

PRODUCT DATA SHEET

TAURUS 45°

PRODUCT DESCRIPTION

The Taurus 45° is suitable for affixing metal tension straps in timber construction. To achieve a load-carrying connection, the screw head is fully flush with the material, and Taurus ensures this. In the metal flaps only simple round holes are milled / drilled or lasered to prevent the Taurus from sliding out. With Taurus, the screws are affixed at a 45° angle to ensure the simpler and faster transfer of tensile forces. The Taurus 45° is compatible with Ø 8 mm and Ø 10 mm countersunk head screws.



APPLICATIONS

- For affixing metal tension straps in timber construction
- Conditionally corrosion-resistant and suitable for use in service classes 1 and 2 according to DIN EN 1995 (Eurocode 5)

MATERIAL

- Galvanised cast steel S235
- Free of chromium (VI) oxide
- Good resistance to mechanical stresses

CERTIFICATION

- Addition to ETA-11/0024

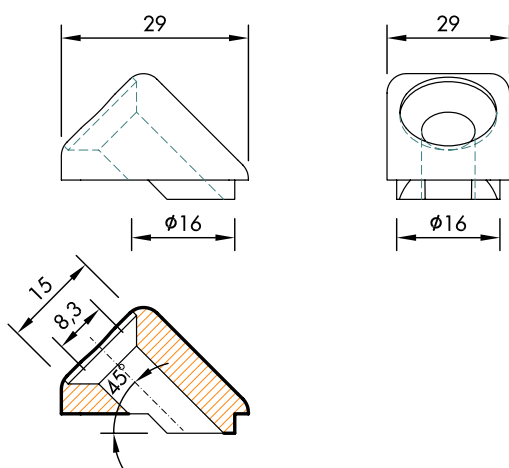


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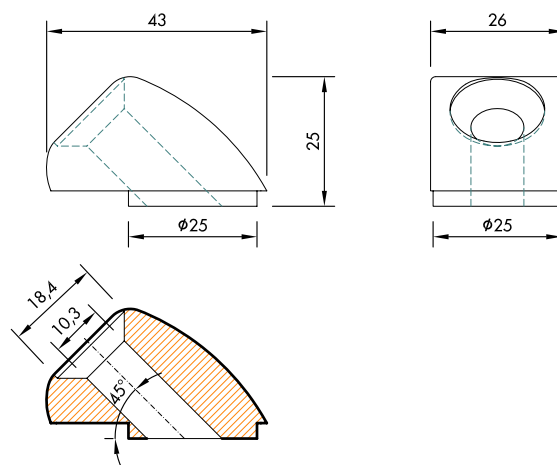
TAURUS 45°

