

JJI-Joist Case Studies

St Luke's Hospital, Middlesbrough

The Project

Fourteen blocks of new build single storey timber frame wards with mono pitched roofs averaging 2150m² roof area per block and a total of 1300 JJI-Joist roof and floor cassettes. It is the largest single project using JJI-Joists to date.

Design Features

23° pitch, 7.8m clear-span, 350mm deep JJI-Joists
Pre-insulated roof cassettes.
FSC accredited and Green Guide 'A' rated JJI-Joists.

Who

Client	NHS
Contractor	Laing O'Rourke
Timber Framer	Deeside Timber Frame
Architect	MAAP
Project Engineer	WSP

Value

JJI-Joists	£400,000
Overall Timber Frame	£4,000,000

Comment

Deep JJI-Joists are an ideal solution to achieve long clear spans. Mono-pitched and flat roofs are extremely common in the public and non-residential sectors and are therefore suited to using JJI-Joists when an open plan environment is desired below. In the last 2-3 years the use of JJI-Joists in commercial and industrial buildings, as opposed to housing, is becoming more popular.

Historically Architects and Engineers would have specified steel or timber roof trusses to create the mono-pitched and flat roofs that many of these buildings require. However now more specifiers are looking to timber I-Joists to achieve high levels of insulation and a thermally efficient and sustainable roof structure.



Figure 1. JJI-Joist cassettes being craned



Figure 2. Aerial shot of site

About Us

James Jones & Sons Ltd is the UK's leading manufacturer of I-Joists based at its Timber Systems Division in Forres, Morayshire. The Timber Systems Division prides itself on building strong partnerships throughout the supply chain, concentrating on its core values of quality and service. JJI-Joists were the first I-Joist to be mass produced in the UK in 1999. The production facility has grown from a 1 acre site to 5 acres and now includes one finger jointing and two I-Joist production lines along with a design consultancy service.

JJI-Joists are manufactured under the strictest quality and environmental standards. The product range is manufactured to UK dimensions and specifications and is available on a Just-In-Time basis from a comprehensive stock holding. Bespoke sizes can also be produced project specific pending volume requirements. The entire production and distribution process has been audited by an accredited third party and a Life Cycle Assessment has been attained for sustainability and environmental compliance.