

Direct glazing

Carpenter Oak
& Woodland





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You're in safe hands with us - we have over 20 years experience in the oak framing industry and know all there is to know about glazing your green oak frame.

About us

Carpenter Oak & Woodland are one of the UK's most highly regarded and longest established specialists in timber buildings. With over 20 years experience of manufacturing the finest timber frames, we understand how best to glaze them and how to overcome the particular challenges that the material presents.

Choosing the right company to glaze your green timber frame is essential to ensure that the aesthetic results are pleasing and critically that the glazing system performs by keeping the building wind and weather proof, even after the frame has settled in.

Today we meet the various needs of our customers by offering excellent value glazing services as well as a comprehensive warranty.

We hope that this brochure will help you find the correct glazing solution for your project and answer any questions you might have. However, there is no substitute for talking and we would be delighted to discuss your project with you.



I was very pleased with the high standard of carpentry, it all went together very nicely. As I am sure you are aware, it makes a lot of difference on site when things like that are accurately marked and cut.

M Mitchell, Wiltshire



Glazing green frames

Why is glazing a green oak frame different from 'regular' glazing?

Oak frames are manufactured in freshly felled oak. This means that the initial moisture content of the timber is relatively high. As the timber dries out it shrinks by up to 8% across its width (although not along its length), and depending on the type of timber it can also twist.

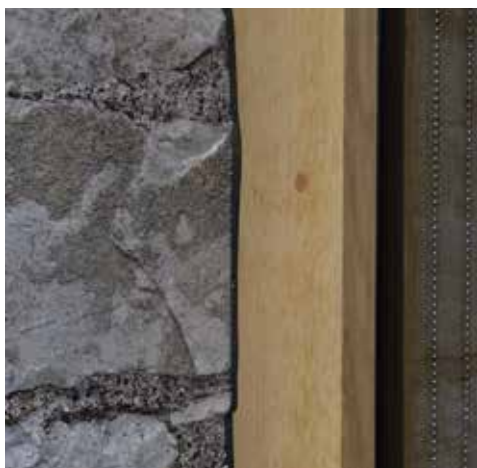
Frame shrinkage is the key issue for glazing systems which must be specially designed to allow for, and accommodate, this movement. With inflexible systems such as glazing, it is pretty much a certainty that leakage will occur as the frame shrinks away from the glazing and in the worst cases glazing units can break. Therefore, a precursor to achieving a good glazing solution it's essential that it has a good quality frame to sit in – well manufactured from straight grained defect free timber.

Inset Joinery glazing

Opening doors and windows need to remain very stable in their frames to ensure that they will operate without snagging, and that no drafty gaps appear. For this reason it is not possible to mount them directly into a green timber frame. Joinery items are therefore set into their own frames and in turn housed into rebates in the oak frame, or preferably applied to the front face of the internal member behind cover boards as described above. The weatherproofing then sits between the joinery frame and the green frame to accommodate movement of the green timbers.



Fig. 1. A simplified diagram showing our recommended detailing for joinery inserts. To the right of the main post is a surface mounted glazing panel. To the left, an inserted joinery frame is attached using the same technique, with seals sitting between the main post and the cover board.



Glazing systems

There are two types of glazing systems that are used to glaze green oak frames.

Glazing systems for timber frames fall into two categories:

- 1) opening and non opening
- 2) inset joinery, or glazing directly applied to the frame

Over the years Carpenter Oak & Woodland have developed tried and tested systems for both directly mounted glazing and glazing housed in its own joinery frame. We strongly recommend that any element that can be non opening (fixed) is surface mounted, and that only where openings are required (i.e. doors or windows), complete joinery items are inset into the frame. From a practical point of view, the surface mounted / direct glazing solution can be said to be preferable (with this method, the glazing is mounted onto the outside face of the oak frame and covered externally by a piece of timber (a coverboard) matched to the internal timber. Aesthetically the two pieces appear to be one single piece with the glass recessed into it.

With very large areas of glazing the thermal properties of the system become crucial not just to the unit, but also to the building as a whole. The surface mounted method delivers much better performance to inset joinery because it has several preferable attributes:

- Less cold bridging (where the overall performance of the unit is compromised by an element which has much lower thermal resistance i.e. it transmits heat and cold more readily)
- Less opportunities for gaps to appear
- More wind resistant
- Lower maintenance
- Can be executed to a passive house standard



Your glazing project

Carpenter Oak & Woodland's bespoke approach means that we can support you through your oak frame glazing project.

Your next step

The Carpenter Oak & Woodland glazing system was developed and refined over a number of years and has now been taken on via an associate company, Topworks, who continue to utilise our methodology. Glazing contracts can be procured directly through Carpenter Oak & Woodland or via Topworks - for more information please contact us using the details below.

Inspiration

Carpenter Oak & Woodland have a large number of glazing projects in our image library at: www.carpenteroakandwoodland.com. The images in this brochure show some typical uses and appearances, however please don't hesitate to contact our offices if you would like to see more specific examples. If you have any questions about glazing an oak frame then please do get in touch.

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