



GH - T-girder anchors

EN 14545:2008



Properties

Steel grade S 250 GD Surface Z 275

For angle bracket basic principles, see download document

Fasteners

Fixing in timber with fasteners to ETA-13/0523

GH connector nails (threaded nails) $\begin{array}{c} 4.0 \times 35 \, / \, 40 \, / \, 50 \, / \, 60 \, / \, 75 \, / \, 100 \text{ mm} \\ \text{GH screw} \\ \hline \\ 5.0 \times 25 \, / \, 35 \, / \, 40 \, / \, 50 \, / \, 60 \, / \, 70 \text{ mm} \end{array}$

The joint can also be made with an interlayer (e.g. OSB).

Nail pattern

Full nailing / partial nailing, see resistance table

Calculation of the design values of the load-carrying capacities to EN 1995-1-1 8.1.4

The tables contain characteristic load-carrying capacities (resistances) and design values of the load-carrying capacity (resistance) "short-term" in kN

In each case, half of the nails are to be arranged in one row of holes.

 $\label{thm:linear_problem} A \ joint \ should \ always \ consist \ of \ two \ T-girder \ anchors \ attached \ diagonally \ opposite \ to \ each \ other.$

Otherwise the eccentricity of the joint must be taken into consideration.

The effects of the notches in the T-girder on the load-carrying capacity is not taken into consideration in the table value of the steel resistance

The resistance of the joint perpendicular to the grain must be determined to EN 1995-1-1 8.1.4.

Remarks:

Timber strength class 350 kg/m³ char. density.

The fastener minimum edge distances to EC 5 shall be satisfied.

All calculations and values are exclusively for GH products and their fasteners.

The load-bearing capacities were determined on the basis of ETA 13/0523. It is not possible to transfer the values to third party makes.

Disclaimer:

Despite careful calculations and checking, no liability is accepted for the technical data.

Subject to change without notice

For technical drawing, see website www.holzverbinder.de







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Characteristic load-carrying capacity (resistance) and design value of the load-carrying capacity (resistance) ("short-term") in kN,

Load direction F₁ for two connectors

Number of	LDC	Fasteners			
nails per connector		4.0x40	4.0x50	4.0x60	Steel
2	char.	3,05	3,65	3,89	6,87
	short-term	2,11	2,52	2,70	6,87
4	char.	6,10	7,29	7,79	6,87
	short-term	4,22	5,05	5,39	6,87
6	char.	9,15	10,9	11,7	6,87
	short-term	6,33	7,57	8,09	6,87
8	char.	12,2	14,6	15,6	6,87
	short-term	8,45	10,10	10,78	6,87
10	char.	15,3	18,2	19,5	6,87
	short-term	10,6	12,6	13,5	6,87

Holes usable for the nailing (purlin joint)



