



StoraEnso

21 Aug 2026

Fire station

Dolní Jirčany, Czech Republic

Partner of Stora
Enso



The Psáry & Dolní Jirčany Fire Station just outside of Prague is a fresh take on rural architecture—functional, symbolic, and unmistakably modern. Realised in collaboration with our trusted partners at A2 Timber, the project shows how mass timber can do more than just hold things up—it can bring a community together.

Tucked between homes and a local school, the fire station uses the strength of engineered wood to open up the façade with wide open windows, giving the building a civic presence that still feels right at home in the village.

Its barn-inspired form—a clean rectangular volume with a gabled roof—nods to local typologies and visually links to the nearby elementary school. Placed at the edge of the village, it's ready for rapid response while staying respectful of its surroundings.

At the core is a lightweight timber structure, set inside a translucent polycarbonate-clad steel shell. The horizontal and vertical load-bearing elements are made from a prefabricated Sylva™ CLT kit of parts, supplied by Stora Enso, delivering both strength and a warm, tactile interior.

Inside, the wood is left exposed—because why hide what's beautiful and breathable? On the exterior-facing sides, the CLT is wrapped in wood-fibre insulation and finished with pine plywood, combining thermal performance with durability.

This hybrid setup proves that mass timber isn't just for cozy cabins—it's ready for public infrastructure, even buildings that need to be tough and longlasting.

Wood origins

The Sylva™ elements come from PEFC-certified forests, so the sustainability story starts in the woods and runs all the way to the site.

Architectural design

The building is cleverly divided into three temperature zones—exterior, garage, and interior—each tuned for energy efficiency. The garage is wrapped in a layered polycarbonate system with thermal insulation, and the roof uses a sandwich structure with a polyurethane core to keep things comfortable year-round.

Circulation gets a design moment too: indoors, the stairs are sculptural, made from bent teardrop-shaped sheet metal; outdoors, galvanized steel stairs with vegetated treads connect the building to its landscape, adding a touch of green to the grey.

Prefabrication

Prefabrication was key to the project's speed and precision. The CLT kit-of-parts system made assembly fast and clean, while the steel hall structure—complete with trusses, rectangular columns, and tension rods—adds muscle where it's needed.

The renewable materials company



Carbon footprint

And yes, it's beautiful—but it's also a carbon hero. The building stores 67.59 tonnes of CO₂, with just 5 tonnes emitted during manufacturing and 0.36 tonnes from transport. By choosing wood over non-renewables materials, the project avoids an additional 101.38 tonnes of emissions.

Publications

- Jirčany Fire Station - Architecture Today
- Jirčany Fire Station - ADC - International Architecture & Design Awards 2026 | Architecture & Design Community
- Jirčany Fire Station / SOA Architekti | ArchDaily
- Jirčany Fire Station | SOA architekti | Archello

General

Delivery year	Building type
2023	Others
Area (m²)	Storeys
594	2



Photo credit: ©Alex Shoots Buildings

Products

Products and Services	Product volume (m³)
Sylva™ CLT Floors and Roofs, Sylva™ CLT Walls, Sylva360™	89





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Team

Partner of Stora Enso

A2 Timber

Architect

SOA Architekti

Main contractor

BW – Stavitelství

Developer

Municipality Psáry

Structural Engineer

A2 Timber

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