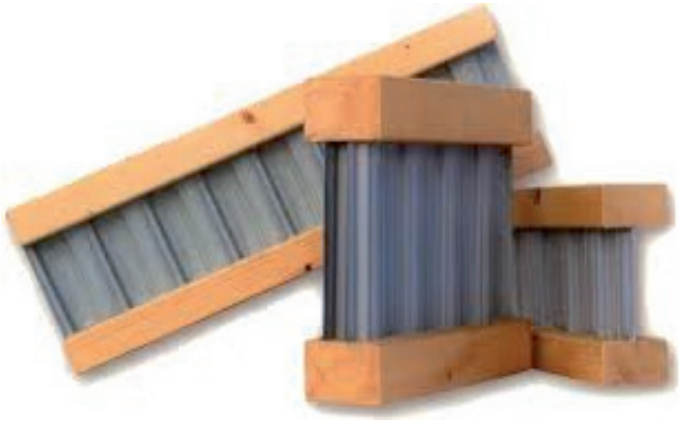
WST WOOD STEEL Tragwerke GmbH

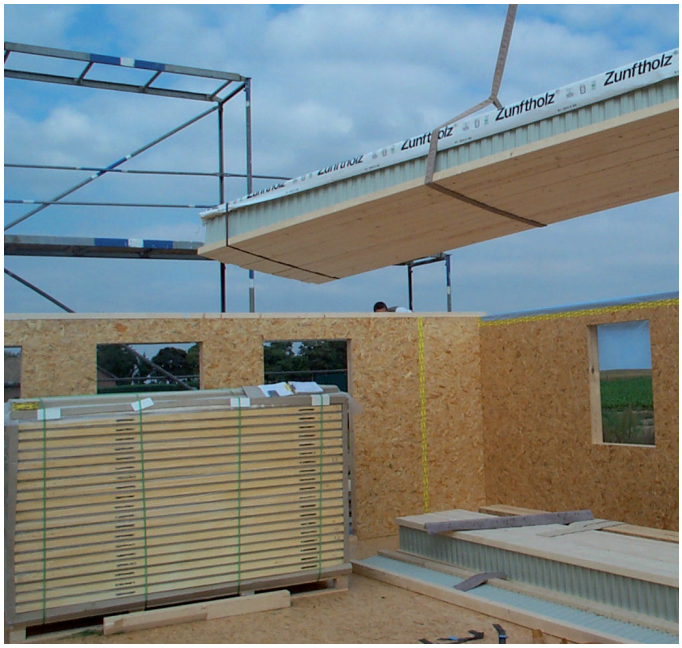
HTS-HYBRIDBEAMS

THE INTELLIGENT CONSTRUCTION SOLUTION



Typically, the HTS Hybridbeams are produced specifically for each object - without waste. This way, the respective optimum economic solution can be realized from hundreds of possibilities. It is designed easily and in security with the support of structural analysis software dimensioning. Because of the union of wood and steel qualities, a unique synergy of hybrid technology has been developed.

HTS Hybridbeams are:



EASY
With no use of a special connector, a fast processing, and easy connections, the beams are a popular product in the construction industry.

STRONG
The sophisticated technology tradition of good material combination wood-steel turns the hybrid beam into a muscle-man product.

LIGHT
A resource-efficient use of materials facilitates and accelerates work processes and reveals its advantages at the final object.

SECURE
Without glue, steel with double corrosion protection is impelled into the wood by a hydraulic device. The production partners are independently monitored. HTS Hybridbeams carry the Ü mark (mark of conformity).

ECONOMICALLY
With the span to 24 m, you save foundations, columns, and many connection points. The customer gains place, light and space. With this unique feature you stand out from the competition and can secure more orders.

BEAUTIFUL
Lines can be shown as visible support or disguised in the design: with HTS you always have modern, sleek and delicate lines.

