



Wood burning open front convector



Multi fuel stove



Open fronted gas fire



Wood burning insert



## SCHIEDEL CHIMNEY SOLUTIONS TO DOCUMENT L

- Choosing the right secondary heating appliance ■
- Specifying the appropriate chimney ■
- Gaining Carbon Credits ■
- Keeping the fire at the heart of the home ■

# What does Document L mean for you?

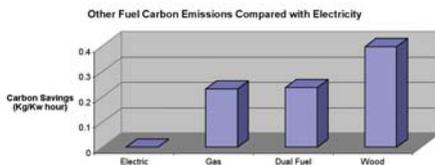
The introduction of Document L1a means that all new build developments must comply with stringent new rules, aimed at reducing carbon emissions from houses by 20%. By choosing an appropriate secondary heating appliance and an efficient chimney/flue system, you can help meet the Government's target without compromising on the cosy focal point that truly makes a house a home.



## 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, dual fuel (a mix of wood and solid fuel), gas or oil. This assumption gives you the opportunity to make a carbon saving by substituting electric with another fuel and an efficient appliance, open or glass fronted. By using a carbon efficient secondary heat source you can gain carbon credits to offset against other aspects of construction like insulation or glazing.



## Chimney specification

The carbon saving can be increased further by using a chimney that has a diameter of less than 200mm as this halves the assumed air flow in the chimney. Most modern appliances can work efficiently with a properly insulated chimney of less than 200mm. It is important to note that there is no benefit in using a flueless appliance, as the air flow will be assumed to be the same as a 200mm chimney.

## 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.

No two house designs will have the same carbon output. The shape and size of the house and the choice of construction components will determine the carbon usage, as will the efficiency of the primary and secondary heating. We have based our figures on a 100sqm detached house with a primary heating boiler efficiency of 90%.

## Benefits for builder & designer

Research shows that the fireplace is one of the features that sells a property. You can continue to give home owners what they want, and gain carbon credits that you can offset against other aspects of construction.

## Benefits for the environment

Everyone wants a cleaner, greener environment. With the introduction of Document L we can reduce the amount of emissions into the atmosphere - and it won't cost the earth.

## Benefits for the homeowner

With a growing range of modern carbon efficient appliances to choose from and the correct chimney/ flue specification, you can still have the focal point and atmosphere created by a fire.

## Efficient Chimney Systems

Efficient appliances require efficient chimneys, and an efficient chimney is one that keeps the flue gases warm, allowing them to freely escape to the atmosphere. Schiedel Isokern can offer you a range of efficient chimney systems that will create a consistently insulated chimney.

### The DM (Double Module) System

The Isokern Double Module block system is a quality chimney system, used extensively in Scandinavia and other parts of Europe. The double wall system maintains flue gas temperatures while preventing heat transference to the outer casing. It is simple and quick to build. The Double Module is available in 3 outer casing sizes - DM36, DM44 & DM54.



### The Standard Liner System

Pumice is a natural insulator, and when the liners are built in conjunction with Leca insulation they will form an efficient chimney system. The extensive range of flue diameters gives flexibility and choice.

# The convenience of gas



- Carry on with your current fires
- Enjoy the same wide choice of fires
- Lower carbon emissions
- Meets all Document L requirements
- A combined cost effective solution
- Real fire effect

## Cosy and convenient

Open fronted gas appliances can give a room all the warmth and atmosphere of a real flame fire - without the hassle!

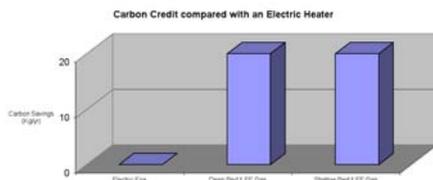
## Selecting an appliance

When selecting a secondary heating appliance under the new Document L it is important to evaluate the carbon output of the appliance.

### You can do this by examining a combination of

- ✦ the appliance efficiency
- ✦ the fuel it uses

The graph below illustrates the combined effect of the fuel, and the appliance efficiency in carbon savings when compared to an electric fire.



