



StoraEnso

Martta Wendelin Päiväkoti Day Care Centre

Hyrylä, Tuusula

Welcome to Martta Wendelin, an internationally recognised award-winning daycare centre in Hyrylä, Tuusula.

Architecturally, the exteriors have been drawn with intentionally broad strokes. Wide canopy zones provide a backdrop for play activities in the yard, while the interiors form groups of general-purpose facilities designed for small groups of children. In between these two sections lies the heart of the building, which has an open layout with a variety of spaces, including a hall suitable for evening use, canteen areas, auxiliary facilities, and spaces for small groups.

The building and yard can be accessed from all directions, but maintenance traffic is separated from the drop-off routes meant for parents. With evening users in mind, the main entrance and hall are easy to spot from the street side. Access to the kitchen, washroom facilities and building technology is from the maintenance courtyard. Facing south at the plot's northern end, the somewhat elongated building shields the courtyard from traffic noise and emissions of the Tuusulanväylä motorway.

The building is a two-storey wooden building in fire class P2 and is equipped with sprinklers. For the client, it was important that the new daycare building had a stable structure that would be safe and long-lasting. As a result, a solid, single-material [cross-laminated timber \(CLT\)](#) by Stora Enso structure was chosen for the exterior walls, with the load-bearing partitioning walls and intermediate floors being built from CLT.

The CLT surfaces have mostly been left visible in the building interiors. The high, unheated attic space and its roof structure are built with CLT walls and CLT slabs, which enabled an open design with easy maintenance access and plenty of room for HVAC ducts.

In the design phase, the architects emphasised flexibility and the ability to connect spaces: three-metre-wide passageways can be cut into the load-bearing CLT partitioning walls later with no need for separate structural reinforcements. The structural solutions and detailing work focused in particular on the building's structural stability, fault tolerance, and ease of drying in the event of damage. Treated with a tinted glaze, the façade is clad with vertical larch panels of varying widths.

The plinths and retaining walls are cast-in-situ concrete. The roof is a light-coloured Noxite membrane infused with titanium dioxide to neutralise outdoor pollution. The eaves and downspouts are painted steel. Materials were selected based on their natural feel and down-to-earth appearance. All design and construction work was done with an eye on the criteria for the Nordic Swan environmental label.

The completed building was indeed awarded the Nordic Swan label, which emphasises low energy consumption, good indoor air, and the reusability and recyclability of building components. Measured in cubic metres, the Martta Wendelin daycare centre is the largest of its kind built from solid wood in Finland. Designs for the daycare centre were drawn up in 2018–2020, with construction beginning in 2020 and finishing in August 2022.

Construction work took place under a protective cover from the weather. The entire construction contract complied with the Nordic Swan criteria.

Awards

The Swan Ecolabel was awarded to the daycare centre in 2022 for the building's low energy consumption, excellent indoor air quality, and reuse and recyclability of building elements. The Finlandia Prize for Architecture was awarded in 2023 for high-quality Finnish architecture that highlights the cultural value and increases well-being.

2022 Wood Prize nominee



StoraEnso

2023 Wood Architecture Award / "Forum International Bois Construction" France [Watch and learn more about this project](#)

Text by Puulinfo



2023 Finlandia Prize for Architecture



Nordic Swan Ecolabel 2022



Photo credit: ARKTA

General

Delivery year

2021

Building type

Education

Area (m²)

2,952

Storeys

2

Products

Products and Services

Sylva™ CLT Floors and Roofs,
Sylva™ CLT Walls

Product quality

PEFC Certified | Surface Grades
VI and NVI with preapplied End
Grain Sealer | Sylva360 model
conversion

Product volume (m³)

1,694



StoraEnso

Team

Developer

City of Tuusula

Architect

Architects Frondelius + Keppo
+ Salmenperä Oy

Structural Engineer

Ideastructura Oy, Antti Nurmi

Main contractor

Arkta Rakennuskultti Oy

Specialist Timber Subcontractor

Puurakentajat Group Oy