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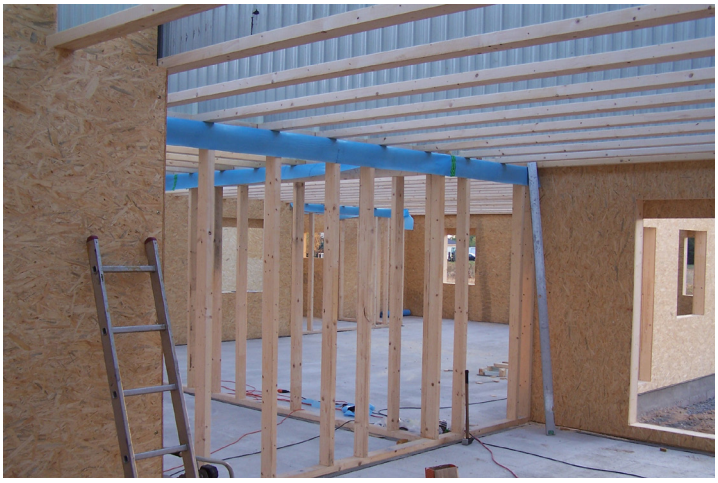

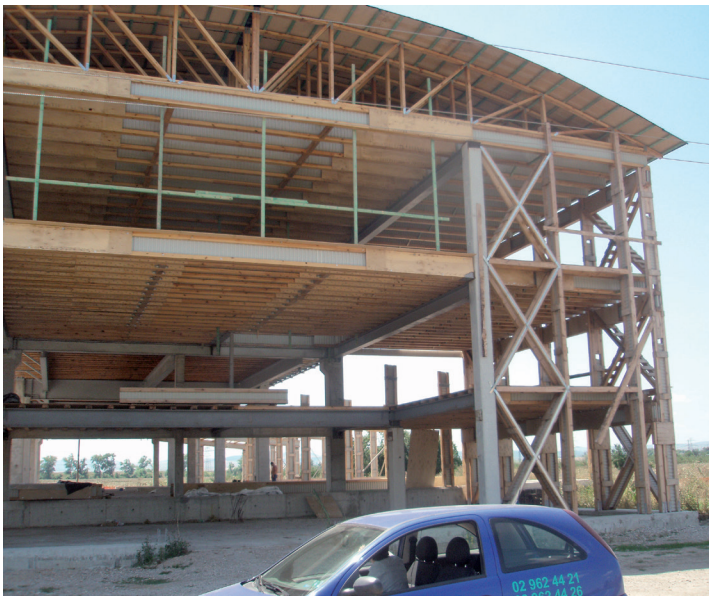

The steel web is profile-waved and made out of hot-dip galvanized materials of quality S550 GD + Z in accordance with DIN EN 10147 1995 – 08. The steel quality meets the requirements of type approval. The zinc coating is at least 275 g / m2. The corrosion behavior of hot-dip galvanized surfaces under different corrosion conditions is divided into categories C1 to C4. C3 is usually sufficiently in high humidity and moderate air pollution from the outside, that is, industrial or urban environment or coastal climate with low chloride content. In the case of C3 a life of the zinc coating of 20-30 years can be expected. After the end of the life of the zinc coating, the supporting steel core is still not affected and can then be resealed by a new coating. Under normal indoor conditions a life of 50 to 100 years is to be expected.

In opposition to painted lack coatings, hot-tip galvanization presents the following advantages:

- Significantly better resistance
- Thanks to the cathodic protection effect, no corrosion cluster forms because of smaller surface damage.
- No infiltration / dissolution possible

Wood is perfectly suited to transmit tensile and compressive stress in the fiber direction. Top and bottom belts in the HTS Hybridbeams bear these forces. The shear flow between the belts is provided by one or two parallel steel bars! . Thus, these beams that have been designed out of solid wood have, compared to the double beams double-T beams, an improved stability and are largely undistorted.

Technical specifications

- Belts softwood (KVH), S10 or C24h, dried, finger-jointed, planed
- Web 0.5 mm special steel, 2-fold corrosion protection galvanized
- Beam heights 230- 670 mm
- Belt height 60-160 mm
- Belt width 80-200 mm
- Carrier weight 5 - 30kg
- Superelevation l/300 optional
- DIBT (GERMAN INSTITUTE FOR CONSTRUCTION ENGINEERING) Authorization No. Z-9.1.262

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