



StoraEnso

# Eclipse Leisure Centre Staines-upon-Thames, Spelthorne

Partner of Stora  
Enso

Welcome to the Eclipse Leisure Centre in Spelthorne! Together with our partners, B&K Hybrid Solutions we have successfully delivered the UK's largest wet and dry leisure centre built to the ultra-low energy Passivhaus standard. This achievement marks a significant milestone for energy-efficient public buildings. It is anticipated that the new centre will use between 60 and 70% less energy than typical leisure centres.

B&K Hybrid Solutions played a crucial role in this £50 million project by delivering the hybrid cross-laminated timber (Sylva™ by Stora Enso), glulam, and steel frame.

The Eclipse Leisure Centre, located in Staines-upon-Thames in Spelthorne UK offers a comprehensive range of facilities, including a 200-station gym, two swimming pools, a sports hall, squash courts, Clip 'n Climb, and rooftop football (soccer) pitches.

The mass timber solution is particularly well-suited for the Health and Leisure sector, especially as the [kit of parts](#) meets both sustainability and cost-certainty benefits.

Given that leisure facilities are high energy consumers and can be prone to comfort and overheating issues, adopting low-energy Passivhaus standards for the Eclipse Leisure Centre has enabled the local government to meet their sustainability goals within budget.

## View more about aquatic centres built with mass timber:

[Tøyenbadet Swimming Pool](#)

[Cozenton Park Sports Centre](#)

[Freemen's School Swimming Pool](#)

## Learn more

-Moisture Management Explained. [Sylva Talks short video](#)

-10 advantages with mass timber. [Download the whitepaper](#)

## Publications

Eclipse Leisure Centre has been featured in several magazines:

[Spa Business for its sustainability standards and energy efficiency](#)  
[Sports Management covered its innovative design and Passivhaus certification](#)



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Silver at the iESE Public Sector Transformation Awards



Photo credit: B&K Hybrid Solutions

## General

### Delivery year

2023

### Building type

Health

### Area (m<sup>2</sup>)

9,290

### Storeys

3

## Products

### Products and Services

Sylva™ CLT Floors and Roofs,  
Sylva™ CLT Walls, Preinserted  
lifting devices

### Product quality

NVI, INV and VI

### Product volume (m<sup>3</sup>)

2,067



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## Team

### Partner of Stora Enso

B&K Hybrid Solutions Ltd

### Developer

Spelthorne Borough Council  
Project manager and  
employer's agent - Gleeds

### Architect

GT3 Architects  
PassivHaus designers - Gale &  
Snowden

### Structural Engineer

Engenuiti

### Main contractor

Wilmott Dixon

### Specialist Timber Subcontractor

B&K Structures

### Timber Engineer

B&K Hybrid Solutions

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## Others

### Total construction development cost (€)

35,120,000