



The eco-friendly design, sustainable timber pavilion | Photo source [Marco Vermeulen](#)

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DUTCH PAVILION USES ECO-FRIENDLY DESIGN, SUSTAINABLE TIMBER

 ARCHITECTURE & DESIGN

The pavilion is designed to showcase how cross-laminated timber can be used in eco-friendly construction

Spotted: Netherlands-based designers, Studio Marco Vermeulen, have created an eco-friendly pavilion using timber. The goal of the design is to demonstrate the environmental benefit of using sustainable materials.

The pavilion was built with [cross-laminated timber](#). Cross-laminated timber is a composite of locally sourced wood that has been cut into planks, which are then glued together using a formation that increases flexibility and strength.

The result is a sustainably sourced building material that can replace brick, block, concrete and timber frame systems. Cross-laminated timber has a lower carbon footprint than other types of construction material, [according to the designers](#). That is because timber consumes carbon monoxide instead of producing it.

The fact that it is prefabricated means it is also easier and quicker to use in building projects, they say. The pavilion was built with modular parts so it can be taken down and reassembled for future events.

The pavilion was built as part of the [Dutch Design Week](#) to house exhibits using timber in a sustainable, eco-friendly manner.

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Takeaway:

The transportation of building materials in the UK emits 23 million tonnes of CO₂, according to a [study by the University of Rotterdam](#). This does not include the CO₂ emissions of steel, concrete and other popular construction materials. Designers like Studio Marco Vermeulen are arguing that the proper use of locally sourced, sustainable timber could be more eco-friendly. The studio has said that the Netherlands [could save 100 megatons of carbon](#) if sustainable timber was used in housing construction.