

COMPLETE PROGRAMME

Timber - Deck and Garden - Roof - Façade - Concrete



Expansion of production capacity

Since successfully beginning production in 2013, Eurotec has been able to produce an ever-growing proportion of its range of screws in Germany.



Eurotec GmbH

is a successful medium-sized enterprise with around 130 employees and a storage capacity of 11,000 storage bays.

The two managing directors, Gregor Mamys and Markus Rensburg, founded the company in May 1999. Eurotec GmbH grew cautiously but steadily – even during times of crisis.

It built its own production hall in Hagen in 2012, which entered operation with a first machine in January 2013.

Since then, Eurotec GmbH has worked constantly to expand its own production capacities.

The purchase of further machines in 2015 has allowed us to supply an ever-growing proportion of our range of screws with products that are proudly Made in Germany.

The benefits of production in Germany are clear:

It allows us to implement and continuously monitor our customers' exacting quality standards. Other benefits include short delivery routes and the ability to respond rapidly to the needs of the market.

Quality from Germany – and Eurotec is proud of it!



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Bit and accessories

Our colour-guide system will help you find the right bit quickly

TX-Bit

1/4" x 25 mm



Art. no.	Size	Bit	PU
945851	TX10		10
945852	TX15		10
945853	TX20		10
945854	TX25		10
945855	TX30		10
945856	TX40		10

Quick-change bit holder

Can be used with all 1/4" x 25 mm bits



Art. no.	Description	PU*
945850	The Bit holder from Eurotec is an ideal aid for all craftsmen. Once the bit is inserted into the bit holder, it can no longer fall out of its own accord.	1

*Bit supplied separately

Advantage

i A secure hold in every position!

TX-long-Bit

1/4" x 50 mm



Description

The long bit is suitable for installing screws in hard-to-access places in all fastening areas, e.g. deck boards, cladding, etc. It is suitable for common electric/cordless screwdrivers and can therefore be used either directly or with an adapter.

Length: 50 mm

Art. no.	Size	Bit	PU
954666	TX10		20
945975	TX15		20
945976	TX20		20
945977	TX25		20
945978	TX30		20
945979	TX40		20
954658	TX50		10

The long bit is well-suited to use in relatively inaccessible screw positions. Fastening can be achieved easily without the chuck damaging the boards.

Hint

6 long bit packs
(20 bits in one size) just plug
them together.....
and you get a practical
storage box.





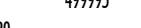

Stainless steel TX-Bit

1/4" x 50 mm



Description

Eurotec's stainless-steel long bits prevent the abrasion of other steels as stainless-steel screws are screwed in. This provides effective protection against the risk of flash rust.

Art. no.	Size	Bit	PU
500055	TX10		20
500056	TX15		20
500057	TX20		20
500058	TX25		20
500059	TX30		20

Advantages

- Protection against the risk of flash rust
- Avoidance of follow-up costs due to flash rust



6 sizes
in a blister
pack.

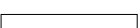


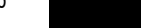
Magnet TX Long Bit

1/4" x 50 mm



Description

The innovative new magnet bits from Eurotec provide an extremely strong hold and therefore prevent screws from falling. Even long screws remain securely in place, and even in a horizontal position.

Art. no.	Size	Bit	PU
499993	TX10		5
499994	TX15		5
499995	TX20		5
499996	TX25		5
499997	TX30		5
499998	TX40		5

- 5 Magnet TX Long Bits in a practical blister pack with standard European perforation

Advantages

- Extremely strong hold in every position
- No falling screws

Magnet Bit Set

NEW
to our product range



Art. no.	Size	PU
499992	TX10 / TX15 / TX20 / TX25 / TX30 / TX40	6



Bit box

specially made for wood construction



Art. no.	Description (content)
945857	31 TX bits and 1 quick-change bit holder in a practical box with a belt clip 5 x TX10 5 x TX15 5 x TX20 5 x TX25 2 x TX30 6 x TX40 1 x quick-change bit holder

Available to order individually or as a 10-pack incl. Sales display.



Universal bit box

for universal applications



Art. no.	Description (content)	PU
945858	48 bits and 1 quick-change bit holder in a practical box ⚙ PH 1-1-2-2-3-3 ⚙ PZ 1-1-2-2-3-3 ⬢ Hex 4-4-5-5-6-6 ⬢ Square 1-1-2-2-3-3 ⚙ TX 10-10-15-15-20-20-25-25-27-27-30-30 ⚙ SI-TX 10-10-15-15-20-20-25-25-27-27-30-30 1 x quick-change bit holder	1

Angled screwing attachment

for hard-to-reach locations



Art. no.	Description	PU
499999	<ul style="list-style-type: none"> • Head angled at 90° • Compatible with all standard bits and machines <ul style="list-style-type: none"> - Magnetic 1/4" hexagonal bit holder - 1/4" hexagonal machine inputs • Handle can be rotated and locked in 30° steps • Suitable for clockwise and anti-clockwise rotation • Maximum torque: 62 Nm • Maximum speed of rotation: 2000 U/min • Comes supplied with 1 bit each for TX20, TX25 and TX30 	1

Advantage

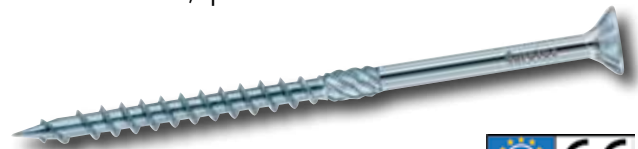
Ideal solution for hard-to-reach locations.

Paneltwistec AG/DAG



Paneltwistec AG

countersunk-head, special coated



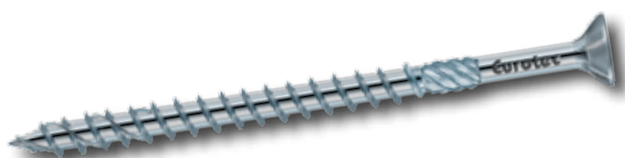
Art. no.	Dimensions (mm)	Drive	PU
945436	3,5 x 30	TX15 ●	1000
945838	3,5 x 35	TX15 ●	1000
945437	3,5 x 40	TX15 ●	1000
945490	3,5 x 50	TX15 ●	500
945491	4,0 x 30	TX20 ●	1000
945836	4,0 x 35	TX20 ●	1000
945492	4,0 x 40	TX20 ●	1000
945493	4,0 x 45	TX20 ●	500
945494	4,0 x 50	TX20 ●	500
945495	4,0 x 60	TX20 ●	200
945496	4,0 x 70	TX20 ●	200
945497	4,0 x 80	TX20 ●	200
945498	4,5 x 40	TX25 ●	500
945588	4,5 x 45	TX25 ●	500
945499	4,5 x 50	TX25 ●	500
945567	4,5 x 60	TX25 ●	200
945568	4,5 x 70	TX25 ●	200
945569	4,5 x 80	TX25 ●	200
945574	5,0 x 40	TX25 ●	200
945837	5,0 x 45	TX25 ●	200
945575	5,0 x 50	TX25 ●	200
945576	5,0 x 60	TX25 ●	200
945577	5,0 x 70	TX25 ●	200
945578	5,0 x 80	TX25 ●	200
945579	5,0 x 90	TX25 ●	200
945580	5,0 x 100	TX25 ●	200
945581	5,0 x 120	TX25 ●	200
945583	6,0 x 60	TX30 ●	200
945584	6,0 x 70	TX30 ●	200
945632	6,0 x 80	TX30 ●	200
945633	6,0 x 90	TX30 ●	100
945634	6,0 x 100	TX30 ●	100
945636	6,0 x 120	TX30 ●	100
945637	6,0 x 130	TX30 ●	100
945638	6,0 x 140	TX30 ●	100
945640	6,0 x 160	TX30 ●	100
945641	6,0 x 180	TX30 ●	100
945642	6,0 x 200	TX30 ●	100
945643	6,0 x 220	TX30 ●	100
945644	6,0 x 240	TX30 ●	100
945645	6,0 x 260	TX30 ●	100
945646	6,0 x 280	TX30 ●	100
945647	6,0 x 300	TX30 ●	100

Paneltwistec AG*/DAG

countersunk-head, special coated

NEW

to our product range
DAG screw tip



Gradual switchover from AG to DAG tip

Art. no. AG*	Art. no. DAG	Dimensions (mm)	Drive	PU
945648	944715	8,0 x 80	TX40 ●	50
945649	944716	8,0 x 100	TX40 ●	50
945650	944717	8,0 x 120	TX40 ●	50
945651	944718	8,0 x 140	TX40 ●	50
945652	944719	8,0 x 160	TX40 ●	50
945654	944720	8,0 x 180	TX40 ●	50
945655	944721	8,0 x 200	TX40 ●	50
945656	944722	8,0 x 220	TX40 ●	50
945657	944723	8,0 x 240	TX40 ●	50
945658	944724	8,0 x 260	TX40 ●	50
945659	944725	8,0 x 280	TX40 ●	50
945678	944726	8,0 x 300	TX40 ●	50
945679	944727	8,0 x 320	TX40 ●	50
945680	944728	8,0 x 340	TX40 ●	50
945681	944729	8,0 x 360	TX40 ●	50
945682	944730	8,0 x 380	TX40 ●	50
945683	944731	8,0 x 400	TX40 ●	50
945684	944732	8,0 x 420	TX40 ●	25
945685	944733	8,0 x 440	TX40 ●	25
945686	944734	8,0 x 460	TX40 ●	25
945876	944735	8,0 x 480	TX40 ●	25
945877	944736	8,0 x 500	TX40 ●	25
945879	944737	8,0 x 550	TX40 ●	25
945880	944739	8,0 x 600	TX40 ●	25
945687	944740	10,0 x 100	TX50 ●	50
945688	944741	10,0 x 120	TX50 ●	50
945689	944742	10,0 x 140	TX50 ●	50
945690	944743	10,0 x 160	TX50 ●	50
945691	944744	10,0 x 180	TX50 ●	50
945692	944745	10,0 x 200	TX50 ●	50
945693	944746	10,0 x 220	TX50 ●	50
945694	944747	10,0 x 240	TX50 ●	50
945695	944748	10,0 x 260	TX50 ●	50
945696	944749	10,0 x 280	TX50 ●	50
945697	944750	10,0 x 300	TX50 ●	50
945698	944751	10,0 x 320	TX50 ●	50
945699	944752	10,0 x 340	TX50 ●	50
945703	944753	10,0 x 360	TX50 ●	50
945709	944754	10,0 x 380	TX50 ●	50
945711	944755	10,0 x 400	TX50 ●	50

Advantages of the new DAG screw tip

- Reduced screwing torque
- Reduced splitting effect
- Screws have a better "bite"

* Discontinued item – Paneltwistec will be supplied with the DAG screw tip in future

Paneltwistec AG

flanged button-head screw, special coated



Art. no.	Dimensions (mm)	Drive	PU
946158	4,0 x 40	TX20 ●	500
946159	4,0 x 50	TX20 ●	500
946160	4,0 x 60	TX20 ●	500
946161	4,5 x 50	TX20 ●	200
946162	4,5 x 60	TX20 ●	200
946163	4,5 x 70	TX20 ●	200
946037	5,0 x 50	TX25 ●	200
946038	5,0 x 60	TX25 ●	200
946039	5,0 x 70	TX25 ●	200
946040	5,0 x 80	TX25 ●	200
946042	5,0 x 100	TX25 ●	200
945947	6,0 x 30	TX30 ●	100
945948	6,0 x 40	TX30 ●	100
945712	6,0 x 50	TX30 ●	100
945713	6,0 x 60	TX30 ●	100
945716	6,0 x 70	TX30 ●	100
945717	6,0 x 80	TX30 ●	100
945718	6,0 x 90	TX30 ●	100
945719	6,0 x 100	TX30 ●	100
945720	6,0 x 110	TX30 ●	100
945721	6,0 x 120	TX30 ●	100
945722	6,0 x 130	TX30 ●	100
945723	6,0 x 140	TX30 ●	100
945724	6,0 x 150	TX30 ●	100
945725	6,0 x 160	TX30 ●	100
945726	6,0 x 180	TX30 ●	100
945727	6,0 x 200	TX30 ●	100
945728	6,0 x 220	TX30 ●	100
945729	6,0 x 240	TX30 ●	100
945730	6,0 x 260	TX30 ●	100
945731	6,0 x 280	TX30 ●	100
945732	6,0 x 300	TX30 ●	100

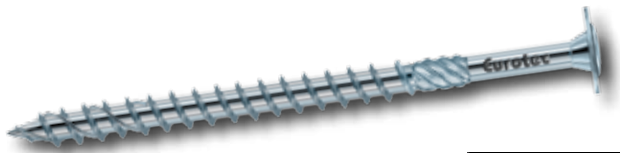
- The larger head diameter allows for considerably higher torque and head pull-through capacity
- This makes for better use of the screw's tensile load-bearing strength

Paneltwistec AG*/DAG

flanged button-head screw, special coated

NEW

to our product range
DAG screw tip



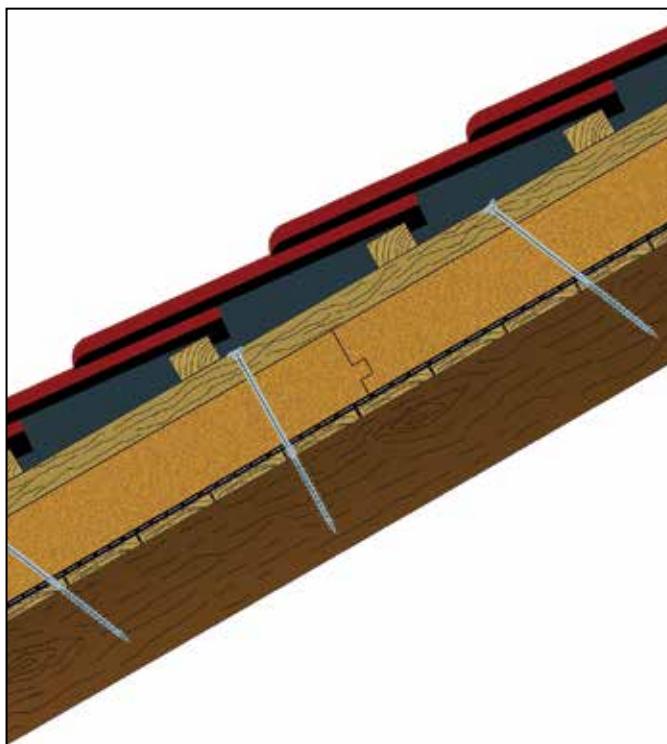
Gradual switchover from AG to DAG tip

Art. no. AG*	Art. no. DAG	Dimensions (mm)	Drive	PU
945733	944588	8,0 x 80	TX40 ●	50
945734	944589	8,0 x 100	TX40 ●	50
945735	944590	8,0 x 120	TX40 ●	50
945736	944591	8,0 x 140	TX40 ●	50
945737	944592	8,0 x 160	TX40 ●	50
945738	944593	8,0 x 180	TX40 ●	50
945739	944594	8,0 x 200	TX40 ●	50
945740	944595	8,0 x 220	TX40 ●	50
945741	944596	8,0 x 240	TX40 ●	50
945742	944597	8,0 x 260	TX40 ●	50
945743	944598	8,0 x 280	TX40 ●	50
945744	944599	8,0 x 300	TX40 ●	50
945745	944600	8,0 x 320	TX40 ●	50
945746	944601	8,0 x 340	TX40 ●	50
945747	944602	8,0 x 360	TX40 ●	50
945748	944603	8,0 x 380	TX40 ●	50
945749	944604	8,0 x 400	TX40 ●	50
946150	944605	8,0 x 420	TX40 ●	25
946151	944606	8,0 x 440	TX40 ●	25
946152	944607	8,0 x 460	TX40 ●	25
946153	944608	8,0 x 480	TX40 ●	25
946154	944609	8,0 x 500	TX40 ●	25
946155	944610	8,0 x 550	TX40 ●	25
946156	944611	8,0 x 600	TX40 ●	25
945750	944612	10,0 x 80	TX50 ●	50
945751	944613	10,0 x 100	TX50 ●	50
945752	944614	10,0 x 120	TX50 ●	50
945753	944615	10,0 x 140	TX50 ●	50
945754	944616	10,0 x 160	TX50 ●	50
945755	944617	10,0 x 180	TX50 ●	50
945756	944618	10,0 x 200	TX50 ●	50
945757	944619	10,0 x 220	TX50 ●	50
945758	944620	10,0 x 240	TX50 ●	50
945759	944621	10,0 x 260	TX50 ●	50
945760	944622	10,0 x 280	TX50 ●	50
945761	944623	10,0 x 300	TX50 ●	50
945762	944624	10,0 x 320	TX50 ●	50
945763	944625	10,0 x 340	TX50 ●	50
945764	944626	10,0 x 360	TX50 ●	25
945765	944627	10,0 x 380	TX50 ●	25
945766	944628	10,0 x 400	TX50 ●	25

Advantages of the new DAG screw tip

- Reduced screwing torque
- Reduced splitting effect
- Screws have a better "bite"

* Discontinued item – Paneltwistec will be supplied with the DAG screw tip in future



Eurotec

Fastening over-rafter insulation



© alexandre ziegler / fablia.de

Paneltwistec, Washer

yellow/blue galvanised

Paneltwistec

countersunk-head screw, blue galvanised



Art. no.	Dimensions (mm)	Drive	PU
b903045	3,5 x 30	TX15 ●	1000
b903001	3,5 x 40	TX15 ●	1000
b903002	3,5 x 50	TX15 ●	500
b903003	4,0 x 30	TX20 ●	1000
b903603	4,0 x 35	TX20 ●	1000
b903004	4,0 x 40	TX20 ●	1000
b902089	4,0 x 45	TX20 ●	500
b903005	4,0 x 50	TX20 ●	500
b903006	4,0 x 60	TX20 ●	200
b903007	4,0 x 70	TX20 ●	200
b903008	4,0 x 80	TX20 ●	200
b903009	4,5 x 40	TX25 ●	500
b903087	4,5 x 45	TX25 ●	500
b903010	4,5 x 50	TX25 ●	500
b903088	4,5 x 55	TX25 ●	500
b903011	4,5 x 60	TX25 ●	200
b903012	4,5 x 70	TX25 ●	200
b903013	4,5 x 80	TX25 ●	200
b903014	5,0 x 40	TX25 ●	200
b903015	5,0 x 50	TX25 ●	200
b903016	5,0 x 60	TX25 ●	200
b903017	5,0 x 70	TX25 ●	200
b903018	5,0 x 80	TX25 ●	200
b903578	5,0 x 90	TX25 ●	200
b903019	5,0 x 100	TX25 ●	200
b903020	5,0 x 120	TX25 ●	200
b903021	6,0 x 60	TX30 ●	200
b903022	6,0 x 70	TX30 ●	200
b903023	6,0 x 80	TX30 ●	200
b903163	6,0 x 90	TX30 ●	100
b903024	6,0 x 100	TX30 ●	100
b903025	6,0 x 120	TX30 ●	100
b903027	6,0 x 140	TX30 ●	100
b903030	6,0 x 150	TX30 ●	100
b903029	6,0 x 160	TX30 ●	100
b903031	6,0 x 180	TX30 ●	100
b903032	6,0 x 200	TX30 ●	100
b903033	6,0 x 220	TX30 ●	100
b903034	6,0 x 240	TX30 ●	100
b903035	6,0 x 260	TX30 ●	100
b903036	6,0 x 280	TX30 ●	100
b903037	6,0 x 300	TX30 ●	100

Paneltwistec

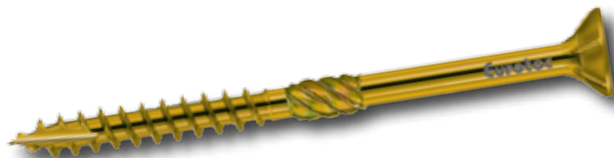
countersunk-head screw, yellow galvanised



Art. no.	Dimensions (mm)	Drive	PU
903000	3,5 x 30	TX20 ●	1000
903044	3,5 x 35	TX20 ●	1000
903001	3,5 x 40	TX20 ●	1000
903002	3,5 x 50	TX20 ●	500
903003	4,0 x 30	TX20 ●	1000
903603	4,0 x 35	TX20 ●	1000
903004	4,0 x 40	TX20 ●	1000
902089	4,0 x 45	TX20 ●	500
903005	4,0 x 50	TX20 ●	500
903006	4,0 x 60	TX20 ●	200
903007	4,0 x 70	TX20 ●	200
903008	4,0 x 80	TX20 ●	200
903046	4,5 x 35	TX20 ●	500
903009	4,5 x 40	TX20 ●	500
903087	4,5 x 45	TX20 ●	500
903010	4,5 x 50	TX20 ●	500
903011	4,5 x 60	TX20 ●	200
903012	4,5 x 70	TX20 ●	200
903013	4,5 x 80	TX20 ●	200
903014	5,0 x 40	TX20 ●	200
903015	5,0 x 50	TX20 ●	200
903016	5,0 x 60	TX20 ●	200
903017	5,0 x 70	TX20 ●	200
903018	5,0 x 80	TX20 ●	200
903578	5,0 x 90	TX20 ●	200
903019	5,0 x 100	TX20 ●	200
903020	5,0 x 120	TX20 ●	200
903021	6,0 x 60	TX30 ●	200
903022	6,0 x 70	TX30 ●	200
903023	6,0 x 80	TX30 ●	200
903163	6,0 x 90	TX30 ●	100
903024	6,0 x 100	TX30 ●	100
903025	6,0 x 120	TX30 ●	100
903026	6,0 x 130	TX30 ●	100
903027	6,0 x 140	TX30 ●	100
903028	6,0 x 150	TX30 ●	100
903029	6,0 x 160	TX30 ●	100
903031	6,0 x 180	TX30 ●	100
903032	6,0 x 200	TX30 ●	100
903033	6,0 x 220	TX30 ●	100
903034	6,0 x 240	TX30 ●	100
903035	6,0 x 260	TX30 ●	100
903036	6,0 x 280	TX30 ●	100
903037	6,0 x 300	TX30 ●	100

Paneltwistec

countersunk-head screw, yellow galvanised



Art. no.	Dimensions (mm)	Drive	PU
903550	8,0 x 80	TX40 ●	50
903551	8,0 x 100	TX40 ●	50
902920	8,0 x 120	TX40 ●	50
902919	8,0 x 140	TX40 ●	50
902921	8,0 x 160	TX40 ●	50
902922	8,0 x 180	TX40 ●	50
902923	8,0 x 200	TX40 ●	50
902924	8,0 x 220	TX40 ●	50
902925	8,0 x 240	TX40 ●	50
902926	8,0 x 260	TX40 ●	50
902927	8,0 x 280	TX40 ●	50
902928	8,0 x 300	TX40 ●	50
902929	8,0 x 320	TX40 ●	50
902930	8,0 x 340	TX40 ●	50
902931	8,0 x 360	TX40 ●	50
902932	8,0 x 380	TX40 ●	50
903030	8,0 x 400	TX40 ●	50
903513	10,0 x 100	TX50 ●	50
903491	10,0 x 120	TX50 ●	50
903492	10,0 x 140	TX50 ●	50
903493	10,0 x 160	TX50 ●	50
903494	10,0 x 180	TX50 ●	50
903495	10,0 x 200	TX50 ●	50
903496	10,0 x 220	TX50 ●	50
903497	10,0 x 240	TX50 ●	50
903498	10,0 x 260	TX50 ●	50
903499	10,0 x 280	TX50 ●	50
903500	10,0 x 300	TX50 ●	50
903501	10,0 x 320	TX50 ●	50
903502	10,0 x 340	TX50 ●	50
903503	10,0 x 360	TX50 ●	50
903504	10,0 x 380	TX50 ●	50
903505	10,0 x 400	TX50 ●	50
904486	12,0 x 120	TX50 ●	25
904488	12,0 x 160	TX50 ●	25
904461	12,0 x 200	TX50 ●	25
904463	12,0 x 240	TX50 ●	25
904465	12,0 x 280	TX50 ●	25
904489	12,0 x 320	TX50 ●	25
904490	12,0 x 360	TX50 ●	25
904491	12,0 x 400	TX50 ●	25
904492	12,0 x 500	TX50 ●	25
904493	12,0 x 600	TX50 ●	25

• Also suitable for fastening over-rafter insulation

Paneltwistec

flanged button-head screw, yellow galvanised



Art. no.	Dimensions (mm)	Drive	PU
g903204	8,0 x 80	TX40 ●	50
g903205	8,0 x 100	TX40 ●	50
g903466	8,0 x 120	TX40 ●	50
g903467	8,0 x 140	TX40 ●	50
g903468	8,0 x 160	TX40 ●	50
g903469	8,0 x 180	TX40 ●	50
g903470	8,0 x 200	TX40 ●	50
g903471	8,0 x 220	TX40 ●	50
g903472	8,0 x 240	TX40 ●	50
g903473	8,0 x 260	TX40 ●	50
g903474	8,0 x 280	TX40 ●	50
g903475	8,0 x 300	TX40 ●	50
g903476	8,0 x 320	TX40 ●	50
g903477	8,0 x 340	TX40 ●	50
g903478	8,0 x 360	TX40 ●	50
g904625	8,0 x 380	TX40 ●	50
g904626	8,0 x 400	TX40 ●	50

- Also suitable for fastening over-rafter insulation
- The larger head diameter allows for considerably higher torque and head pull-through capacity
- This makes for better use of the screw's tensile load-bearing strength

Washer

yellow/blue galvanised steel



Art. no. (blue)	Screw diameter	PU
900098	Ø 6,0	50
900099	Ø 8,0	50
b901032	Ø 10,0	50

Art. no. (yellow)	Screw diameter	PU
900095	Ø 5,0	50
900096	Ø 6,0	50
900097	Ø 8,0	50
901032	Ø 10,0	50

Eurotec

maxi pack



Euro pallet

with 8 cartons Eurotec maxi pack



Euro pallet

with 16 cartons Eurotec maxi pack



Euro pallet

with 24 cartons Eurotec maxi pack



Paneltwistec 1000

Corrosion-resistant up to 1000 h in salt spray test

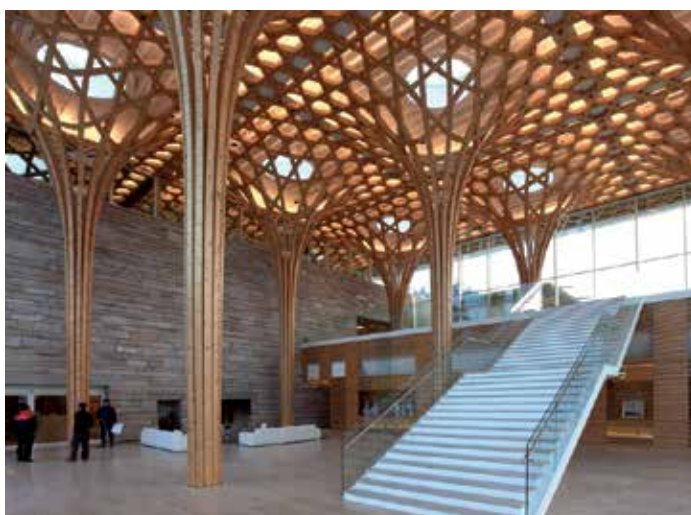
Paneltwistec 1000

countersunk-head screw, special coated steel



Art. no.	Dimensions (mm)	Drive	PU
r945035	3,0 x 16	TX10 ○	1000
r903038	3,0 x 20	TX10 ○	1000
r903039	3,0 x 25	TX10 ○	1000
r903040	3,0 x 30	TX10 ○	1000
r903041	3,0 x 35	TX10 ○	1000
r903042	3,0 x 40	TX10 ○	1000
r945036	3,5 x 12	TX20 ●	1000
r945037	3,5 x 16	TX20 ●	1000
r903043	3,5 x 20	TX20 ●	1000
r903044	3,5 x 25	TX20 ●	1000
r903045	3,5 x 30	TX20 ●	1000
r903046	3,5 x 35	TX20 ●	1000
r903047	3,5 x 40	TX20 ●	1000
r903048	3,5 x 50	TX20 ●	500
r945038	4,0 x 16	TX20 ●	1000
r903001	4,0 x 20	TX20 ●	1000
r903002	4,0 x 25	TX20 ●	1000
r903003	4,0 x 30	TX20 ●	1000
r903049	4,0 x 35	TX20 ●	1000
r903004	4,0 x 40	TX20 ●	1000
r902089	4,0 x 45	TX20 ●	500
r903005	4,0 x 50	TX20 ●	500
r903006	4,0 x 60	TX20 ●	200
r903007	4,0 x 70	TX20 ●	200
r903008	4,0 x 80	TX20 ●	200
r945039	4,5 x 16	TX20 ●	1000
r903050	4,5 x 25	TX20 ●	500
r903051	4,5 x 30	TX20 ●	500
r903052	4,5 x 35	TX20 ●	500
r903009	4,5 x 40	TX20 ●	500
r903010	4,5 x 50	TX20 ●	500
r903011	4,5 x 60	TX20 ●	200
r903012	4,5 x 70	TX20 ●	200
r903013	4,5 x 80	TX20 ●	200
r903468	4,5 x 90	TX20 ●	200
r903063	4,5 x 100	TX20 ●	200

PLEASE NOTE: Screws with Ø = 3,0 mm are not regulated according to an ETA or building-authority approval.