TECHNICAL INFORMATION

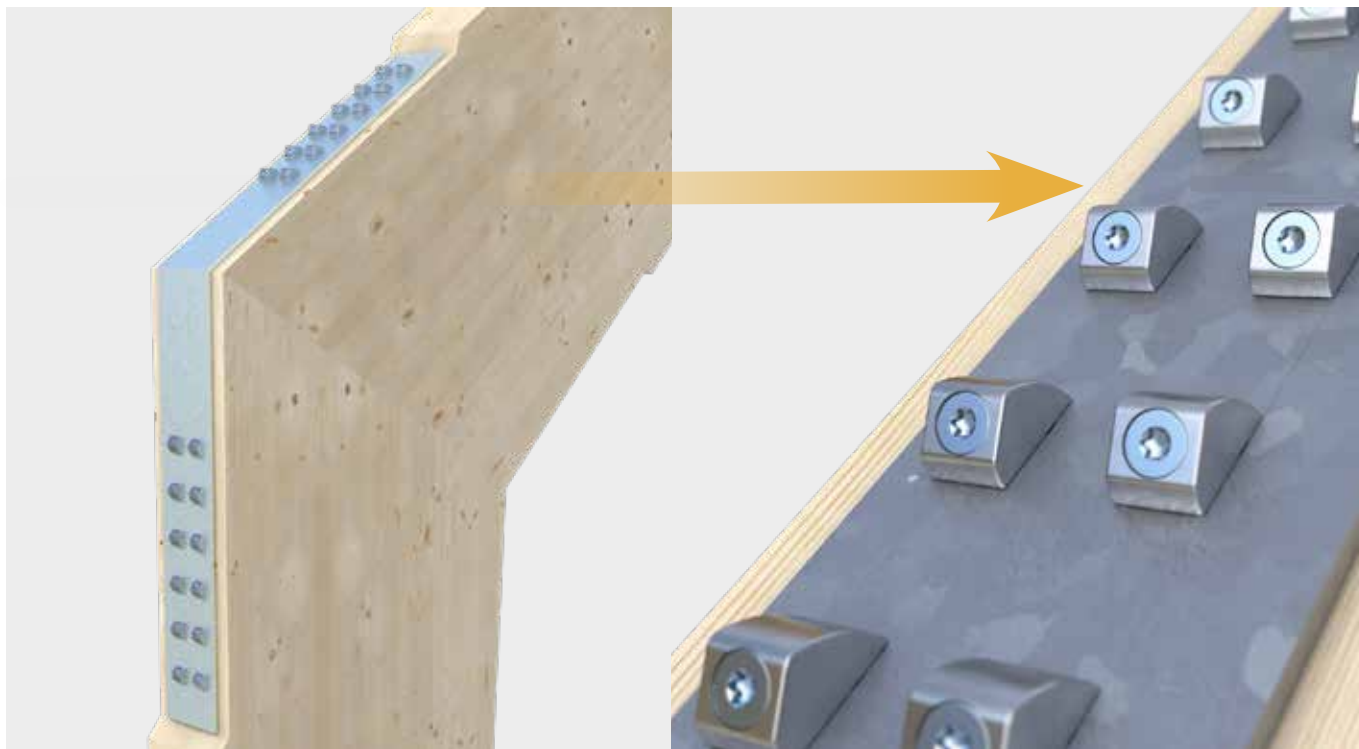
Taurus 45° for Ø 8 mm KonstruX screw



Taurus 45° for Ø 10 mm KonstruX screw

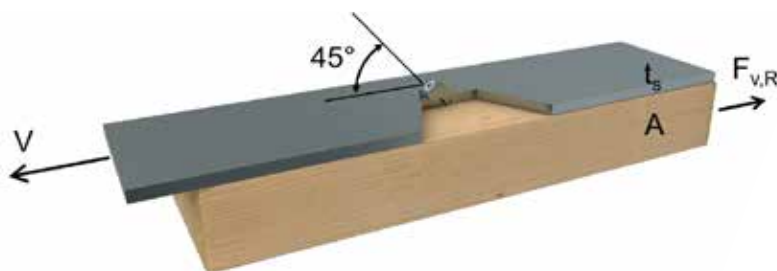
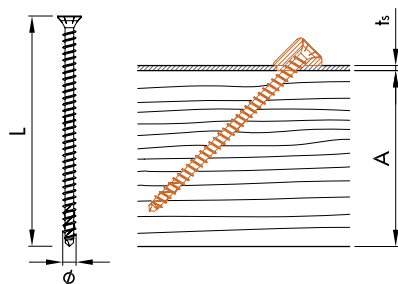


APPLICATION IMAGE



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TAURUS 45°

STEEL-TIMBER, INCLINED SCREWS (KONSTRUX ST COUNTERSUNK HEAD)
WITH TAURUS 45° WASHER

Load-carrying capacity of shear-tension screws with minimum required lengths.

A [mm]	Ø 8 mm $3 \text{ mm} \leq t_s \leq 5 \text{ mm}$			Ø 10 mm $3 \text{ mm} \leq t_s \leq 10 \text{ mm}$		
	$F_{v,Rk}$ [kN]	$F_{v,Rd}$ [kN]	L [mm]	$F_{v,Rk}$ [kN]	$F_{v,Rd}$ [kN]	L [mm]
60						
80	4,85	3,36	95			
100	6,87	4,75	125	7,20	4,98	125
120	8,88	6,15	155	9,64	6,68	155
140	11,56	8,00	195	12,91	8,93	195
160	13,24	9,16	220	14,94	10,35	220
180	14,91	10,32	245	16,98	11,76	245
200	16,59	11,48	270	19,02	13,17	270
220	17,68	12,65	295	21,47	14,86	300
240	17,68	14,14	330	23,33	16,56	330
260	17,68	14,14	330	23,33	18,25	360
280	17,68	14,14	375	23,33	18,67	400
280	17,68	14,14	400	23,33	18,67	400
300	17,68	14,14	430	23,33	18,67	400
320	17,68	14,14	430	23,33	18,67	450
340	17,68	14,14	480	23,33	18,67	450
360	17,68	14,14	545	23,33	18,67	500
400				23,33	18,67	550
420				23,33	18,67	600
460				23,33	18,67	650
500				23,33	18,67	700
520				23,33	18,67	750
560				23,33	18,67	800

Calculated according to EN 1995-1-1, with non-predrilled holes and wood density $\rho_k = 380 \text{ kg/m}^3$. Design values $F_{v,Rd}$ calculated considering $k_{mod} = 0,8$, $\gamma_M = 1,3$, and $\gamma_{M2} = 1,25$. For the longer screws, design values may differ from the corresponding characteristic failure mode (withdrawal or steel tension fracture). L is the minimum screw length for achieving the respective load-carrying capacity.

Please note: these are planning aids. Projects must be calculated only by authorized persons.

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PRODUCT TABLE

Taurus 45°					
Art. no.	Dimensions [mm] ^{a)}	Plate hole diameter [mm]	Plate thickness [mm]	Weight [g]	PU
800268	29 x 19 x 19,5	Ø 17	3 to 5	34	10
800269	43 x 26 x 25	Ø 26	3 to 10	115	10

a) length x width x height

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).