## Inset Living Flame Effect Gas Fires

Inset living flame effect gas fires (ILFE) offer efficiencies high enough to produce a carbon credit against an electric fire, and are available in two sizes - deep bed and shallow or narrow bed.

## Decorative Gas Fires

The deep bed decorative gas fire (DGF) has a low efficiency of around 20%, and on its own is not enough to produce a carbon credit against an electric fire. However, combined with an efficient flue box, it can. The efficiency of the combined unit has been certified at 45%, and when used in conjunction with a typical 90% primary heating boiler it can give a carbon credit against an electric fire.



The benefit of deep bed fires is that they can create the more authentic impression of an open fire. The DGF does this beautifully with its larger fire viewing area.

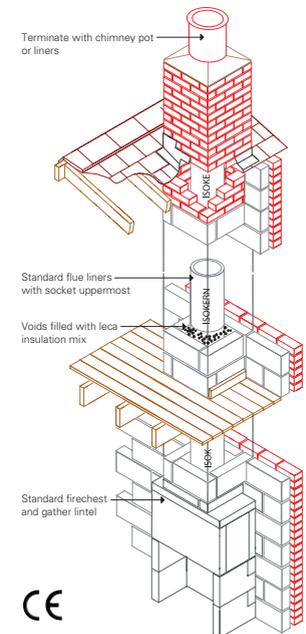
## The Unique Schiedel Solution

- Schiedel offers the complete chimney package from the ground floor to the chimney pot
- Linked with appliance

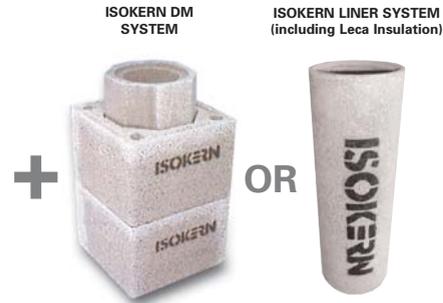
For more information on Schiedel Isokern solutions to Document L, please call

**01202 861 650** or visit  
[www.isokern.co.uk](http://www.isokern.co.uk)

## Schiedel Isokern Liners with standard firechest



# The warmth and security of a real fire



- Independent heat source for greater fuel security
- Higher carbon savings
- Improved energy efficiency
- Wide range of fires and appliances
- Meets all Document L requirements

## Real flame, real benefits

Nothing beats the warmth and cosiness of a real flame fire. It becomes the hub of the home, the focal point for any family, and a feature that more often than not seals the deal for homebuyers.

## Stay warm, stay secure

With the rising cost of fuel and even the possibility of a fuel shortage, many people are opting for an independent secondary fuel source with wood or multi fuel. Choosing a stove, an open front convector or a glass fronted fire in conjunction with a Schiedel Chimney System can provide the perfect solution.

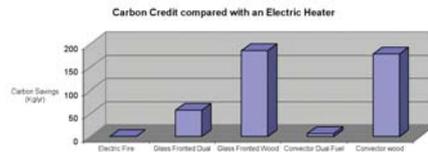
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## The Open Fire

The low carbon emissions produced when burning wood means that an open fire set up to burn only wood will give a small carbon saving against an electric fire. The inclusion of a damper, as in the Schiedel Isokern Delta and Manor firechests, will increase the carbon credit. Good news for anyone wanting a larger fire opening.

## The Open Front convector

The open front convector gives the feel of an open fire, but achieves its higher efficiency by heating air in the gap between its two skins and returning it to the room, thus adding convection to the radiant heat of an open fire. It can be used in fire openings up to 1.2m wide.

## Glass Fronted Appliances

Glass fronted appliances come in a range of styles, from traditional stoves to contemporary insert units. The technology in these appliances means that they can offer efficiencies in excess of 70%. When this efficiency is combined with wood as a fuel the resulting carbon saving against an electric fire is the most impressive.



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