Paneltwistec 1000

countersunk-head screw, special coated steel



Art. no.	Dimensions (mm)	Drive	PU
r903053	5,0 x 25	TX20 ●	500
r903054	5,0 x 30	TX20 ●	500
r903055	5,0 x 35	TX20 ●	500
r903014	5,0 x 40	TX20 ●	200
r903579	5,0 x 45	TX20 ●	200
r903015	5,0 x 50	TX20 ●	200
r903016	5,0 x 60	TX20 ●	200
r903017	5,0 x 70	TX20 ●	200
r903018	5,0 x 80	TX20 ●	200
r903578	5,0 x 90	TX20 ●	200
r903019	5,0 x 100	TX20 ●	200
r903020	5,0 x 120	TX20 ●	200
r903581	6,0 x 40	TX30 ●	200
r903582	6,0 x 50	TX30 ●	200
r903021	6,0 x 60	TX30 ●	200
r903022	6,0 x 70	TX30 ●	200
r903023	6,0 x 80	TX30 ●	200
r903163	6,0 x 90	TX30 ●	100
r903024	6,0 x 100	TX30 ●	100
r903025	6,0 x 120	TX30 ●	100
r903026	6,0 x 130	TX30 ●	100
r903027	6,0 x 140	TX30 ●	100
r903029	6,0 x 160	TX30 ●	100
r903031	6,0 x 180	TX30 ●	100
r903032	6,0 x 200	TX30 ●	100
r903033	6,0 x 220	TX30 ●	100
r903034	6,0 x 240	TX30 ●	100
r903035	6,0 x 260	TX30 ●	100
r903036	6,0 x 280	TX30 ●	100

Paneltwistec 1000

flanged button-head screw, special coated steel



Art. no.	Dimensions (mm)	Drive	PU
r901357	6,0 x 100	TX30 ●	100
r901359	6,0 x 120	TX30 ●	100
r901361	6,0 x 140	TX30 ●	100
r901364	6,0 x 180	TX30 ●	100
r901365	6,0 x 200	TX30 ●	100
r903060	8,0 x 80	TX40 ●	50
r903062	8,0 x 100	TX40 ●	50
r903064	8,0 x 120	TX40 ●	50
r903066	8,0 x 140	TX40 ●	50
r903067	8,0 x 160	TX40 ●	50
r903470	8,0 x 180	TX40 ●	50
r903069	8,0 x 200	TX40 ●	50
r903472	8,0 x 220	TX40 ●	50
r903071	8,0 x 240	TX40 ●	50
r903072	8,0 x 260	TX40 ●	50
r903073	8,0 x 280	TX40 ●	50
r903074	8,0 x 300	TX40 ●	50
r903475	8,0 x 360	TX40 ●	50
r903476	8,0 x 400	TX40 ●	50
r903077	10,0 x 60	TX40 ●	50
r903079	10,0 x 80	TX40 ●	50
r903081	10,0 x 100	TX40 ●	50
r903083	10,0 x 120	TX40 ●	50
r903085	10,0 x 160	TX40 ●	50
r903086	10,0 x 180	TX40 ●	50
r903087	10,0 x 200	TX40 ●	50
r903088	10,0 x 220	TX40 ●	50
r903089	10,0 x 240	TX40 ●	50

For the screws with a diameter of 8,0 and 10,0 mm:

- Also suitable for fastening over-rafter insulation
- The larger head diameter allows for considerably higher torque and head pull-through capacity
- This makes for better use of the screw's tensile load-bearing strength

Paneltwistec, Paneltwistec AG

hardened stainless steel

Paneltwistec

countersunk-head screw, hardened stainless steel



Art. no.	Dimensions (mm)	Drive	PU
904474	4,0 x 40	TX20 ●	500
904475	4,0 x 45	TX20 ●	500
904476	4,0 x 50	TX20 ●	500
904477	4,0 x 60	TX20 ●	500
904478	4,5 x 45	TX20 ●	200
904479	4,5 x 50	TX20 ●	200
904480	4,5 x 60	TX20 ●	200
904481	4,5 x 70	TX20 ●	200
100981	4,5 x 80	TX20 ●	200
904482	5,0 x 50	TX25 ●	200
904483	5,0 x 60	TX25 ●	200
904484	5,0 x 70	TX25 ●	200
904485	5,0 x 80	TX25 ●	200
904487	5,0 x 90	TX25 ●	100
904011	5,0 x 100	TX25 ●	100
904012	6,0 x 60	TX30 ●	100
904013	6,0 x 70	TX25 ● *	100
904014	6,0 x 80	TX30 ●	100
904015	6,0 x 90	TX30 ●	100
904016	6,0 x 100	TX30 ●	100
904017	6,0 x 120	TX30 ●	100
904018	6,0 x 140	TX30 ●	100
904019	6,0 x 160	TX30 ●	100

* Successive changeover to TX30

Field of application for hardened stainless-steel screws:

- This steel combines the best properties of carbon steels and stainless steels. It is partially rust-resistant like an A2, but with the high mechanical values of a galvanised steel. Hardened stainless steel is not acid-resistant. It is therefore also not suitable for fastening woods that contain tannin (e.g. oak)
- Hardened stainless steel can be magnetised
- Stainless steel in accordance with DIN 10088
- The screw is suitable for use in timber-timber joints in outdoor installations and is used in garden, façade and balcony construction

Paneltwistec

flanged button-head screw, hardened stainless steel



Art. no.	Dimensions (mm)	Drive	PU
945278	8,0 x 80	TX40 ●	50
945270	8,0 x 100	TX40 ●	50
945271	8,0 x 120	TX40 ●	50
945272	8,0 x 140	TX40 ●	50
945364	8,0 x 160	TX40 ●	50
945365	8,0 x 180	TX40 ●	50
945366	8,0 x 200	TX40 ●	50
945367	8,0 x 220	TX40 ●	50
945368	8,0 x 240	TX40 ●	50
945369	8,0 x 260	TX40 ●	50
945370	8,0 x 280	TX40 ●	50
945371	8,0 x 300	TX40 ●	50
945372	8,0 x 320	TX40 ●	50
945373	8,0 x 340	TX40 ●	50
945374	8,0 x 360	TX40 ●	50
945375	8,0 x 380	TX40 ●	50
945376	8,0 x 400	TX40 ●	50

- Also suitable for fastening over-rafter insulation
- The larger head diameter allows for considerably higher torque and head pull-through capacity
- This makes for better use of the screw's tensile load-bearing strength

Paneltwistec AG

flanged button-head screw, hardened stainless steel



Art. no.	Dimensions (mm)	Drive	PU
975772	6,0 x 60	TX30 ●	100
975773	6,0 x 80	TX30 ●	100
975774	6,0 x 100	TX30 ●	100
975775	6,0 x 120	TX30 ●	100
975776	6,0 x 140	TX30 ●	100
975777	6,0 x 160	TX30 ●	100

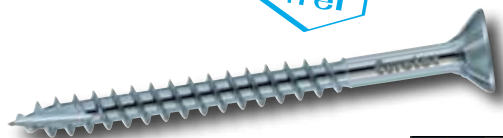
Paneltwistec A4 / A2

A4 / A2



Paneltwistec A4

countersunk-head screw, A4



Paneltwistec A4

ornamental-head, A4



Art. no.	Dimensions (mm)	Drive	PU
901476	4,0 x 25	TX20 ●	500
111442	4,0 x 35	TX20 ●	500
903202	4,0 x 40	TX20 ●	500
111443	4,0 x 45	TX20 ●	500
901109	4,0 x 55	TX20 ●	500
111444	4,0 x 60	TX20 ●	500
111445	4,0 x 70	TX20 ●	200
111446	4,0 x 80	TX20 ●	200
111447	4,5 x 45	TX25 ●	200
111448	4,5 x 60	TX25 ●	200
111449	4,5 x 70	TX25 ●	200
111450	4,5 x 80	TX25 ●	200
903990	5,0 x 40	TX25 ●	200
111451	5,0 x 50	TX25 ●	200
111452	5,0 x 60	TX25 ●	200
111453	5,0 x 70	TX25 ●	200
111454	5,0 x 80	TX25 ●	200
903580	5,0 x 100	TX25 ●	200
111459	6,0 x 60	TX30 ●	100
944885	6,0 x 70	TX25 ● *	100
111460	6,0 x 80	TX25 ● *	100
111458	6,0 x 100	TX30 ●	100
901478	6,0 x 120	TX30 ●	100

* Successive changeover to TX30

Art. no.	Dimensions (mm)	Drive	PU
901479	3,2 x 25	TX10 ○	1000
903038	3,2 x 30	TX10 ○	1000
901480	3,2 x 35	TX10 ○	1000
901481	3,2 x 40	TX10 ○	1000
903104	3,2 x 50	TX10 ○	1000

Field of application for A4 stainless-steel screws:

- As this steel is a stainless steel in accordance with the general building authority approval Z-30.3-6. Resistant to rust and limitedly resistant to acid, it is also suitable for fastening tannin-containing woods (e.g. oak) and for use in saline atmospheres.
- Not suitable for use in chlorine-containing atmospheres, e.g. in indoor swimming pools
- The screw is suitable for use in timber-timber joints in outdoor installations and is used in garden, façade and balcony construction



Paneltwistec A2

countersunk-head screw, A2



Art. no.	Dimensions (mm)	Drive	PU
903230	8,0 x 80	TX40 ●	50
903231	8,0 x 100	TX40 ●	50
903232	8,0 x 120	TX40 ●	50
903233	8,0 x 140	TX40 ●	50
903234 *	8,0 x 160	TX40 ●	50
903235 *	8,0 x 180	TX40 ●	50
903236 *	8,0 x 200	TX40 ●	50
903237 *	8,0 x 220	TX40 ●	50
903238 *	8,0 x 240	TX40 ●	50
903239 *	8,0 x 260	TX40 ●	50
903240 *	8,0 x 280	TX40 ●	50
903241 *	8,0 x 300	TX40 ●	50
903242 *	8,0 x 320	TX40 ●	50
903243 *	8,0 x 340	TX40 ●	50
903244 *	8,0 x 360	TX40 ●	50
903245 *	8,0 x 380	TX40 ●	50
903246 *	8,0 x 400	TX40 ●	50

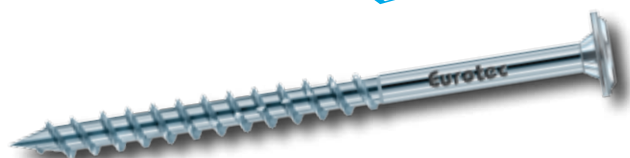
* Only available on request.

A2 stainless steel:

- Only partially rust-resistant, not acid-resistant
- Not suitable for atmospheres containing chlorine

Paneltwistec A2

flanged button-head screw, A2



Art. no.	Dimensions (mm)	Drive	PU
903211	8,0 x 80	TX40 ●	50
903212	8,0 x 100	TX40 ●	50
903213	8,0 x 120	TX40 ●	50
903214	8,0 x 140	TX40 ●	50
903215 *	8,0 x 160	TX40 ●	50
903216 *	8,0 x 180	TX40 ●	50
903217 *	8,0 x 200	TX40 ●	50
903218 *	8,0 x 220	TX40 ●	50
903219 *	8,0 x 240	TX40 ●	50
903220 *	8,0 x 260	TX40 ●	50
903221 *	8,0 x 280	TX40 ●	50
903222 *	8,0 x 300	TX40 ●	50
903223 *	8,0 x 320	TX40 ●	50
903224 *	8,0 x 340	TX40 ●	50
903225 *	8,0 x 360	TX40 ●	50
903226 *	8,0 x 380	TX40 ●	50
903227 *	8,0 x 400	TX40 ●	50

* Only available on request.



Paneltwistec slate screw

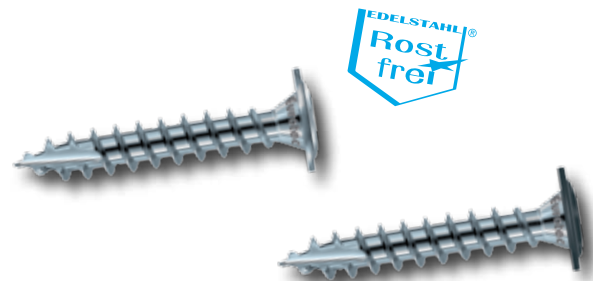
hardened stainless steel



NEW
to our product range

Paneltwistec slate screw

flanged button-head screw, hardened stainless steel



Art. no.	Dimensions (mm)	Drive	PU
945868	4,0 x 30	TX20 ●	500
945868-Grau	4,0 x 30	TX20 ●	500
945865	4,0 x 50	TX20 ●	500
945865-Grau	4,0 x 50	TX20 ●	500

For the optimum attachment of slate roof coverings

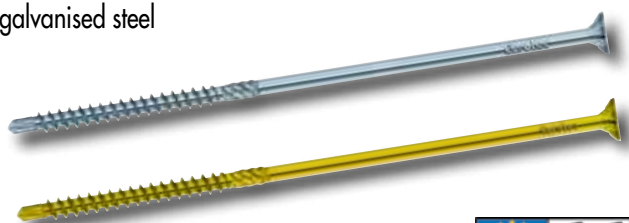
- Suitable for wooden or pilot-drilled aluminium substructures, as well as for single or double slate coverings
- Low exertion of force required to insert screws
- The saucer-shaped head's optimum fit prevents the wood from splitting
- Coloured head available in slate grey
- Head diameter: Ø 10 mm
 - The wider diameter of the head delivers considerably higher torque and head pull-through capacity
 - This makes for better use of the screw's tensile load-bearing capacity
- Stainless steel in accordance with DIN 10088
- **Note:** However, you should ensure that your cordless screwdriver is correctly adjusted so that the screws are never overtightened.

Hobotec screw

galvanised steel and hardened stainless steel

Hobotec screw

galvanised steel



Art. no. (yellow)	Art. no. (blue)	Dimensions (mm)	Drive	PU
110045 *	111494	4,0 x 30	TX15 ●	1000
110046 *	111495	4,0 x 35	TX15 ●	1000
110047 *	111496	4,0 x 40	TX15 ●	1000
110044 *	111497	4,0 x 45	TX15 ●	500
110048 *	111498	4,0 x 50	TX15 ●	500
110049 *	111499	4,0 x 60	TX15 ●	200
110051 *	900818	4,5 x 30	TX20 ●	500
110050 *	111501	4,5 x 35	TX20 ●	500
110077 *	111502	4,5 x 40	TX20 ●	500
110052 *	111503	4,5 x 45	TX20 ●	500
110053 *	111504	4,5 x 50	TX20 ●	500
110054 *	111505	4,5 x 60	TX20 ●	200
110055 *	111506	4,5 x 70	TX20 ●	200
900877 *	111507	5,0 x 40	TX25 ●	200
110056 *	111508	5,0 x 50	TX25 ●	200
110057 *	111509	5,0 x 60	TX25 ●	200
110058 *	111510	5,0 x 70	TX25 ●	200
110059 *	111511	5,0 x 80	TX25 ●	200
110060 *	111512	5,0 x 90	TX25 ●	200
900462 *	903623	5,0 x 100	TX25 ●	200
	903117	6,0 x 80	TX25 ●	200
	903118	6,0 x 90	TX25 ●	100
110094 *	903119	6,0 x 100	TX25 ●	100
110096 *	903120	6,0 x 120	TX25 ●	100
110097 *	903121	6,0 x 140	TX25 ●	100
110098 *	903122	6,0 x 160	TX25 ●	100

* Discontinued item

Hobotec screws allow easy, fast and tidy fastening of timber-timber joints. These screws are especially suitable for applications with a higher risk of cracking and splitting. The new type of thread and innovative drill point ensure a clean fit and high extraction-resistance values.

Advantages:

- No pilot-drilling necessary
- No cracking or splitting in narrow edge areas
- No hammering of the screws thanks to Tec drive

Especially suitable for:

Applications in the fields of model-making, staircase construction and façade construction and for carpentry, joinery and roofing work.

Hobotec screw

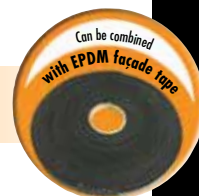
hardened stainless steel



Art. no.	Dimensions (mm)	Drive	PU
903323	4,0 x 30	TX15 ●	500
110299	4,0 x 40	TX15 ●	500
110300	4,0 x 45	TX15 ●	500
110301	4,0 x 50	TX15 ●	500
110302	4,0 x 60	TX15 ●	500
110319	4,5 x 40	TX20 ●	200
944839	4,5 x 45	TX20 ●	200
110303	4,5 x 50	TX20 ●	200
110304	4,5 x 60	TX20 ●	200
110305	4,5 x 70	TX20 ●	200
110306	4,5 x 80	TX20 ●	200
110307	5,0 x 50	TX25 ●	200
110308	5,0 x 60	TX25 ●	200
110309	5,0 x 70	TX25 ●	200
110310	5,0 x 80	TX25 ●	200
110311	5,0 x 90	TX25 ●	200
110312	5,0 x 100	TX25 ●	200
110313	6,0 x 80	TX25 ●	100
110314	6,0 x 90	TX25 ●	100
110315	6,0 x 100	TX25 ●	100
110316	6,0 x 120	TX25 ●	100
110317	6,0 x 140	TX25 ●	100
110318	6,0 x 160	TX25 ●	100

Field of application for hardened stainless-steel screws:

- This steel combines the best properties of carbon steels and stainless steels. It is partially rust-resistant like an A2, but with the high mechanical values of a galvanised steel. Hardened stainless steel is not acid-resistant. It is therefore also not suitable for fastening woods that contain tannin (e.g. oak)
- Hardened stainless steel can be magnetised
- Stainless steel in accordance with DIN 10088



EcoTec, EcoTec A2, ECO PT

Angle-bracket screw, Fubofix, FloorFix

EcoTec

chipboard screw, blue galvanised



Art. no.	Dimensions (mm)	Drive	Thread	PU
903714	3,0 x 13	TX 10 ○	FT	1000
903715	3,0 x 15	TX 10 ○	FT	1000
903716	3,0 x 20	TX 10 ○	FT	1000
903717	3,0 x 25	TX 10 ○	FT	1000
903718	3,0 x 30	TX 10 ○	FT	1000
903719	3,0 x 35	TX 10 ○	FT	1000
903720	3,0 x 40	TX 10 ○	PT	1000
903721	3,0 x 45	TX 10 ○	PT	1000
903722	3,5 x 12	TX 20 ●	FT	1000
903723	3,5 x 15	TX 20 ●	FT	1000
903724	3,5 x 20	TX 20 ●	FT	1000
903725	3,5 x 25	TX 20 ●	FT	1000
903726	3,5 x 30	TX 20 ●	FT	1000
903727	3,5 x 35	TX 20 ●	PT	1000
903728	3,5 x 40	TX 20 ●	PT	1000
903729	3,5 x 45	TX 20 ●	PT	500
903730	3,5 x 50	TX 20 ●	PT	500
903731	4,0 x 15	TX 20 ●	FT	1000
903732	4,0 x 20	TX 20 ●	FT	1000
903733	4,0 x 25	TX 20 ●	FT	1000
903734	4,0 x 30	TX 20 ●	FT	1000
903735	4,0 x 35	TX 20 ●	FT	1000
903736	4,0 x 40	TX 20 ●	PT	1000
903737	4,0 x 45	TX 20 ●	PT	500
903738	4,0 x 50	TX 20 ●	PT	500
903739	4,0 x 60	TX 20 ●	PT	200
903740	4,0 x 70	TX 20 ●	PT	200
903741	4,5 x 20	TX 20 ●	FT	500
903742	4,5 x 25	TX 20 ●	FT	500
903743	4,5 x 30	TX 20 ●	FT	500
903744	4,5 x 35	TX 20 ●	FT	500
903745	4,5 x 40	TX 20 ●	PT	500
903746	4,5 x 45	TX 20 ●	PT	500
903747	4,5 x 50	TX 20 ●	PT	500
903748	4,5 x 60	TX 20 ●	PT	200
903749	4,5 x 70	TX 20 ●	PT	200
903750	4,5 x 80	TX 20 ●	PT	200

EcoTec

chipboard screw, blue galvanised



Art. no.	Dimensions (mm)	Drive	Thread	PU
903751	5,0 x 20	TX 20 ●	FT	500
903752	5,0 x 25	TX 20 ●	FT	500
903753	5,0 x 30	TX 20 ●	FT	500
903754	5,0 x 35	TX 20 ●	FT	500
903755	5,0 x 40	TX 20 ●	PT	200
903756	5,0 x 45	TX 20 ●	PT	200
903757	5,0 x 50	TX 20 ●	PT	200
903758	5,0 x 60	TX 20 ●	PT	200
903759	5,0 x 70	TX 20 ●	PT	200
903760	5,0 x 80	TX 20 ●	PT	200
903761	5,0 x 90	TX 20 ●	PT	200
903762	5,0 x 100	TX 20 ●	PT	200
903763	5,0 x 120	TX 20 ●	PT	200
903764	6,0 x 40	TX 30 ●	FT	200
903765	6,0 x 50	TX 30 ●	FT	200
903766	6,0 x 60	TX 30 ●	PT	200
903767	6,0 x 70	TX 30 ●	PT	200
903768	6,0 x 80	TX 30 ●	PT	200
903769	6,0 x 90	TX 30 ●	PT	100
903770	6,0 x 100	TX 30 ●	PT	100
903771	6,0 x 120	TX 30 ●	PT	100
903772	6,0 x 140	TX 30 ●	PT	100
904540	6,0 x 160	TX 30 ●	PT	100
904541	6,0 x 180	TX 30 ●	PT	100
904542	6,0 x 200	TX 30 ●	PT	100
904617	6,0 x 220	TX 30 ●	PT	100
904618	6,0 x 240	TX 30 ●	PT	100
904619	6,0 x 260	TX 30 ●	PT	100
904620	6,0 x 280	TX 30 ●	PT	100
904621	6,0 x 300	TX 30 ●	PT	100

- Suitable for indoor use; with countersunk-head screw, self-milling ribs, TX drive, both fully threaded and partially threaded (FT, PT)
- Only three TX sizes are required for the entire series

PLEASE NOTE: Screws with $\varnothing = 3,0$ mm are not regulated by an ETA

EcoTec A2

chipboard screw, A2



Art. no.	Dimensions (mm)	Drive	Thread	PU
903791	4,0 x 35	TX 20 ●	PT	1000
903792	4,0 x 40	TX 20 ●	PT	1000
903793	4,0 x 45	TX 20 ●	PT	500
903794	4,0 x 50	TX 20 ●	PT	500
903795	4,0 x 60	TX 20 ●	PT	200
903796	4,0 x 70	TX 20 ●	PT	200
903797	4,0 x 80	TX 20 ●	PT	200
903798	4,5 x 45	TX 20 ●	PT	500
903799	4,5 x 50	TX 20 ●	PT	500
903800	4,5 x 60	TX 20 ●	PT	200
903801	4,5 x 70	TX 20 ●	PT	200
903802	4,5 x 80	TX 20 ●	PT	200
903803	5,0 x 50	TX 25 ●	PT	200
903804	5,0 x 60	TX 25 ●	PT	200
903805	5,0 x 70	TX 25 ●	PT	200
903806	5,0 x 80	TX 25 ●	PT	200
903807	5,0 x 90	TX 25 ●	PT	200
903808	5,0 x 100	TX 25 ●	PT	200
903809	5,0 x 120	TX 25 ●	PT	200
903810	6,0 x 50	TX 25 ●	PT	200
903811	6,0 x 60	TX 25 ●	PT	200
903812	6,0 x 70	TX 25 ●	PT	200
903813	6,0 x 80	TX 25 ●	PT	200
903814	6,0 x 90	TX 25 ●	PT	100
903815	6,0 x 100	TX 25 ●	PT	100
903816	6,0 x 120	TX 25 ●	PT	100
903817	6,0 x 140	TX 25 ●	PT	100
903818	6,0 x 160	TX 25 ●	PT	100
903825	6,0 x 180	TX 25 ●	PT	100
903826	6,0 x 200	TX 25 ●	PT	100

- with countersunk-head screw, self-milling ribs, TX drive
- with partially threaded
- Only two TX sizes are required for the entire series

A2 stainless steel:

- Only partially rust-resistant, not acid-resistant
- Not suitable for atmospheres containing chlorine



Eurotec retail shelving unit

Small packages

**SIMPLE^{AND}
CLEAR**
for your customers



The shelving unit has dimensions of 125 x 210 x 60 cm (WxHxD)
and is supplied fully equipped and including all components.

1



Retail shelving unit for small packages

With the new retail shelving unit from Eurotec, you will receive screws in the most common dimensions and materials sorted within a shelving unit. This allows you to equip your customers for everyday applications in timber-frame construction with just a single shelving unit.

- 1 The upper section of the shelving contains screws packed in bags of 5, 10, 15 or 20.
- 2 In the lower section, you will find screws packed in boxes of 50 or 100. All of the boxes have a resealable pourer opening.
- 3 This comprehensive shelving unit also includes bits, long bits and bit boxes in the matching TX sizes and featuring Eurotec's colour-guide system.

2



You will find the following screw types and dimensions in the shelving unit:

- Paneltwistec AG special coated, countersunk head, Ø 3,5 x 30 mm to Ø 6,0 x 120 mm
- EcoTec A2 chipboard screw, countersunk head, Ø 4,0 x 40 mm to Ø 6,0 x 120 mm
- Hapatec, hardened stainless steel, ornamental head, Ø 4,0 x 30 mm to Ø 5,0 x 80 mm

**EcoTec
and Hapatec**



3



ECO PT

countersunk-head screw, blue galvanised



Art. no.	Dimensions (mm)	Drive	PU
954682	8,0 x 80	TX40 ●	50
954683	8,0 x 100	TX40 ●	50
954684	8,0 x 120	TX40 ●	50
954685	8,0 x 140	TX40 ●	50
954686	8,0 x 160	TX40 ●	50
954687	8,0 x 180	TX40 ●	50
954688	8,0 x 200	TX40 ●	50
954689	8,0 x 220	TX40 ●	50
954690	8,0 x 240	TX40 ●	50
954691	8,0 x 260	TX40 ●	50
954692	8,0 x 280	TX40 ●	50
954693	8,0 x 300	TX40 ●	50
954694	8,0 x 320	TX40 ●	50
954695	8,0 x 340	TX40 ●	50
954696	8,0 x 360	TX40 ●	50
954697	8,0 x 380	TX40 ●	50
954698	8,0 x 400	TX40 ●	50

- Wood construction screw with countersunk head, self-milling ribs, TX drive
- Also suitable for fastening over-rafter insulation

ECO PT

flanged button-head screw, blue galvanised



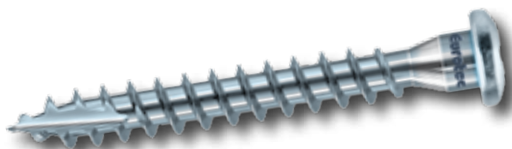
Art. no.	Dimensions (mm)	Drive	PU
954699	8,0 x 80	TX40 ●	50
954700	8,0 x 100	TX40 ●	50
954701	8,0 x 120	TX40 ●	50
954702	8,0 x 140	TX40 ●	50
954703	8,0 x 160	TX40 ●	50
954704	8,0 x 180	TX40 ●	50
954705	8,0 x 200	TX40 ●	50
954706	8,0 x 220	TX40 ●	50
954707	8,0 x 240	TX40 ●	50
954708	8,0 x 260	TX40 ●	50
954709	8,0 x 280	TX40 ●	50
954710	8,0 x 300	TX40 ●	50
954711	8,0 x 320	TX40 ●	50
954712	8,0 x 340	TX40 ●	50
954713	8,0 x 360	TX40 ●	50
954714	8,0 x 380	TX40 ●	50
954715	8,0 x 400	TX40 ●	50

- Wood construction screw with flanged button head, self-milling ribs, TX drive
- Also suitable for fastening over-rafter insulation



Angle-bracket screw

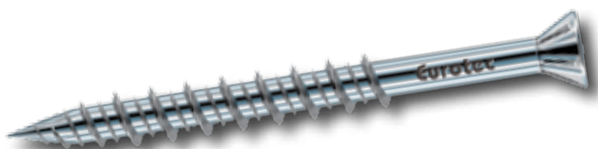
blue galvanised



Art. no.	Dimensions (mm)	Drive	PU
945343	5,0 x 25	TX20 ●	250
945232	5,0 x 35	TX20 ●	250
945241	5,0 x 40	TX20 ●	250
945233	5,0 x 50	TX20 ●	250
945344	5,0 x 60	TX20 ●	250
945345	5,0 x 70	TX20 ●	250

FuboFix

Chipboard screw, blue galvanised



Art. no.	Dimensions (mm)	Drive	PU
945244-2	4,2 x 25	TX20 ●	1000
945245-2	4,2 x 35	TX20 ●	1000
945246-2	4,2 x 45	TX20 ●	1000
945247-2	4,2 x 55	TX20 ●	1000
945248-2	4,2 x 75	TX20 ●	500

FloorFix A2

A2 stainless steel



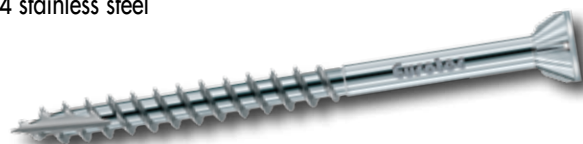
Art. no.	Dimensions (mm)	Drive	PU*
945194	4,2 x 42	TX20 ●	250
945195	4,2 x 55	TX20 ●	250
945196	4,8 x 75	TX20 ●	250

* Delivered in a plastic bucket; incl. 1 TX-bit

- Only suitable for the use in softwood
- Only partially rust-resistant, not acid-resistant
- Not suitable for atmospheres containing chlorine

FloorFix A4

A4 stainless steel



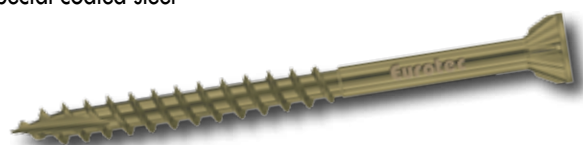
Art. no.	Dimensions (mm)	Drive	PU*
945190	4,2 x 42	TX20 ●	250
945191	4,2 x 55	TX20 ●	250
945192	4,8 x 75	TX20 ●	250

* Delivered in a plastic bucket; incl. 1 TX-bit

- Only suitable for the use in softwood
- Resistant to rust, limited resistance to acid
- Suitable for woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

FloorFix 1000

Special coated steel



Art. no.	Dimensions (mm)	Drive	PU*
945197	4,2 x 42	TX20 ●	250
945198	4,2 x 55	TX20 ●	250
945199	4,8 x 75	TX20 ●	250

* Delivered in a plastic bucket; incl. 1 TX-bit

- Only suitable for the use in softwood
- Corrosion-resistant up to 1000 h in salt spray test

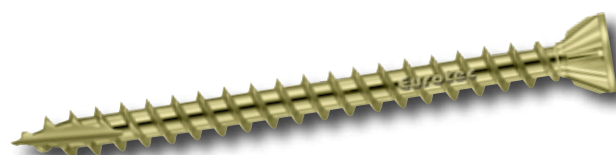
OSB Fix

NEW
to our product range



OSB Fix

Countersunk head, yellow galvanised steel



Art. no.	Dimensions (mm)	Drive	PU
900690	4,3 x 40	TX20 ●	250
900691	4,3 x 45	TX20 ●	250
900692	4,3 x 50	TX20 ●	250
900693	4,3 x 60	TX20 ●	250
900694	4,3 x 80	TX20 ●	250

Product properties

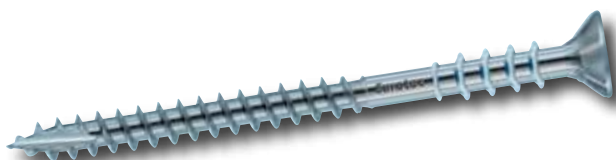
- Fully threaded screw holds board in position
- Prevention of creaking noises
- Suitable for all wood-based materials
- Yellow galvanised Cr3 surface
- CE marking according to EN 14592



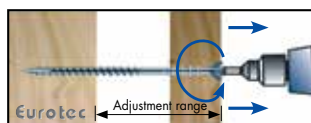
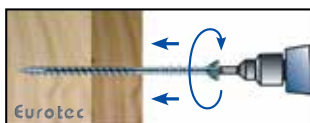
Justitec, Spacer screw-/mini, Pan-head TX

Justitec

galvanised steel, waxed



Art. no.	Dimensions (mm)	Drive	Adjustment range (mm)	PU
111804	6,0 x 60	TX 25 ●	0 - 10	200
111805	6,0 x 70	TX 25 ●	0 - 20	200
111806	6,0 x 80	TX 25 ●	0 - 30	200
111807	6,0 x 90	TX 25 ●	0 - 40	100
111808	6,0 x 100	TX 25 ●	0 - 50	100
111824	6,0 x 110	TX 25 ●	0 - 60	100
111809	6,0 x 120	TX 25 ●	0 - 70	100
905632	6,0 x 130	TX 25 ●	0 - 80	100
905633	6,0 x 145	TX 25 ●	0 - 95	100
905634	6,0 x 160	TX 25 ●	0 - 110	100



- No pilot-drilling necessary, infinitely adjustable
- No need to lay wedges underneath – work is carried out timber on timber

Spacer screw-/mini

galvanised steel, waxed



Art. no.	Dimensions (mm)*	Drive	Adjustment range (mm)	PU
110099	6/10,0 x 60/20	TX25 ●	0 – 15	200
110100	6/10,0 x 70/20	TX25 ●	15 – 25	200
110101	6/10,0 x 80/20	TX25 ●	15 – 35	200
110102	6/10,0 x 90/20	TX25 ●	25 – 45	200
110103	6/10,0 x 100/20	TX25 ●	35 – 55	200
110104	6/10,0 x 120/20	TX25 ●	55 – 75	100
110105	6/10,0 x 135/20	TX25 ●	70 – 90	100
110106	6/10,0 x 150/20	TX25 ●	75 – 105	100
110107	6/10,0 x 180/20	TX25 ●	100 – 135	100
110108	6/10,0 x 200/20	TX25 ●	135 – 155	100
944865	6/10,0 x 100/45	TX25 ●	35 – 55	200
901521	6/10,0 x 110/45	TX25 ●	45 – 65	100
900648	6/10,0 x 120/45	TX25 ●	55 – 75	100
900650	6/10,0 x 135/45	TX25 ●	70 – 90	100
900649	6/10,0 x 150/45	TX25 ●	75 – 105	100
901028	6/10,0 x 180/45	TX25 ●	100 – 135	100
903107	7/11,5 x 120/45	TX30 ●	55 – 75	—**
903109	7/11,5 x 135/45	TX30 ●	70 – 90	—**
903108	7/11,5 x 150/45	TX30 ●	75 – 105	—**
902911	7/11,5 x 180/45	TX30 ●	100 – 135	—**
905639	7/11,5 x 200/45	TX30 ●	135 – 155	—**
905640	7/11,5 x 220/45	TX30 ●	125 – 175	—**

* Ø screw thread / Ø head thread x screw length / head thread length

** On request

Mini spacer screw

Art. no.	Dimensions (mm)*	Drive	Adjustment range (mm)	PU
110121	4,5/8 x 60	TX25 ●	0 – 15	100
110122	4,5/8 x 80	TX25 ●	15 – 35	100
110123	4,5/8 x 100	TX25 ●	35 – 55	100
110124	4,5/8 x 120	TX25 ●	55 – 75	100

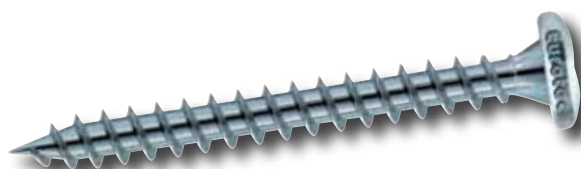
* Ø screw thread / Ø head thread x screw length

Fields of application:

Spacer screws for stress-free installation of wooden windows, aluminium/plastic windows and doors, as well as for fastening timber frames in wall and ceiling panelling and for ridge- and hip-batten installation

Pan-head TX

chipboard screw, blue galvanised

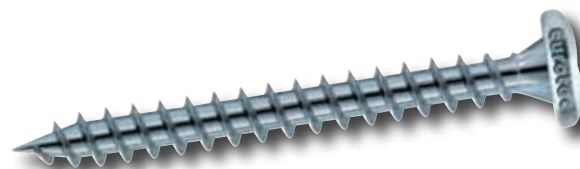


Art. no.	Dimensions (mm)	Drive	PU
111158	3,0 x 20	TX10 ○	1000
111159	3,0 x 25	TX10 ○	1000
111160	3,0 x 30	TX10 ○	1000
904523	3,5 x 16	TX15 ●	1000
111164	3,5 x 20	TX15 ●	1000
111165	3,5 x 25	TX15 ●	1000
111166	3,5 x 30	TX15 ●	1000
111167	3,5 x 35	TX15 ●	1000
111168	3,5 x 40	TX15 ●	1000
944777	4,0 x 20	TX20 ●	500
900034	4,0 x 25	TX20 ●	500
900035	4,0 x 30	TX20 ●	500
944808	4,0 x 35	TX20 ●	500
900036	4,0 x 40	TX20 ●	500
944809	4,0 x 45	TX20 ●	500
900037	4,0 x 50	TX20 ●	500
111186	4,5 x 20	TX25 ●	1000
111187	4,5 x 25	TX25 ●	1000
111188	4,5 x 30	TX25 ●	1000
111189	4,5 x 35	TX25 ●	1000
111190	4,5 x 40	TX25 ●	500
111191	4,5 x 45	TX25 ●	500
111192	4,5 x 50	TX25 ●	500
111199	5,0 x 20	TX25 ●	500
111200	5,0 x 25	TX25 ●	500
111201	5,0 x 30	TX25 ●	500
111202	5,0 x 35	TX25 ●	500
111203	5,0 x 40	TX25 ●	200
111204	5,0 x 45	TX25 ●	200
111205	5,0 x 50	TX25 ●	200
111206	5,0 x 60	TX25 ●	200
111211	6,0 x 40	TX25 ●	200
111212	6,0 x 50	TX25 ●	200
111213	6,0 x 60	TX25 ●	200
111234	6,0 x 80	TX25 ●	200

