

# Magdalene College Library

## Cambridge, United Kingdom

**EURBAN**

The plan of the 3 storey building is generated from a tartan grid with alternate spacings of approximately 5.4m and 2m. Structural brick piers are located where the 2m grid lines intersect, at roof level these brick piers become chimneys, characteristic of the roof scape of the College and the wider city of Cambridge.

The CLT roof lanterns are square in plan and are formed by 2 pitched roofs intersecting at right angles to each other. The lanterns are supported in the corners at the bottom of each valley by bespoke steel connectors. This detail was conceived by consulting engineers Smith and Wallwork and further developed and optimized for manufacture and assembly by Eurban. Such collaboration between the consultants at the design phase as well as during the construction phase was key to the success of the project.

The square roof lanterns allow light to penetrate the entire building. Each of the 4 sides of the 12 lanterns is fitted with a triangular piece of glazing, so natural light from each orientation filters into the space. The roof lanterns, in combination with light wells connecting the 3 levels, result in a light filled space even at the centre of the library's relatively deep plan. Shafts of light animate the interiors throughout the day, from sun rise to sun set.

### General

**Delivery year**  
2020

**Building type**  
Education

**Area (m<sup>2</sup>)**  
1015



Photo credit: Nick Kane

### Products

**Products**  
CLT

**Product quality**  
VI, NVI

**Product volume (m<sup>3</sup>)**  
179

**Number of truck deliveries**  
5

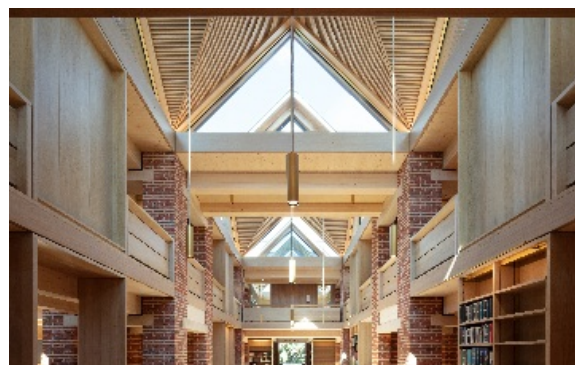


Photo credit: Nick Kane



 **Team**

**Partner of Stora Enso**  
Eurban

**Structural Engineer**  
Smith & Wallwork  
Eurban

**Specialist Timber Contractor**  
Eurban  
Neue Holzbau

**Architect**  
Niall McLaughlin Architects

**Main contractor**  
Cocksedge Building Contractors



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