

PRODUCT DATA SHEET

TENSION STRAP HIGHLOAD

PRODUCT DESCRIPTION

The HighLoad tension straps are designed for tensile loads that act on timber/timber connections. They are perfect for the design of multi-storey CLT buildings with floor slab thicknesses of up to 240 mm. Their optimised geometry is designed for three different load levels with characteristic tensile strengths of up to 200 kN. In order to achieve the stated values, the tension straps must be secured using Eurotec WBS Strong screws (see table Tensile strength F1).

APPLICATIONS

- Conditionally corrosion-resistant and suitable for use in service classes 1, 2 and 3 according to DIN EN 1995 (Eurocode 5)
- For tensile loads of up to 200 kN
- To be combined with WBS Strong

MATERIAL

- S355 Hardened carbon steel + galvanized



CERTIFICATION

- European standard EN 1090-1



TENSILE STRENGTH F1

Tension strap Highload	Use of fastening elements			Wood $F_{1,k}$ [kN]	Steel $F_{1,k}$ [kN]
		Screw quantity (top+bottom) [mm]			
HH640	WBS Strong	$\varnothing 8 \times 80$	15+15	56	78
		$\varnothing 8 \times 100$		71	
HH760	WBS Strong	$\varnothing 8 \times 80$	28+28	105	130
		$\varnothing 8 \times 100$		132	
HH820	WBS Strong	$\varnothing 8 \times 80$	40+40	168	195
		$\varnothing 8 \times 100$		200	

During the assembly process, the minimum dimensions for the edge distances are taken into account. For CLT plates, $n_{ef} = 1$, as the screws are offset. For class S355 steel plates, the yield and fracture stresses are assumed to be the following: $F_y = 355$ MPa, and $F_u = 510$ MPa. For the static design values, $\gamma_{m, timber} = 1,3$ and $k_{mod} = 0,9$ are used for the wind effects and $\gamma_{m, steel} = 1,25$ for the steel failure.

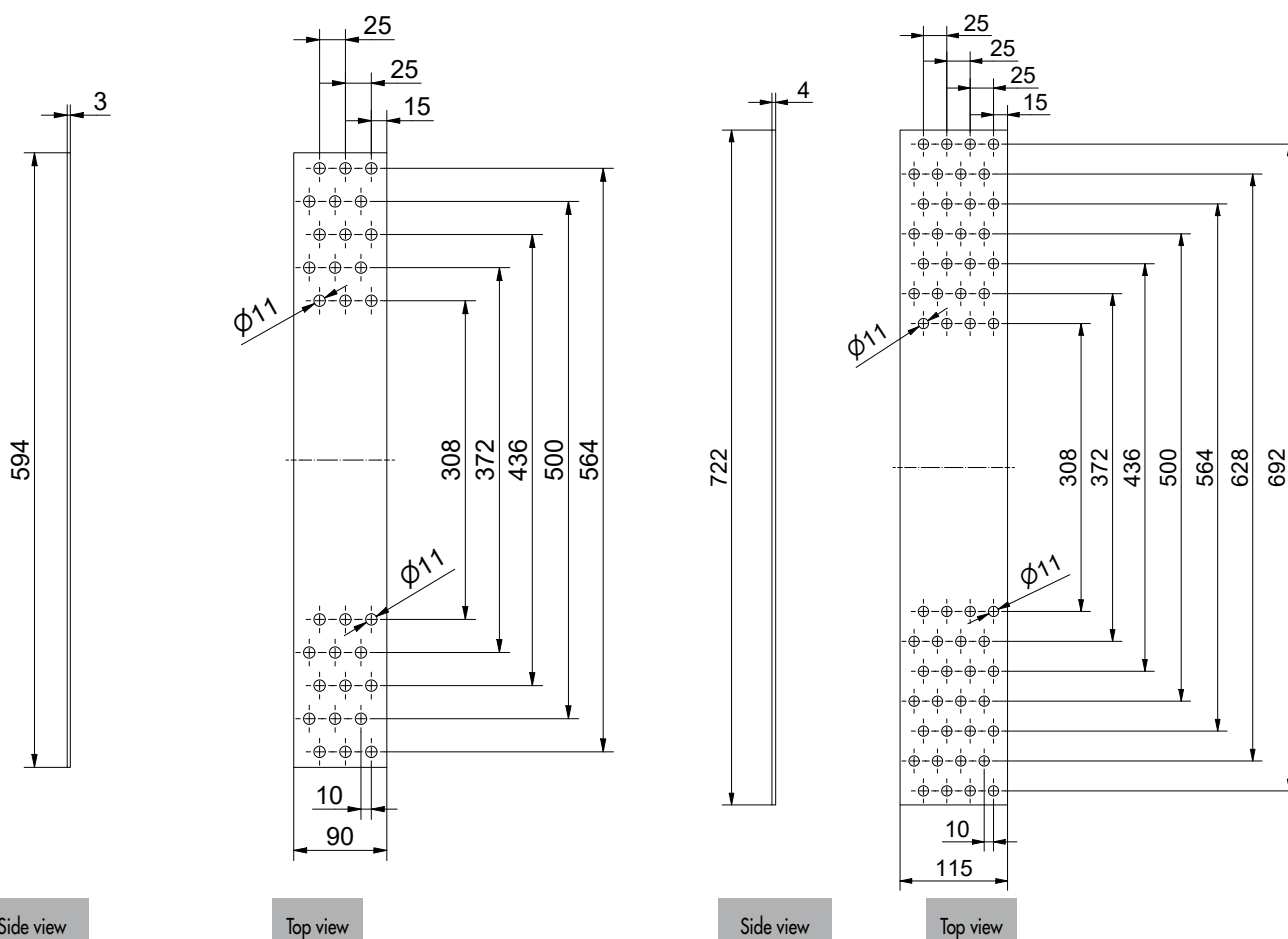
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PRODUCT TABLE