- Fully threaded screws
- Pan-head
- Chipboard screw for indoor use

Pan-head TX 1000

chipboard screw, special coated steel



Art. no.	Dimensions (mm)	Drive	PU
R903090	3,5 x 16	TX20 ●	1000
R903091	3,5 x 20	TX20 ●	1000
R903092	3,5 x 25	TX20 ●	1000
R903093	3,5 x 30	TX20 ●	1000
R903094	3,5 x 35	TX20 ●	1000
R903095	3,5 x 40	TX20 ●	1000
R903096	4,0 x 20	TX20 ●	1000
R903097	4,0 x 25	TX20 ●	1000
R903098	4,0 x 30	TX20 ●	1000
R903099	4,0 x 35	TX20 ●	1000
R903100	4,0 x 40	TX20 ●	500
R903101	4,0 x 50	TX20 ●	500
R903102	4,0 x 60	TX20 ●	200
R903103	4,5 x 20	TX20 ●	500
R903104	4,5 x 25	TX20 ●	500
R903105	4,5 x 30	TX20 ●	500
R903106	4,5 x 35	TX20 ●	500
R903107	4,5 x 40	TX20 ●	500
R903108	4,5 x 50	TX20 ●	200
R903109	4,5 x 60	TX20 ●	200
R903110	5,0 x 20	TX20 ●	500
R903111	5,0 x 25	TX20 ●	500
R903112	5,0 x 30	TX20 ●	500
R903113	5,0 x 40	TX20 ●	200
R903114	5,0 x 50	TX20 ●	200
R903115	5,0 x 60	TX20 ●	200
R903116	5,0 x 70	TX20 ●	200
R903117	5,0 x 80	TX20 ●	200
R903118	6,0 x 40	TX30 ●	200
R903119	6,0 x 50	TX30 ●	200
R903120	6,0 x 60	TX30 ●	200

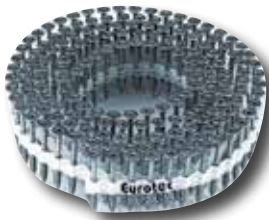
- Fully threaded screws
- Pan-head
- Chipboard screw for outdoor use

Screws in magazine

Holzher system

Paneltwistec

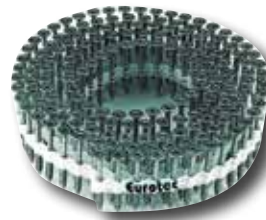
magazine, blue galvanised



Art. no.	Dimensions (mm)	Drive	Pieces/belt	Coils/carton
905613	4,0 x 40	TX20 ●	167	12
905614	4,0 x 50	TX20 ●	167	12
905615	4,0 x 60	TX20 ●	167	12
905616	4,5 x 50	TX25 ●	125	12
905617	4,5 x 60	TX25 ●	125	12
905622	4,5 x 70	TX25 ●	125	5
905635	5,0 x 50	TX25 ●	125	10
905636	5,0 x 60	TX25 ●	125	10
905637	5,0 x 70	TX25 ●	125	5
905643	5,0 x 80	TX25 ●	125	5

Paneltwistec

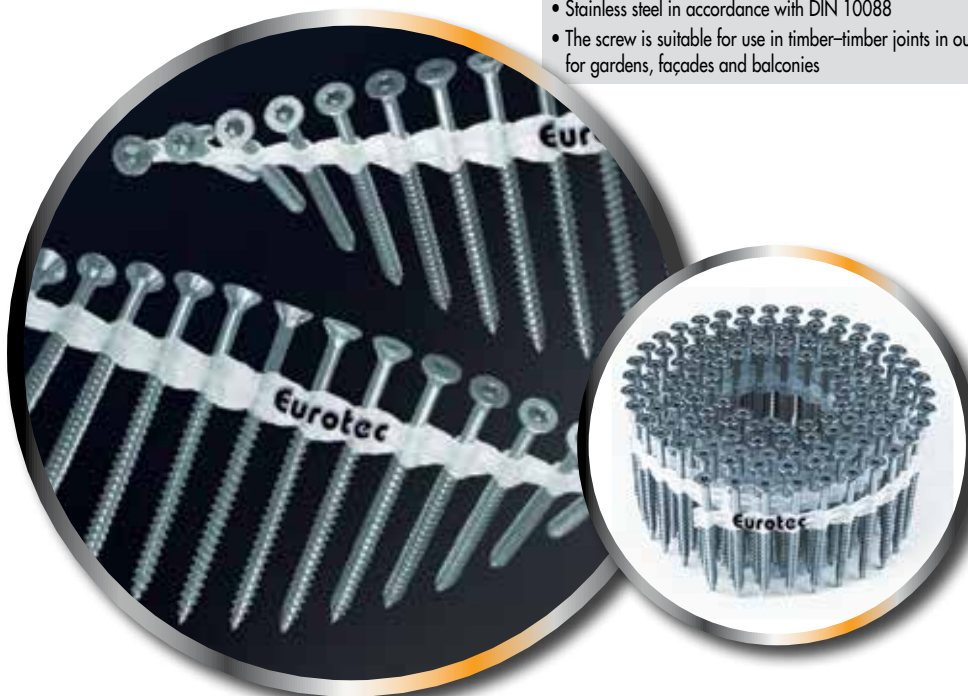
magazine, hardened stainless steel



Art. no.	Dimensions (mm)	Drive	Pieces/belt	Coils/carton
903605	4,5 x 50	TX25 ●	125	12
903606	4,5 x 60	TX25 ●	125	12
903609	5,0 x 70	TX25 ●	125	5
903608	5,0 x 80	TX25 ●	125	5

Field of application for hardened stainless-steel screws:

- This steel combines the best properties of carbon steels and stainless steels. It is partially rust-resistant like an A2 but with the high mechanical values of a galvanised steel. Hardened stainless steel is not acid-resistant. It is therefore also not suitable for fastening woods that contain tannin (e.g.: oak)
- Hardened stainless steel can be magnetised
- Stainless steel in accordance with DIN 10088
- The screw is suitable for use in timber-timber joints in outdoor installations and is used for gardens, façades and balconies



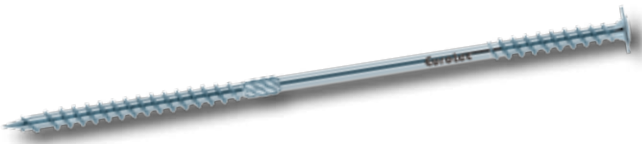
Topduo Roofing screw

The wood-construction screw for all over-rafter insulation systems



Topduo Roofing screw

flanged button-head, special coated



Art. no.	Dimensions (mm)	Length (mm)*	Drive	PU
945870	8,0 x 165	60/ 80	TX 40 ●	50
945871	8,0 x 195	60/100	TX 40 ●	50
945813	8,0 x 225	60/100	TX 40 ●	50
945814	8,0 x 235	60/100	TX 40 ●	50
945815	8,0 x 255	60/100	TX 40 ●	50
945816	8,0 x 275	60/100	TX 40 ●	50
945817	8,0 x 302	60/100	TX 40 ●	50
945818	8,0 x 335	60/100	TX 40 ●	50
945819	8,0 x 365	60/100	TX 40 ●	50
945820	8,0 x 397	60/100	TX 40 ●	50
945821	8,0 x 435	60/100	TX 40 ●	50
945843	8,0 x 472	60/100	TX 40 ●	50

* Under-head thread/drive thread

- For fastening over-rafter insulation
- Can also be used for many other applications in timber-frame construction thanks to its high extraction resistance

Topduo Roofing screw

cylinder-head, special coated



Art. no.	Dimensions (mm)	Length (mm)*	Drive	PU
945956	8,0 x 225	60/100	TX 40 ●	50
945965	8,0 x 235	60/100	TX 40 ●	50
945957	8,0 x 255	60/100	TX 40 ●	50
945958	8,0 x 275	60/100	TX 40 ●	50
945960	8,0 x 302	60/100	TX 40 ●	50
945961	8,0 x 335	60/100	TX 40 ●	50
945962	8,0 x 365	60/100	TX 40 ●	50
945963	8,0 x 397	60/100	TX 40 ●	50
945964	8,0 x 435	60/100	TX 40 ●	50

* Under-head thread/drive thread

- For fastening over-rafter insulation
- Can also be used for many other applications in timber-frame construction thanks to its high extraction resistance



Calculating quantities for Topduo roof-construction screw

Non-pressure-resistant insulating materials with $\sigma_{10\%} < 50 \text{ kPa}$

Example calculation

Number of Topduo screws/m^{2 a)} - Counter batten: 40 x 60 mm²

Insulation thickness	40	60	80	100	120	140	160	180	200	220	240	260	280
Boarding thickness	-	-	24	24	24	24	24	24	24	24	24	24	-
Screwing depth ^{b)}	77	58	66	74	72	77	88	66	106	84	62	78	82
Dimensions	8 x 165	8 x 195	8 x 225	8 x 255	8 x 275	8 x 302	8 x 335	8 x 335	8 x 397	8 x 397	8 x 397	8 x 435	8 x 435
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Roof pitch	20°	1,25	1,25	1,25	1,32	1,59	1,94	2,43	2,91	3,22	3,64	4,11	4,83
	25°	1,36	1,36	1,36	1,45	1,81	2,21	2,60	3,18	3,59	4,14	4,76	5,71
	30°	1,51	1,51	1,51	1,51	1,93	2,41	2,89	3,20	4,15	4,79	5,74	5,74
	35°	1,61	1,61	1,61	1,61	2,05	2,61	2,89	3,61	4,15	4,78	5,74	7,18
	40°	1,60	1,70	1,60	1,70	2,21	2,60	3,18	3,59	4,14	4,76	5,83	7,29
	45°	1,69	1,69	1,69	1,69	2,24	2,63	3,22	3,64	4,83	5,78	5,78	7,22
	50°	1,69	1,69	1,69	1,79	2,24	2,63	3,22	4,11	4,83	5,78	5,78	7,22
	55°	1,71	1,71	1,71	1,71	2,23	2,62	3,20	3,62	4,79	5,76	5,76	7,18
	60°	1,60	1,70	1,60	1,70	2,21	2,60	3,18	3,59	4,76	4,76	5,71	7,29

^{a)} With screw spacing A = B; screwing angle 65°. ^{b)} Screwing depth in the rafter.

Example conversion for screws/m² → max. screw spacing = $\frac{1}{(1,51 \times 0,7)} = 0,95 \text{ m}$.

With 1,51 = number of screws/m²; 0,7 = rafter clearance in m. According to the Z-9.1-630 approval, the screw spacing should not exceed 1,75 m. Calculation according to Z-9.1-630, DIN 1055-4:2005-03 and DIN 1055-5:2005.

All listed values should be viewed as subject to the assumptions that have been made. They therefore represent example calculations and are subject to typographical and printing errors.

Further assumptions:

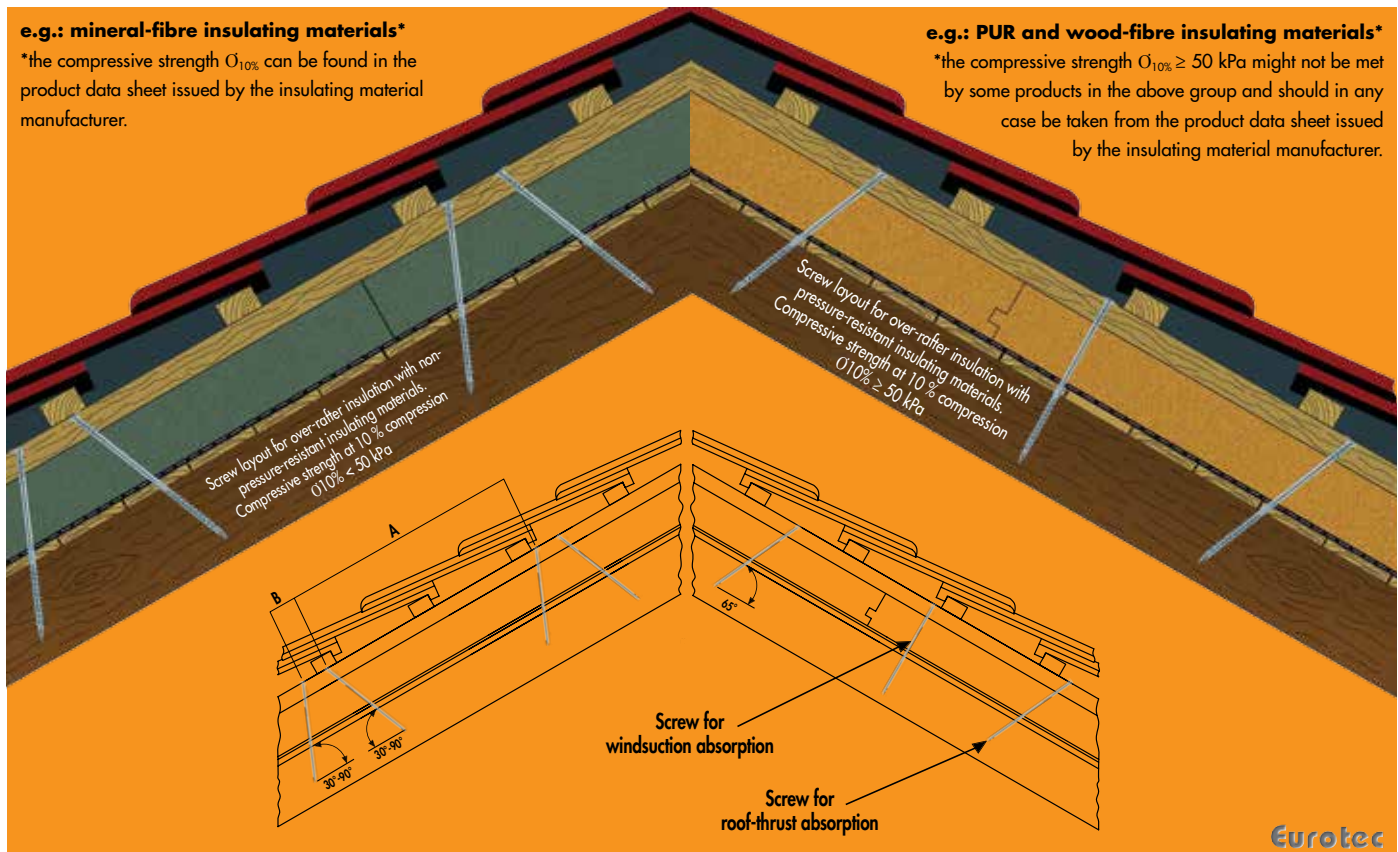
Gable roof; ridge height max. 285 m above sea level; wind load zone 1 (only wind-pressure values for roof area „H“ are taken into account); snow load zone 2 (snow guard present); unladen weight of roofing 0,55 kN/m²; usage class (NKL) 2; rafters C24 8/≥12 cm; rafter length 8 m; rafter spacing 70 cm; counter batten C24 4/6 x 4 m.

e.g.: mineral-fibre insulating materials*

*the compressive strength $\sigma_{10\%}$ can be found in the product data sheet issued by the insulating material manufacturer.

e.g.: PUR and wood-fibre insulating materials*

*the compressive strength $\sigma_{10\%} \geq 50 \text{ kPa}$ might not be met by some products in the above group and should in any case be taken from the product data sheet issued by the insulating material manufacturer.



Calculating quantities for Topduo roofing screw Pressure-resistant insulating materials with $\sigma_{10\%} \geq 50 \text{ kPa}$

Example calculation: Screws for roof-thrust absorption

Number of Topduo screws/m² - 100 kPa/50 kPa^{a)} - Counter batten: 40 x 60 mm²

Insulation thickness		40	60	80	100	120	140	160	180	200	220	240	260	280
Boarding thickness		-	-	24	24	24	24	24	24	24	24	24	24	-
Screwing depth ^{b)}		77	58	66	74	72	77	88	66	106	84	62	78	82
Dimensions		8 x 165	8 x 195	8 x 225	8 x 255	8 x 275	8 x 302	8 x 335	8 x 335	8 x 397	8 x 397	8 x 397	8 x 435	8 x 435
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Roof pitch	20°	0,58/0,97	0,57/1,00	0,57/0,97	0,57/0,97	0,57/0,97	0,57/1,02	0,57/1,13	0,57/1,24	0,57/1,33	0,57/1,44	0,57/1,53	0,57/1,62	0,62/1,72
	25°	0,69/1,18	0,62/1,22	0,59/1,18	0,59/1,18	0,59/1,18	0,59/1,24	0,59/1,37	0,59/1,50	0,59/1,62	0,59/1,74	0,64/1,85	0,70/1,98	0,75/2,10
	30°	0,79/1,36	0,72/1,41	0,68/1,36	0,68/1,36	0,68/1,36	0,68/1,42	0,68/1,58	0,68/1,72	0,68/1,87	0,68/2,01	0,74/2,13	0,80/2,26	0,87/2,42
	35°	0,88/1,51	0,79/1,56	0,75/1,51	0,75/1,51	0,75/1,51	0,75/1,58	0,75/1,76	0,75/1,93	0,75/2,07	0,75/2,23	0,83/2,38	0,89/2,55	0,96/2,69
	40°	0,93/1,64	0,85/1,70	0,82/1,64	0,82/1,64	0,82/1,64	0,82/1,72	0,82/1,90	0,82/2,07	0,82/2,26	0,82/2,42	0,89/2,59	0,97/2,74	1,04/2,91
	45°	0,98/1,74	0,89/1,78	0,87/1,74	0,87/1,74	0,87/1,74	0,87/1,83	0,87/2,01	0,87/2,19	0,87/2,38	0,87/2,55	0,94/2,74	1,02/2,91	1,10/3,03
	50°	1,00/1,80	0,92/1,85	0,89/1,80	0,89/1,80	0,89/1,80	0,89/1,87	0,89/2,07	0,89/2,26	0,89/2,46	0,89/2,64	0,97/2,80	1,06/2,97	1,14/3,17
	55°	1,00/1,83	0,93/1,87	0,91/1,83	0,91/1,83	0,91/1,83	0,91/1,90	0,91/2,13	0,91/2,30	0,91/2,50	0,91/2,69	0,99/2,85	1,08/3,03	1,16/3,24
	60°	0,98/1,83	0,93/1,87	0,90/1,83	0,90/1,83	0,90/1,83	0,90/1,90	0,90/2,10	0,90/2,30	0,90/2,50	0,90/2,69	0,99/2,85	1,07/3,03	1,16/3,24

^{a)} Number of screws/m², differentiated for compressive strength of the insulation: 100 kPa or 50 kPa.

^{b)} Screwing depth in the rafter.

Example conversion for screws/m² → max. screw spacing = $\frac{1}{(1,36 \times 0,7)} = 1,05 \text{ m}$.

With 1,36 = number of screws/m²; 0,7 = rafter clearance in m. According to the Z-9.1-630 approval, the screw spacing should not exceed 1,75 m. Calculation according to Z-9.1-630, DIN 1055-4:2005-03 and DIN 1055-5:2005. All listed values should be viewed as subject to the assumptions that have been made. They therefore represent example calculations and are subject to typographical and printing errors.

Further assumptions:

Gable roof; ridge height max. 18 m; site elevation max. 285 m above sea level; wind load zone 1 (only wind-pressure values for roof area „H“ are taken into account); snow load zone 2 (snow guard present); unladen weight of roofing 0,55 kN/m²; usage class (NKL) 2; rafters C24 8/≥ 12 cm; rafter length 8 m; rafter spacing 70 cm; counter batten C24 4/6 x 4 m.

Example calculation: Screws for wind-suction absorption

Number of Topduo screws/m² - max. screw spacing in m

Insulation thickness	40	60	80	100	120	140	160	180	200	220	240	260	280
Boarding thickness	-	-	24	24	24	24	24	24	24	24	24	24	-
Screwing depth ^{d)}	85	65	51	61	71	51	51	58	71	51	93	73	77
Dimensions	8 x 165	8 x 165	8 x 195	8 x 225	8 x 255	8 x 255	8 x 275	8 x 302	8 x 335	8 x 335	8 x 397	8 x 397	8 x 397
Roof pitch	20° - 25°	0,77 screws/m ² ; screw spacing = 1,85 m											
	> 25° bis 35°	0,79 screws/m ² ; screw spacing = 1,80 m											
	> 35° bis 40°	0,81 screws/m ² ; screw spacing = 1,76 m											
	> 40° bis 50°	0,84 screws/m ² ; screw spacing = 1,70 m											
	> 50° bis 60°	0,88 screws/m ² ; screw spacing = 1,63 m											

^{d)} Screwing depth in the rafter.

The following apply in addition to the assumptions made above: least favourable wind-suction values for the roof areas „H“ and „L“; load-duration class (KLED) = short.

Roof hooks

Fastening for over-rafter insulation

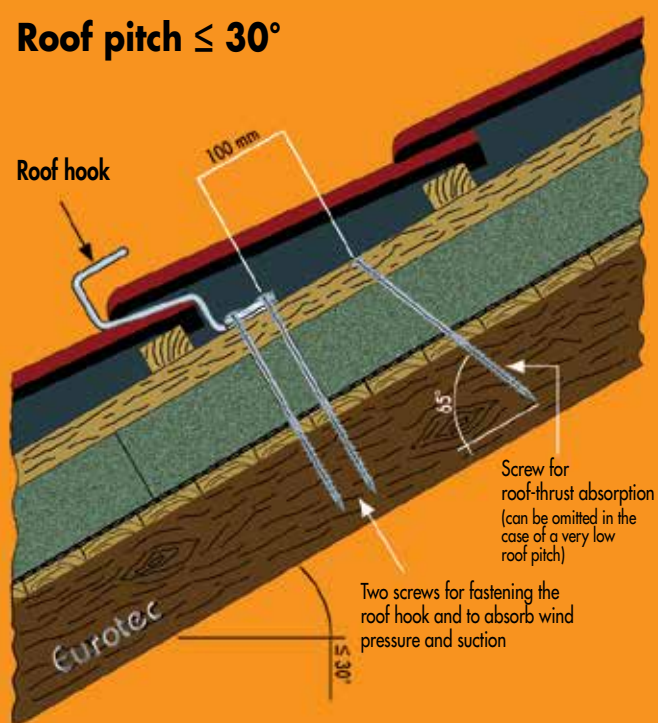


With the Topduo double-threaded screw, the additional point loads arising due to a photovoltaic or solar-thermal system are safely transferred to the rafter. The roof hooks are fastened to the rafter by means of two screws that pass through the entire assembly height of the over-rafter insulation.

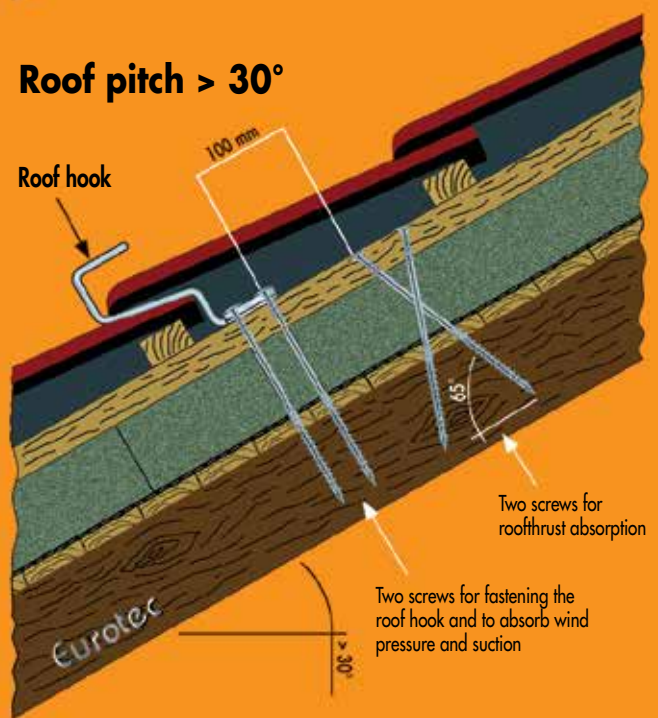
This connection must then be reinforced with max. two further screws, depending on the roof pitch and other factors.



Roof pitch $\leq 30^\circ$



Roof pitch $> 30^\circ$





Calculation service On-roof insulation in accordance with ETA-11/0024

By fax on +49 (0)2331 6245 200 or by email to info@e-u-r-o-tec.de

Free preliminary calculation as a planning aid. Technical documentation at www.e-u-r-o-tec.de. Application technology team: 02331 - 6245 -108 / -109 / -110.

The software and inquiry form are available to download on the service page of our website: www.e-u-r-o-tec.de.

Contact

Traders:

Contractor:

Contact person:

Contact person:

E-Mail:

Tel.:

Construction project:

E-Mail:

Details of the construction project



Lean-to roof



Gable roof



Hipped roof

Building length on eaves side (m):



Gable width (m):

Rafter length (m):
(optional information)

Width of counter batten (mm):
(at least 60 mm)

Ridge height (m):
(above site)

Height of counter batten (mm):
(at least 40 mm)

Roof overhang (m): Eaves _____ / Verge _____
(quantity is determined for entire roof surface)

Length of counter batten (m):
(Length of actually installed counter-batten pieces)

Roof pitch (°): Main roof _____ / hip _____

Load from roofing and battens:



Standing metal seam roof (0,35 kN/m²)



Concrete roofing tile, roof tile (0,55 kN/m²)



Flat-tile roof in double/crown formation (0,75 kN/m²)



or _____ (kN/m²)

Insulation:

Insulation thickness (mm):

Rafter width (mm):

Post code of the construction project:
(to allow determination of the wind/snow load zone)

Rafter height (mm):

Characteristic snow load on base s_k (kN/m²):
(only for municipalities with special regulation)

Rafter centre spacing (mm):

Boarding thickness (mm):

Site elevation above sea level (m):
(important for municipalities with strong relief)

Snow guard provided?



Yes



No

Screw selection



Paneltwistec countersunk-head screw*



Paneltwistec flanged button-head screw*



Topduo flanged button-head**



Topduo ornamental head**

*only for pressure-resistant insulating materials with compressive strength ≥ 50 kPa

**also for non-pressure-resistant insulating materials

Deck construction and landscaping



The innovative fastening systems for modern deck construction in gardens, parks and green spaces.

Eurotec®
... living with nature



Model Foto: Colourbox.com



Eurotec



What's on the inside also counts!

The first thing that hits you about a timber deck is, above all, its surface finish; it combines proximity to nature with urban chic and conveys a feeling of warmth and well-being.

To maintain this feeling in the long term, however, it's important to choose the right substructure and fastening system, as well as carefully selecting the timber.

Eurotec substructures and fastening systems for decks and gardens

1. Eurotec adjustable pedestals

- Profi-Line adjustable pedestals
- ECO-Line adjustable pedestals
- Quattro-Lager

2. Eurotec aluminium profiles

- EVO/EVO Slim aluminium system profile and connector
- Eveco aluminium system profile and connector
- Support profile and fascia profile HKP
- Aluminium function strips

3. Eurotec products for visible/direct fastening of deck boards

- Distance strip
- Terrassotec screws
- Profile drilling screws
- And many more...

4. Eurotec products for hidden/indirect fastening

- ECO system clip
- Deck gliders
- TT-Stick, Twin System Clip
- And many more...

Subsequent pages of this catalogue present these and many other products, such as aids for laying deck boards and post feet for constructing carports, as well as general tips on building a deck.

Overview of timber types*

A timber deck matches any ambience. Whether they are left natural and greying or are treated with care products: they lend a certain proximity to nature or even a sense of urban chic, and always a sense of well-being.

As well as a suitable fastening system, above all good planning and professional assembly are essential for long-lived, low-maintenance deck construction. Not all timber is the same: as well as aesthetics and price, it is advisable to weigh up the technological properties against one another.

A timber with very high durability and an astoundingly beautiful exterior can, for example, have only moderate dimensional stability and may not be suited for indirect, hidden fastening. This overview of the most common deck timbers might assist you in your considerations.

Glossary

- E-modulus (modulus of elasticity) – resistance of a material to elastic deformation. The higher the Young's modulus, the stiffer the component. This overview quotes the Young's modulus as measured parallel to the grain.
- Durability class – indication of the natural durability of the heartwood with respect to fungus, from 1 (very durable) to 5 (not durable).
- Dimensional stability – characteristic of the timber not to warp, twist, etc. due to swelling/shrinkage.

Please ensure that you refer to the information we provide on "Hazards in the construction of timber decks" on page 94

Thermo Ash *Fraxinus spp.*



General details:

- Origin: Central and Eastern Europe, North America
- Colour: Dark brown; also greying as untreated timber
- Durability class: 1–2; untreated: 5
- Properties: Low swelling and shrinkage, excellent dimensional stability, thermal treatment leads to reduction in strength and elasticity and causes the surface to become brittle.

Application:

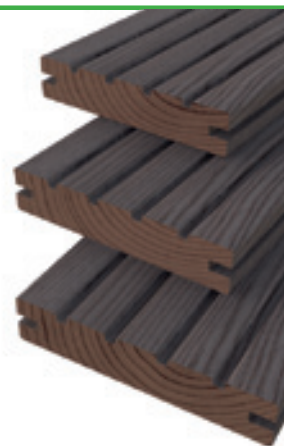
Deck construction, parquet, floors, garden furniture, sometimes as a substitute for tropical timber, not to be used for structural applications.

Installation instructions:

- Centre distance in substructure: max. 50 cm
- Joint width between the boards: 4 to 6 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

Use Thermofix screw with drill point for the deck glider (brittle surface!). For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + No erosion
- + Low swelling and shrinkage
- + Very good dimensional stability
- + Substitute for tropical timber
- + Largely sourced from sustainable forestry

- Surface made brittle by thermal treatment
- Not for structural applications
- Moderate hardness

Thermo-Beech *Fagus sylvatica*



General details:

- Origin: Central and South-Eastern Europe
- Colour: Dark brown; also greying as untreated timber
- Durability class: 1–2; untreated: 5
- Properties: Low swelling and shrinkage, excellent dimensional stability, thermal treatment causes reduction in strength and elasticity and makes the surface brittle, plain texture.

Application:

Deck construction, parquet, floors, worktops, sometimes as a substitute for tropical timber, not to be used for structural applications.

Installation instructions:

- Centre distance in substructure: max. 40 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

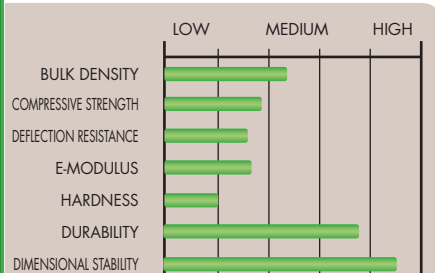
Use Thermofix screw with drill point for the deck glider (brittle surface!). For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + No erosion
- + Low swelling and shrinkage
- + Very good dimensional stability
- + Substitute for tropical timber
- + Largely sourced from sustainable forestry

- Surface made brittle by thermal treatment
- Not for structural applications
- Moderate hardness

Thermo Pine *Pinus sylvestris*



General details:

- Origin: Europe, east as far as Siberia
- Colour: Uniform brown to dark brown as a result of thermal treatment, also greying as untreated timber
- Durability class: 1–3 with thermal treatment (3–4 untreated)
- Properties: Low swelling and shrinkage, excellent dimensional stability. Thermal treatment leads to a reduction in strength and elasticity, causing the surface to become brittle. Contrast-rich texture.

Application:

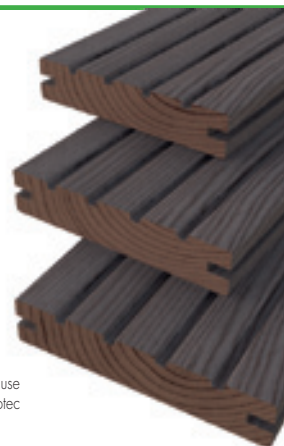
Deck construction, sometimes as a substitute for tropical timber, not to be used for structural applications.

Installation instructions:

- Centre distance in substructure: max. 50 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between butt joints: 3 to 4 mm

Fastening recommendation:

Use Thermofix screw with drill point for the deck glider (brittle surface!). For direct fastening, use Terrassotec A4 5.5 mm, Hapotec Heli A4 5.0 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + No resin leakage
- + Low swelling and shrinkage
- + Substitute for tropical timber
- + Excellent dimensional stability
- + Mostly obtained from sustainable forestry

- Surface made brittle by thermal treatment
- Not for structural applications
- Only moderate hardness

Robinia, False Acacia

Robinia pseudoacacia



General details:

- **Origin:** North America, also cultivated in Europe since the 17th century (not to be confused with Acacia)
- **Colour:** Yellow-green to olive brown, darkening to golden brown
- **Durability class:** 1–2, most-durable domestic timber
- **Properties:** High swelling and shrinkage, satisfactory to moderate dimensional stability, high strength and hardness, distinctive texture.

Application:

Deck construction, window frames, playground construction, fencing, excellent structural timber for outdoor use, sometimes used as a substitute for tropical timber.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 10 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening, use Terrasotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.

