Reuse

CASE STUDY

THE GREEN HOUSE – DESIGN FOR FLEXIBILITY AND REUSE

The Green House houses a restaurant with its own urban farm and a conference centre. True to the principles of the circular economy, the entire building can be disassembled. Owing to their high degree of precision, steel components are easy to take apart and put together again. A special feature of the steel frame of The Green House is its square grid, with which multiple building configurations are possible with one-and-the-same construction kit.

In fifteen years, it is anticipated to be taken apart and rebuilt at another site. Reuse also played an important part in the choice of materials for the project.

The pavilion was designed as a generic construction kit with a steel frame comprised of hot dip galvanized steel sections that can easily be disassembled for reuse. Galvanizing was also used for trellis trusses for the façade, the roof (including roof construction for a small greenhouse), balustrades and the staircase within the pavilion.

The hot dip galvanized steel perfectly underscores the bold character of The Green House and the urban-farming greenhouse. The architects also recognised that hot dip galvanizing lends itself perfectly to disassembly and reassembly - as the coating will not be damaged in that procedure.

The Green House could be completely taken apart and rebuilt at another site

Above
The galvanized steel frame of the Green House is designed for future ease of dismantling and reuse.

Image credits: Lucas van der Wee

Learn more about galvanized steel and the circular economy

The galvanizing industry is moving forwards - keeping galvanized steel at the forefront of solutions for tackling climate change and delivering the circular economy.

Galvanized steel can provide innovative solutions that optimise durability and facilitate circularity of steel structures and components. These solutions can be easily implemented using this well-established and simple method of protecting steel.

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