

Product data sheet – Wing-tipped drilling screw

Product description

The wing-tipped drilling screw made of hardened stainless steel or carbon steel is a screw that was specifically developed for fixing narrow profiles.

The screw has a drill point with special clearing wings and a countersunk head with TX drive.

Material

Stainless Steel

Hardened stainless steel

- Stainless steel according to DIN EN 10088
- Acid-resistant under certain circumstances
- 10 years of experience without any corrosion problems when used with suitable woods
- 50% higher breaking torque than A2 and A4
- Magnetisable
- Can be used in service classes 1, 2 and 3
- Not suitable for woods containing high levels of tannin, such as cumarú, oak, merbau, robinia, etc.
- Not suitable for salty atmospheres
- Not suitable for chlorinated atmospheres

Blue galvanised

- High strength
- Hardened due to thermal treatment
- Can be used in service classes 1 and 2 according to DIN EN 1995 Eurocode 5

Advantages

- No pre-drilling required, clearing wings drill the wood larger than the screw's thread diameter
- Core hole and counter thread in the steel are drilled or formed independently
- The screw is suitable for outdoor use only for steel/wood joints with one screw per fixing point
- Not suitable for dynamically stressed joints, e.g. bridge decking
- No screws hitting when screwed in using the TX drive



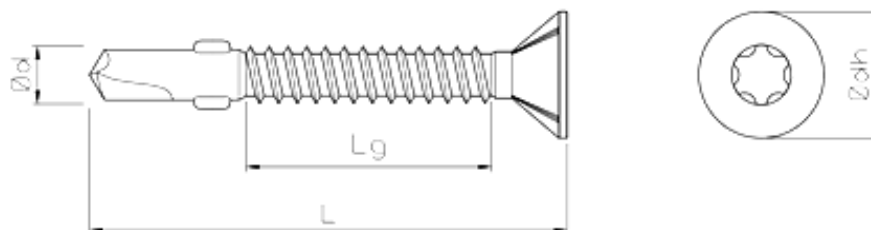
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Product table

Wing-tipped drilling screw							
Art. no.	Dimensions Ød x L [mm]	Thread length lg [mm]	Head diameter Ødk [mm]	Drive	Clamping thickness ^{a)}	Drilling capacity [mm]	PU
Hardened stainless steel							
901990	4,8 x 38	22	9,5	TX25 • 20	4	200	200
111404	5,5 x 45	26,5	10,8	TX30 • 25	5	200	200
111405	5,5 x 50	32	10,8	TX30 • 30	5	200	200
111406	6,3 x 60	31	12,4	TX30 • 35	6	200	200
901581	6,3 x 85	46	12,4	TX30 • 60	6	100	100
Blue galvanised							
111841	4,2 x 32	17	8,1	TX20 • 15	3	500	500
111842	4,2 x 38	23	8,1	TX20 • 20	3	500	500
111843	4,8 x 45	27	9,5	TX25 • 25	4	500	500
111844	5,5 x 50	32	10,8	TX30 • 30	5	200	200
111409	5,5 x 60	41	10,8	TX30 • 40	5	200	200
111410	5,5 x 70	51	10,8	TX30 • 50	5	200	200
111411	5,5 x 80	61	10,8	TX30 • 60	5	200	200
111412	5,5 x 100	81	10,8	TX30 • 80	5	200	200
111413	5,5 x 120	101	10,8	TX30 • 100	5	200	200
111845	6,3 x 50	31	12,4	TX30 • 25	6	200	200
111846	6,3 x 60	31	12,4	TX30 • 35	6	200	200
111847	6,3 x 70	41	12,4	TX30 • 45	6	200	200
111848	6,3 x 80	46	12,4	TX30 • 55	6	200	200
111414	6,3 x 100	46	12,4	TX30 • 75	6	200	200
111415	6,3 x 120	46	12,4	TX30 • 95	6	200	200

a) Clamping thickness = mounted part thickness + plate thickness t; tmax = drilling capacity

Drawing



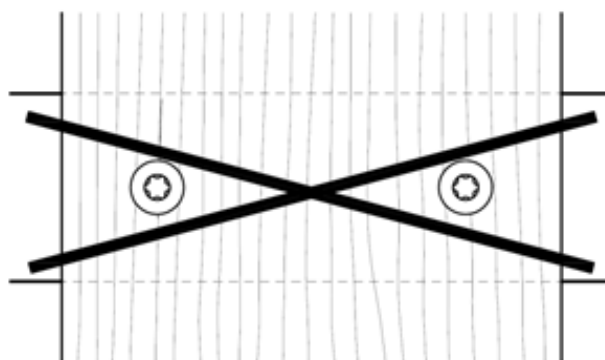
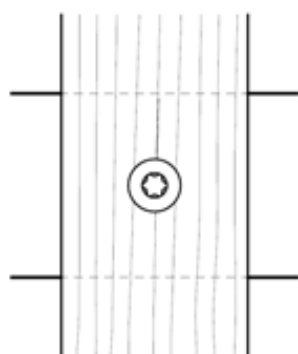
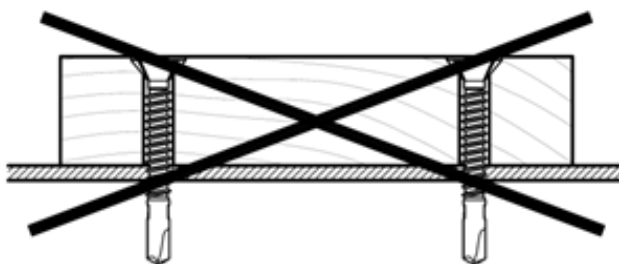
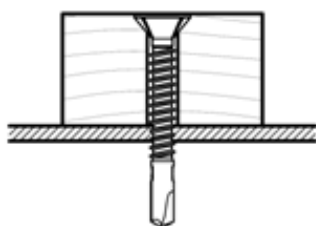
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Application notes

The wing-tipped drilling screw is only intended for fixing narrow profiles, i.e. for applications where there is only one screw per fixing point.

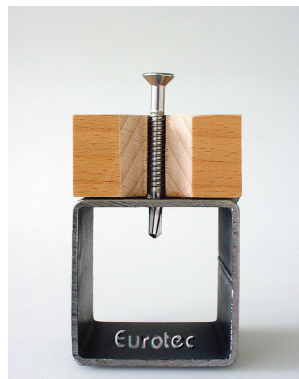
When fixing boards, for example, with two screws per fixing point, these two screws interfere with one another when they 'bend' with the 'working' wood and shear off. This can also happen with relatively soft coniferous wood.

The wing-tipped drilling screw is not suitable for fixing wood/aluminium joints.



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Images of applications



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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