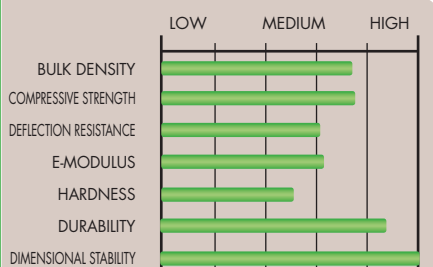


- + High durability
- + High strength
- + High hardness
- + Substitute for tropical timber
- + Largely sourced from sustainable forestry

– Moderate dimensional stability

Merbau

Intsia spp.



General details:

- **Origin:** Southeast Asia, trade name encompasses various species
- **Colour:** Light brown to reddish brown, darkening to dark copper brown
- **Durability class:** 1–2
- **Properties:** Very low swelling and shrinkage, excellent dimensional stability, high strength and hardness

Application:

Deck construction, window frames, parquet, stairs, furniture

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 4 to 6 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For direct fastening, use Terrasotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + High strength
- + High hardness
- + Low swelling and shrinkage
- + Exceptionally good dimensional stability

– Possible erosion of constituent substances in the timber

– Originates almost exclusively from overexploitation (certified timber barely available)

Massaranduba

Manilkara spp.



General details:

- **Origin:** Northern to central South America, trade name encompasses various species
- **Colour:** Meaty red colour, later darkening to dark brown
- **Durability class:** 1–2
- **Properties:** High swelling and shrinkage, satisfactory to moderate dimensional stability, extremely high strength, high hardness, homogeneous texture.

Application:

Deck construction, floors subject to heavy loads, noise barriers and privacy screens, fencing, structural timber, sometimes used in water engineering.

Installation instructions:

The installation is extremely dependent on the timber's moisture level. The wood moisture must always be determined before installation. Ask your timber supplier for more information.

Fastening recommendation:

For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to indirect. This applies above all to board thicknesses > 25 mm. For direct fastening, use Terrasotec A4 5.5 mm in combination with the distance strip or profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop. Nevertheless, we cannot provide a general recommendation, as damage is repeatedly found to occur with this type of timber.



- + High durability
- + Extremely high strength
- + High hardness

– Extremely low dimensional stability

– Often originates from overexploitation (use only certified timber wherever possible)

– We consider permanent, secure fastening to be highly critical

Kapur

Dryobalanops spp.



General details:

- **Origin:** Southeast Asia, trade name encompasses various species
- **Colour:** Orange to reddish brown, darkening to brown
- **Durability class:** 1–2
- **Properties:** Moderate to high swelling and shrinkage, satisfactory to moderate dimensional stability, homogeneous texture.

Application:

Deck construction, fencing, structural timber

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 10 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening, use Terrasotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability

– Possible erosion of constituent substances in the timber

– Often originates from overexploitation (use only certified timber wherever possible)

– Moderate hardness

– Moderate dimensional stability

Overview of timber types*

Ipé, Lapacho *Tabebuia spp.*



General details:

- **Origin:** Northern to central South America, trade name encompasses various species
- **Colour:** Light brown to light yellowish brown, later darkening to brown to olive brown
- **Durability class:** 1-2
- **Properties:** Moderate to high swelling and shrinkage, good dimensional stability, extremely high strength, very high hardness, homogeneous texture.

Application:

Deck construction, bridge construction and shipbuilding, floating jetties, fencing, parquet, floors subject to heavy loads, approved structural timber, sometimes used in water engineering.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening: Terrasotec, hardened stainless steel, 5.0 and 5.5 mm; Hapatec, hardened stainless steel, 5.0 mm; or Profile drilling screw, hardened stainless steel, 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + Good dimensional stability
- + Extremely high strength
- + Very high hardness
- + Approved structural timber

– Often originates from overexploitation (use only certified timber wherever possible)

Garapa *Apuleia spp.*



General details:

- **Origin:** South America, trade name encompasses various species
- **Colour:** Honey yellow, later darkening to yellowish brown or golden brown
- **Durability class:** Varies between 1 and 3
- **Properties:** Moderate to high swelling and shrinkage, satisfactory to moderate dimensional stability, plain, homogeneous texture.

Application:

Deck construction, furniture, window frames

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 10 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening, use Terrasotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability (variable)
- + High strength
- + Very high hardness

– Possible erosion of constituent substances in the timber

– Often originates from overexploitation (use only certified timber wherever possible)

– Moderate dimensional stability

Douglas Fir *Pseudotsuga menziesii*



General details:

- **Origin:** North America, also cultivated in Europe since the 19th century
- **Colour:** Light yellowish brown to red brown, resembles European Larch.
- **Durability class:** 3-4
- **Properties:** High elasticity, low swelling and shrinkage, good dimensional stability, low resin content, fine texture.

Application:

Deck construction, façades, solid-wood floorboards, window frames, fencing, approved structural timber, sometimes used as a substitute for tropical timber.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For direct fastening: Terrasotec, hardened stainless steel, 5.0 and 5.5 mm; Hapatec, hardened stainless steel, 5.0 mm; or Profile drilling screw, hardened stainless steel, 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop (risk of splintering).



- + Low swelling and shrinkage
- + Good dimensional stability
- + Approved structural timber
- + Substitute for tropical timber
- + Largely sourced from sustainable forestry

– Resin bleed possible

– Moderate durability but sufficient for deck construction

– Moderate hardness

Cumarú *Dipteryx spp.*



General details:

- **Origin:** Northern South America, trade name encompasses various species
- **Colour:** From yellowish to red to violet brown, later darkening to yellowish brown to olive brown
- **Durability class:** 1
- **Properties:** High swelling and shrinkage, good to satisfactory dimensional stability, extremely high strength, very high hardness, homogeneous texture.

Application:

Deck construction, floors subject to heavy loads, structural timber, sometimes used in water engineering.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening: Terrasotec A2 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + Very high durability
- + Extremely high strength
- + Very high hardness

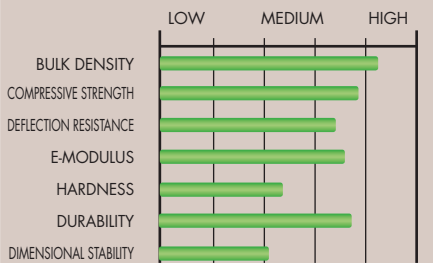
– Possible erosion of constituent substances in the timber

– Often originates from overexploitation (use only certified timber wherever possible)

– Moderate dimensional stability

Bangkirai, Yellow Balau

Shorea spp.



General details:

- **Origin:** South, Southeast and East Asia, trade name encompasses various species
- **Colour:** Yellowish brown, often darkening to olive brown
- **Durability class:** 2
- **Properties:** Medium to high swelling and shrinkage, satisfactory dimensional stability, high strength and hardness, distinctive texture.

Application:

Deck construction, piers, floating jetties, fencing, stables, flooring subject to heavy use, structural timber in water engineering. Many of the Shorea species of the Meranti group are used for window frames.

Installation instructions:

Installation is extremely dependent on the timber's moisture level. The wood moisture must always be determined before installation. Ask your timber supplier for more information.

Fastening recommendation:

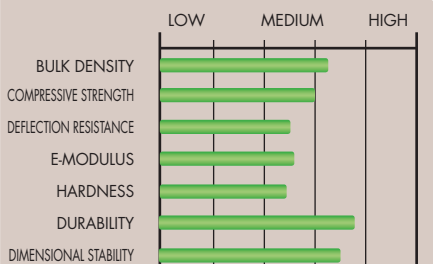
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening: Terrasotec, hardened stainless steel, 5.0 and 5.5 mm; Hapatec, hardened stainless steel, 5.0 mm; or Profile drilling screw, hardened stainless steel, 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + High strength
- + High hardness
- Possible erosion of constituent substances in the timber
- Often originates from overexploitation (use only certified timber wherever possible)

Oak

Quercus robur, Quercus petraea



General details:

- **Origin:** Europe
- **Colour:** Yellowish brown, darkening to brown to olive brown
- **Durability class:** 2
- **Properties:** Low swelling and shrinkage, good dimensional stability; distinctive, decorative texture.

Application:

Deck construction, stairs, parquet, furniture, window frames, fencing, approved structural timber, sometimes used as a substitute for tropical timber.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For direct fastening, use Terrasotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + Good dimensional stability
- + High hardness
- + Approved structural timber
- + Substitute for tropical timber
- + Largely sourced from sustainable forestry

Walaba

Eperua spp.



General details:

- **Origin:** As reservoir timber from the Brokopondo Reservoir in Suriname (South America), otherwise from northern South America; trade name encompasses various species.
- **Colour:** Red brown to dark brown
- **Durability class:** 1
- **Properties:** As reservoir timber: low swelling and shrinkage, good dimensional stability, high strength and hardness, very decorative.

Application:

Deck construction, water engineering, fencing, piles, masts, structural timber.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For direct fastening, use Terrasotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + Very high durability
- + No erosion
- + Low swelling and shrinkage
- + Good dimensional stability
- + High strength and hardness
- + Timber from reservoirs means no destruction of primeval forest

Siberian Larch

Larix sibirica



General details:

- **Origin:** Western and Southern Siberia, Mongolia
- **Colour:** Yellowish (European larch: yellowish to reddish-brown)
- **Durability class:** Varies from 1 to 4 depending on where it is grown
- **Properties:** Very narrow rings, giving it a high wood density for softwood, high elasticity, low swelling and shrinkage, good to satisfactory dimensional stability, predominantly knot-free, low resin content, straight-grained texture.

Application:

Deck construction, façades, solid-wood floorboards, window frames, fencing, approved structural timber.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:

For direct fastening: Terrasotec, hardened stainless steel, 5.0 and 5.5 mm; Hapatec, hardened stainless steel, 5.0 mm; or Profile drilling screw, hardened stainless steel, 5.5 mm for Eurotec aluminium profiles. Pilot-drilling with drill stop recommended.



- + Low swelling and shrinkage
- + Predominantly knot-free
- + Approved structural timber
- Resin bleed possible
- Often originates from overexploitation, so questionable as a substitute for tropical timber (use only certified timber wherever possible)
- Moderate hardness

Overview of timber types*

Courbaril, Jatobá *Hymenea spp.*



General details:

- **Origin:** Central and South America
- **Colour:** Trade name encompasses various species, usually salmon-coloured to yellowish brown, often later darkening to orange-brown to copper-coloured.
- **Durability class:** 1-3
- **Properties:** High swelling and shrinkage, good to satisfactory dimensional stability, high strength, extremely high hardness, very decorative.

Application:

Deck construction, solid wood floorboards, heavy-duty flooring, furniture, structural timber.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between boards: 6 to 8 mm
- Spacing between butt joints: 3 to 4 mm

Fastening recommendation:

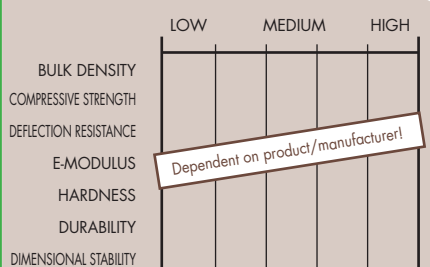
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to indirect. This particularly applies to board thicknesses > 25 mm. For direct fastening, use Terrasotec A4 5.5 mm, Hapatec Heli A4 5.0 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + No washing out
- + Extremely high strength
- + Extremely high hardness

- Only moderate dimensional stability
- Often originates from overexploitation (use only certified timber wherever possible)

Acetylated wood Various types of timber



General details:

- **Origin:** Various countries of origin
- **Colour:** Depending on type of timber used
- **Durability class:** 1 (3-4 untreated)
- **Properties:** Very low swelling and shrinkage, exceptionally good dimensional stability. Possible brittleness due to modification with resulting increase in hardness and reduction of the timber's equilibrium moisture content.

Application:

Deck construction, façades, window frames, sometimes as a substitute for tropical timber, not to be used for structural applications.

Installation instructions:

- Centre distance in substructure: max. 60 cm
- Joint width between boards: 4 to 6 mm
- Spacing between butt joints: 3 to 4 mm

Fastening recommendation:

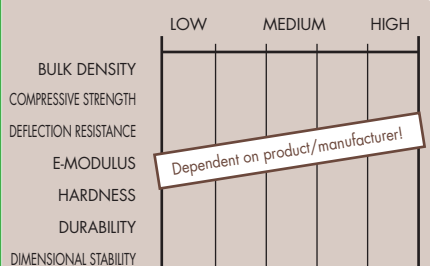
Use Thermofix screw with drill point for the deck glider (brittle surface). For direct fastening, use Terrasotec A4 5.5 mm, Hapatec Heli A4 5.0 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.



- + High durability
- + Very low swelling and shrinkage
- + Exceptionally good dimensional stability
- + Substitute for tropical timber
- + Mostly obtained from sustainable forestry

- Surface brittleness due to modification
- Not for structural applications
- Only moderate hardness

WPC Wood-Plastic-Composite



General details:

Depending on the product in question, wood-plastic composite materials consist of different proportions of wood, plastics and additives. The wood content varies from 50% to 70%. The natural fibres incorporated into the material originate predominantly from sustainable forestry. The properties of these polymer-bound products are equivalent to those of high-quality timber-based materials.

Application:

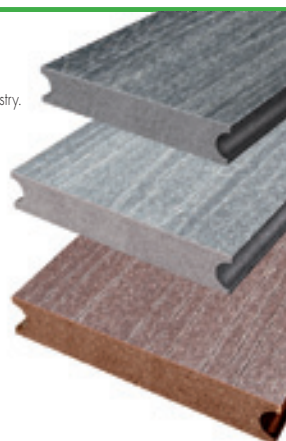
Deck construction, fencing, garden furniture, façades, edge profiles, privacy screen elements, sometimes used as a substitute for tropical timber.

Installation instructions:

Substructure spacing and joint width according to manufacturer's information.

Fastening recommendation:

WPC boards are usually fastened hidden and invisibly with clips, e.g. T-Stick on aluminium substructure.



- + Good dimensional stability
- + Barefoot board
- + No erosion
- + Substitute for tropical timber
- + Largely sourced from sustainable forestry

*Solid-timber deck boards do not form part of our product range. This brief overview represents a planning aid. All information without guarantee. For more timber types, please visit www.e-u-r-o-tec.de.



Eurotec®
... living with nature

Wood decks combine classic beauty with a warm and cosy atmosphere. Wood does not get too hot in summer and remains at a pleasant temperature in winter.



Model Foto: Colourbox.com

DECK SUBSTRUCTURE

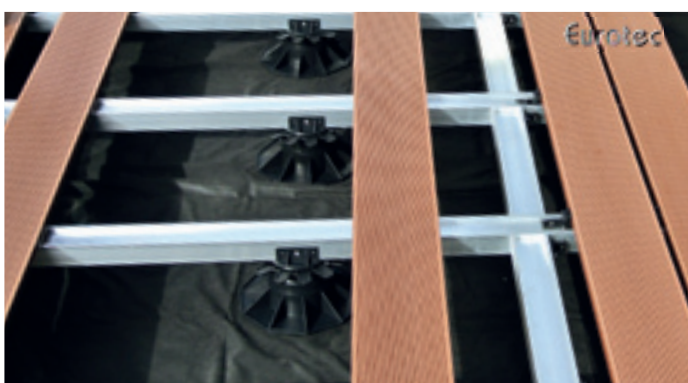
Essential for a perfect deck



High-grade solutions for all types of substructure

Without a perfect substructure, your deck will soon become defective. We offer a number of aids that let your deck remain attractive for a long time.

We will show you what's important!



Cork accessories for deck substructures

»Free of PAHs«
(hazardous plasticisers in rubber).

Cork, what is it?

Cork is a natural product obtained from the bark of the cork oak. The cork oak is a deciduous tree that is native primarily to the western Mediterranean, e.g. Spain and Portugal. To harvest the cork, the bark is peeled directly off the tree by hand. As cork is a renewable natural product, a tree can be reharvested approx. every 10 years without causing damage to the tree. A cork oak has a life expectancy of up to 300 years and delivers approx. 100 to 200 kilograms of cork over its lifespan.



The cork pad spacers are laid between the deck substructure and the foundation/subsurface (self-adhesive on one side) and thus form a gap that aids constructive timber protection. The cork pad spacers are available in three sizes. These are 3 mm, 6 mm and 10 mm thickness/height (see Fig.). In addition to the advantages already mentioned, useful side effects of using the spacer include the option to adjust the height of the substructure and that the loads are distributed evenly.

Cork: properties and advantages

- Water-repellent (hydrophobic) and moisture-resistant
- Chemically neutral – free of PAHs (PAHs are toxic, carcinogenic plasticisers that are found primarily in rubber compounds)
- Does not decompose and is resistant to most acids and lye
- Dampens footfall sound, is non-slip and insulates against heat, noise and vibrations
- Resistant to rot, bacteria and germs
- Very pressure-stable and exhibits hardly any expansion
- Flame-resistant (fire class B2)

Cork is a sustainable, environmentally friendly natural product.

self-adhesive



Cork pad spacer, self-adhesive

Art. no.	Dimensions	Material	PU
945397	70 x 70 x 3 mm	Cork	25
945398	70 x 70 x 6 mm	Cork	25
945399	70 x 70 x 10 mm	Cork	25

Roof-protection cork, the natural underlay for adjustable pedestals

Using adjustable deck pedestals on, for example, PVC sheet roofs can lead to problems because of the plasticisers contained in the roofing.

The roof-protection cork provides natural protection against mechanical damage to the roof sheeting, at the same time as preventing contact between the two materials. Free of PAHs (hazardous plasticisers in rubber).



Art. no.	Dimensions	Material	PU
945395	250 x 250 x 3 mm	Cork	10

Accessories for substructures for decks

Root control fleece underlay



Permeable polypropylene underlay. Very limited permeability to water. Inhibits plant growth under the fleece.

Art. no.	Dimensions	Material	PU
944799	1,6 x 10,0 m	Polypropylene 50g/m ²	1

Rolfi, spacers



These spacers form a gap between the substructure and the foundation/support and thus help to protect the wood of the boarding beams.

Useful side effects are

- Height adjustment of the substructure possible
- Even load distribution, minor irregularities are balanced out
- Dampens footfall noise



Art. no.	Dimensions	Material	PU
945966	60 x 60 x 3 mm	EPDM, black	25
945967	60 x 60 x 6 mm	EPDM, black	25
945379	60 x 60 x 10 mm	EPDM, black	25

Protectus, timber-protection tape

The Protectus timber-protection tape provides lasting protection for your timber substructure from moisture, e.g. rain.

Advantages:

- Constructive timber protection
- Easy fastening thanks to adhesive film
- Optimum fit thanks to very thin material
- Tear-proof and durable
- Screws can be screwed through easily
- Can be individually cut to length



Art. no.	Dimensions	PU
946157	20000 x 75 x 0,5 mm	1

Rolfi, roll

The Rolfi roll forms a gap between the deck substructure and foundation/subsurface. Available in two materials.

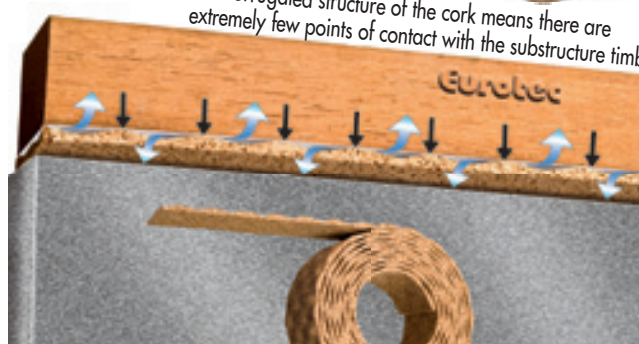
Advantages:

- Constructive timber protection
- Substructure height can be adjusted
- Uniform load distribution
- Small irregularities can be evened out
- Dampens footfall noise
- Can be individually cut to length

»Free of PAHs«
(hazardous plasticisers in rubber).



The corrugated structure of the cork means there are extremely few points of contact with the substructure timber.



Art. no.	Dimensions	Material	PU
954040	4000 x 70 x 6 mm	Cork (corrugated)	8
945561	2015 x 70 x 8 mm	Granulated rubber	10

The professional series of adjustable pedestals

From now on, we can offer you a modular system:
innovative, universal, versatile and user-friendly!



Combination of stone slabs and deck boards

PRO adjustable pedestals

Suitable for timber decks and stone patios with
various assembly heights



Profi-Line adjustable pedestals

The Profi-Line adjustable pedestals series comprises four adjustable pedestals of different heights. Their assembly height can be altered with extension rings.

PRO S



Adjustable height via three 5 mm steps and an additional 8 mm via the thread.

Art. no.	Name	Assembly height	Load bearing capacity*	PU
946070	PRO S	3,0 - 5,3 cm	8,0 kN	10

PRO M



Art. no.	Name	Assembly height	Load bearing capacity*	PU
946071	PRO M	5,3 - 8,2 cm	8,0 kN	10

PRO L



All PRO pedestals can be fastened in place with screws.

Art. no.	Name	Assembly height	Load bearing capacity*	PU
946072	PRO L	7,0 - 11,7 cm	8,0 kN	10

PRO XL



NEW
to our product range

Art. no.	Name	Assembly height	Load bearing capacity*	PU
946079	PRO XL	7,4 - 16,8 cm	8,0 kN	10

Upper part



Threaded ring



Extension ring



Baseplate



↑ This is how the PRO L adjustable pedestal is put together

Extension rings

for increasing the height of the PRO adjustable pedestals



Art. no.	Name	Assembly height	Load bearing capacity*	PU
946074	Extension ring + 4	4,0 cm	8,0 kN	10
946073	Extension ring +10	10,0 cm	8,0 kN	10

Modular system

The new series of adjustable pedestals is completed by three different types of adapter:

- **L adapters** – for classic timber substructures or modern aluminium substructures
- **Click adapters** – for clicking Eurotec aluminium profiles into place in a time-saving manner
- **Stone adapters** – for laying stone slabs



Example with PRO M adjustable pedestal

L adapter

for aluminium or
timber profiles



Art. no.	Name	PU
946075	L adapter	10

Click adapter

for aluminium profiles
with Click system

Art. no.	Name	PU
946076	Click adapter 40	10
946077	Click adapter 60	10



Click adapter 40 for Eveco aluminium system profile



Click adapter 60 for EVO/EVO Slim aluminium system profile and HKP deck-support profile

Stone adapter

for stone slabs

Art. no.	Name	Joint spacer dimensions*	PU
946078	Stone adapter	8 / 4 / 14 mm	10



* Height / width / length

* The quoted load-bearing capacities represent recommended values. With these loads, the adjustable pedestals only deform by approx. 2 mm. The load-bearing capacity before actual fracture is multiple times higher.

Eurotec Stone System – numerous possibilities! Suitable for all common

Multifunctional installation system Building patios has never been so easy!

The multifunctional installation system Stone System from Eurotec minimises the effort involved in constructing a patio. One unique practical feature of this system is that it can be combined with various deck coverings. You simply need a load-bearing foundation, the Stone System from Eurotec, and the desired deck covering.

Presentation video and
information on use
www.e-u-r-o-tec.de

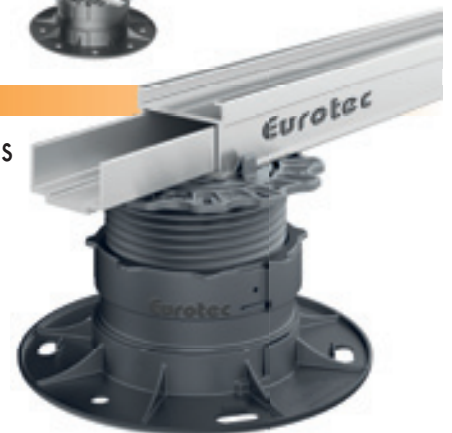


A perfectly constructed dream deck in just 8 steps

1. Prepare foundation
2. Check dimensions of stone slabs
3. Install PRO adjustable pedestals



4. Click EVO aluminium system profile onto adjustable pedestals and extend with EVO aluminium system profile connector so that the entire deck width is covered



deck coverings!



Compatible with the new
EVO Slim aluminium system profile.

Advantages:

- Exceptionally economical
- Time-saving and straightforward installation
- Stone slabs can be combined with timber or WPC boards, for example
- Precise joint pattern
- Long-lasting
- Certified, high load-bearing capacity

5. Using EVO corner connectors, attach cross braces to provide transverse stiffening in substructure



6. Click the stone edge clips (at the edges) and the stone clips (within the paving) onto the EVO aluminium system profile



7. Insert first stone slab and check spacings

8. Level out substructure – straightforwardly and accurately using variable adjustable pedestals – then insert remaining stone slabs, and that's it!

Accessories for the multifunctional Stone System

Flex-Stone-Clip

For clicking onto the EVO aluminium system profile within the paving.

NEW
to our product range



Art. no.	Joint spacer dimensions*	PU
975602	8 / 4 / 14 mm	200

* Height / width / length

Note

The flexibility of the new Flex Stone Clip allows it to compensate for manufacturing tolerances of up to 2 mm in stone slabs.

Stone-Edge-Clip

For clicking onto the EVO aluminium system profile at the edges.



Comes supplied with one screw per clip.

Art. no.	Joint spacer dimensions*	PU
975603	8 / 4 / 14 mm	50

* Height / width / length

To prevent individual stone slabs from slipping, the stone edge clips are to be screwed to the aluminium substructure in the edge area. The clips have a screw channel in the middle for this purpose.

Aluminium profile drilling screw

Art. no.	Dimensions (mm)	Drive	PU
645026	4,2 x 35	TX15 ●	100



Everything you need for a long-lasting substructure

EVO/EVO Slim aluminium system profile



EVO/EVO Slim aluminium system profile connector



EVO/EVO Slim corner connector



PRO adjustable pedestal + Click adapter 60



Flex-Stone-Clip

Stone-Edge-Clip



Nivello 2.0 for Profi-Line and Eco-Line adjustable pedestals

Nivello 2.0



- User-friendly operation
- Versatile slope adjustment
 - Minimum slope: 0.5 %
 - Maximum slope: 10%
 - Slope can be adjusted in steps of 0.5%
- Click-locking of adjustable pedestals
- Bearing surface composition protects subsurface (e.g. roofing)
- Large bearing surface



Art. no.	Slope (%)	PU
946035	0.5-10	10



Eveco aluminium system profiles + accessories

Eveco aluminium system profile

NEW
Now in 2,4 m length



Properties:

- Can be combined with ECO system clip for hidden fastening
- Universal: can also be used with many other fastening clips (screw diameter: 4.2 mm)
- Developed specially for PRO adjustable pedestals with Click adapter
- In case of low structure height, the profile can be used without pedestals
- Position retention thanks to Click system without screws
- Load-bearing, torsion-free, form-stable and straight
- Screw channel avoid's lengthy drilling times

Art. no.	Dimensions (w x h x l)	Material	Colour	PU
975632	39 x 24 x 2400 mm	Aluminium		1
975630	39 x 24 x 4000 mm	Aluminium		1
S975630	39 x 24 x 4000 mm	Aluminium	black	1

Max. support spacing L [mm] for Eveco aluminium system profile without adjustable pedestals, e.g. on concrete foundations^{a)}

Useful load [kN/m ²]	Centre distance e [mm] between profiles ^{b)}							
	300	350	400	450	500	550	600	800
2,0	800	750	750	700	700	650	650	600
4,0 ^{c)}	650	600	600	550	550	500	500	450
5,0 ^{c)}	600	550	550	500	500	500	450	450

a) Indication of the max. span at which the profile's deflection does not exceed L/300. Average board thickness of 25 mm with a specific weight of 7 kN/m³ (larch, pine, Douglas fir).

b) Example: spacing between profiles = 550 mm; loading capacity = 2.0 kN/m² → max. span of the profile = 650 mm.

c) Load capacities according to DIN 1991-1; roof terraces = 4 kN/m², decks for public use = 5 kN/m²

Max. support spacing L [mm] for Eveco aluminium system profile with adjustable pedestals^{a)}

Useful load [kN/m ²]	ECO-Line adjustable pedestals, perm. F = 2.2 kN								Profi-Line adjustable pedestals, perm. F = 8.0 kN							
	Centre distance e [mm] between profiles ^{b)}								Centre distance e [mm] between profiles ^{b)}							
	300	350	400	450	500	550	600	800	300	350	400	450	500	550	600	800
2,0	800	750	750	700	650	600	600	600	800	750	750	700	700	650	650	600
4,0 c)	650	600	600	550	550	450	400	300	650	600	600	550	550	500	500	450
5,0 c)	600	550	500	450	400	350	300	250	600	550	550	500	500	500	450	450

a) Indication of the max. span at which the profile's deflection does not exceed L/300. Average board thickness of 25 mm with a specific weight of 7 kN/m³ (larch, pine, Douglas fir).

b) Example: spacing between profiles = 550 mm; loading capacity = 2.0 kN/m² → max. span of the profile = 500 mm.

c) Load capacities according to DIN 1991-1; roof terraces = 4 kN/m², decks for public use = 5 kN/m²

ECO system connector

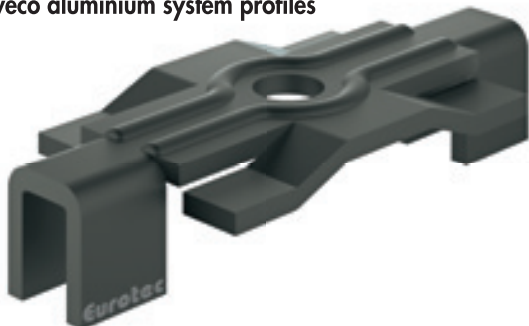


For connecting Eveco aluminium system profiles together. The advantage of the ECO system connector is that it allows the profiles to be clicked into place and therefore to be joined without the need for screws.

Art. no.	Dimensions (w x h x l)	Material	PU
975614	30 x 20 x 120 mm	Plastic, black	10

ECO system clip

for Eveco aluminium system profiles



Art. no.	Dimensions (w x h x l)	Material	PU
975600-250	16 x 7,2 x 37 mm	Stainless steel, black	250

Comes supplied with screw



Details of the groove geometry can be found in the product data sheet on our website www.e-u-r-o-tec.de or obtained on request from our technical department.



Properties

- For hidden fastening of boards with grooved sides
- Only limited suitability for selected narrow tropical timbers (always consult your local specialist timber dealer)
- Simple, time-saving assembly
- Joint spacing automatically predefined
- Individual boards can be adjusted or replaced at any time

Eveco corner connector

for Eveco aluminium system profiles



NEW
to our product range

Art. no.	Dimensions (w x h x l)	Material	PU
975631	40 x 19 x 40 mm	Aluminium	10*

* Incl. 20 screws



EVO aluminium system profile

The EVO aluminium system profile is one of the alternatives to a deck substructure made of timber.

- In contrast to timber substructures, the profile is dimensionally stable and straight. It suffers from no climate-related effects such as warping, cracks, etc. that naturally occur with timber.
- The special shape prevents the screws from shearing off.
- Allows both hidden and visible fastening.

Hidden fastening



using a deck glider on a Black Edition EVO aluminium system profile

Visible fastening



using a profile drilling screw on an EVO aluminium system profile

EVO corner connector

Art. no.	Dimensions ^{a)}	Material	PU
975612-10	40 x 25 x 40 mm	Aluminium	10*
975612-200	40 x 25 x 40 mm	Aluminium	200**

a) Width x height x length

*incl. 40 screws

**incl. 800 screws



EVO aluminium system profile connector

Art. no.	Dimensions ^{a)}	Material	PU
975611	24 x 50 x 200 mm	Aluminium	10

a) Height x width x profile length

*Incl. 4 drilling screws per connector

Note:

The profile butt joint is only to be positioned directly above a post or support.

**Suitable for
Profi-Line and Eco-Line
adjustable pedestals!**

(Example:
Adjustable pedestal PRO
with L adapter)



EVO/EVO Black Edition aluminium system profile

NEW

Now in 2,4 m length



Art. no.	Dimensions ^{a)}	Material	PU
975621	40 x 60 x 2400 mm	Aluminium	1
975610	40 x 60 x 4000 mm	Aluminium	1
S975621	40 x 60 x 2400 mm	Aluminium, black	1
S975610	40 x 60 x 4000 mm	Aluminium, black	1

a) Height x width x profile length

Cross-section values^{b)}

E-Modul in N/mm²

W_y in mm³

I_y in mm⁴

70000

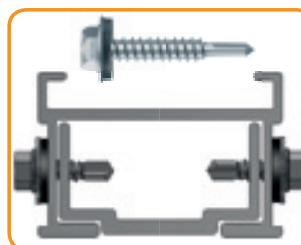
3438

70480

b) W_y = section modulus; I_y = geometrical moment of inertia



Example of fastening an EVO aluminium profile connector



Max. support spacing L [mm] for EVO aluminium system profile with adjustable pedestals^{a)}

Useful load [kN/m ²]	ECO-Line adjustable pedestals, perm. F = 2.2 kN								Profi-Line adjustable pedestals, perm. F = 8.0 kN							
	Centre distance e [mm] between the profiles ^{b)}								Centre distance e [mm] between the profiles ^{b)}							
	300	350	400	450	500	550	600	800	300	350	400	450	500	550	600	800
2,0	1000	1000	900	800	750	600	600	450	1000	1000	1000	950	900	850	850	750
4,0 ^{c)}	750	650	550	500	450	400	350	250	900	850	850	800	750	750	700	650
5,0 ^{c)}	650	550	450	400	350	350	300	–	850	800	800	750	700	700	650	600

a) Indication of max. span at which the profile's deflection does not exceed L/300. Average board thickness of 25 mm with a specific weight of 7 kN/m³ (larch, pine, Douglas fir).

b) e.g.: spacing between profiles = 550 mm; useful load = 2.0 kN/m² → max. span of the profile = 600 mm.

c) Useful loads according to DIN EN 1991-1; roof terraces = 4 kN/m², patios for public use = 5 kN/m².

