StoraEnso

Partner of Stora Enso

MAX HOLZBAU

Jahn Sportpark Berlin, Germany

For decades, Friedrich-Ludwig-Jahn-Sportpark (Jahn Sportpark for short) has offered various sports clubs, schools and universities the opportunity for training, competition and sporting activities in the heart of Berlin. Recreational athletes also benefit from the access and the extensive opportunities offered.

The sports facility has a far above-average occupancy rate compared to other nearby sports facilities due to a wide range of sporting and cultural uses. However since 1 January 2021, the stadium could only been usable for operations to a limited extent due to the poor structural condition. (Source).

Integrated planning team

In an interdisciplinary cooperation, a competence centre for inclusive sports (KisS) has been realised in mass timber by our partners MAX Holzbau in cooperation with Stadt.Haus.Mensch. (Architecture, Cradle To Cradle), Hüls Ingenieure (Structural Engineering), Bohne Ingenieure (TGA) and Ahner Landschaftsarchitektur and the Senatsverwaltung für Inneres und Sport of Berlin using a prefabricated mass timber Sylva™ kit of parts by Stora Enso.

Rib Roofs

The ribbed ceilings consist of 114 m2 of CLT/GLT Ribbed panels manufactured by Stora Enso (CLT RP O 140 L5s VI GL24h VI 2x 140x320) and preassembled by MAX Holzbau at their location Breydin, Germany. The application of CLT and GLT Rib Panels for the ceiling enabled uninterrupted spans. The CLT and glulam Rib Panels, designed by MAX Holzbau and manufactured by Stora Enso, reduced the material use by nearly 50% compared to standard Sylva™ CLT Roofs, maximizing floor-to-ceiling heights and resulting in a lighter overall structure.

Sylva™ Services

This project leveraged the use of Stora Enso's Sylva™ Services and preinstalled lifting devices in their mill's factory-controlled conditions, so when the elements arrive on-site, they were ready to install safely, immediately.

Carbon footprint

The CLT only generated 3 tonnes of greenhouse gases (CO_2e) to manufacture and less than one tonne of CO_2e to transport. Compared to the 40 tonnes of carbon dioxide that the trees removed while they were growing and will store in for the school this is a small fraction. Choosing CLT instead of non-renewables avoided 60 tonnes of greenhouse gases. **Source:** Stora Enso Carbon Calculator based on third-party verified EPDs.

Are you interested in more design for reuse or disassembly projects?

Nordic World Ski Championship's Pavilion 2023

World Expo 2025 Pavilion Czech Republic

Joliot-Curie Temporary Modular School

General

Delivery year

2024

Building type

Health

Area (m²)

242

Photo credit: MAX Holzbau

Products

Products and Services

Sylva™ CLT Walls, Rib Panels, Preinserted lifting devices , LVL Cover Boards

Product quality

VI

Product volume (m³)

72

Product delivery duration (weeks)

11

Number of deliveries

2

Photo credit: MAX Holzbau

Team

Partner of Stora Enso

MAX Holzbau

Architect

Stadt.Haus.Mensch
Klaus Zahn Architekt

Structural Engineer

Hüls Ingenieure

Photo credit: MAX Holzbau

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