

Varsity Rise, Manby, Lincolnshire

Client: Robert Woodhead Ltd

Client Sector: Affordable Housing

Project Type: New Build

Description: 12 New Homes

Location: Manby, Lincolnshire



Elevated to Code 4 Success

👉 The Challenge...

As one of the first developments in the UK to achieve Code Level 4, this project needed to exemplify true sustainability, promoting community living, reducing energy bills and work towards a lower carbon footprint.

K-panels designed, supplied and installed Kingspan TEK (Structural Insulated Panels) an advanced timber frame system for the walls and roofs. The challenging design of these builds incorporate complex roof systems and a variety of steps and staggers between the units.

👉 The Solutions...

Eco-technology was embraced by the project team throughout, starting with K-Panels and the fabric of the building. By using TEK with U-values at 0.15 on this project, the client has significantly reduced energy usage, reducing fuel bills for the tenants.

Overcoming adverse weather conditions, K-panels managed to work along side the main contractor meeting a challenging programme and brief.

Liaising with the main contractor's site manager, the TEK for the ground floor was delivered in kit format meaning that elevations were built up on site. The first floor was delivered in factory built elevations creating six two bedroom houses and six three bedroom houses, constructed in pairs. This reflected the main contractors need for space on the site and incorporated a bit of common sense thinking – avoiding adverse weather and constructing in the factory.

👉 Key Achievement & Benefits...

- Level 4 of the Code for Sustainable homes achieved
- K-Panels' Kingspan TEK building system helped obtain Air test results as low as 3.67m³/hm² at 50 Pa
- K-Panels' Kingspan TEK building system helped obtain Sound Test results of 54-60 DnT,w + Ctr (dB)
- An environmentally sound development that works as a living space and has curb side appeal
- A winning combination for residents and the planet
- Zero Defects
- Method statements, risk assessment and toolbox talks used
- Winner - EMCBE Sustainability Award 2009-10
- Highly Commended - Constructing Excellence National Legacy Award

"K-Panels understood what was a technical brief whilst successfully assisting the design team in fully realising the complete design, bringing it to a 3 dimensional tangible product. Delivered professionally to site and erected with care and due diligence in what was a very demanding programme and conditions."

Craig Pygall
Contracts Manager,
Robert Woodhead Ltd

To find out more about this case study:

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