EVO Slim aluminium system profile

The EVO Slim aluminium system profile is especially suited to low assembly heights. It can be combined with our ECO-Line and Profi-Line adjustable pedestals and is therefore also ideal for the multifunctional Stone System installation system.

EVO Slim aluminium system profile

Art. no.	Dimensions ^{a)}	Material	PU
975633	20 x 60 x 2400 mm	Aluminium	1
975628	20 x 60 x 4000 mm	Aluminium	1

a) Height x width x profile length

NEW
Now in 2,4 m length

**EVO Slim aluminium system profile connector**

Art. no.	Dimensions ^{a)}	Material	PU
975629	4 x 48 x 200 mm	Aluminium	10*

a) Height x width x profile length

*Incl. 4 drilling screws per connector

Note:

The profile butt joint is only to be positioned directly above a post or support.

**Max. support spacing L [mm] for EVO Slim aluminium system profile with adjustable pedestals^{a)}**

Useful load [kN/m ²]	ECO-Line adjustable pedestals, perm. F = 2.2 kN								Profi-Line adjustable pedestals, perm. F = 8.0 kN							
	Centre distance e [mm] between the profiles ^{b)}								Centre distance e [mm] between the profiles							
	250	300	350	400	450	500	550	600	250	300	350	400	450	500	550	600
2,0	650	600	600	550	550	500	500	500	650	600	600	550	550	500	500	500
4,0 ^{c)}	500	500	450	450	400	400	400	400	500	500	450	450	400	400	400	400
5,0 ^{c)}	500	450	450	400	400	400	350	350	500	450	450	400	400	400	350	350

a) Indication of max. span at which the profile's deflection does not exceed L/300. Average board thickness of 25 mm with a specific weight of 7 kN/m³ (larch, pine, Douglas fir).

b) e.g.: spacing between profiles = 550 mm; useful load = 2.0 kN/m² → max. span of the profile = 500 mm.

c) Useful loads according to DIN EN 1991-1; roof terraces = 4 kN/m², patios for public use = 5 kN/m².

Visible fastening to aluminium substructure

Profile drilling screw

Hardened stainless steel



Art. no.	Dimensions	Drive	Board thickness	PU
905559	5,5 x 46 mm	TX25 ●	21 - 25 mm	200
905562	5,5 x 51 mm	TX25 ●	26 - 30 mm	200
905560	5,5 x 61 mm	TX25 ●	36 - 40 mm	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

Profile drilling screw

A4



Art. no.	Dimensions	Drive	Board thickness	PU
905563	5,5 x 46 mm	TX25 ●	21 - 25 mm	200
905564	5,5 x 51 mm	TX25 ●	26 - 30 mm	200
905565	5,5 x 61 mm	TX25 ●	36 - 40 mm	200

- Resistant to rust, limited resistance to acid
- Suitable for woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

NB: The board should always be pilot-drilled to a diameter of 5.5 mm.

Wing-tipped profile drilling screw

Hardened stainless steel



Art. no.	Dimensions	Drive	Board thickness	PU
905568	5,0 x 55 mm	TX 20 ●	20 - 25 mm	200
905569	5,0 x 60 mm	TX 20 ●	26 - 30 mm	200
905570	5,0 x 70 mm	TX 20 ●	35 - 40 mm	200

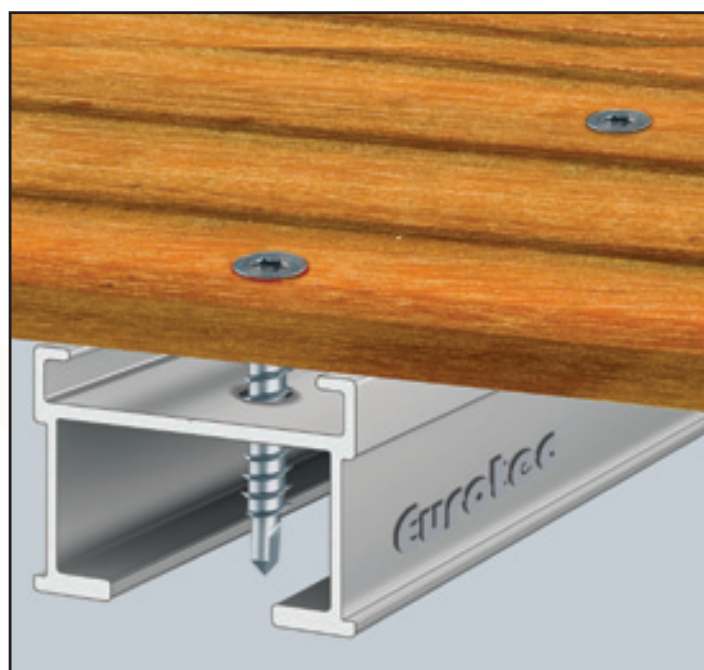
- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

Special feature

- Screws in quickly without pilot drilling

Please refer to the information we provide on "Selecting screw steels" (p. 61), as not all timber types should be installed with hardened stainless-steel screws.

The profile drilling screws/wing-tipped profile drilling screws are suitable for the visible fastening of deck boards to the following **Eurotec aluminium profiles: EVO aluminium system profile, HKP support profile, and aluminium function strip.**



Using profile drilling screws on EVO aluminium system profile

Hidden fastening to aluminium substructure

Twin system clip

NEW
to our product range

For hidden fastening of decking with grooved sides and made of dimensionally stable timber types (e.g. larch, thermally modified timber) or WPC to:

- EVO aluminium system profile
- EVO Slim aluminium system profile
- HKP deck-support system

Art. no.	Dimensions (w x h x l)	Material	PU
945959	15,0 x 26,0 x 55,0 mm	Plastic, black	200
	20.5 x 2.0 x 30.0 mm clamping plate	A2 stainless steel, black	

Comes supplied with screw



Product description:

The Twin aluminium system clip is inserted between two wooden boards before being secured within the board groove using a stainless steel clamping plate.

The clamping plate is attached to the aluminium substructure using a drilling screw between the joints.

The spacer domes ensure uniform joint spacing from board to board.

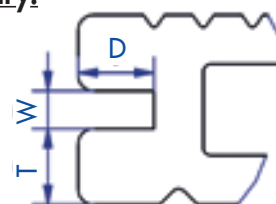
Advantages:

- Indirect/hidden fastening solution
- Individual boards can be adjusted and replaced at any time
- Compatible with Eurotec's EVO/EVO Slim aluminium system profiles and the HKP deck-support system
- Uniform board spacing of approx. 6 mm
- Supports constructive timber protection
- Weather-resistant

The Twin system bracket is suitable for boards with the following groove geometry:

- Groove depth, D: $\geq 7,5$ mm
- Groove width, W: $\geq 2,0$ mm
- Groove wall thickness, T: $\geq 2,0 - 12,5$ mm

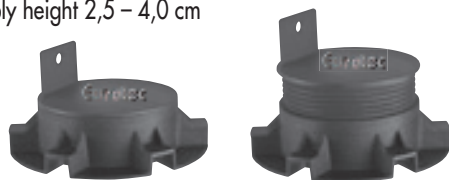
Where applicable, the manufacturer/timber supplier must establish whether the timber type is suitable.



ECO-Line adjustable pedestals

ECO S

Assembly height 2,5 – 4,0 cm



Art. no.	Name	Assembly height	Load bearing capacity*	PU**
945591	ECO S	2,5 - 4,0 cm	2,2 kN	50

ECO S base

To increase the supporting area of the ECO S, the adjustable pedestal can be combined with a matching base.

This is done by simply clicking the ECO S onto the base. This increases the assembly height by 2 mm.



Art. no.	Name	PU**
945448	Bottom part ECO S	50



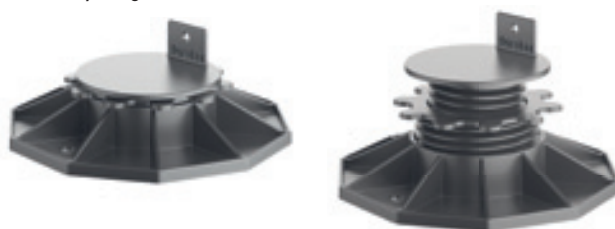
Balancing out for a perfect inclination



Unscrew for the exact height

ECO M

Assembly height 3,5 – 6,5 cm



Art. no.	Name	Assembly height	Load bearing capacity*	PU**
946020	ECO M	3,5 - 6,5 cm	2,2 kN	20

ECO L

Assembly height 6,5 - 13,0 cm



Art. no.	Name	Assembly height	Load bearing capacity*	PU**
946024	ECO L	6,5 - 13,0 cm	2,2 kN	20

ECO XL

Assembly height 13,0 - 19,8 cm



Art. no.	Name	Assembly height	Load bearing capacity*	PU**
946025	ECO XL	13,0 - 19,8 cm	2,2 kN	15

* The quoted load-bearing capacities represent recommended values. With these loads, the adjustable pedestals only deform by approx. 2 mm. The load-bearing capacity before actual fracture is multiple times higher.

** Supplied without screw. Position retention can be achieved with 4.8 x L drilling screw.

Slab supports and adjustable pedestals for slabs

Further solutions for quick and secure installation of large-format floor slabs

Also ideal for your roof terrace

Thanks to modern slab supports and special adjustable pedestals for slabs, it is now possible to lay floor slabs easily and without mortar. The different support heights of the slab supports and adjustable pedestals allow you to easily correct height differences in the subfloor and to cover up unsightly outflows and drains. You can therefore achieve an even surface with little effort. Any surface water that arises can run off quickly and easily through the seams.



It is this easy! Example: Quattro-Lager support



In order to achieve an even surface with the stone slabs, the height can be adjusted down to the last millimetre using gearwheels in the Quattro-Lager.

Aids for installing stone slabs

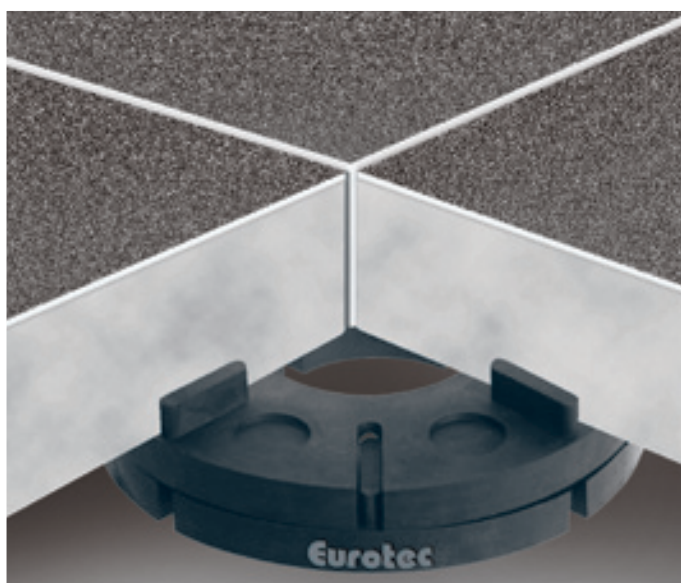
Slab supports



- Support height: 10 mm
- Joint spacer: 4 mm
- Up to three units can be stacked on top of one another
- Dampens footfall noise

Art. no.	Dimensions ^{a)}	Material	PU
945432	Ø 120 x 18/10 mm	EPDM, black	45

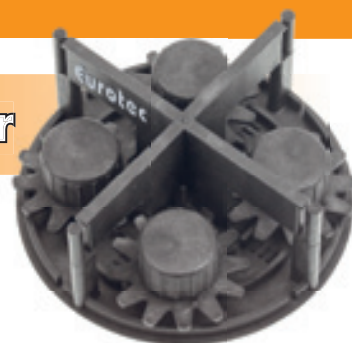
a) Outside diameter x total height/Support height of a plate bearing



* The quoted load-bearing capacities represent recommended values.
With these loads, the adjustable pedestals only deform by approx. 2 mm.
The load-bearing capacity before actual fracture is multiple times higher.

Quattro Lager

with slab spacer



- Four different support heights are possible thanks to individually adjustable gearwheels
- Support height: 3,5 - 5,5 cm
- Joint spacer: 6 mm
- The height can be extended by placing the Quattro-Lager adapter underneath
- Can be split

Art. no.	Dimension	Load-bearing capacity per corner*	Total load-bearing capacity*	PU
945340	3,5 - 5,0 cm	5 kN	20 kN	15

Adapter

for Quattro Lager

- Support height: 20 mm
- Can be split
- Stackable



Art. no.	Dimension	Total load-bearing capacity*	PU
945342	Ø 150 x 20 mm	8,0 kN	20



The alternative for laying stone slabs:

PRO adjustable pedestals with stone adapter and Stone-System

Stone slab spacers

The simple aids for installing stone slabs

Stone slab spacer



Art. no.	Dimensions ^{a)}	Material	PU
945336	15 x 53 x 3 mm	PP	100
945338	30 x 53 x 3 mm	PP	100
945337	30 x 53 x 5 mm	PP	100

a) Bridge height x length x joint dimension

Advantages of stone slab spacers

- Uniform joint pattern
- Optimum drainage
- They prevent the floor slabs from rubbing against one another and therefore prevent damage to the slab edges.
- They have predetermined breaking points and are therefore suitable for T-joints and cross joints.
- Durable
- Resistant to temperature and weathering
- Resistant to acids, alkalis and other chemicals

Stone slab spacer

with baseplate



Large baseplate prevents slab spacers from being pressed into gravel bed

Art. no.	Dimensions ^{a)}	Material	PU
945339	15 x 53 x 3 mm	PP	100

a) Bridge height x length x joint dimension

Quantity calculation for laying floor slabs

Floor slab	Pieces/m ²
40 x 40 cm	ca. 7,8
50 x 50 cm	ca. 4,8
40 x 60 cm	ca. 5,6
60 x 60 cm	ca. 4,0

There are approximate figures based on an area of 25m² (5 x 5 m).

Accessories

Compensation disk



- For balancing out unevenness in the slabs
- Can simply be laid onto PRO adjustable pedestals with stone adapter
- Can be split into up to four parts

Art. no.	Dimensions	PU
954064	Ø 150; h 2,5 mm	10

Stone-slab lifter



- Simplifies and speeds up the lifting and laying of floor slabs
- Also suitable for subsequent lifting of already laid slabs

Art. no.	Span width	Nominal Load	PU
954045	30,0 – 50,0 cm	25 kg	

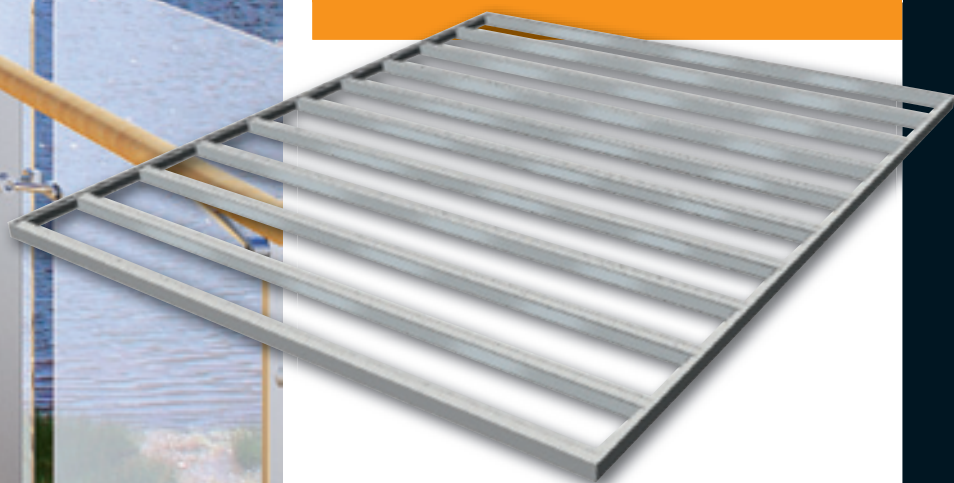


Aluminium Deck Support System HKP

For bridging wider spans

One system, many advantages:

- High load bearing capability
- Large support widths
- High dimensional stability and evenness
- Low dead load
- High flexibility
- High durability
- Attractive, clean enclosed frame
- Material savings



The new deck support system comprises an aluminium substructure that allows spans of up to 3 m, depending on the desired loading capacity.

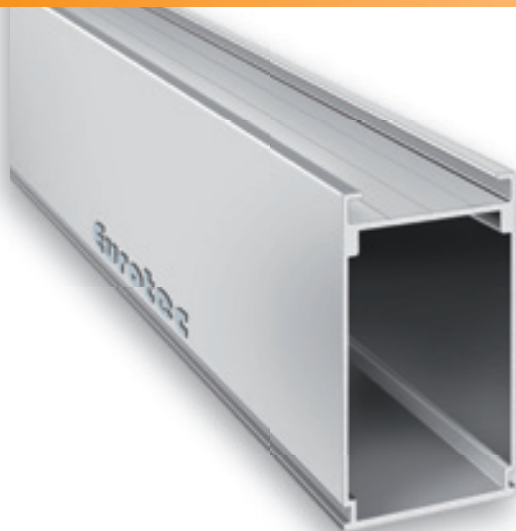
The support system can therefore be tailored flexibly to meet a wide range of requirements. It is used especially on decks installed near to the ground in which only a few auxiliary supports are laid. Its versatile range of applications also includes elevated decks, load-bearing balconies and overhanging decks near to the ground.

The deck support system consists of two components that are joined together to form a closed, load-bearing system.

Aluminium deck support system HKP **Suitable for Profi-Line and Eco-Line adjustable pedestals!**

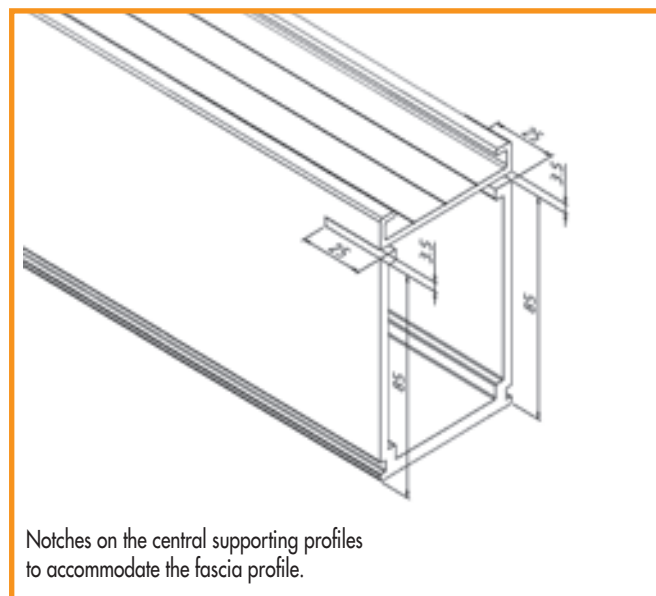
The two parts of the system form a complete deck substructure:

Support profile HKP



Art. no.	Dimensions ^{a)}	Material	PU
954669	100x60x4000 mm	Aluminium	1

a) Height x width x length

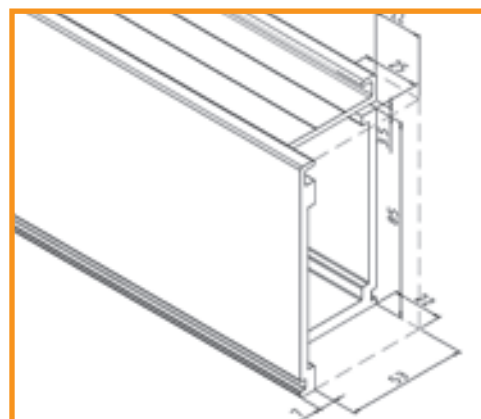
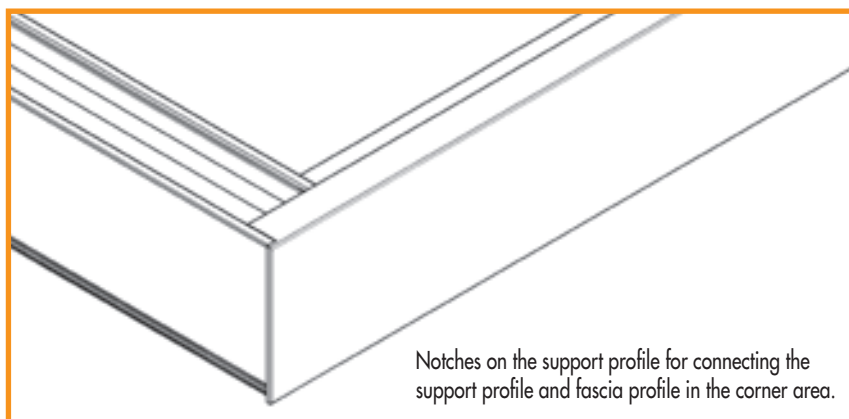
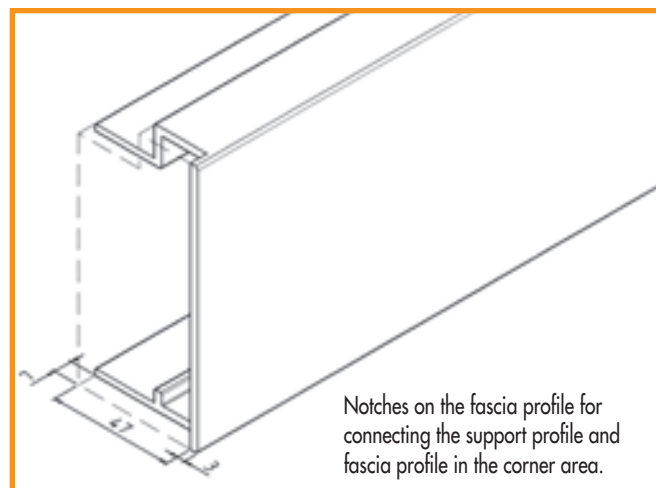


Fascia profile HKP



Art. no.	Dimensions ^{a)}	Material	PU
954668	104x50x4000 mm	Aluminium	1

a) Height x width x length



Aluminium support-profile connector* for support-profile HKP



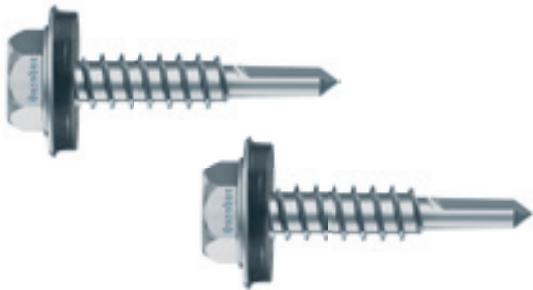
Art. no.	Dimensions ^{a)}	Material	PU
954670	74 x 50 x 250 mm	Aluminium	1

a) Height x width x length

*Incl. 8 drilling screw per connector

Note

The profile butt joint is only to be positioned directly above a post or support.

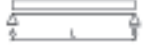




BiGHTY drilling screw Stainless steel, hardened

For fastening wood to steel or steel to steel
Special coating, stainless steel in accordance with DIN 10088
Washer A2 and EPDM
Drilling capacity 5 mm

Art. no.	Dimensions	Spanner gap	Washer Ø	PU
945666	5,5 x 25 mm	SW 8	Ø 16 mm	500

Max. support spacing L (mm)^{a)}

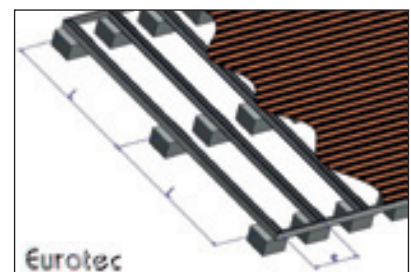
Bearing type	Useful load kN/m ²	Axis clearance e [mm] of support profile HKP to one another ^{b)}						
		300	350	400	450	500	550	600
Single-span beam L 	2,0	3000	2750	2750	2500	2500	2500	2250
	4,0c)	2500	2250	2250	2000	2000	2000	2000
	5,0c)	2250	2000	2000	2000	1750	1750	1750
Twin-span beam L[mm] 	2,0	3000	3000	3000	3000	3000	2750	2750
	4,0c)	2750	2500	2500	2500	2250	2250	2250
	5,0c)	2500	2500	2250	2250	2000	2000	2000
Single-span cantilever beam L[mm]/Lk[mm] 	2,0	3000/1000	2750/1000	2750/1000	2500/1000	2500/1000	2000/1000	1750/1000
	4,0c)	1750/1000	1500/ 750	1500/ 750	1500/ 750	1500/ 750	1500/ 750	1500/ 750
	5,0c)	1500/ 750	1500/ 750	1500/ 750	1500/ 750	1500/ 750	1250/ 750	1250/ 750

a) Max. bearing clearances (L) for bearings with „direct support“ with useful loads of 2, 4 and 5 kN/m², with a mean board thickness of 25 mm and a board weight of 7 kN/m²

b) If WPC boards are used, the axis clearance e between the profiles must not exceed 400 mm!

c) Useful loads in accordance with DIN 1055-3:2006, roof terraces = 4 kN/m², terraces in public = 5 kN/m²

**Note: this table provides an overview only of the load bearing capability.
The information on load bearing capability in the technical information must be noted!**

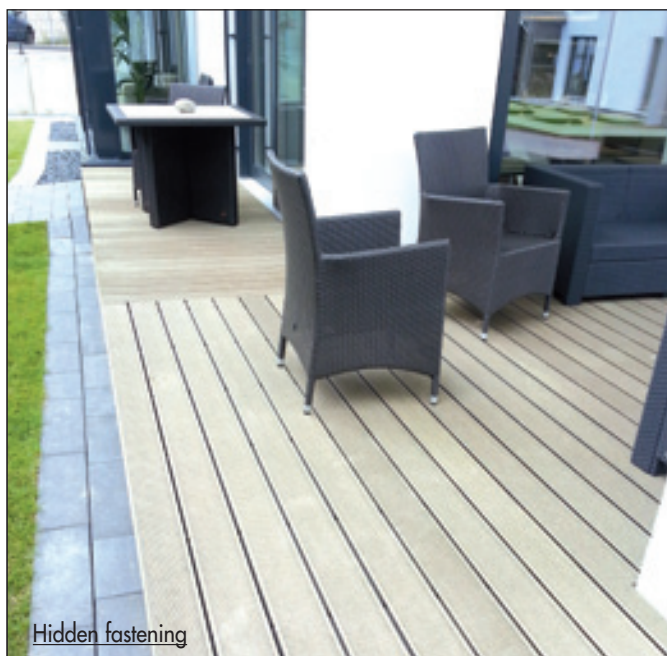


Aluminium function strips/Aluminium function strips DiLo

The **aluminium function strips** from Eurotec offer special solutions for substructures of timber decks with a low assembly height.

Properties

- The profile impresses with its low assembly height; for example: profile height 29 mm + board 24 mm = 53 mm.
- This low height means the profile is excellently suited to the construction of timber decks that are to be built on existing stone patios, balconies or roof terraces.
- The aluminium is dimensionally stable, does not rust and is extremely weather-resistant. These are key advantages over timber substructures.
- The small supporting surface is ideal for allowing water to run off and prevents the screw from shearing off.
- The self-adhesive cork insert is free of PAHs and ensures good footfall sound damping on the underside of the profile.
- The aluminium function strip is available in two versions so that – here, too – one can choose between visible and hidden screw connections on a case-by-case basis.



Hidden fastening

Aluminium Function strip with glued-in cork insert, free of PAHs

»Free of PAHs«
(hazardous plasticisers in rubber).



Art. no.	Dimensions ^{a)}	Material	PU
945510	34 x 29 x 1750 mm	Aluminium	10

a) Width x height x profile length

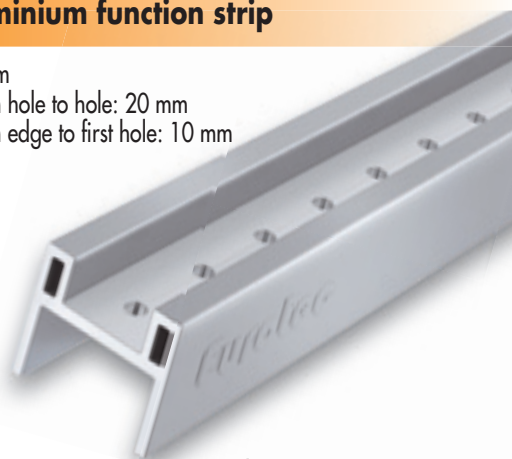
See profile drilling screws (p. 58) for visible fastening of deck boards with a thickness of 21–25 mm.



Visible fastening

DiLo aluminium function strip

Holes: 5.1 mm
Distance from hole to hole: 20 mm
Distance from edge to first hole: 10 mm



Art. no.	Dimensions ^{a)}	Material	PU*
945535	34 x 29 x 2240 mm	Aluminium	10

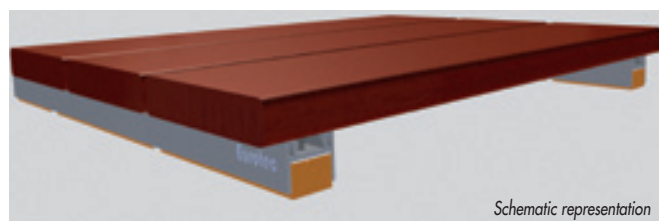
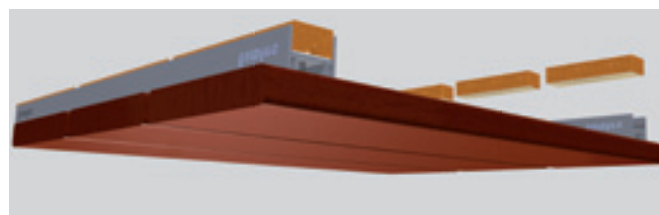
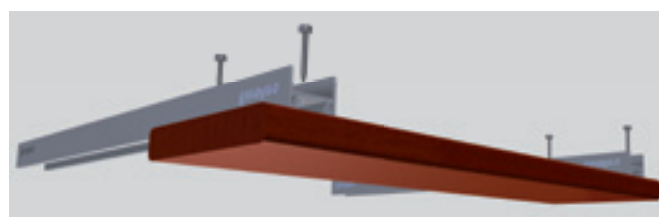
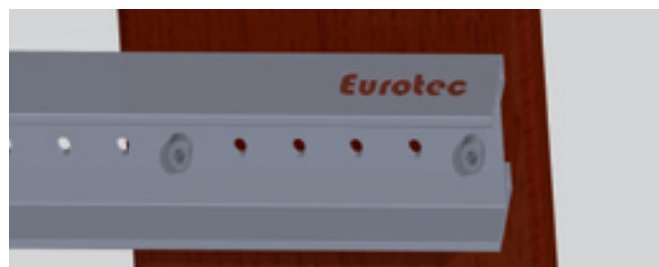
a) Width x height x profile length

* Cork pads are not included with this product.

See DiLo drilling screws (p. 69) for hidden fastening of deck boards with a thickness of 20–30 mm.

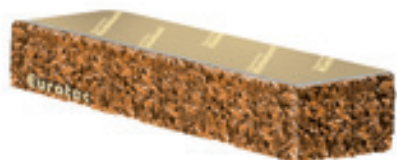
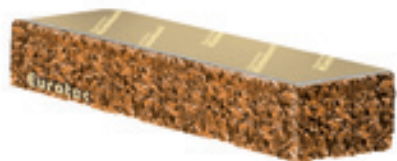
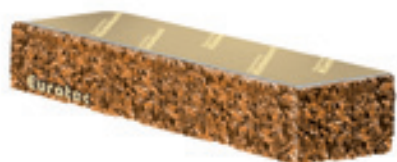
Procedure for hidden fastening of deck boards to DiLo aluminium function strips.

1. Cut the DiLo aluminium function strips and deck boards to the lengths you require.
2. Lay the cut boards down so that the underside is facing upwards.
3. Align the boards with a uniform joint spacing on a level subsurface. Use the Eurotec spacer for this.
4. Lay the DiLo aluminium function strips backwards onto the boards (at least two DiLo aluminium function strips per element).
5. Fasten each strip in place by screwing two DiLo drilling screws (Ø5x28.5; Ø5x33.5 or Ø5x38.5 mm) into the board for each intersection point (of board and substructure) through the prepared drill holes in the strip.
6. Stick the cork pads into the DiLo aluminium function strip so that almost the entire surface is used for support.
7. Finally, just turn the finished element over and position it. Done.

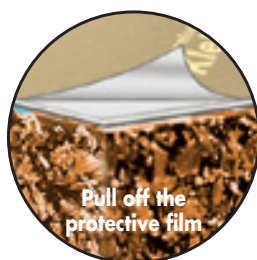


Schematic representation

Cork pad with adhesive tape, for DiLo aluminium function strip



»Free of PAHs«
(hazardous plasticisers in rubber).



