StoraEnso

Grums Brandstation (Fire Station) Grums, Sweden

The construction of a new fire rescue station in Grums, Värmland, marks a significant development in the region's emergency response infrastructure.

With around 240 callouts per year, the Grums Fire Station is one of the busiest stations in the area. The need for an updated facility led to the design of a modern fire station that prioritizes the work environment, technology, sustainability, and gender neutrality and will enhance the efficiency and effectiveness of the local rescue service.

The new fire station is located in an area that provides short emergency routes to the urban area, industry, E18 and Lake Vänern. The building is clearly visible to passing traffic with an illuminated facade in the gable, which is reminiscent of the lighting of the Rescue Service.

Many of the station's callouts involve traffic accidents on the E18, incidents at Gruvön's mill, or emergency operations on Lake Vänern. The existing station was in poor condition, and the new facility will not only improve working conditions for firefighters but also provide a more strategic location for emergency response. (Tengbom).

Sustainability

The prefabricated Sylva™ CLT Walls by Stora Enso only generated 4 tonnes of greenhouse gases (CO_2e) to manufacture and deliver to site. Compared to the 51 tonnes of carbon dioxide that the trees removed while they were growing and will store in for the forest this amount is a small fraction. Choosing Sylva CLT elements instead of non-renewables avoided 77 tonnes of greenhouse gases. (Source: Stora Enso 3rd party verified EPDs).

By sourcing locally from the Stora Enso Mill 2.1 kms away transport emissions were minimal.

The station's long side faces southwest, optimising roof space for solar panels. The façade combines heat-treated wood and perforated metal, while the gables are clad in sleek, unadorned metal to create a clean silhouette. Recessed sections of the façade feature warm brown, pigmented heat-treated wood, blending durability with aesthetic appeal. Most of the roof faces southwest to optimize solar panel installation. The northeast-facing slope holds other technical installations, keeping them less visible from the surroundings. (Tengbom).

Sylva Services

This project also leveraged Stora Enso's Sylva Services applying End Grain Sealer and temporary membranes in the mill so when the elements arrived on-site, they were ready to install immediately.

Collaboration

The collaboration between Peab, Räddningstjänsten Karlstadsregionen, Grums kommun and the nearby Stora Enso Mill has been instrumental in the project's success.

The project was completed in 2025.

Learn more about the advantages of mass timber download the whitepaper.

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General

Delivery year

2024

Building type

Others

Area (m²)

500

Units

1

Photo credit: Tengbom

Products

Products and Services

End Grain Sealer, Sylva™ CLT Walls, Sylva™ GLT Beams and Columns, Temporary Membrane

Product quality

NVI

Product volume (m³)

84

Team

Developer

Räddningstjänsten Karlstadsregionen
Grums kommun

Architect

Tengbom

Main contractor

PEAB AB