



Villa Hoek van Holland

Hook of Holland, Netherlands

The Villa Hoek van Holland is a beautiful example of what can be achieved when a client's vision for sustainable living meets the dedication and expertise of a passionate construction team, like our customer's ELEMENT Buildings in the Netherlands.

This project is shortlisted for the Netherlands' National Timber Construction Award 2024 and showcases the potential of mass timber as a primary building material, blending aesthetic appeal with low embodied emissions.

Project

Located in Hoek van Holland, this villa was commissioned by a private client who wanted their dream home to be connected and close to nature.

Design

The architectural design by WnS Architecten emphasizes clean lines and open spaces, creating a seamless connection between the indoor and outdoor environments.

The use of [Sylva™ CLT Walls and Floors](#) provided structural integrity while enhancing the villa's aesthetic with its natural warmth and beauty.

VITO Bouw, the main contractor, coordinated the construction process with precision, ensuring that every detail met the highest standards of quality. ELEMENT Buildings, the specialists in timber construction, brought their extensive knowledge and experience to the project, ensuring that the timber elements were both functional and visually striking.

Engineering

Solid Timber Engineering played a crucial role in the project, providing detailed engineering solutions that maximized the benefits of timber construction. Adviesbureau Daenen, responsible for the engineering of the substructure, ensured that the foundation was robust and capable of supporting the innovative timber design.

Sustainability

One of the winning features of the Villa Hoek van Holland is its low carbon footprint. The use of Sylva, in particular, offers excellent thermal insulation properties, which contributed to the home's energy efficiency.

The carbon footprint to manufacture the Sylva elements is impressively low, only 6 tonnes CO₂e as [third-party verified in environmental product declarations](#). Transport emissions were also low (3 tonnes CO₂e). The Carbon dioxide removed from the air and stored in the building: 82.45 tonnes CO₂. Emissions avoided by using wood instead of non-renewable construction materials: 123.67 tonnes CO₂e.

Are you interested in other projects built in the Netherlands with a Sylva kit?

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Learn more about mass timber construction [download whitepaper](#)



StoraEnso

General

Delivery year

2023

Area (m²)

640

Units

1

Building type

1-2 Family Dwellings

Storeys

2



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Products

Products and Services

Sylva™ CLT Floors and Roofs,
Sylva™ CLT Walls

Product quality

INV, IBI

Product volume (m³)

108

Number of deliveries

3

Team

Architect

WnS Architecten

Structural Engineer

Adviesbureau Daenen

Main contractor

VITO Bouw

Specialist Timber Subcontractor

ELEMENT Buildings

Timber Engineer

Solid Timber Engineering