Pull off the protective film

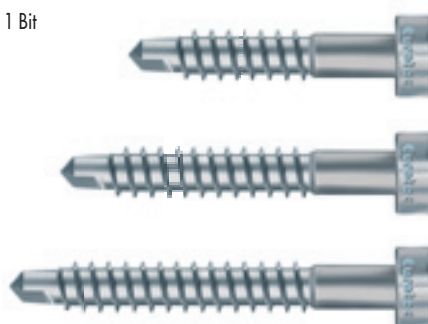
Art. no.	Dimensions	PU
945331	90 x 28 x 17 mm	100

DiLo drilling screw, hardened stainless steel

Art. no.	Dimensions	Drive	Board thickness	PU*
111860	5,0 x 28,5 mm	TX25	min. 20 mm	200
111861	5,0 x 33,5 mm	TX25	min. 25 mm	200
111862	5,0 x 38,5 mm	TX25	min. 30 mm	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

* Incl. 1 Bit



DrainTec – drainage grate

As part of the constant further development of our product portfolio, with steady growth in the deck construction sector, we are delighted to present our new system component:

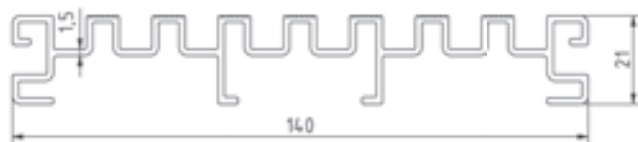
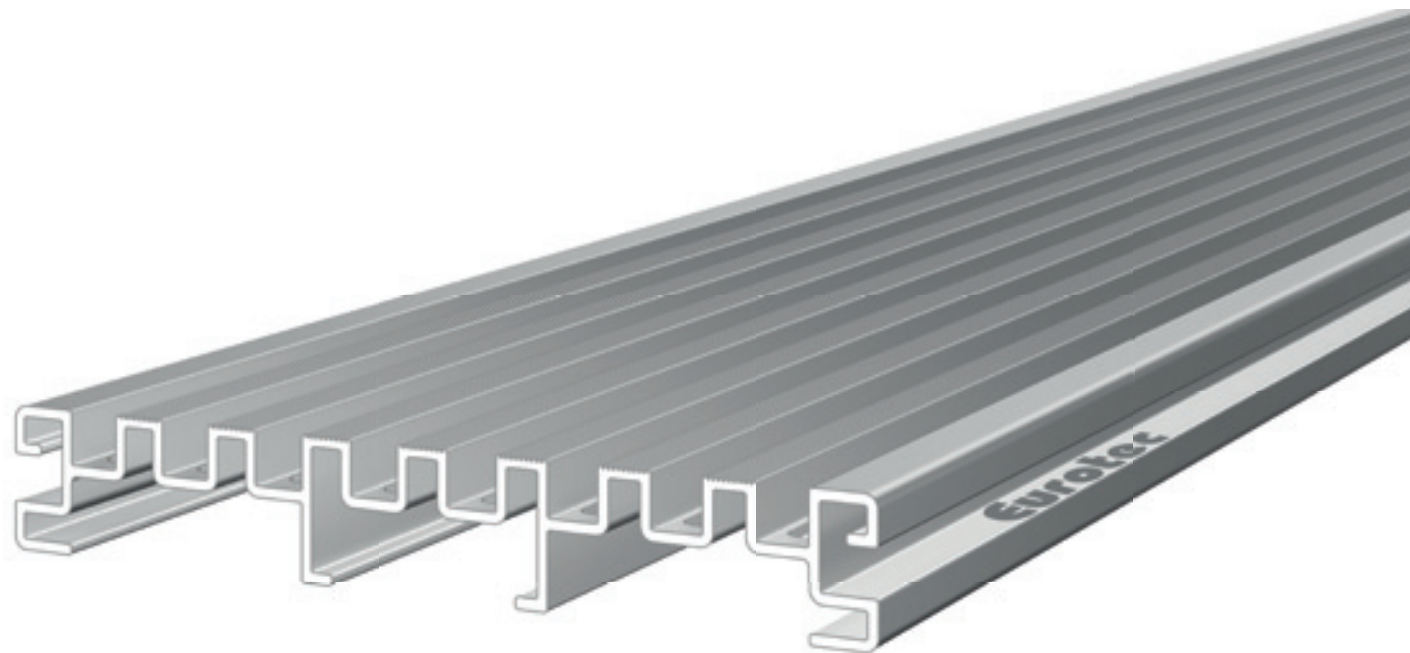
DrainTec – aluminium drainage grate

NEW
to our product range

The construction of an open-air space is accompanied by an extensive set of requirements.

In developing the DrainTec drainage grate, we turned our attention to the topic of:

drainage for façade and deck surfaces. The DrainTec drainage grate focuses on the detailed aspects of how these surfaces connect to building openings, e.g. areas that connect to doors, or transitions from vertical façade surfaces to horizontal deck surfaces. Its special geometry allows it to “trap” the rain so that the water falls directly onto the weatherproof layer, or into the gutter, without covering the door element or the façade cladding with reflected water (backsplash). Heavy rain is drained off in a controlled manner. The flat geometry (21 x 140 mm) allows the grate to be combined with standard deck boards or fine stoneware slabs.



Art. no.	Name	Dimensions	PU
975634	DrainTec aluminium drainage grate	21 x 140 x 4000 mm	1

The aim is to ensure permanent drainage without dammed-up water.

- Can be combined with the Eurotec product range to create elevated deck areas
- As an inspection and cleaning fitting
- Even for low door-joint heights
- For creating barrier-free, wheelchair-friendly transitions
- Also suitable for direct mounting on load-bearing foundations

Without DrainTec



Without **DrainTec**, the reflected rainwater splashes onto the door element or façade cladding

With DrainTec



With **DrainTec**, the rain is drained off in a controlled manner and the rainwater flows directly into the foundation

Overview of Eurotec adjustable pedestals

Properties/advantages:

- High load-bearing capacity of up to 8 kN/pedestal
- Quick and easy assembly
- Stepless height adjustment
- Resistant to weather, UV exposure, insects and rot

1

Profi-Line adjustable pedestals



- Versatile applications thanks to a modular system comprising four base pedestals of different heights, two rings for increasing the height, and four adapters:
 - **L adapter** for substructures made of aluminium and timber
 - **Click adapter 40** for Evenco aluminium system profile
 - **Click adapter 60** for EVO/EVO Slim aluminium system profile and HKP deck-support profile
 - **Stone adapter** for laying floor slabs
- Basic assembly heights of 3.0 – 16.8 cm
- Height can be increased with extension rings
- High load-bearing capacity of up to 8.0 kN/pedestal

2

Eco-Line adjustable pedestals



- Suitable for substructures made of aluminium and timber
- Four different sizes available
- Assembly heights of 2.5 - 19.8 cm
- Load-bearing capacity of 2.2 kN/pedestal

Overview of Eurotec aluminium profiles

Properties/advantages:

- Form-stable, always straight, load-bearing, torsion-free
- Resistant to weather, UV exposure, insects and rot
- The special shape of the profiles reduces the risk of fastening screws shearing off as a result of swelling and shrinking movements of the deck boards
- Support constructive timber protection

NEW
to our product range

1

EVO/EVO Slim aluminium system profile



- Suitable for Profi-Line and Eco-Line adjustable pedestals
- For visible and hidden fastening of deck boards, e.g. Twin System Clip
- Can be extended using EVO/EVO Slim aluminium system-profile connectors

NEW
to our product range

2

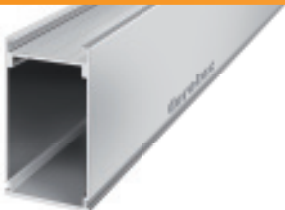
Evenco aluminium system profile



- Developed specially for PRO adjustable pedestals with Click adapter
- Can also be used without adjustable pedestal for low assembly heights
- The aluminium profiles are simply clicked into place – with no need for screwing
- Hidden fastening of deck boards with ECO system clip
- Can be extended using ECO system connector

3

HKP deck support system



- Suitable for Profi-Line and Eco-Line adjustable pedestals
- For bridging large spans
- Consists of two system parts
- For visible and hidden fastening of deck boards

4

Aluminium function strips



- Used without adjustable pedestals
- For low assembly heights
- With footfall sound insulation thanks to glued-in cork insert
- **Two models available:**
for visible and hidden fastening of deck boards

Wood decks





We have the accessories that you need!

DECK BOARDS: VISIBLE AND HIDDEN FASTENING



Innovative solutions for all types of substructures and deck boards

Deck boards can be fastened in different ways, depending on the type of wood. We provide innovative solutions that enable your individual requirements and wishes for fastening your deck boards.

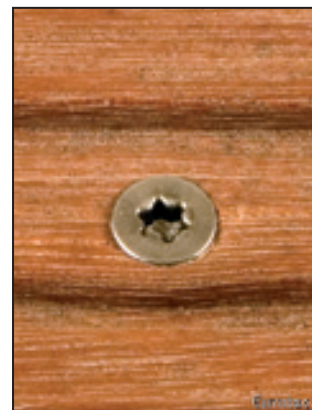
Distance strip

Distance strip – visible fastening of deck boards

Substructure: Timber

This deck substructure made of timber is suitable for both visible and hidden deck-board fastening. The deck boards can be fastened visibly using the distance strip, which acts as a spacer and allows freedom of movement between the board and the substructure. At the same time, it encourages air circulation beneath the deck, inhibiting the formation of rot. Normal wood screws, e.g. Terrassotec screws, are used to screw the strip onto the timber substructure.

Important: Hardwoods/tropical woods should always be pilot-drilled!



The distance strip and the deck gliders make a clearance between the deck board and the substructure. This is of great importance in particular when using tropical woods/hardwoods.

Differences between the uses of the two systems:

- **Distance strip:** Visible fastening of the deck boards.
The distance strip is screwed onto the timber substructure and therefore acts as a spacer between the deck board and the timber substructure. The deck boards are then fixed in place with screws inserted directly from the top side of the boards. The screw heads are therefore visible.
- **Deck gliders:** Hidden fastening of the deck boards.
The deck gliders are fastened first of all to the underside of the boards and then to the substructure. The boards are fastened hidden. The fasteners cannot be seen on the surface of the deck. The deck glider functions as a means of joining and as a spacer.

Distance strip,

Distance strip for visible fastening of deck boards

Art. no.	Dimensions WxHxL	Quantity* Piece/10m ²	Material	PU
944801	16 x 13 x 730 mm	23	Hard plastic	50

* Bearing beam clearance = 600 mm.
Additional distance strips are to be added for the first and last bearing beams and for board joints.

Screws are **not** included.
Fastening with Terrassotec screws
Ø 4 mm.

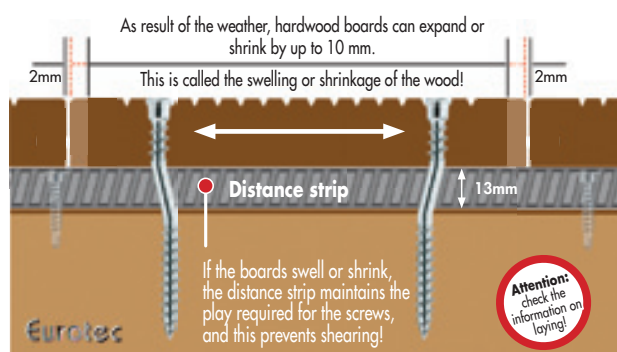
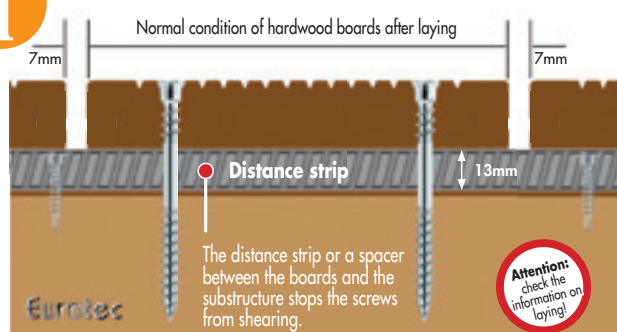


The distance strip reduces the risk of screws shearing off

The distance strip is made of hard plastic and is intended to prevent the stainless-steel screws from shearing off. Shearing is caused by swelling and shrinkage of the timber, or so-called warping. This warping is particularly pronounced in the boards' transverse direction. The timber "wants" to take the screw with it, while the lower part of the screw remains securely fixed in the substructure. Since the density of hardwood and tropical wood means the timber is very hard, the screw has no chance of pressing itself into the timber during warping. When the screw breaks off under this strain, this is known as shearing. The distance strip was developed to prevent stainless-steel screws from shearing off. It provides a leeway of 13 mm between the substructure and the deck board, allowing the stainless-steel screws to move with the wood.



The distance strips are fastened to the provided drill holes with Ø 4 mm Terrassotec screws and fixed in place (3 Terrassotec screws are required for each distance strip). The distance strip is 73.5 cm long and can easily be extended thanks to a plug-in system.



What does 'shearing' mean?

Without a distance strip, the screw does not have any play (Fig. 1), it can break off. This is known as 'shearing'. With a distance strip the screw has a play of 13 mm (Fig. 2). The screws can adjust to the movement of the wood. Shearing is prevented in this way.



The distance strip is screwed along half a side onto the substructure beams. This avoids having to drill through the strip again when laying the deck boards. With wider bearer beams it may be better to fasten the distance strip alternately left and right along half a side so that the deck screw does not pull the bearer beam on one side in the direction of the board when the boards are fastened, and then tilts.

Deck glider, decking multi angles and StarterClip

Deck gliders - hidden fastening of deck boards

The deck glider also creates a 10 mm gap between the substructure and the deck boards to prevent shearing of the stainless steel screws, for use with low-swelling and low-shrinkage timbers (see p. 77). However, in contrast to distance strips, the boards are fastened indirectly, i.e. screw heads cannot be seen on the surface of the deck.

The gliders fulfill all criteria for fastening both wood and composite boards.

The deck glider comes supplied with Thermofix screws made of hardened stainless steel. If required, you can additionally buy the glider screws in A2 or A4 stainless steel.



Hidden screwing of start/end deck boards

If you want to fasten start/end deck boards without the screws showing, use **decking multi angles** or the **StarterClip**.



Decking multi angles

for hidden fastening of deck boards

Decking multi angles enable a clean and hidden conclusion when deck boards are laid.

StarterClip

If decking multi angles cannot be used, eg because they cannot be screwed in from one side (house wall or brickwork), EuroTec has developed the StarterClip, which is the ideal solution in situations like this.



Presentation video and information on use





Deck gliders

for hidden fastening of deck boards



Art. no.	Dimensions W x H x L	Quantity* Piece/10 m ²	Material	PU
944830	19 x 10 x 190 mm	123	Hard plastic	200

* Clearance of bearing beams = 600 mm, board width = 145 mm, Joint dimension = 5 mm (depending on type of timber). Please use decking multi angles or the starter clip for the first and last bearing beams, and for the board butts.

Each deck glider includes 4 Thermofix screws made of hardened stainless steel. If required, you can additionally buy the glider screws in A2 or A4 stainless steel.

Mini deck glider

for hidden fastening of deck boards.

The Mini deck glider is used for narrow deck boards with a width of 90 to 100 mm.



Art. no.	Dimensions W x H x L	Quantity* Piece/10 m ²	Material	PU
944767	14 x 10 x 140 mm	200	Hard plastic	200

* Clearance of bearing beams = 500 mm, board width = 90-100 mm, Joint dimension = 5 mm (depending on type of timber). Please use decking multi angles or the StarterClip for the first and last bearing beams, and for the board butts. Each deck glider includes 4 Thermofix screws made of hardened stainless steel. If required, you can additionally buy the glider screws in A2 or A4 stainless steel.

Decking multi angle*

for hidden fastening of start/end deck boards

Art. no.	Material	PU
975584	Hard plastic	10



* 40 system screws are included in the scope of delivery

StarterClip

for hidden fastening of start/end deck boards



Art. no.	Material	PU
975591	Hard plastic	10

* 40 system screws are included in the scope of delivery

Installation instructions for the deck glider

To fasten the boards in place, the gliders are first screwed onto the underside of the boards and then screwed onto the substructure from above. This fastening type avoids direct connections to the substructure. The deck boards therefore have greater freedom of movement (via the deck glider).

Per glider, we recommend using two screws for fastening the glider onto the board and two screws for fastening the glider onto the substructure. For the Mini deck glider, you should use two screws for fastening the Mini deck glider onto the board and one screw for fastening it to the substructure. The deck gliders are suitable for boards with a width of 80 to 155 mm and a thickness of 20 to 30 mm. The Mini deck gliders are suitable for boards with a width of 90 mm to 100 mm and a minimum board thickness of 20* mm.

* If the 4.2 x 22 mm Thermofix screw is used

Glider screw, A2

Art. no.	Dimensions	Drive	PU
944926	4,2 x 24 mm	TX20 ●	100



Glider screw, A4

Art. no.	Dimensions	Drive	PU
944927	4,2 x 24 mm	TX20 ●	100



- Resistant to rust, limited resistance to acid
- Suitable for woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

Thermofix screw

with drill point, stainless steel, hardened

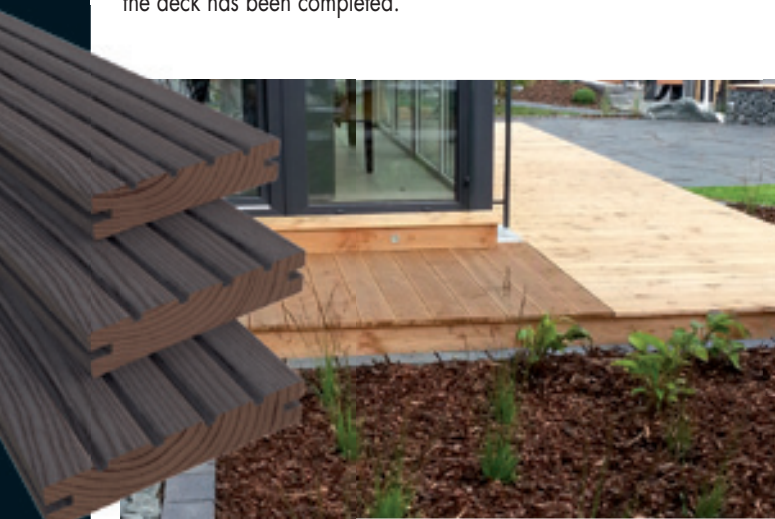
Art. no.	Dimensions	Drive	PU
945969	4,2 x 22 mm	TX20 ●	100



T-Stick

T-Stick – hidden fastening of deck boards

The T-Stick is inserted between two wood boards and fastened in the board groove with a steel plate. The result is an attractive wood surface without visible screw heads. The board clearance is maintained automatically by the T-Stick. The clearance of 9 mm to the substructure enables good ventilation, and this prevents waterlogging. The service life is therefore affected positively. If Eurotec's laying specifications are complied with, the T-Stick enables the boards to be adjusted easily before they are screwed down firmly. After screwing, the boards are absolutely firm. If a board has to be replaced, the system makes this possible even after the deck has been completed.



Note: "Only suitable for dimensionally stable timbers and WPC."

Art. no.	Stainless steel plate	Material	PU
111853	A2	Plastic, black	125
111855	A4	Plastic, black	125

Details of the groove geometry can be found in the product data sheet on our website www.e-u-r-o-tec.de or obtained on request from our technical department.

Using the T-Stick



Aligning and fixing the boards



Excellent substructure ventilation

Advantages:

Screwed boards can be replaced easily even after the deck has been completed!

Realigning is possible at any time, as well as replacing individual boards. When they are screwed tight, the boards have a safe and firm seat.

Material description: the T-Stick comprises a glass fibre reinforced, weather-resistant plastic cross with a stainless steel plate and a stainless steel screw.

There are two design variants:

- 1) Stainless steel A2 plate for normal external use
- 2) Stainless steel plate A4 for chlorous and saline atmospheres (e.g. seawater) and in woods with increased tanning acid content (e.g. Robinia, oak)

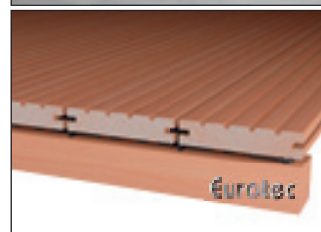
Fast laying

The T-Stick fastening system can be used immediately. Using the StarterClip allows hidden screw connections even for the start and end boards. No pilot drilling is needed. Once the start board has been laid, the next board is put into position, aligned and fixed. Insert the T-Stick with the plate into the wood board groove, screw the screw in slightly to fix. After fixing the board, you can screw it in place.

Make sure that your cordless screwdriver's torque is set correctly so that you never over-tighten the screws.



Align and fix the next board, screw down with the **T-Stick** until all boards are fastened.



The last board can then be fastened with the **StarterClip**.

A wood deck without visible screw heads.

This fastening system is suitable exclusively for deck boards with a side groove.



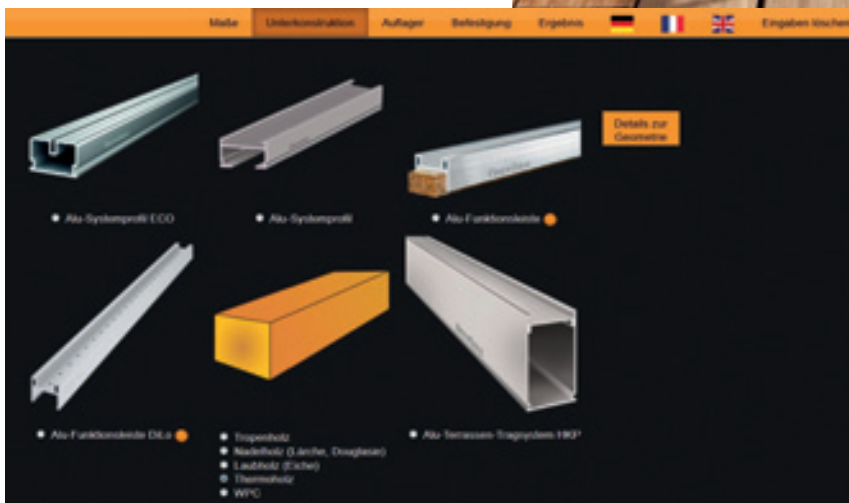
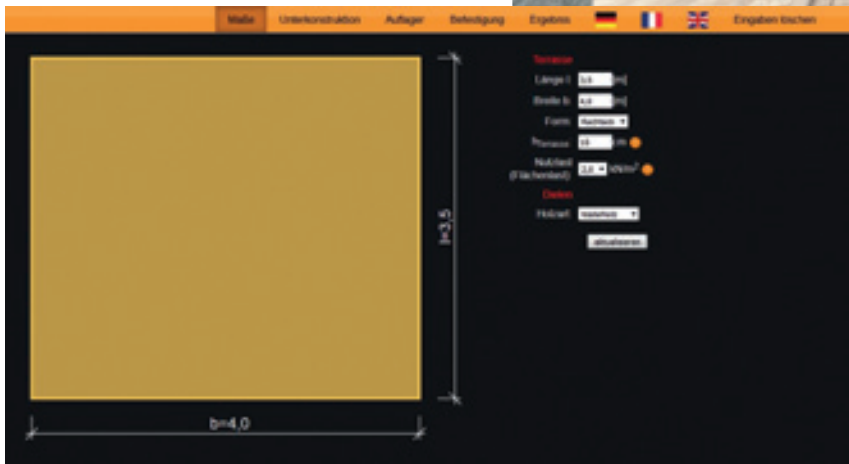
Free assessment of required materials

Deck software for planning required materials

This innovative software was developed to make it easier to plan the materials you need for deck construction. Once a few key parameters are entered, the application offers you a choice of suitable products for the substructure, the substructure support, and the materials for fastening the deck boards in place.

- User-friendly
- Visualisation of substructure configuration
- Planning reliability

You can use the free software on our website:
www.e-u-r-o-tec.de/Service



Aids for laying deck boards

TX-Bit 1/4" x 25 mm

Art. no.	Size	PU
945851	TX 10	10
945852	TX 15	10
945853	TX 20	10
945854	TX 25	10
945855	TX 30	10
945856	TX 40	10



TX-Bit 1/4" x 50 mm

Art. no.	Size	PU
954666	TX 10	20
945975	TX 15	20
945976	TX 20	20
945977	TX 25	20
945978	TX 30	20
945979	TX 40	20



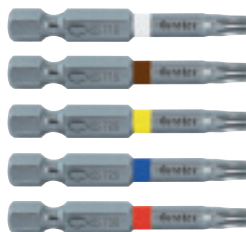
TX-Bit 1/4" x 50 mm in stainless steel

Eurotec's stainless-steel long bits prevent the abrasion of other steels as stainless-steel screws are screwed in. This provides effective protection against the risk of flash rust.

Advantages:

- Protection against the risk of flash rust
- Avoidance of follow-up costs due to flash rust

Art. no.	Size	PU
500055	TX 10	20
500056	TX 15	20
500057	TX 20	20
500058	TX 25	20
500059	TX 30	20



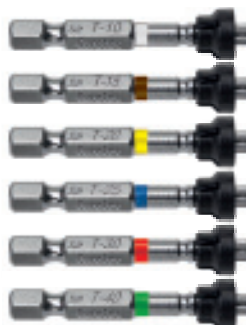
Magnet TX Long Bit 1/4" x 50 mm

The innovative new magnet bits from Eurotec provide an extremely strong hold and therefore prevent screws from falling. Even long screws remain securely in place, and even in a horizontal position.

Advantages:

- Extremely strong hold in every position
- No falling screws

Art. no.	Size	PU
499993	TX10	5
499994	TX15	5
499995	TX20	5
499996	TX25	5
499997	TX30	5
499998	TX40	5
499992	6-pc. bit set, TX10 / TX15 / TX20 / TX25 / TX30 / TX40	6



Bit box, specially made for wood construction

31 TX bits and 1 quick-change bit holder in a practical box with a belt clip.

32-piece

- 5 x TX10 white
- 5 x TX15 brown
- 5 x TX20 yellow
- 5 x TX25 blue
- 5 x TX30 red
- 6 x TX40 green
- 1 x quick-change bit holder



Art. no.	PU
945857	1

Universal bit box, for universal applications

48 bits and 1 quick-change bit holder in a practical box.



49-piece

- PH 1-1-2-2-3-3
- PZ 1-1-2-2-3-3
- Hex 4-4-5-5-6-6
- Square 1-1-2-2-3-3
- TX 10-10-15-15-20-20-25-25-27-27-30-30
- SI-TX 10-10-15-15-20-20-25-25-27-27-30-30
- 1x quick-change bit holder

Art. no.	PU
945858	1

Quick-change bit holder

The bit holder from Eurotec is an ideal aid for all craftsmen. Once the bit is inserted into the bit holder, it can no longer fall out of its own accord.

Can be used with all 1/4" x 25 mm bits.



Advantage: No more constant screwing and unscrewing of the chuck! The bit is changed in no time!

Art. no.	PU*
945850	1

* Bit supplied separately

Angled screwing attachment

The Eurotec angled screwing attachment is the ideal solution for installing screws even in hard-to-reach locations.

- Head angled at 90°
- Compatible with all standard bits and machines
 - Magnetic 1/4" hexagonal bit holder
 - 1/4" hexagonal machine inputs
- Handle can be rotated and locked in 30° steps
- Suitable for clockwise and anti-clockwise rotation
- Maximum torque: 62 Nm
- Maximum speed of rotation: 2000 U/min

Comes supplied with 1 bit each for TX20, TX25 and TX30



Art. no.	PU
499999	1

Screw Stop,

Screw coupling with depth stopper



The Screw Stop is the ideal solution for driving screws to an even depth into the wood. In this way, your deck will be given an attractive, even surface pattern. You adjust the required screwing depth with the infinitely adjustable depth stopper. When this is reached, the drive uncouples and the screw stops. You do not have to start again to adjust the seat of the screw head.

Art. no.	Dimensions	Material	PU
500000	Ø 27 x 80 mm	Hard plastic/steel	1

Drill-Stop,

countersinking for deck screws

For Terrasotec Ø 5 and 5.5 mm, Hapatec Ø 5 mm and Hapatec Heli Ø 5 mm



Pilot drilling is strongly recommended for fastening tropical woods/hardwoods. This is advisable even with the relatively easily splittable Douglas fir, and when screwing close to wood cut against the grain.

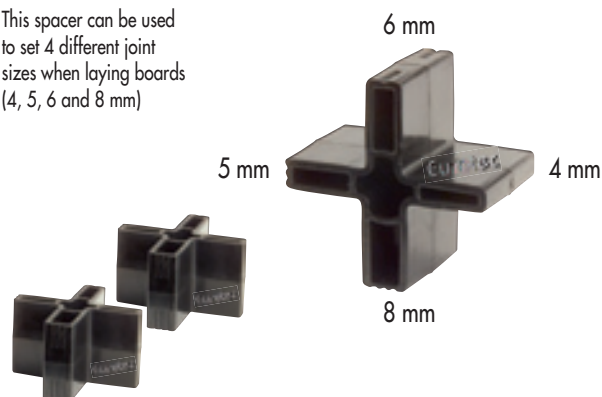
- Boring and countersinking in a single pass
- Screwing torque for inserting Terrasotec and Hapatec screws is greatly reduced, ie no more shearing of the screws, above all with the combination hardwood/stainless steel A2 or A4.
- Perfect seat of the screw head

Art. no.	Dimensions ^{a)}	Material	Stopper collar	PU
945986	Ø 4,7 x 25 mm	Hard plastic/steel	orange	1

a) Drilling diameter x drilling depth

Spacer

This spacer can be used to set 4 different joint sizes when laying boards (4, 5, 6 and 8 mm)



Art. no.	Dimensions w x h	Material	PU
945381	40 x 25 mm	Plastic, black	25

Tenax spacer

If deck boards are to be screwed directly, ie visibly, the Tenax serves as a spacer to the underlay to prevent waterlogging in the joint. By placing the boards on top, the joint gap of 6 mm and the clearance to the substructure are set.

- Optimum back ventilation
- Optimum clearance



Art. no.	Dimensions	Material	PU
945968	11 x 30 x 86 mm	Plastic, black	300

Tension clamp, incl. detachable plastic jaws

The tension clamp is an essential aid for laying deck boards. Use at least 4 tension clamps to bring the boards into shape along their whole length. Along with the spacers, for example, this achieves an even joint pattern with straight deck boards.



Art. no.	Dimensions	Material	PU
945380	270 x 830 x 55 mm	Hard plastic/steel	1

Terrassotec Trilobular/Terrassotec

NEW
to our product range

Advantages of Terrassotec Trilobular:

Special screw geometry

- Drive thread ensures quick screwing
- Reinforced shank reduces risk of breaking or shearing off
- Under-head thread provides additional hold for deck boards

Trilobular base geometry

- Reduced screwing torque
- Reduced risk of screw breaking during screwing

Two-step head with under-head toothing

- Reduced splintering
- Reduced risk of timber splitting

Reinforced shank

- Suitable for many tropical woods
- Reduced risk of screw shearing off

Terrassotec Trilobular, hardened stainless steel



Art. no.	Dimensions	Drive	PU
905530	5,5 x 50 mm	TX25 ●	200
905529	5,5 x 60 mm	TX25 ●	200
905531	5,5 x 70 mm	TX25 ●	200
905538*	5,5 x 80 mm	TX25 ●	200
905545	5,5 x 90 mm	TX25 ●	200
905546	5,5 x 100 mm	TX25 ●	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

Terrassotec Trilobular, V4A



Art. no.	Dimensions	Drive	PU
905555*	5,5 x 50 mm	TX25 ●	100
905556	5,5 x 60 mm	TX25 ●	100
905557	5,5 x 70 mm	TX25 ●	100
905558*	5,5 x 80 mm	TX25 ●	100
905547*	5,5 x 90 mm	TX25 ●	100
905548*	5,5 x 100 mm	TX25 ●	100

- Rust-resistant and limited resistance to acid
- Suitable for use with woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

Terrassotec Trilobular, V2A



Art. no.	Dimensions	Drive	PU
905539	5,5 x 50 mm	TX25 ●	200
905540	5,5 x 60 mm	TX25 ●	200
905541	5,5 x 70 mm	TX25 ●	200
905542	5,5 x 80 mm	TX25 ●	200

- Only partially rust-resistant, not acid-resistant, relatively soft
- Not suitable for atmospheres containing chlorine

Terrassotec Trilobular, hardened stainless steel, antique



Art. no.	Dimensions	Drive	PU
B905530*	5,5 x 50 mm	TX25 ●	200
B905529	5,5 x 60 mm	TX25 ●	200
B905531*	5,5 x 70 mm	TX25 ●	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

* The previous version will continue to be supplied until the switchover is complete.



Splintering



Pilot-drilling + Terrasotec screw



No splintering, no shearing!

Pilot drilling with the Drill-Stop and the specially developed head geometry of Terrasotec screws prevents splintering to the greatest extent.

The screws can be prevented from shearing through the use of the distance strips.



Which screw steel for which wood?

Please see p. 95

Eurotec

Terrasotec, V4A antique *



Art. no.	Dimensions	Drive	PU
B905555	5,5 x 50 mm	TX25 ●	100
B905556	5,5 x 60 mm	TX25 ●	100
B905557	5,5 x 70 mm	TX25 ●	100
B905558	5,5 x 90 mm	TX25 ●	100
B905559	5,5 x 100 mm	TX25 ●	100

- Rust-resistant and limited resistance to acid
- Suitable for use with woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

* Discontinued item



Drill-Stop for:

- Terrasotec Ø5 and 5,5 mm
- Hapatec Ø5 mm
- Hapatec Heli Ø5 mm

Wood deck = pilot-drilling

When building a wood deck using premium woods pilot-drilling and pre-counterboring is recommended in all circumstances. This applies to soft coniferous wood as well as to hardwood.

PRACTICAL:

Here's everything you need.