Tension strap HighLoad								
Art. no.	Designation	Material	H [mm]	W [mm]	t _s [mm]	Drill holes ø 11 mm	Base plate thickness t _{max} [mm]	PU
954190	HH640	S355	634	90	3	30	240	1
954191	HH760	S355	762	115	4	56	240	1
954192	HH820	S355	826	140	5	80	240	1

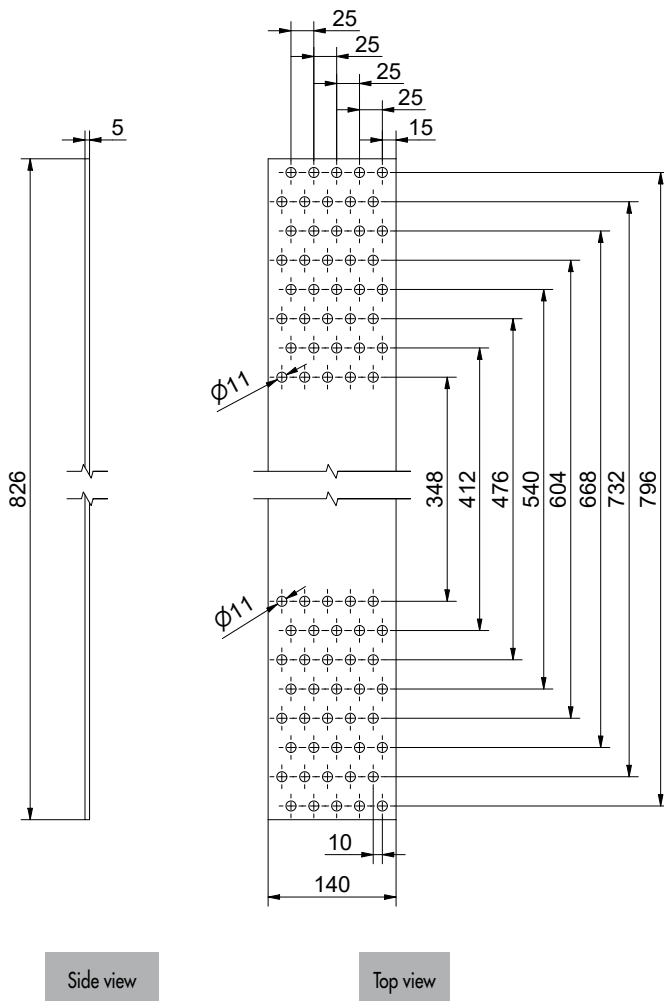
DRAWING



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DRAWING



If you are not familiar with how this product is used, and particularly with the product's intended use, please contact our Application Technology department (Technik@eurotec.team).