

Case Study St Luke's Hospital, Middlesbrough



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.

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.

Design features include:
 23° pitch
 7.8m clear span
 350mm deep JJI-Joists
 Pre-insulated roof cassettes
 FSC accredited & Green Guide
 'A' rated JJI-Joists



Ariel view of site



Completed block external shot

-440000 kg CO₂ is the amount of CO₂ saved using JJI-Joists. Find out more at: jamesjones.co.uk/pas-2050

CLIENT	NHS
PROJECT VALUE	£4M
EWP SUPPLIER & TIMBER FRAMER	DEESIDE TIMBER FRAME, NYT and ROWAN TIMBER
CONTRACTOR	LAING O'ROURKE
ARCHITECT	MAAP
ENGINEER	WSP

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JJI-Joists are the UK's market-leading I-Joist and the brand most specified by architects. JJI-Joists are the only UK manufactured I-Joist with FSC Certification and a carbon negative impact figure to PAS:2050 standards



JJI-Joists are capable of large spans. They are light-weight, long and strong. Suitable for floors, walls and roof projects

The JJI-Joist system relies on a unique combination of engineered products designed to complement each other and deliver outstanding performance

