



Green oak cladding



Green oak is cut from logs grown in English and Welsh woodlands that are either independently certified or managed under the strict guidelines of the Forestry Commission. The term 'green oak' describes oak that is 'wet', having been freshly cut from the tree.

Green oak cladding is a simple and cost effective way of using oak and can be very effective for creating a rustic appearance for traditional buildings. Green oak is only available sawn and cannot be machined to profiles.

Being wet, green oak will shrink as it dries on the wall and may distort and crack. To ensure our boards remain relatively flat, we recommend they are fitted during Autumn, Winter or early Spring.

We firmly believe that using our native oak is an essential part of ensuring that our local woodlands are managed and nurtured for the future.

Produced to comply with the harmonised standard for construction products regulation BSEN14915:2013 and to conform with BS8605-1:2014 External timber cladding: Method for specifying.

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|---------------------------------------|---|
| Trade Name | Green oak (or fresh sawn oak) |
| Base timber | English oak |
| Species | Quercus robur |
| Process | None |
| Origin | Legal and well-managed forests in England and Wales. FSC certified available. |
| Intended use | External cladding |
| Other uses | Decking, framing and landscaping |
| Appearance | Green oak is often described as being a straw colour. Boards will contain regular sound knots. |
| Weathering | As the boards weather the colour will change to a silver-grey. On shaded elevations or in areas of higher pollution the oak may weather to more of a black colouring. In semi-shaded areas such as under eaves the exuding tannin may leave unsightly stains. As the oak dries out the boards will shrink and are likely to distort to some extent, resulting in a rustic appearance. |
| Profiles | Sawn only. Feather-edge, square-edge and waney-edge |
| Dimensions | Various |
| Lengths | Random. 1.8mt+ longer |
| Moisture content | Wet. Beyond measurement. |
| Natural durability (EN350-2) | Durable Class 2 (heartwood only) |
| Insect attack | The ambrosia beetle can attack the wet timber (30% moisture +). However, the beetle will die as soon as the wood dries to less than 30%. Re-infestation will not occur. Other dry wood will not be affected. Sapwood is commonly attacked by the powder post beetle (Lyctus spp). However, sap is normally excluded from cladding boards. |
| Desired service life: (BS8417) | Occasionally wet 60yrs Frequently wet 30yrs |
| Treatability class | Resistant |
| Movement class | Large (Up to 10%) |
| Resistance to impact | Medium to high |
| Resistance to fixing | High. Pre-drilling recommended |
| Mean density | 330 – 390 kg / M3 |
| When to fix | Autumn / Winter only. Definitely not during summer months. |





Weathered green oak cladding

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| How to fix | Face fix with stainless steel ringshank nails. Pre-drilling advised. |
| Grading | Not graded to a BS standard. Generally rustic. |
| Working properties | Green oak is generally easy to work and takes fixings satisfactorily, but becomes increasingly difficult as it dries. |
| Extractives | Oak contains tannic acid, which will corrode ferrous metals. When the two come into contact, a blue sludge is formed that will stain the oak and anything else it comes into contact with. All fixings used in conjunction with green oak should be stainless steel. Tannic acid could also leave unsightly brown stains in the surface of the cladding and will stain any porous materials below the cladding. The reactivity of tannin makes oak cladding unsuitable for polluted areas and shaded areas. |
| Emission of formaldehyde (EN14915) | E1 (Not significant) |
| Reaction to fire (EN14915) | Euroclass F (Untested). D-s2, d0 |
| Fire treatment | Not suitable |
| CE compliant | No |

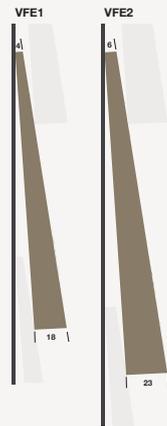
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Cladding profiles – sawn range

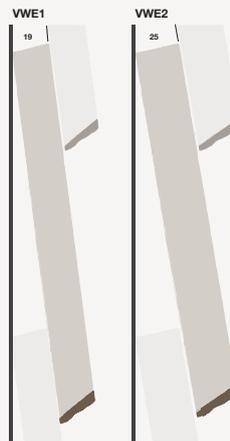
Square edge



Feather edge



Waney edge



Visit our website for fixing details. Contact us for full technical drawings.

Vastern Timber

British hardwood sawmillers and timber merchants

We also offer hardwood flooring, engineered flooring, timber decking and oak beams. Please visit our showroom or contact us for further details.

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