

Innovative timber construction elements - Norway

Price 20 € / CORC



ITEM

Item URL: <https://puro.earth/100012>

Item reference number #100012

DEALER

Termowood

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Location: Høversjøvegen 49, 2090, Norway

DESCRIPTION

Tewo is proud to be the first Norwegian timber company on the Puro.earth marketplace. Located in the beautiful Hurdal valley in South-Eastern Norway, they have been developing timber construction elements for several years. In April 2020, they inaugurated a highly automated production line for cross-laminated timber and for the assembly of building elements. This puts TEWO in another league as they can significantly increase production volumes and reach new markets. Their patented technology is an innovation in the timber construction industry. Locally sourced, PEFC certified lumber is used to make pre-fabricated, insulated wall elements. The products eliminate waste and reduce building time which makes them highly competitive and more sustainable than traditional methods.

As trees grow, they capture CO₂. One ton of wood absorbs 1,8 tons of CO₂ during the growth period, but the CO₂ will be released back into the atmosphere if the tree decomposes or is used for paper or energy. However, in the case of bio-based construction materials, carbon is stored in the building for the long-term, disrupting the normal carbon cycle and creating a net-negative process because sustainable forestry ensures that trees are re-planted. In the case of Scandinavia, the overall forest coverage has increased over the last 40 years.

In Europe, buildings are regulated to have a minimum lifetime of 50 years, but in real life, the CO₂ storage is likely to be much longer. By storing CO₂ for a minimum of 50 years, bio-based construction materials present an opportunity for companies to invest in carbon capture and storage and take proactive steps towards carbon net-zero.

CARBON REMOVAL INFORMATION

Carbon removal method :	Bio-based construction materials
Capture of CO₂:	Photosynthesis
Stabilization of CO₂:	Pre-cut building element
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Permanence:	Over 50 years
Status of production:	Audited
Unit of product volume:	m ²
Embodied carbon in product:	29kg
Year of first issuance:	2020
Minimum amount to negotiate:	20
Examples of usage:	Houses, vacation cottages, schools, agricultural buildings.

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Co-benefits:

Less wasted timber material. All orders are pre-fabricated so that there is no loss of material at the building site. Compared to traditional building methods TEWO's innovative products reduce waste that is often burnt resulting in emissions.

Reusable: TEWO's new flex internal wall product is reusable. In comparison with traditional dry plaster, there is a lower CO₂ footprint and less waste.

Reduced the need for concrete and cement. Cement is a huge source of greenhouse gas emissions. TEWO's solid wood products can reduce the need for cement in larger buildings. Better air. TEWO's products "breathe" better than traditional structures. This offers benefits to the occupants of the buildings.

Harvesting and managing forests sustainably decrease the risk of forest fires, insects, and diseases. TEWO uses only timber from local certified forestry.

Co-benefits are not in the scope of Puro.earth verification.

Explanation of avoided emissions:

Each square meter of TEWO wall element removes 29 kg of CO₂ from the atmosphere into long-term storage in the product. Using the LCA methodology, TEWO can accurately measure the net carbon content of each timber building element that is produced. All emissions from the harvesting of the timber through to the production and packaging of the products are accounted for in the environmental product declaration (EPD) made by Norsk Treteknisk Institutt following the methodology described in ISO 14044 and ISO 14064 standards where applicable. The facility and documentation were audited by DNV GL in November 2020.

Economic acceleration impact:

TEWO is a company in growth. CORC revenue is reinvested in the further development of the production facility and expansion of sales to new geographical markets. By purchasing CORCs from TEWO, your company is assured of a significant, verified long-term removal of CO₂ and will support innovative, green technology.

Posted on :

01/06/2021

AUDIT INFORMATION

Audit statement :

https://static.puro.earth/live/uploads/tinymce/Suppliers/TEWO/Certificate_Termowood_As_2020.2_010621.pdf

Facility ID:

643002406801000091

Independently verified by:

DNV GL