

## Stove types and efficiency

**THIS CAUSES EXCESS SOOT & TAR**



Recognise this? Just look around your area and see how many chimneys are smoking. Now you know why.

### WOOD IS NOT POLLUTING

Wood differs from other fossil fuels such as coal, gas and oil because it is part of the carbon/carbon neutral cycle. Although the fuels produce CO<sub>2</sub>, trees absorb CO<sub>2</sub> and store it as carbon which makes up half the weight of the tree.

When the wood is burned it releases only the same amount back into the atmosphere, exactly the same as if the tree were let to rot.

### STORING WOOD

For perfect drying conditions the logs should be stored in a dry airy store, allowing plenty of air flow around the logs. Our Certainly Wood Log Stores provide the perfect solution.

For further information please contact your stove supplier. All orders to be placed through your nearest Certainly Wood stockist. Visit our website [www.certainlywood.co.uk](http://www.certainlywood.co.uk)

SEE OVER FOR OUR RANGE OF WOOD PRODUCTS AND STORAGE SOLUTIONS



LOG STORE



PALLET OF LOGS



LARGE BULK BAG



LOOK OUT FOR OUR NEW ENERGY GRADING SYSTEM ON ALL NEW PACKS



[www.certainlywood.co.uk](http://www.certainlywood.co.uk)

**BLAZING THE WAY WITH SUSTAINABLE FIREWOOD  
THE NATURAL ALTERNATIVE ENERGY RESOURCE**

CONTACT YOUR LOCAL STOCKIST

OUR RANGE OF PRODUCTS INCLUDES:  
KILN DRIED LOGS • KILN DRIED KINDLING  
BLAZE AWAY HEAT LOGS • WOOD PELLETS  
FLAMERS NATURAL FIRELIGHTERS  
BULK DELIVERIES TO YOUR DOOR



fuelled by  
**nature**

natural wood  
**fuels**



Certainly Wood's kiln dried logs are recommended by the UK's major stove manufacturers and distributors



THE UK'S FIRST HETAS APPROVED FIREWOOD SUPPLIER

**NEW  
'WOOD FIRED'  
KILNS**

Consumers are increasingly turning to sustainable wood in the search for environmentally friendly renewable energy resources. Certainly Wood provides premier kiln dried firewood, kindling and logstores. The benefits of kiln dried wood are considerable:

- **GENERATES GREATER HEAT OUTPUT**
- **BETTER FUEL EFFICIENCY**
- **MORE ECONOMICAL**
- **MINIMUM STOVE AND FLUE PROBLEMS**

#### TYPES OF WOOD

Certainly Wood only supplies hardwoods sourced from local sustainable British woodland. Trees are cut as part of the natural thinning process to generate more light and a better environment for the remaining trees.

#### WOOD SEASONING

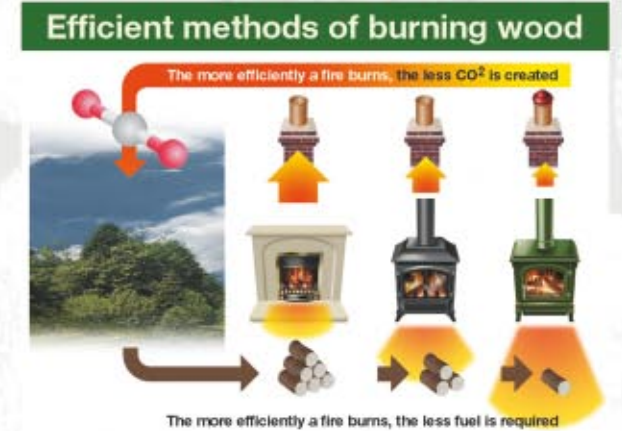
Freshly harvested wood contains a naturally high amount of water, between 65-90% depending on the species. Removing the water is known as seasoning. This term suggests a period of time, and for natural air drying up to two years is recommended.

Whilst we do supply 'seasoned' logs, they will vary in moisture content. For immediate burning in stoves we only recommend our premium kiln dried logs because they are of a consistent high quality having been dried in kilns which run on our own wood waste.

#### ENERGY EFFICIENCY

When buying wood, consider the cost per kilowatt of energy. Using local suppliers may seem more convenient, but much of the firewood currently available is damp and difficult to burn.

Whilst open fires have a strong attraction, they are extremely inefficient compared to wood burning stoves and even these will vary considerably.



#### Number of logs required to produce an equivalent heat output



Additionally the higher water content will prevent the gasses in the wood from igniting allowing them to escape - unused - **up to 50% potential heat wasted!**

Hardwood Broadleaf	Softwood Conifers
(Slow growing deciduous)	(fast growing evergreens)
<b>High density - BURNS SLOW</b>	<b>Low density - BURNS FAST</b>
Slower steady heat output	Rapid high heat output
Both types have similar calorific value per Kg.	
The density of softwood is approx half that of hardwood.	
Twice as much softwood is required to produce the same heat	

#### Less moisture = more heat output

Wood containing no moisture 5.5kW/h per kg. <i>(theoretical only)</i>	
Wet or freshly cut wood 1.0kW/h per kg.	Single bar electric fire = 1.0kW/h
Wood containing 60% moisture 3.0kW/h per kg.	
Kiln dried wood 4.5 kW/h per kg. (UK)	

**BUYING WOOD BY WEIGHT IS PAYING FOR WATER**

#### STOVE EFFICIENCY

The extra logs required (possibly more than three times as many) to produce the equivalent heat output, are a considerable waste of money, labour, transport and storage.