

# Case Study

## Sarek Round House



**Sarek Roundhouse is a spectacular circular structure in the heart of the Cambridgeshire countryside.**

The building, which has been commissioned as a private house will be 12.3m in diameter, with a large basement storage area and a mezzanine first floor.

The main structure is built with a 150mm x 47mm timber frame, sitting on a small dwarf wall and sheathed with ply. Coax bolted to the top of the frame is a steel ring beam running the full circumference of the building. This beam is required to resist the outward thrust from the roof.

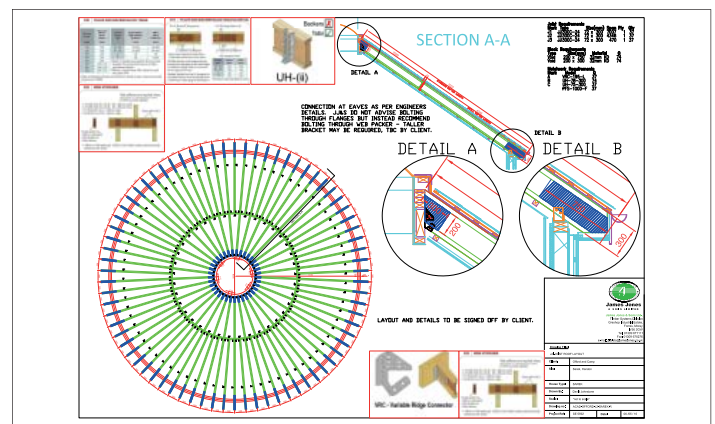
The spectacular roof, which incorporates a glazed cupola, contains over 500 linear metres of JJI-Joists which give great strength and rigidity to the structure, whilst at the same time allowing for high levels of insulation to a depth of 300mm. The bottom of the JJIs are notched and bolted onto the steel ring beam and the tops are bolted into an otherwise unsupported steel thrust ring beam which allows the roof load to be evenly spread through the structure.

The main contractor and engineering consultants for the project are Offord and Camp of Haslingfield, near Cambridge, and Director John Offord said:

“The architect’s design specified I-Joists and we chose to work with JJI-Joists as we knew that onsite they would be easy to work with and would provide all the performance the building needed. JJI-Joist distributor David Smith and James Jones & Sons have been very helpful during the pre-construction design and specification phase and we have ended up with a building we are all very proud of.”



Curved wall structure assembly



JJI-Joist round roof layout

**-1646kg CO<sub>2</sub>** is the amount of CO<sub>2</sub> saved using JJI-Joists. Find out more at: [www.jamesjones.co.uk/pas-2050](http://www.jamesjones.co.uk/pas-2050)

CLIENT	MR VINCENT UTSI
ARCHITECT	MR VINCENT UTSI
CONTRACTOR	OFFORD AND CAMP LLP
JJI-JOISTS	222m 300A+ 296m 300C
ENGINEER	OFFORD AND CAMP LLP
ENGINEERED TIMBER SUPPLIER	DAVID SMITH ST IVES



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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

