

Luxury 5-bed Home

Harpenden, Hertfordshire



Crendon Timber Engineering designed and supplied the Attic Roof Trusses and Posi-Joist metal web joists for an exceptional 5-bed luxury home project by AWB Group in Harpenden, Hertfordshire.

This project is a fantastic example of how specialist timber engineering can help bring ambitious designs to life, combining innovative structural solutions with beautiful architectural features.

Our Wellingborough branch designed and managed the project. Using MiTek Pamir to model the timber engineered elements, the team managed to design a fully timber engineered trussed rafter solution without the requirement for any steels, significantly reducing build-time and project cost.

One of the standout features of the project is the impressive triple-height entrance hall, made possible

by a carefully designed void in the first floor Posi-Joist metal web joist design. It allows uninterrupted views from the ground floor right up to the roof structure, creating a striking sense of space and light.

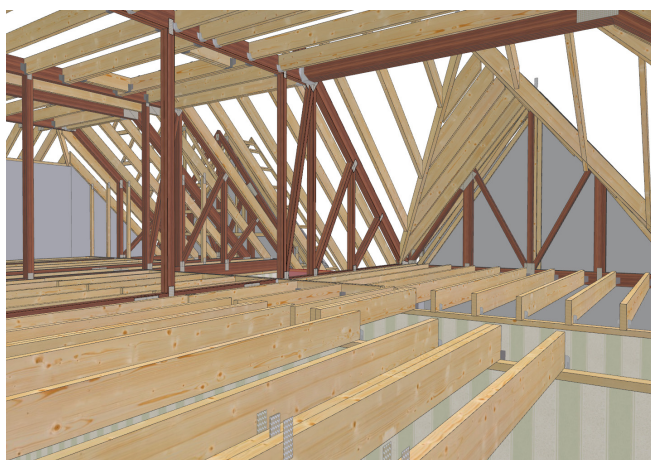
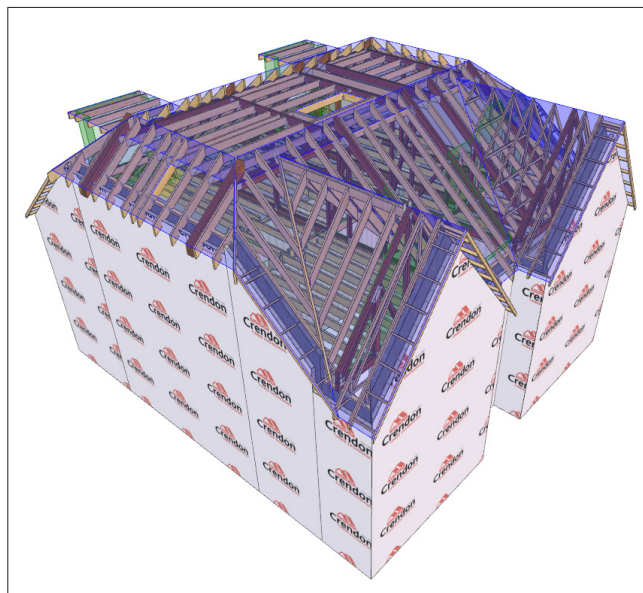
Our Wellingborough design team also created an intricate framing design to give the roof structure support by means of forming 'wall' trusses. These wall trusses were in locations of attic room partitions which were studded out to give the girder trusses more triangulation and additional strength. These wall trusses were the base to then frame the rest of the area, incorporating a large flat-topped attic with barn hips, rooflights, rear flat-roof dormers and front-facing gables.



This solution created a substantial 7.5m attic room while also accommodating a dedicated plant area for equipment such as the heat pump and water tank. Careful consideration was also given to the central floor void and stairwell layout to ensure both structural performance and architectural vision were achieved.

Working together, our East Harling and Wellingborough branches supplied the Posi-Joist metal web joists and the complex Attic Trusses. These were delivered 100% On Time, In Full, keeping the project 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.



East Harling

The Old Mill, East Harling, Norwich,
Norfolk, NR16 2QW

T: 01953 717777 E: sales.eastharling@crendon.co.uk

Wellingborough

27-29 Don White Road, Ogee Business Park,
Wellingborough, Northamptonshire, NN8 4FT

T: 01933 421970 E: sales.wellingborough@crendon.co.uk

"Crendon have been good to work with, they were responsive throughout the design process.

All deliveries were carried out on time and in full, with no issues.

I would definitely recommend Crendon to others, based on their customer service and prices."

Aran Braybrooke, AWB Group Director