Terrasotec screws, Ø 5,5 mm

Sales unit in bucket with 500 pieces



incl. Drill-Stop



incl. TX 25 Bit



500 pieces





PRACTICAL:

Everything you need in one box



Hapatec screws,
sold as a 500/1000-piece bucket



incl. Drill-Stop

incl. TX 25 Bit

**500/
1000
pieces**



Eurotec

Hapatec



Hapatec

Panel fastener hardwood, stainless steel, hardened

Art. no.	Dimensions	Drive	PU
111803	4,0 x 30 mm	TX15 ●	500
111810	4,0 x 40 mm	TX15 ●	500
111821	4,0 x 45 mm	TX15 ●	500
111811	4,0 x 50 mm	TX15 ●	500
111812	4,0 x 60 mm	TX15 ●	500
904569	4,5 x 45 mm	TX20 ●	200
111813	4,5 x 50 mm	TX20 ●	200
111814	4,5 x 60 mm	TX20 ●	200
111815	4,5 x 70 mm	TX20 ●	200
111816	4,5 x 80 mm	TX20 ●	200
100048	5,0 x 40 mm	TX25 ●	200
100049	5,0 x 45 mm	TX25 ●	200
111817	5,0 x 50 mm	TX25 ●	200
111818	5,0 x 60 mm	TX25 ●	200
111819	5,0 x 70 mm	TX25 ●	200
111820	5,0 x 80 mm	TX25 ●	200
111888	5,0 x 90 mm	TX25 ●	200
111889	5,0 x 100 mm	TX25 ●	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088
- 60% greater breaking torque than A2 and A4
- Hardened stainless steel can be magnetised



Hapatec »antique«

Panel fastener hardwood, stainless steel, hardened

Art. no.	Dimensions	Drive	PU
B111817	5,0 x 50 mm	TX25 ●	200
B111818	5,0 x 60 mm	TX25 ●	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088
- 60% greater breaking torque than A2 and A4
- Hardened stainless steel can be magnetised

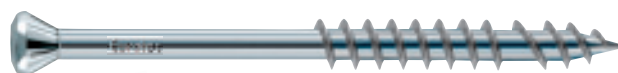


Hapatec Heli V4A

Art. no.	Dimensions	Drive	PU
100059	4,5 x 50 mm	TX20 ●	200
100055	4,5 x 60 mm	TX20 ●	200
100056	4,5 x 70 mm	TX20 ●	200
100057	4,5 x 80 mm	TX20 ●	200
100051	5,0 x 50 mm	TX25 ●	200
100052	5,0 x 60 mm	TX25 ●	200
100053	5,0 x 70 mm	TX25 ●	200
100054	5,0 x 80 mm	TX25 ●	200
100058	5,0 x 100 mm	TX25 ●	200

- Resistant to rust, limited resistance to acid
- Suitable for woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

The special screw geometry reduces the screwing torque.
This reduces the danger of the shearing of the relatively soft A4 stainless steel screw.

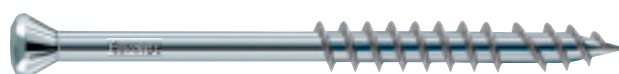


Hapatec Heli V2A

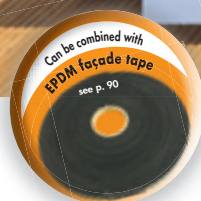
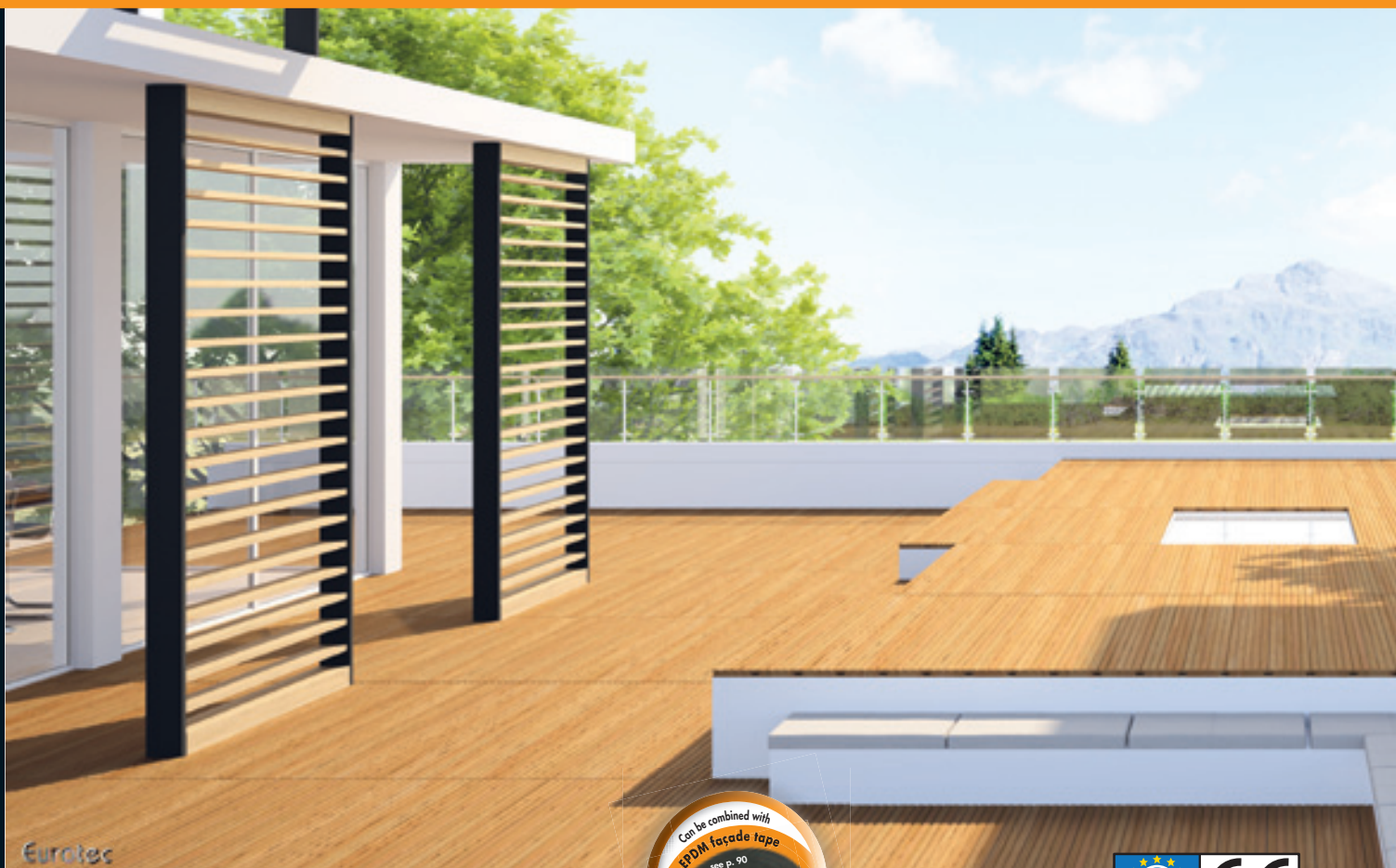
Art. no.	Dimensions	Drive	PU
100060	5,0 x 50 mm	TX25 ●	200
100062	5,0 x 60 mm	TX25 ●	200

A2 stainless steel:

- Only partially rust-resistant, not acid-resistant
- Not suitable for atmospheres containing chlorine



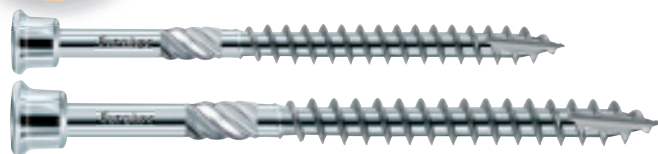
Terrassotec



Advantages of Terrassotec:

- Reduced splintering through special head
- With self-milling ribs for sinking easily in all wood types
- The screw geometry reduces the danger of splitting, but pilot drilling is recommended in particular for hardwoods and in deck and façade construction!

Check the information from the board manufacturer.



Which screw steel for which timber?

Please refer to p. 95.



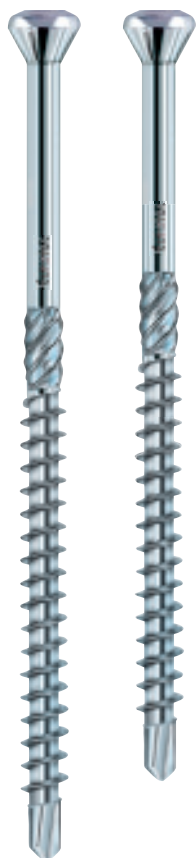
Terrassotec, stainless steel, hardened

Art. no.	Dimensions	Drive	PU
905535	4,0 x 40 mm	TX15 ●	500
905536	4,0 x 50 mm	TX15 ●	500
905537	4,0 x 60 mm	TX15 ●	500
905528	4,5 x 45 mm	TX20 ●	200
905520	4,5 x 50 mm	TX20 ●	200
905521	4,5 x 60 mm	TX20 ●	200
905522	4,5 x 70 mm	TX20 ●	200
905527	5,0 x 45 mm	TX25 ●	200
905523	5,0 x 50 mm	TX25 ●	200
905524	5,0 x 60 mm	TX25 ●	200
905525	5,0 x 70 mm	TX25 ●	200
905526	5,0 x 80 mm	TX25 ●	200
905544	5,0 x 90 mm	TX25 ●	200
905543	5,0 x 100 mm	TX25 ●	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088
- 60% greater breaking torque than A2 and A4
- Hardened stainless steel can be magnetised



Hobotec ornamental head and EPDM façade tape



The new type of thread and the innovative drill point enable a clean fit and high extraction resistance values.

Particularly suitable for brittle woods

Not suitable for tannin-rich woods such as cumarú, oak, merbau, robinia, etc.

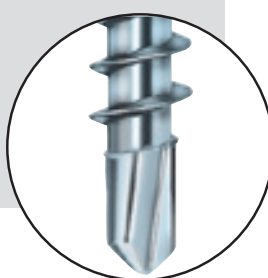


Hobotec ornamental head, hardened stainless steel

Art. no.	Dimensions	Drive	PU
945040	4,0 x 40	TX 15 ●	500
945653	4,0 x 45	TX 15 ●	500
945041	4,0 x 50	TX 15 ●	500
945042	4,0 x 60	TX 15 ●	500
945043	4,0 x 70	TX 15 ●	500
945045	4,5 x 40	TX 20 ●	200
945046	4,5 x 45	TX 20 ●	200
945047	4,5 x 50	TX 20 ●	200
945048	4,5 x 60	TX 20 ●	200
945049	4,5 x 70	TX 20 ●	200
945050	4,5 x 80	TX 20 ●	200
945051	5,0 x 50/30	TX 25 ●	200
945052	5,0 x 60/36	TX 25 ●	200
945053	5,0 x 70/42	TX 25 ●	200
945054	5,0 x 80/48	TX 25 ●	200
945055	5,0 x 90/54	TX 25 ●	200
945056	5,0 x 100/60	TX 25 ●	200

Application:

- Façades
- Fences
- Decks



EPDM façade tape

Art. no.	Dimensions H x W x L	PU
954041	8,0 x 10,0 x 9.750 mm	10

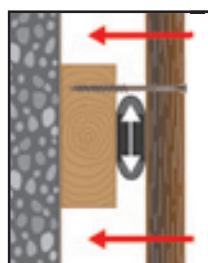
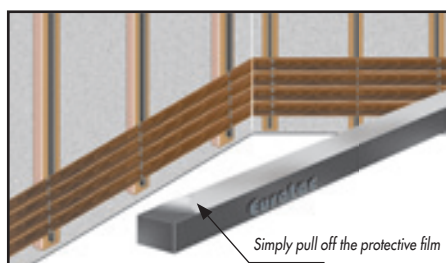
The EPDM façade tape protects the timbers of your façade substructure against moisture and thus aids constructive timber protection. It is tear-proof, durable and easy to fasten thanks to an adhesive film. The façade tape is supplied as a roll and can be cut to length individually.

Especially suited to:

Hapotec Heli V4A,
Terrasotec hardened stainless steel,
Hobotec ornamental head,
Hobotec screw,
Paneltwistec V4A



Also suitable for the deck substructure.



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Hobotec screws

Hobotec screws

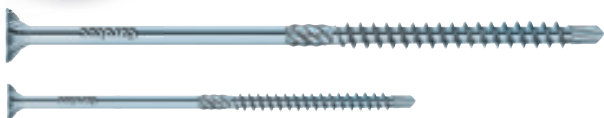
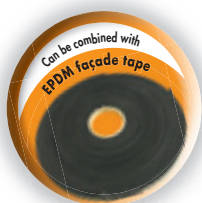
Hobotec screws enable simple, fast and clean connections of wood to wood. These screws are used in particular in applications where there is an increased danger of cracking and splitting. The new type of thread and the innovative drill point enable a clean fit and high extraction resistance values.

Specially suitable for:

applications in model construction, stairs construction, façade construction for carpentry work, joinery and roofing.



© fotolia.de



Hobotec screw, Stainless steel, hardened

Art. no.	Dimensions	Drive	PU
903323	4,0 x 30 mm	TX15 ●	500
110299	4,0 x 40 mm	TX15 ●	500
110300	4,0 x 45 mm	TX15 ●	500
110301	4,0 x 50 mm	TX15 ●	500
110302	4,0 x 60 mm	TX15 ●	500
110319	4,5 x 40 mm	TX20 ●	200
944839	4,5 x 45 mm	TX20 ●	200
110303	4,5 x 50 mm	TX20 ●	200
110304	4,5 x 60 mm	TX20 ●	200
110305	4,5 x 70 mm	TX20 ●	200
110306	4,5 x 80 mm	TX20 ●	200
110307	5,0 x 50 mm	TX25 ●	200
110308	5,0 x 60 mm	TX25 ●	200
110309	5,0 x 70 mm	TX25 ●	200
110310	5,0 x 80 mm	TX25 ●	200
110311	5,0 x 90 mm	TX25 ●	200
110312	5,0 x 100 mm	TX25 ●	200
110313	6,0 x 80 mm	TX25 ●	100
110314	6,0 x 90 mm	TX25 ●	100
110315	6,0 x 100 mm	TX25 ●	100
110316	6,0 x 120 mm	TX25 ●	100
110317	6,0 x 140 mm	TX25 ●	100
110318	6,0 x 160 mm	TX25 ●	100

Advantages:

- No pilot drilling required
- No cracking or splitting in narrow edge areas
- No hammering of the screws through Tec drive



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Application range for screws made of hardened stainless steel:

- This steel combines the best properties of carbon and stainless steels. Conditionally rust-resistant like an A2 with the high mechanical values of a galvanised steel. Hardened stainless steel is not acid-resistant, which is why it is also not suitable for fastening wood containing tanning agents (eg oak).
- Hardened stainless steel can be magnetised.
- Stainless steel in accordance with DIN 10088.

For further information on possibilities for using hardened stainless steel see p. 95.

Hobotec ornamental head, hardened stainless steel, blue/yellow galvanised, brass-plated



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These screws are used in particular in applications where there is a high risk of splitting. The new type of thread and the innovative drill point enable a clean fit and high extraction resistance values.

e.g. when laying wood floors, wood mouldings, etc.

Hobotec ornamental head, steel blue galvanised

Art. no.	Dimensions	Drive	PU
110287	3,2 x 20 mm	TX 10 ○	500
110288	3,2 x 25 mm	TX 10 ○	500
110289	3,2 x 30 mm	TX 10 ○	500
110290	3,2 x 35 mm	TX 10 ○	500
110291	3,2 x 40 mm	TX 10 ○	500
110292	3,2 x 50 mm	TX 10 ○	500
110293	3,2 x 60 mm	TX 10 ○	500

Also available with head painted white:

Art. no.	Dimensions	Drive	PU
w110288	3,2 x 25 mm	TX 10 ○	500
w110289	3,2 x 30 mm	TX 10 ○	500
w110290	3,2 x 35 mm	TX 10 ○	500
w110291	3,2 x 40 mm	TX 10 ○	500
w110292	3,2 x 50 mm	TX 10 ○	500
w110293	3,2 x 60 mm	TX 10 ○	500

Hobotec ornamental head, hardened stainless steel

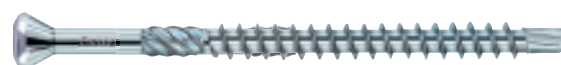
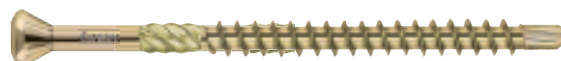
Art. no.	Dimensions	Drive	PU
900782	3,2 x 25 mm	TX 10 ○	500
110294	3,2 x 30 mm	TX 10 ○	500
110295	3,2 x 35 mm	TX 10 ○	500
110296	3,2 x 40 mm	TX 10 ○	500
110297	3,2 x 50 mm	TX 10 ○	500
110298	3,2 x 60 mm	TX 10 ○	500

Hobotec ornamental head, brass-plated

Art. no.	Dimensions	Drive	PU
903436	3,2 x 25 mm	TX 10 ○	500
903437	3,2 x 30 mm	TX 10 ○	500
903438	3,2 x 35 mm	TX 10 ○	500
903439	3,2 x 40 mm	TX 10 ○	500
903440	3,2 x 50 mm	TX 10 ○	500
903441	3,2 x 60 mm	TX 10 ○	500

Hobotec ornamental head, steel yellow galvanised

Art. no.	Dimensions	Drive	PU
110280	3,2 x 20 mm	TX 10 ○	500
110281	3,2 x 25 mm	TX 10 ○	500
110282	3,2 x 30 mm	TX 10 ○	500
110283	3,2 x 35 mm	TX 10 ○	500
110284	3,2 x 40 mm	TX 10 ○	500
110285	3,2 x 50 mm	TX 10 ○	500
110286	3,2 x 60 mm	TX 10 ○	500
944778	4,0 x 70 mm	TX 15 ●	200
944779	4,0 x 80 mm	TX 15 ●	200



Eurotec

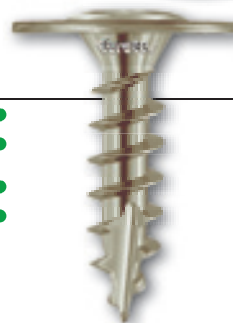
Fence post connection screw and interwoven fence fittings



Fence post connection screw specially coated

- Flange buttonhead screws, Ø 8 mm, head diameter 22 mm
- Special tip geometry reduces the splitting effect, no pilot drilling required
- Special protection against corrosion
- For use, eg, in fence and pergola construction

Not suitable for woods containing tanning agents.



Art. no.	Dimensions	Drive	PU
r903056	8 x 40 mm	TX 40 ●	100
r903057	8 x 50 mm	TX 40 ●	100
975594	10 x 40 mm	TX 40 ●	50
975595	10 x 50 mm	TX 40 ●	50

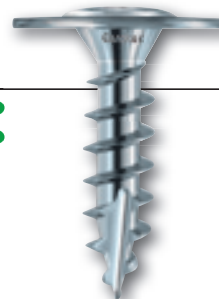
A2 fence post connection screw

A2 stainless steel:

- Limited rust resistance, not acid-resistant
- Not suitable for atmospheres containing chlorine

NEW
to our product range

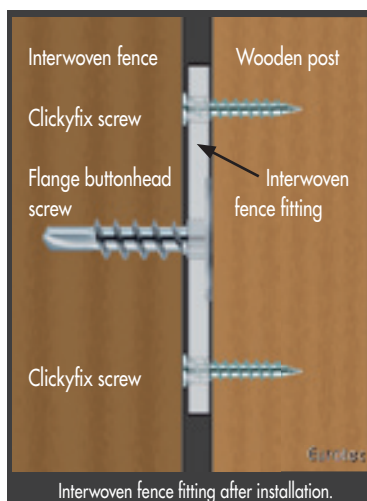
Art. no.	Dimensions	Drive	PU
975570	8 x 40 mm	TX40 ●	100
975571	8 x 50 mm	TX40 ●	100



Interwoven fence fitting set

	Art. no.	Dimensions	Material	Set
Set 1*	S900335	40 x 65 mm	A2	1

* A set consists of 4 fittings (A2)
+ 16 ClickyFix + 4 interwoven fence screws



Screw the interwoven fence fitting with an interwoven fence screw at the head to the fence element. We recommend at least two fittings per side, ie 4 fittings for each fence element.

Now fasten the fence panel with the fitting to the wooden post. We recommend using 4 Clickyfix screws per fitting.

Expert hints:

Hazards in the construction of timber decks

The various timber types differ from one another not only in their appearance but also in their technical properties:

- One particularly important property of wood with regard to deck construction is dimensional stability (also known as “resilience”). Experts use this term to refer to the property whereby wood changes shape in the course of use due to swelling or shrinkage. The various timber types exhibit different degrees of dimensional stability. For this reason, special attention must be paid to the choice of timber type. For deck construction, we recommend using timber with high dimensional stability. Some timber types, including Massaranduba, exhibit lower-than-average dimensional stability, so we expressly advise against using these timber types for deck construction. Since, from an absolute perspective, the swelling and shrinkage behaviour increases as the width of the timber boards increases, we also recommend a maximum board width of 120 mm. You can find details of the dimensional stability of some common timber types in the “Overview of timber types” on p. 38 - 42 of our catalogue, as well as on our website.
- Rift-sawn planks should always be used in preference to flat-sawn planks, as they have considerably better properties with respect to cracking, splintering, swelling and shrinkage, as well as dimensional stability, and therefore tend to distort and warp less. Often, so-called flat-sawn planks cannot be fastened permanently with either visible or hidden methods. In such cases, we cannot guarantee permanent fastening.
- Even fine particles of abraded metal can lead to dark spots of corrosion on the timber boards. Metalwork should not therefore be carried out in the direct vicinity of the deck.
- Constituent substances in the timber can cause contamination of adjacent surfaces; it is therefore important to take constructive precautions, such as maintaining sufficient distances from nearby components.
- As nature does not adhere to quality guidelines, the suitability of timber for deck construction does not depend solely on the timber type. Often, problems can occur even due to individual batches of a timber type that is normally harmless. Possible reasons for this include spiral grain and insufficient drying.
 - Spiral grain refers to a wood grain that has grown in a spiral around the trunk axis; this becomes a problem if, in the course of use, the moisture contained in the wood deviates from the moisture level at installation. If this happens, internal tension in the wood is released and can therefore cause the deck boards to warp. The energy released in this process is so enormous that it often overwhelms even perfectly installed fastening systems.
 - It is a property of every timber to be able to absorb and give out water. For the user, this property can primarily be perceived through the timber's swelling and shrinking. One task of the timber trade is to bring timber to the correct state of dryness for the respective area of use. If timber is used that has an incorrect moisture content at installation, this can quickly lead to damage.
- Many properties of the timber vary strongly depending on the grade. It is therefore advisable to contractually stipulate all criteria in advance with your timber dealer!
- Particular care should be taken when purchasing Bangkirai. In the past, increased demand often meant that substitute timber from South East Asia was – knowingly or unknowingly – traded as Bangkirai. Most of these substitute timbers are considerably less suitable for deck construction. This results in cracking and strong warping and bending of the boards.
- It is essential to use identical timber types in order to ensure the durability of the deck – i.e. the upper deck and substructure must be made of the same material.

• A lot of damage to deck structures can be prevented in advance by thoroughly inspecting the timber that is to be installed. If, for example, the tradesman responsible already notices deformation in the deck boards before installation, none of these boards should be installed.

Selecting screw steels for their corrosion resistance

Step by step:

Select the right screw material for your project by observing the following principles. Go through the three points one after the other. The right material is marked for points 1 and 2 with (X) at least, or even better with X. In the event of additional chemical stress, point 3 must conform as well.

- 1.** What's the component's situation? Is it exposed to the weather (fence) or is it protected (ceiling beam)?
- 2.** Which wood is being fastened? Is it simple construction wood, or tannin-rich tropical wood?
- 3.** Are there any additional stresses in situ that encourage corrosion? Location near the sea? Heavy industry, etc.?

Example: fastening a façade made of Douglas fir

1. Use class = 3, because exposed to weather. Façade = optical requirements. → at least C1
 2. Douglas fir → min. C1, but an A2 or A4 is to be preferred.
 3. This point is not required, because there are no further external stresses.
- Selection: C1 is possible, but A2 or A4 is to be preferred.

Steel group	Carbon steel		Stainless steel, martensite C1, hardened stainless steel	Stainless steel, austenite	
	Electroplated	Special coating		A2	A4
Product examples	Paneltwistec blue/yellow Hobotec blue/yellow	Paneltwistec 1000 Topduo	Terrassotec stainless steel, hardened Hapatec	Terrassotec A2	Terrassotec A4 Hapatec Heli A4
1. Position of the component?					
NKL 1 ^{a)}	X	X	X	X	X
NKL 2 ^{a)}	X	X	X	X	X
NKL 3 ^{a)}	-	(X) ^{b)}	X	X	X
2. Which wood? ^{c)}					
Structural timber, wood materials ^{d)}	X	X	X	X	X
Beech (red beech)	X	X	X	X	X
Douglas fir	-	-	(X) ^{e)}	X	X
Spruce	X	X	X	X	X
Pine	X	X	X	X	X
Larch	-	-	(X) ^{e)}	X	X
Coniferous wood, pressure-impregnated	(X) ^{b)}	(X) ^{b)}	(X) ^{b)}	(X) ^{b)}	X
Red cedar	-	-	-	(X) ^{f)}	X
Fir	X	X	X	X	X
Thermotreated wood from coniferous wood	-	-	-	(X) ^{f)}	X
Abachi	-	-	-	(X) ^{f)}	X
Azelia, doussié	-	-	-	(X) ^{f)}	X
Azobé, bongossi	-	-	-	-	X
Bangkirai, balau	-	-	(X) ^{e)}	X	X
Bilinga	-	-	-	(X) ^{f)}	X
Courbaril, jatobá	-	-	-	-	X
Cumarú	-	-	-	(X) ^{f)}	X
Sweet chestnut	-	-	-	-	X
Oak	-	-	-	-	X
Eukalyptus	-	-	-	-	X
Garapa	-	-	-	-	X
Ipé	-	-	(X) ^{e)}	X	X
Iroko	-	-	(X) ^{e)}	X	X
Itaúba	-	-	-	-	X
Kosipo	-	-	-	-	X
Massaranduba	-	-	-	-	X
Merbau	-	-	-	-	X
Robinie	-	-	-	-	X
Thermally modified timber made from hardwood	-	-	-	(X) ^{f)}	X
3. Additional chemical load?					
Constant condensation ^{g)}	-	-	-	(X) ^{b)}	X
Salt load ^{h)}	-	-	-	(X) ^{b)}	X
Aggressive atmospheres ^{k)}	-	-	-	-	(X) ^{m)}
Chlorous atmospheres ^{l)}	-	-	-	-	-

a) Use classes in accordance with DIN EN 1995:2008. NKL 1 - components in structures enclosed on all sides, partly heated. NKL 2 - components in roofed, open structures without direct weather exposure. NKL 3 - freely weathered constructions.

b) Recommended only for less significant fastening points, or for temporary objects, or if there are no visual requirements.

c) Pilot-drilling and, where applicable, pre-countersinking, is recommended in general for hardwoods. This also applies for coniferous woods in deck and façade construction.

d) Untreated: spruce, fir, pine, composite timber, KVH®, veneering laminated wood, solid wood, etc., plywood, OSB, fibreboards, cement-bound and gypsum fibreboards, etc.

e) In our experience, using this timber with C1 does not lead to problems with corrosion or timber discolouration.

Depending on the origin of the timber, however, this cannot be ruled out completely. Please also inquire at your timber dealer.

f) Use of A4 is recommended. Please contact your wood dealer as well.

g) Uninterrupted condensation in a water vapour atmosphere with only slight impurities.

h) Building components close to roads heavily affected by salting in winter, coastal areas, in offshore and other industrial installations.

k) For example: building components in road tunnels, pig stalls or in other aggressive atmospheres, possibly with additional higher air humidity.

l) Building components in indoor swimming pools or other chlorous atmospheres.

m) Use to be checked in the individual case.

This overview cannot take account of all applications. Materials can be assigned to more unfavourable conditions as well in an individual case.

Information on building a deck

Substructure

For a stable and durable hardwood deck it is very important to build the substructure correctly. On the one hand this has the job of supporting the actual deck, so that an even surface is retained even under load. On the other hand, it serves for constructive wood protection, in that it forms a clearance between the ground and the deck flooring/bearing beams. In this way, the wood is not exposed to either waterlogging or increased wood moisture in the earth-air zone. These conditions, coupled with the use of unsuitable wood types, would be the nutrient medium for organisms that destroy wood. In the following sections we want to show you some approaches for constructing a deck substructure.

A supporting base is always required. This can be compressed earth, gravel, or similar. The foundations are then placed on this. The bearer beams are placed on them. The foundations form the above-mentioned required clearance between the earth and the wood and bear the ensuing loads.

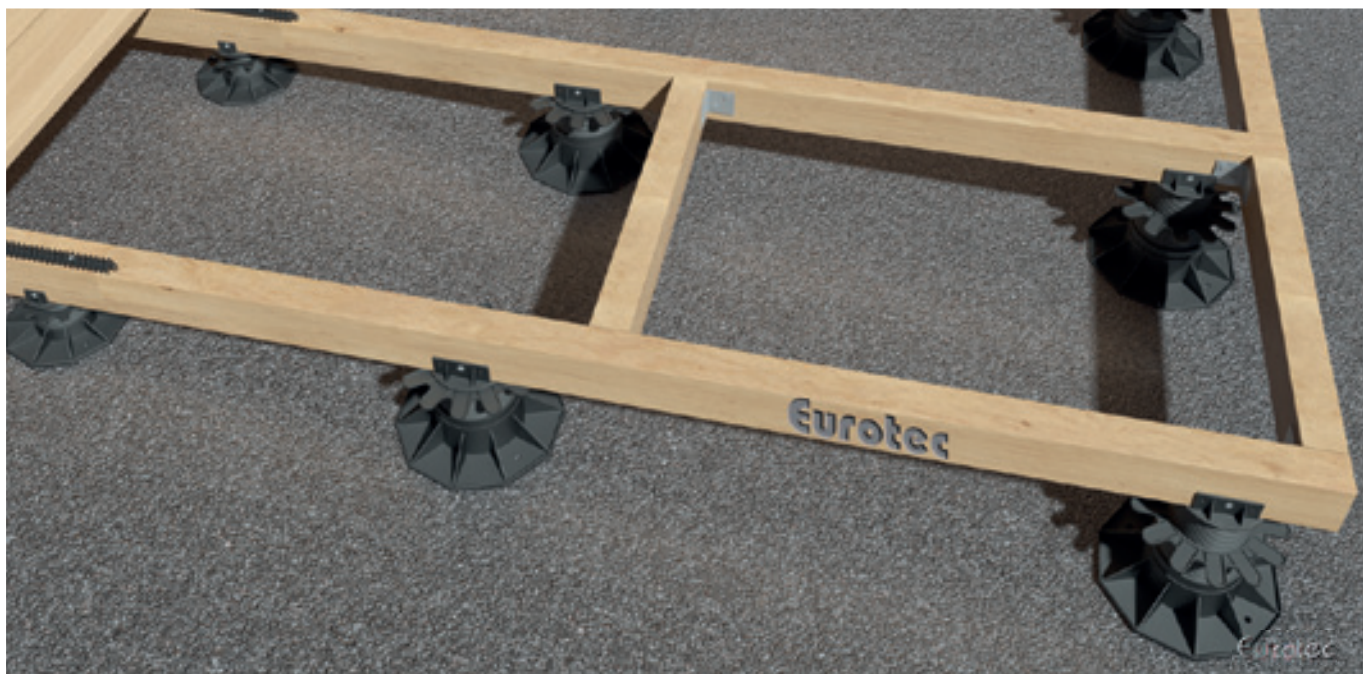


Here are three examples of how substructures are implemented:

- ❶ A strip footing is cast in concrete: this is very expensive and requires very accurate work. (See Fig. 1)
- ❷ Concrete elements are laid on a gravel bed: these are quite heavy to transport and position. (See Fig. 2)

A problem becomes clear in types 1 and 2: you have to work very accurately to install the upper edges of the foundations at exactly the same height. Since this is not usually possible, the joists will require spacers at a later stage. **Rolfi spacers** (p. 45 + 46) are particularly well-suited to this.

- ❸ **Adjustable pedestals from Eurotec:** the adjustable pedestals can be placed directly onto compacted subsoil or concrete. This removes the need to create expensive foundations and install spacers to even out the height of the substructure timbers. The height can be adjusted steplessly, together with that of the supported joist, which is connected directly to the adjustable pedestal with a bracket.



Information on working with wood decks

Wood decks

Because of constantly occurring problems with the use of hardwood/tropical woods we want to point out some fundamental working guidelines that must be observed. However, we refer in general to the recommendations of your wood dealer, because there can be extreme fluctuations in the wood properties with the same wood type, above all with tropical woods. Bangkirai wood, for example, which is often used, can have very different properties, because the properties depend heavily on the source in each case. If the variety of wood properties within a range is ignored, this can lead to various problems with regard to screws breaking off.

At a width of 140 mm, Bangkirai woods or other hardwood/tropical woods can swell or shrink by up to 7 mm, depending on the wood moisture. With direct screwing through the boards into the substructure we recommend using a pair of screws. If the board is fastened directly on the substructure and the board works from the centre by about 3.5 mm, this leads in some cases to the screws being sheared off. The hardwood/tropical wood does not allow the screw to absorb any movement because it can barely be compressed because of its own high density.

