PRODUCT DATA SHEET TAURUS 45°

PRODUCT DESCRIPTION

Taurus washers are suitable for affixing metal plates onto timber with KonstruX screws in a 45° screwing angle. To achieve a tight load-carrying connection, the screw head need to be flush with the washer surface, and Taurus ensures this. The plate plates only need simple round holes milled or lasered to prevent Taurus from sliding out. With Taurus, tensile forces are correctly transfered from one component to another by means of shear-tension KonstruX screws. Taurus washers are compatible with ø 6,5 mm, 8 mm, and 10 mm countersunk KonstruX screws.

APPLICATIONS

- For affixing metal plates onto timber with KonstruX screws in a 45° screwing angle.
- 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

ETA CE requested

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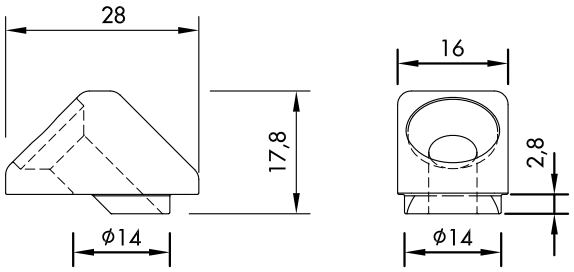
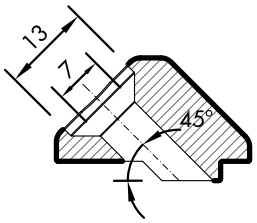
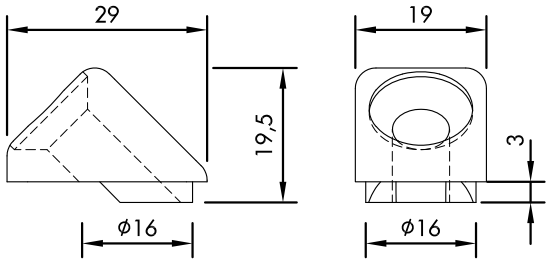
TECHNICAL INFORMATION

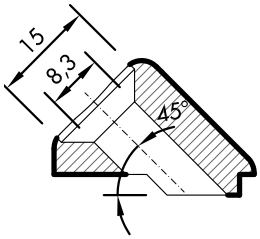
Taurus 45° for Ø 6,5 mm KonstruX screw



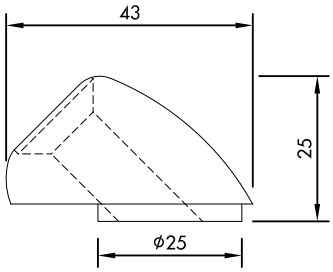


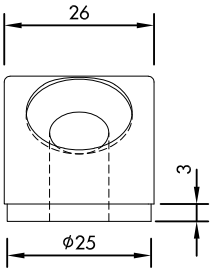
Taurus 45° for Ø 8 mm KonstruX screw

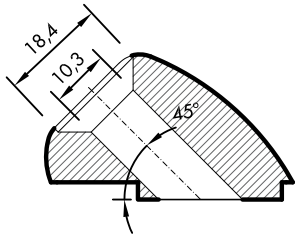




Taurus 45° for Ø 10 mm KonstruX screw







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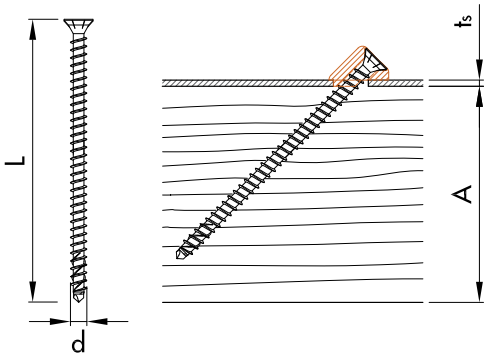
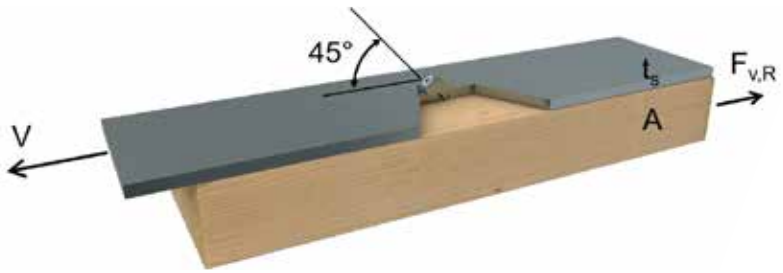
STEEL-TIMBER, INCLINED SCREWS (KONSTRUX ST COUNTERSUNK HEAD) WITH TAURUS 45° WASHER





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

	Ø 6,5 mm 3 mm ≤ t_s ≤ 4 mm			Ø 8 mm 3 mm ≤ t_s ≤ 5 mm			Ø 10 mm 3 mm ≤ t_s ≤ 10 mm		
A [mm]	$F_{v,Rk}$ [kN]	$F_{v,Rd}$ [kN]	L [mm]	$F_{v,Rk}$ [kN]	$F_{v,Rd}$ [kN]	L [mm]	$F_{v,Rk}$ [kN]	$F_{v,Rd}$ [kN]	L [mm]
60	4,38	2,70	80						
80	5,92	3,64	100	5,19	3,19	95			
100	7,46	4,59	120	7,48	4,60	125	7,20	4,43	125
120	9,00	5,54	140	9,77	6,01	155	9,83	6,05	155
140				12,82	7,89	195	13,34	8,21	195
160				14,73	9,06	220	15,53	9,56	220
180				16,64	10,24	245	17,73	10,91	245
200				17,68	10,88	270	19,92	12,26	270
220				17,68	10,88	295	22,55	13,88	300
240				17,68	10,88	330	23,33	14,36	330
260				17,68	10,88	375	23,33	14,36	360
280				17,68	10,88	400	23,33	14,36	400
300				17,68	10,88	430	23,33	14,36	450
340				17,68	10,88	480	23,33	14,36	500
380				17,68	10,88	545	23,33	14,36	550
420							23,33	14,36	600
460							23,33	14,36	650
500							23,33	14,36	700
520							23,33	14,36	750
560							23,33	14,36	800
640							23,33	14,36	900
700							23,33	14,36	1000

Calculated according to EN 1995-1-1, with non-predrilled holes and wood density ρk= 385 kg / m³. Design values FRd calculated considering kmod = 0,8, γM = 1,3, and γM2 = 1,25. L is the minimum screw length for achieving the respective load-carrying capacity. A is the minimum timber component thickness for the corresponding screw length. For the longer screws, design values may differ from the corresponding characteristic failure mode (withdrawal or steel tension fracture).
Please note: these are planning aids. Projects must be calculated only by authorized persons.

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PRODUCT TABLE

Taurus 45°						
Art. no.	Designation	Dimensions [mm][a)]	Plate hole diameter [mm]	Plate thickness [mm]	Weight [g]	PU
800313	Taurus 45° – 6,5	28 x 16 x 17,8	Ø 15	3 to 4	30	10
800268	Taurus 45° – 8,0	29 x 19 x 19,5	Ø 17	3 to 5	34	10
800269	Taurus 45° – 10,0	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).

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