

Another good reason to order timber windows and doors from
ARDEN WINDOWS LTD

SAY NO TO VOCs in timber preservation

Arden Windows manufactures high quality timber window and door products to the UK construction industry. Two years ago we decided to say no to VOCs (or Volatile Organic Compounds) in timber preservation in accordance with the EU Solvents Emissions Directive. VOCs are recognised to significantly harm the environment by contributing to ozone depletion and global warming.

BORON: THE ENVIRONMENTAL ALTERNATIVE

We switched to a highly effective water based BORON timber preservative and we are one of the first large scale timber window and door manufacturers in the UK to use it. Boron has been used as a wood preservative for over 100 years and the performance of Borates is proven and well documented. We have provided more information overleaf or you can visit our website: www.ardenwindows.net

DID YOU KNOW?

Approximately 10 litres of VOC based preservative solvent is used in the VACUUM impregnation of timber windows and doors in a typical semi-detached house. By ordering windows and doors from Arden Windows Ltd, you will be supporting a global effort to reduce VOC emissions and the EU Solvents Emissions Directive. BUT in addition, we are so confident about the preservative properties of Boron, that we have extended our guarantee by 5 years relative to most of our competitors.

35
years

BORON PROVIDES A 35 YEAR GUARANTEE AGAINST FUNGAL ROT AND INSECT ATTACK
5 years more, relative to competing products*

CALL **02476 632423** FOR MORE INFORMATION OR EMAIL

*Guarantee dependent on completion of effective maintenance cycles.. Please refer to: www.ardenwindows.net/guarantee

10
Litres

- In a traditional semi-detached house, 10 litres of VOC solvent preservative treatment* are used (using traditional preservation methods that are harmful to the environment)



*Based on 7 windows with an average window size of 1200 by 1200mm, and 2 doorsets (2100 by 900mm) per house, made from VAC treated softwood with VOC solvent based preservative, with a typical timber section detail and the volume of VAC process chemical calculated at an industry standard of 25 litres per cubic metre.

- Arden Windows uses WATER based Boron preservative instead (see overleaf for details)
- Standard timber windows are rated 'A+' in BRE Green Guide using VOC solvent based preservative.

ARDEN CAN EXCEED THE BRE GREEN GUIDE A+ RATING BY USING BORON PRESERVATIVE INSTEAD.

WHAT IS BORON?

Boron is an element ubiquitous in the environment. One of the most important functions Boron serves is to keep the world green. All plants depend on trace amounts of Boron to thrive, and trees need it to grow. We ingest trace amounts of Boron every day through our food and nutritional studies confirm Boron forms an essential part of a healthy human diet.

How does Boron preservation work?

Borates (salts of Boron) work to control insects and fungi that attack wood by inhibiting their metabolism. The Borates effectively impede the ability of organisms to process their food causing them to starve and eventually die. Borate preservative comes in an almost clear, water based solution which is flow coated onto the surface of the wood and allowed to dry prior to further factory finishing.

WHAT ARE THE BENEFITS OF BORON?

- **Significant reduction of VOCs** – linked to the increased production of low level Ozone causing conditions such as asthma
- **35 Year Guarantee against fungal rot and insect attack**, 5 years more relative to other competing products
- **Enhanced durability** - firstly the flow coating process allow Borates to penetrate the wood via the woods' moisture content. A very low level of moisture content is required to achieve effective penetration; secondly, if moisture levels increase in service, the Borates migrate deeply where-ever there is risk of decay
- Boron based preservative run-off in the flow coating process is **recyclable**
- Boron is **not classified as an environmental hazard** as it is naturally occurring and does not bio-accumulate
- Boron has **low acute mammalian toxicity** (similar to table salt)
- **Low to zero emissions to air, land or water** – Borates do not evaporate (unlike VOC based traditional preservatives) delivering high levels of protection throughout the life of the product.

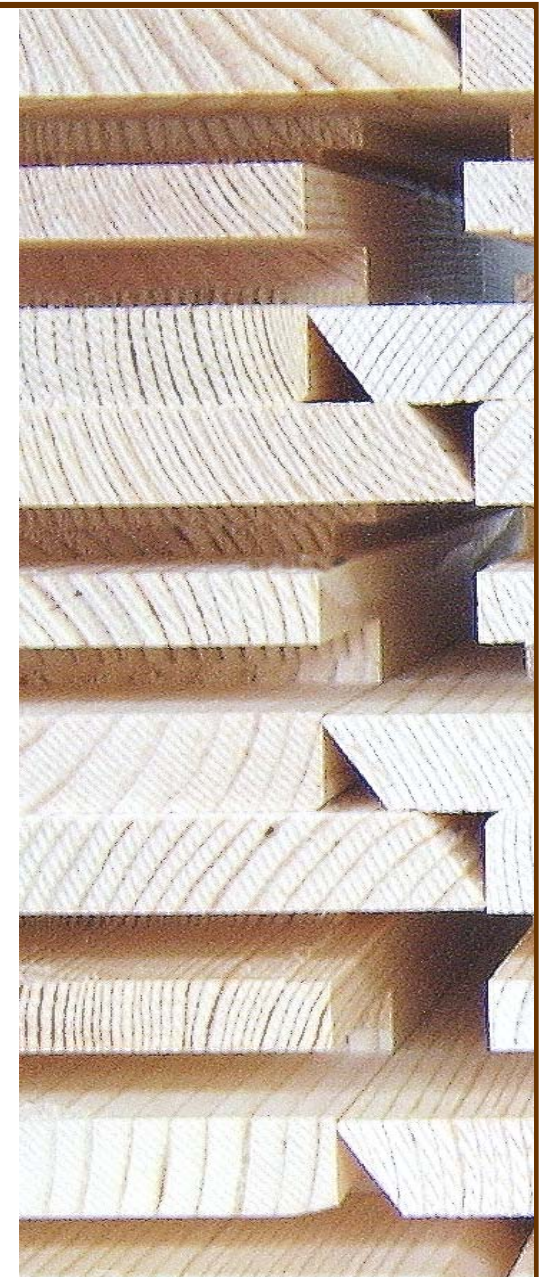
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By buying products with the FSC label you are supporting the growth of responsible forest management worldwide

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