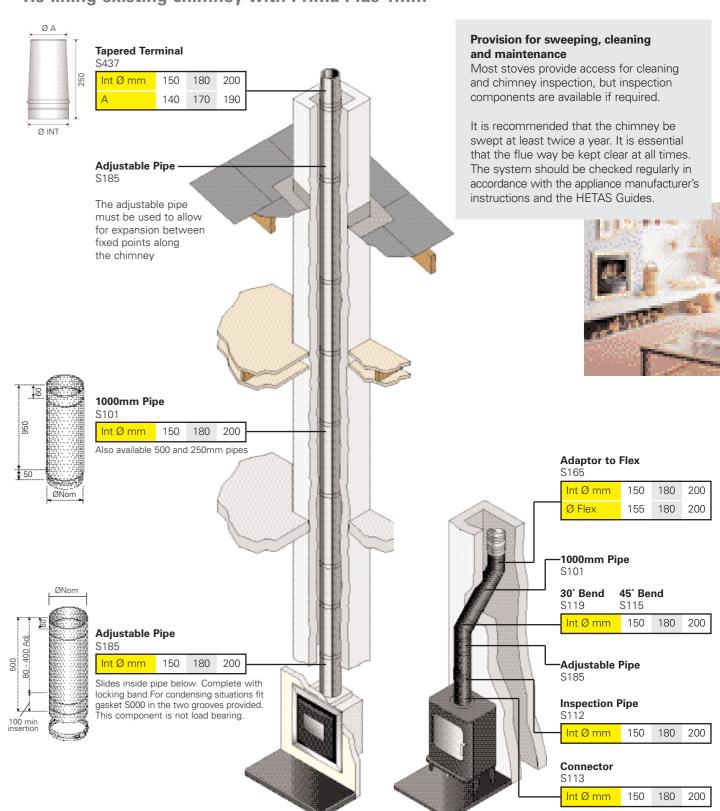


Schiedel Installer Guide is a handy reference for chimney sizes - download

a copy from our web site www.schiedelrite-vent.co.uk

Existing chimneys

Re-lining existing chimney with Prima Plus 1mm



Using Prima Plus 1mm instead of vitreous enamel

Prima can be painted to match the stove