



ROOF TRUSS



Crendon Timber Engineering was appointed to design, supply, and install the full timber superstructure for 39 affordable, energy efficient homes in Clay Park, Dartington, near Totnes. The mix of one bed flats, studios, and one to four bedroom houses was delivered on behalf of the client, Aster Group, for Claywater Homes Ltd.

The 39 units of social rented housing are delivered to the highest level of energy efficiency, (energy performance certificate EPC A), constructed with a reduced level of embodied carbon and including source heat pumps and Solar Photovoltaic (PV) panels to help customers with their utility bills.

This project is a great example of how offsite construction can offer real advantages in terms of programme delivery, structural accuracy, and site safety. With early involvement, Crendon Timber Engineering worked closely with the design team to align all technical requirements, while maintaining a practical and efficient approach to delivery and installation.

A key benefit of early collaboration in the project identified the depth of insulation required to meet the U-value, which enabled the architect to amend the construction drawing prior to issue. The cladding company were also involved to ensure the timber frame had incorporated ventilation requirements.



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SUPPLIER OF THE YEAR**

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2019, 2021, 2022, 2023, 2024





The development was built using Spandrel Panels, Gable Panels, Roof Trusses and Posi-Joist metal web joists, manufactured and delivered from our Newquay and Bridgend branches, and Crendon's CATG-certified closed panel Timber Frame system manufactured in a controlled factory environment at our Ebbw Vale facility.

To achieve an overall wall fabric U-value of 0.15 W/m²k, the closed timber frame panel make up included a 235mm Timber, Superglass mineral wool, Glidevale VC foil Ultra, completed with an internal service void batten.

Transport was co-ordinated to ensure deliveries arrived efficiently to programme, which allowed the Subcontractor to utilise the crane for offload and installation throughout.

In line with the project's offsite fire mitigation strategy, Permavent Safeshield XT Reflect vapour permeable wall membrane was utilised throughout.

To align with the STA Fire safety in use pattern book, which is a mandatory requirement for STA Gold members, the Structural engineered products were factory fitted, and on site fitted elements ensured compliance with EW30-GW-02 REI30.

Crendon's involvement extended from early design coordination through to full installation. We take pride in delivering comprehensive design, supply, and fit solutions across all our engineered timber products.

Our Ebbw Vale design coordinator led the project, supported by in-house estimating, contracts, and site installation teams. Using MiTek Pamir for engineering and Wood Engine for drawing preparation and trade coordination, our team worked in close collaboration with the project architect and structural engineer to address every challenge and incorporate all requested changes seamlessly.

Thanks to the strong working relationship between Crendon Timber Engineering, Claywater homes, and other subcontractors, the entire structural phase was completed and delivered on programme.

With over five decades of experience, Crendon Timber Engineering continues to support commercial contractors and developers with innovative, offsite-engineered timber solutions. As part of the Wyckham Blackwell Group of Companies, we bring the strength of a national group with the focus and flexibility of local service.

"Crendon has played a key role in the success of our Clay Park development. Their specialist knowledge, reliable delivery, and exceptional build speed have helped us maintain a smooth and efficient construction programme. The quality and precision of their installation have been outstanding, bringing confidence and consistency to every stage of the project. We look forward to continuing our partnership with Crendon on future developments."

Claywater Homes Ltd - Site Manager, Alex Kittle



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