Although deck/wood construction screws today have a suitable deflection angle, hardwoods that are placed directly on top of each other function as shearing modules that shear the screws off if the wood swells or shrinks. (Per board half = 3.5 mm displacement, this conforms to about the inside diameter of a screw with a 5 mm thread, which is the minimum that should be used with tropical woods).

In certain circumstances, screwing in the centre of the board might be deducted from this. Unfortunately, tropical woods have an extremely high internal stress, which leads to the boards twisting (dishing), which in most cases requires pairs of screws.

However, using a spacer (eg distance strip or deck glider) between the substructure and deck board is very helpful here. This provides the screws with a possibility of bending in the direction of the working wood. The danger of shearing is greatly reduced. In addition, this clearance protects the wood from waterlogging at the support points. The ageing process is slowed down clearly.

A mistake that is frequently made is to have centre distances in the substructure that are too large. The most durable results are achieved if this clearance, and therefore the screw clearance in the lengthwise direction of the boards, is max. 60 cm.

Please note that the installation information provided here is merely a recommendation and does not constitute binding assembly instructions. Every assembly job is subject to different performance requirements, e.g. locally applicable building regulations, and the tradesman carrying out the installation is responsible for compliance with these requirements.

Pilot-drilling is always better with problematic woods. These are above all hardwood/tropical woods, but also some coniferous woods that tend to crack easily, such as eg Douglas fir.

Pilot drilling prevents the wood splitting. With regard to the edge distances make sure that there is at least 6 cm clearance to the end of the board.

(Please note: because of the high internal stress the boards can also crack open later at the ends and in the middle. This also applies to thermally treated woods).



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www.e-u-r-o-tec.de



For display

PERFECTLY PRESENTED, SIMPLY AN



The Minishop and the Midishop are cost-effective and space-saving alternatives for selling Eurotec deck products.

Minishop

- Supplied as a mini sales unit on a europallet
- Incl. model deck as an example application
- Individually stocked with Terrassotec or Hapatec screws, incl. in bucket

Sales sample

Use the sales sample to present the advantages of the distance strip and deck glider systems quickly and understandably.

We supply everything you need to explain and present Eurotec deck products!



Offer your customers both variety and competence!



D UNDERSTANDABLY EXPLAINED!

Midishop

- Supplied as a midi sales unit on a europallet
- Incl. model deck as an example application
- Individually stocked with deck accessories such as Terrassotec, Rolfi, adjustable pedestals, deck gliders, bit sets, etc.



It's always good to have something in reserve!!

**500/
1000
pieces**



The EuroTec display system

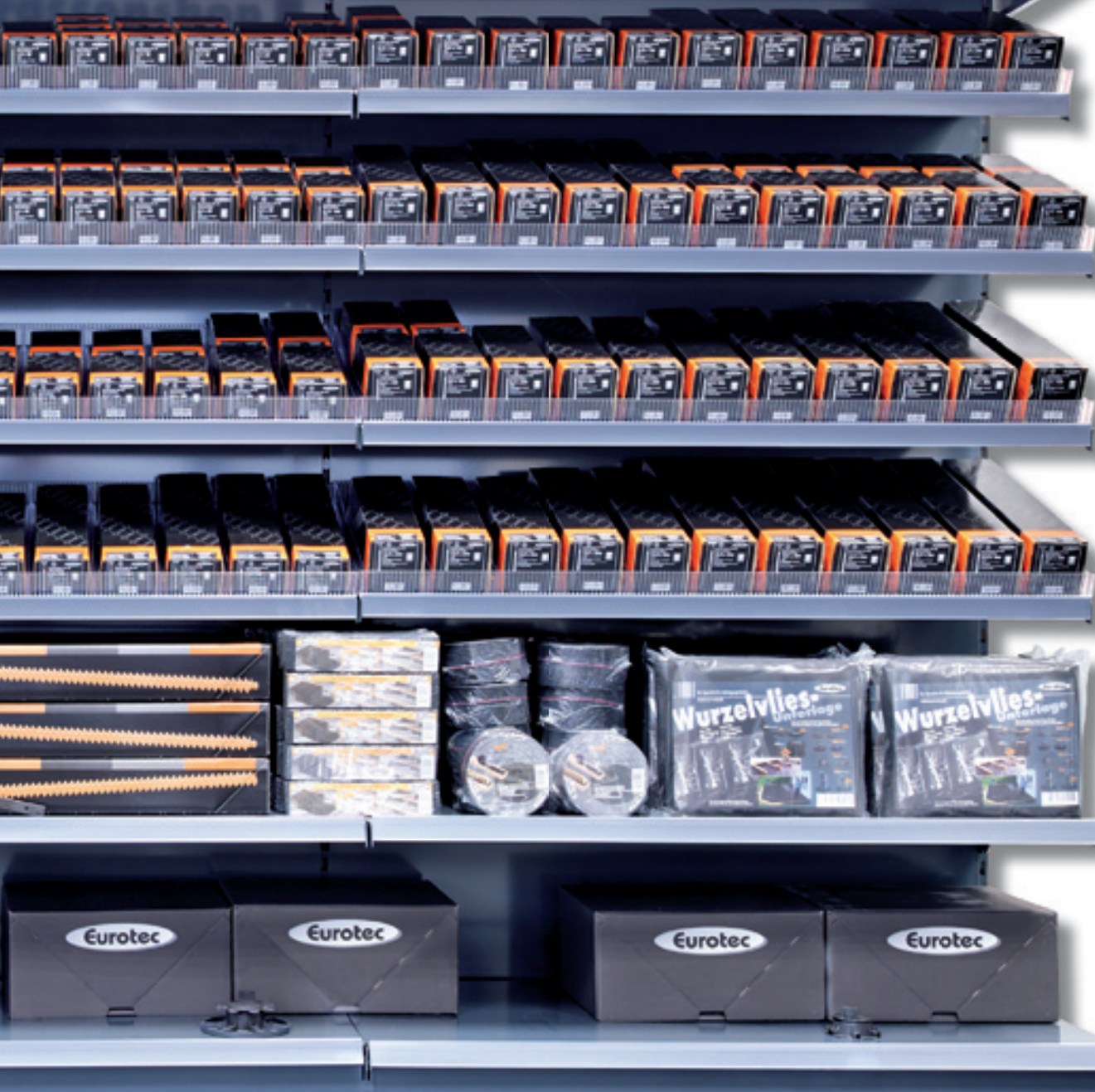


Foto©Markus-Steuer.de/Freyler

The EuroTec display system - everything at a glance

The practical and individually combinable display system for an attractive presentation of our products in your sales area.

Massenshop



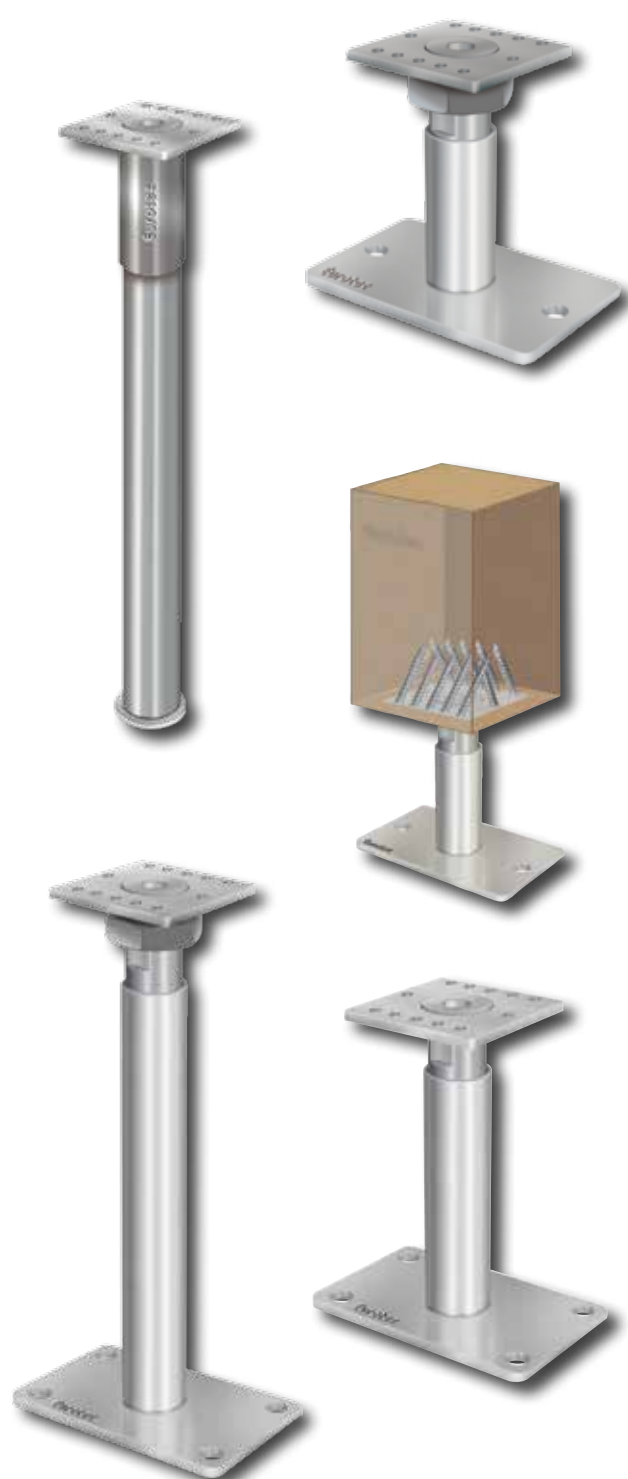
Display example with 3 modules, 375 cm wide, 224 cm high, 65 cm deep; individual module depth 125 cm

Product presentation in a premium display system.

- Wood construction or deck shop
- Single, double ... multiple unit
- We install and set up individually for you

PediX post feet

Quick to assemble, with an especially high load-bearing capacity



PediX

The PediX post foot is a post bearer that meets the requirements for constructive timber protection. It can be mounted on the end grain of the post using fully threaded screws with no need for joinery work or pilot-drilling. An EPDM gasket between the post foot and post provides additional protection for the wood against penetrating moisture. After assembly, the height of the post foot can still be adjusted by up to 50, 100 or 150 mm (except PediX B500). Thanks to the height adjustment, manufacturing tolerances relating to the structure and subsequent settlement in the individual foundations can be balanced out.

The post foot has high tensile and compressive load capacities.

Brief technical description:

- Simple assembly with fully threaded screws and no need for joinery work, pilot-drilling or milling
- Min. timber cross section of 100 x 100 mm
- Additional constructive timber protection thanks to gasket on end grain
- Hot-dip galvanised structural steel S235JR (ST37-2)
- Comes supplied with 12 fully threaded A2 screws measuring 5,0 x 80 mm
- All PediX post feet can be used in the usage classes 1, 2 and 3 in accordance with DIN EN 1995-1 -1
- The PediX 300+150 and PediX 300+150 HV allow constructive timber protection in accordance with the new DIN 68800-2
- In addition to the vertical loads, the PediX B500, PediX 140+50 HV, PediX 190+100 HV and PediX 300+150 HV post feet **can also dissipate horizontal forces into the subsurface**
- High tensile and compressive load capacities in accordance with ETA 13/0550

Advantages









- Easy assembly without milling
- Subsequent height adjustment
- High load bearing capacity

12 fully threaded
Ø 5,0 mm x 80 mm
A2 screws come supplied
for each post foot





Technical data: PediX post feet

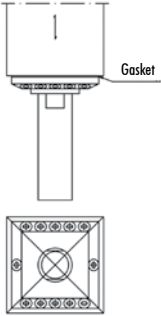
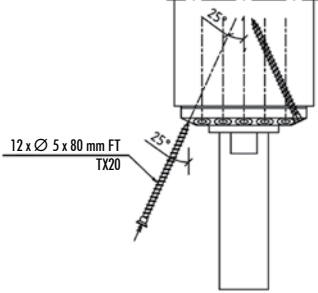
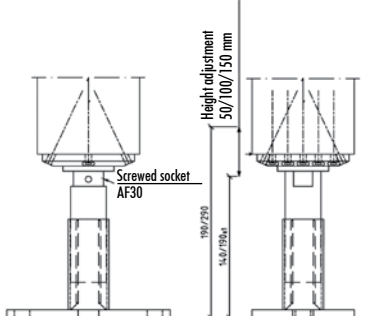
Name	Art. no.	Height adjustment in assembled state	Min. post cross section	Dimensions of baseplate	Compressive load-bearing capacity	Tensile load-bearing capacity	Lateral force resistance ²⁾	PU
Post feet on concrete		[mm]	[mm]	LxWxH [mm]	N _{c,d} [kN]	N _{t,d} [kN]	V _{R,d} [kN]	pcs.
PediX 140 + 50 	904681	140 - 190	100 x 100	160 x 100 x 8	48,0	9,2	—	4
PediX 190 + 100 	904682	190 - 290	100 x 100	160 x 100 x 8	30,9	9,2	—	4
PediX 300 + 150 ¹⁾ 	904689	300 - 450	100 x 100	160 x 100 x 8	16,2	9,2	—	4
PediX 140 + 50 HV 	904681-HV	140 - 190	100 x 100	160 x 100 x 8	48,0	9,2	4,4 ²⁾	4
PediX 190 + 100 HV 	904682-HV	190 - 290	100 x 100	160 x 100 x 8	35,4	9,2	3,6 ²⁾	4
PediX 300 + 150 HV ¹⁾ 	904689-HV	300 - 450	100 x 100	160 x 100 x 8	34,5	8,6	2,3 ²⁾	4
Post feet in concrete		Height adjustability [mm]	[mm]	LxWxH [mm]	N _{c,d} [kN]	N _{t,d} [kN]	V _{R,d} [kN]	pcs.
PediX B500 	904683	—	100 x 100	—	48,0	17,7	4,6 ²⁾	4
PediX B500 + 50 ¹⁾ 	904686	50	100 x 100	—	30,9	17,7	—	4

1) The PediX 300 + 150, PediX 300 + 150 HV and PediX B500 + 50 will shortly be added to ETA 13-/0550. Expert reports on load-bearing capacity are already available for the PediX 300 + 150 and PediX 300 + 150HV.

2) The lateral force resistance must be overlaid with the compressive and tensile load in accordance with ETA 13-/0550 and can therefore lead to lower load-bearing capacities.

Please note: The stated values are only intended as planning aids. They are subject to typographical and printing errors. Projects must only be calculated by authorised persons.

Installation instructions: You will find more-detailed information in our installation instructions.

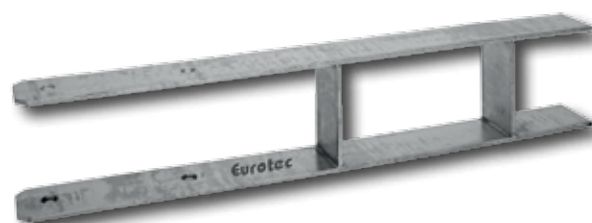
 <p>The PediX post foot can be attached easily to the end grain. Place the seal on the support foot and then place both parts centrally on the end grain surface. Note: To make assembly easier, the base plate and the cover sleeve can be unscrewed.</p>	 <p>After centring the head plate, screw in the 12 A2 full-thread 5,0 x 80 mm screws at an angle of 25° without pilotdrilling.</p>	 <p>The protective sleeve and the baseplate can be reinstalled after all screws are fitted. After the post is erected with the post foot installed, it can be anchored on a concrete foundation with two or four cavity-wall ties or concrete bolts. Once the foot is installed on the socket, its height can be adjusted using an AF30 spanner.</p>
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Please note: Do not screw the post foot to a height greater than 190, 290 or 450 mm respectively.

H post anchors

Hot-dip galvanised steel

H post anchors



Art. no.	Fork width (mm)	Dimensions ^{a)}	Drill holes ^{b)}	Pallet quantity	PU
		Overall/Post support (mm)	Post support (mm)		
Material thickness: 5 mm					
904722	91	600 x 60 / 300	4 x 11	200	1*
904723	101	600 x 60 / 300	4 x 11	200	1*
904724	121	600 x 60 / 300	4 x 11	200	1*
Material thickness: 6 mm					
904737	91	600 x 60 / 300	4 x 11	200	1
904738	101	600 x 60 / 300	4 x 11	200	1
904739	121	600 x 60 / 300	4 x 11	200	1
904740	141	600 x 60 / 300	4 x 11	200	1
Material thickness: 8 mm					
904741	161	800 x 60 / 400	4 x 11	100	1

a) Length x width / length, b) Number x Ø, *Discontinued item

- For fixing square timber posts in place
- Fixed into concrete using H anchor
- Excellent corrosion protection thanks to hot-dip galvanisation

Pyramid post cap

Hot-dip galvanised steel

NEW
to our product range



Art. no.	Dimensions ^{a)} (mm)	PU
904733	71 x 71	1
904734	91 x 91	1
904735	101 x 101	1

a) Length x width

- To protect posts against the effects of weathering
- Visual enhancement thanks to pyramid shape
- Excellent corrosion protection thanks to hot-dip galvanisation

Hammer-in ground sockets

Hot-dip galvanised steel

Hammer-in ground socket

for square posts



Art. no.	Dimensions ^{a)} Post socket (mm)	Length Spike (mm)	Drill hole ^{b)} Post socket (mm)	Pallet quantity	PU
904703	71 x 71 x 150	750	4 x 11	198	1
904704	91 x 91 x 150	750	4 x 11	112	1

a) Length x width x height
b) Number x Ø

- For fixing square timber posts in place
- Socket is fixed into the ground with ground anchors
- Excellent corrosion protection thanks to hot-dip galvanisation

Hammer-in ground socket

for round posts



Art. no.	Dimensions ^{a)} Post socket (mm)	Length Spike (mm)	Drill hole ^{b)} Post socket (mm)	PU
904705	81 x 150	450	4 x 11	1
904706	101 x 150	450	4 x 11	1
904707	121 x 145	605	4 x 11	1

a) Ø x height
b) Number x Ø

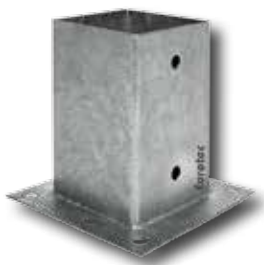
- For fixing round timber posts into place
- Socket is fixed into the ground with ground anchors
- Excellent corrosion protection thanks to hot-dip galvanisation

Screw-on sockets, Movable post holders

Hot-dip galvanised steel

Screw-on socket

for square posts



Art. no.	Dimensions ^{a)} Post socket (mm)	Dimensions ^{b)} Baseplate (mm)	Drill holes ^{c)} Baseplate/Post socket (mm)	PU
904695	71 x 71 x 150	150 x 150	4 x 11 / 4 x 11	1
904696	91 x 91 x 150	150 x 150	4 x 11 / 4 x 11	1
904697	101 x 101 x 150	150 x 150	4 x 11 / 4 x 11	1
904698	121 x 121 x 150	180 x 180	4 x 11 / 4 x 11	1

a) Length x width x height, b) Length x width, c) Number x Ø

- For fixing square timber posts in place
- Socket is fastened to the subsurface with four screws
- Excellent corrosion protection thanks to hot-dip galvanisation

Screw-on socket

for round posts



Art. no.	Dimensions ^{a)} Post socket (mm)	Dimensions ^{b)} Baseplate (mm)	Drill holes ^{c)} Baseplate/Post socket (mm)	PU
904701	101 x 150	150 x 150	4 x 11 / 4 x 11	1
904702	121 x 147	180 x 180	4 x 11 / 4 x 11	1

a) Ø x height, b) Length x width, c) Number x Ø

- For fixing round timber posts into place
- Socket is fastened to the subsurface with four screws
- Excellent corrosion protection thanks to hot-dip galvanisation

Post holder

movable, for round posts



Art. no.	Dimensions ^{a)} Post socket (mm)	Dimensions ^{b)} Baseplate (mm)	Drill hole ^{c)} Baseplate/Post socket (mm)	PU
904713	101 x 150	140 x 130	4 x 11 / 3 x 5	1
904714	121 x 150	160 x 150	4 x 11 / 3 x 5	1

a) Ø x height, b) Length x width, c) Number x Ø

- For fixing round timber posts into place
- Socket is fastened to the subsurface with four screws
- Movable upper section allows attachment to inclined subsurfaces
- Excellent corrosion protection thanks to hot-dip galvanisation

U post holder

movable, for square posts



Art. no.	Fork width (mm)	Length Post support (mm)	Dimensions ^{a)} Baseplate (mm)	Drill holes ^{b)} Baseplate/Post support (mm)	PU
904708	71	100	100 x 100	4 x 11 / 6 x 11	1
904709	91	100	100 x 100	4 x 11 / 6 x 11	1

a) Length x width, b) Number x Ø

- For fixing square timber posts in place
- Socket is fastened to the subsurface with four screws
- Movable upper section allows attachment to inclined subsurfaces
- Excellent corrosion protection thanks to hot-dip galvanisation

U post holders, Corner connectors, U brackets

Hot-dip galvanised steel

U post holders



Art. no.	Fork width (mm)	Dimensions ^{a)} Post support (mm)	Drill hole ^{b)} Baseplate/Post support (mm)	PU
904717	71	150 x 60	2 x 11; 1 x 14 / 6 x 11	1
904719	91	150 x 60	2 x 11; 1 x 14 / 6 x 11	1
904721	101	150 x 60	2 x 11; 1 x 14 / 6 x 11	1

a) Length x width, b) Number x Ø

- For fixing square timber posts in place
- The bracket is fastened to the subsurface with three screws
- Post supports in sides provide spacing between the ground and the timber profile, aiding constructive timber protection
- Excellent corrosion protection thanks to hot-dip galvanisation

Corner connectors

for square posts, hot-dip galvanised



Art. no.	Dimensions ^{a)} Post socket (mm)	Dimensions ^{b)} Baseplate (mm)	Drill hole ^{c)} Baseplate/Post socket (mm)	PU
904710	105 x 105 x 200	82 x 155	2 x 11 / 6 x 11	1

a) Length x width x height, b) Length x width, c) Number x Ø

- For fixing square timber posts in place
- The corner connectors are fastened to the subsurface with four screws in total
- Allow variable width adjustment
- Excellent corrosion protection thanks to hot-dip galvanisation

U post holders

with stone pin



Art. no.	Fork width (mm)	Dimensions ^{a)} Post support (mm)	Dimensions ^{b)} Stone pin (mm)	Drill hole ^{c)} Post support (mm)	PU
904716	71	150 x 60	16 x 200	6 x 11	1
904718	91	150 x 60	16 x 200	6 x 11	1
904720	101	150 x 60	16 x 200	6 x 11	1

a) Length x width, b) Ø x height, c) Number x Ø

- For fixing square timber posts in place
- The bracket is fixed in the concrete with a 200 mm long stone pin
- Post supports in sides provide spacing between the ground and the timber profile, aiding constructive timber protection
- Excellent corrosion protection thanks to hot-dip galvanisation

U brackets

for fences, galvanised



Art. no.	Fork width (mm)	Dimensions ^{a)} (mm)	Drill hole ^{b)} Post support (mm)	PU
904711	101	233 x 40	4 x 6	1
904712	121	270 x 40	4 x 6	1

a) Length x width, b) Number x Ø

- For fixing round timber posts into place
- Corrosion protection

KonstruX fully threaded screw

The powerful solution for construction and renovation



One system for all timber-frame construction joints

- Applications in timber engineering and carpentry, timber-frame construction, hall construction, construction of timber elements, renovation of ceilings, etc.
- Maximum load transmission
KonstruX fully threaded screws maximise a joint's load-bearing capacity with a high thread-extraction resistance in both components. If partially threaded screws are used, the joint's load-bearing capacity is limited by the considerably lower head pull-through resistance in the attached part.
- A time- and cost-saving alternative to traditional connections or timber joints such as joist hangers, joist supports, etc.
- Timber has a low transverse compressive and shear strength. KonstruX fully threaded screws are inserted into the timber for reinforcement. The KonstruX "takes on" a large proportion of the forces.
- Doubling up of joists, for example, increases the load-bearing capacity of floor joists and reduces bending. Here, KonstruX fully threaded screws join the components together in a displacement-resistant manner.
- Hidden connections, high fire-resistance, no thermal bridges
- No pilot-drilling required in accordance with approval/ETA. From screw lengths ≥ 245 mm, however, pilot-drilling to 1/3 of the screw length is advisable to guide the screw in the right direction (no screw wandering).
- The required edge and centre distances can be minimised for screws that are only exposed to tension.

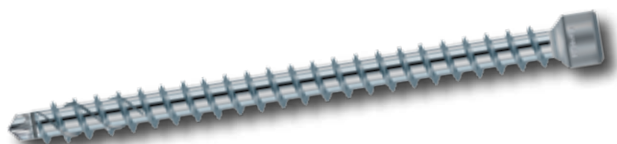
Advantages KonstruX fully threaded screw

- High extraction resistance
- Strong joints



KonstruX ST fully threaded screw

cylinder head, galvanised



Art. no.	Dimensions (mm)	Drive	PU
Ø 6,5 mm			
904808	6,5 x 80	TX30 ●	100
904809	6,5 x 100	TX30 ●	100
904810	6,5 x 120	TX30 ●	100
904811	6,5 x 140	TX30 ●	100
904812	6,5 x 160	TX30 ●	100
904813	6,5 x 195	TX30 ●	100
Ø 8,0 mm			
904825	8,0 x 155	TX40 ●	50
904826	8,0 x 195	TX40 ●	50
904827	8,0 x 220	TX40 ●	50
904828	8,0 x 245	TX40 ●	50
904829	8,0 x 295	TX40 ●	50
904830	8,0 x 330	TX40 ●	50
904831	8,0 x 375	TX40 ●	50
904832	8,0 x 400	TX40 ●	50
944804	8,0 x 430	TX40 ●	50
944805	8,0 x 480	TX40 ●	50
Ø 10,0 mm			
904815	10,0 x 300	TX50 ●	25
904816	10,0 x 330	TX50 ●	25
904817	10,0 x 360	TX50 ●	25
904818	10,0 x 400	TX50 ●	25
904819	10,0 x 450	TX50 ●	25
904820	10,0 x 500	TX50 ●	25
904821	10,0 x 550	TX50 ●	25
904822	10,0 x 600	TX50 ●	25

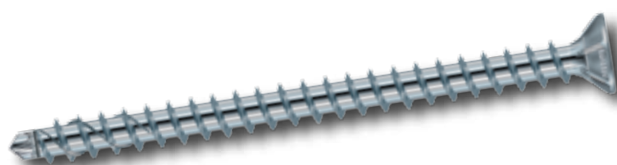
• With new drill point

Benefits of NEW drill point

- Reduced screwing torque
- Greater extraction resistance

**KonstruX ST fully threaded screw**

countersunk head, galvanised

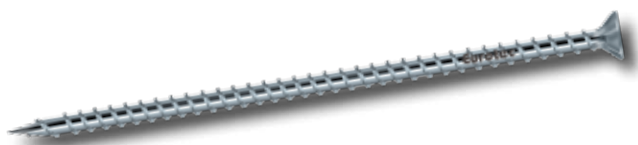


Art. no.	Dimensions (mm)	Drive	PU
Ø 8,0 mm			
904790	8,0 x 95	TX40 ●	50
904791	8,0 x 125	TX40 ●	50
904792	8,0 x 155	TX40 ●	50
904793	8,0 x 195	TX40 ●	50
904794	8,0 x 220	TX40 ●	50
904795	8,0 x 245	TX40 ●	50
904796	8,0 x 270	TX40 ●	50
904797	8,0 x 295	TX40 ●	50
904798	8,0 x 330	TX40 ●	50
904799	8,0 x 375	TX40 ●	50
904800	8,0 x 400	TX40 ●	50
904801	8,0 x 430	TX40 ●	50
904802	8,0 x 480	TX40 ●	50
Ø 10 mm			
904770	10,0 x 125	TX50 ●	25
904771	10,0 x 155	TX50 ●	25
904772	10,0 x 195	TX50 ●	25
904773	10,0 x 220	TX50 ●	25
904774	10,0 x 245	TX50 ●	25
904775	10,0 x 270	TX50 ●	25
904776	10,0 x 300	TX50 ●	25
904777	10,0 x 330	TX50 ●	25
904778	10,0 x 360	TX50 ●	25
904779	10,0 x 400	TX50 ●	25
904780	10,0 x 450	TX50 ●	25
904781	10,0 x 500	TX50 ●	25
904782	10,0 x 550	TX50 ●	25
904783	10,0 x 600	TX50 ●	25

• With new drill point

KonstruX fully threaded screw

countersunk head, galvanised



Art. no.	Dimensions (mm)	Drive	PU
905737	11,3 x 300	TX50 ●	20
905738	11,3 x 340	TX50 ●	20
905739	11,3 x 380	TX50 ●	20
905740	11,3 x 420	TX50 ●	20
905741	11,3 x 460	TX50 ●	20
905742	11,3 x 500	TX50 ●	20
905743	11,3 x 540	TX50 ●	20
905744	11,3 x 580	TX50 ●	20
905745	11,3 x 620	TX50 ●	20
905746	11,3 x 660	TX50 ●	20
905747	11,3 x 700	TX50 ●	20
905748	11,3 x 750	TX50 ●	20
905749	11,3 x 800	TX50 ●	20
904750	11,3 x 900	TX50 ●	20
904751	11,3 x 1000	TX50 ●	20

- with AG tip

Advantages AG screw tip

- Faster and easier screwing
- Reduced splitting effect

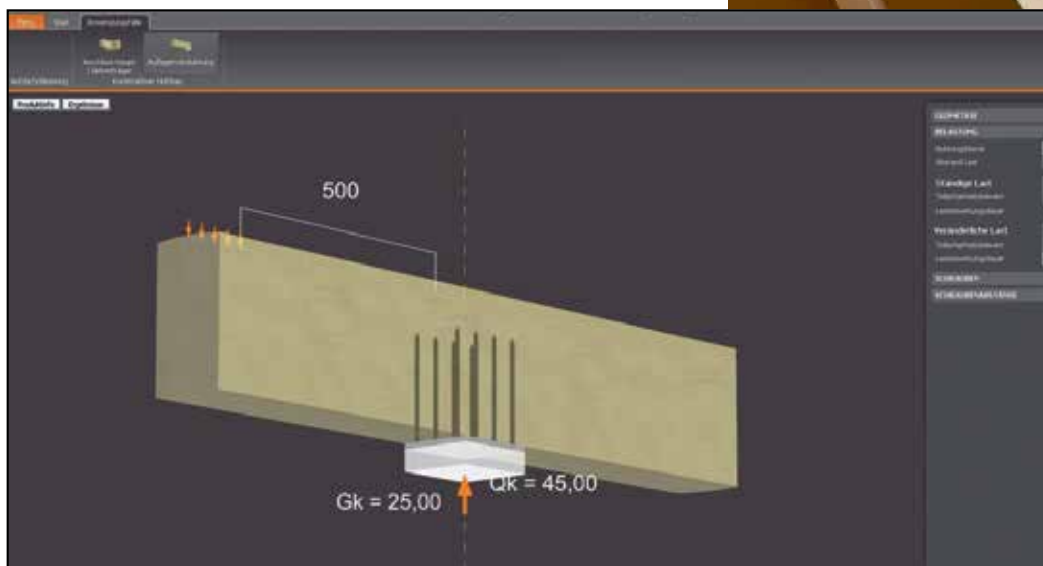
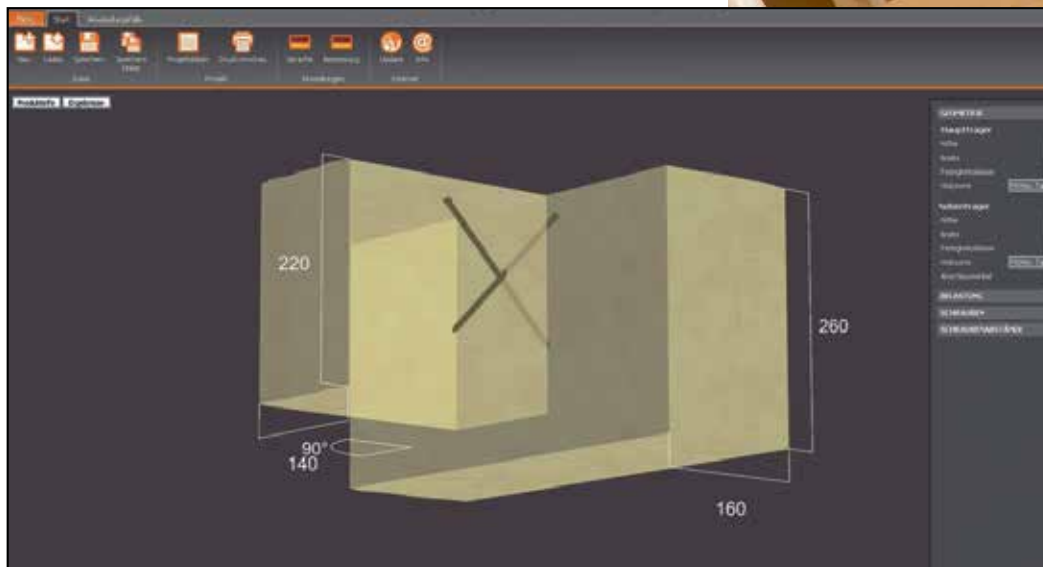


ECS calculation program for KonstruX

This user-friendly software allows pre-calculation of main-secondary beam connections, joist doubling and reinforcements of supports. Verifiable calculation aid in accordance with EN 1995 (Eurocode 5) and DIN 1052.

- **Ease of use**
- **Reliable planning**
- **Optimisation**

You can download the ECS software for free from our website:
www.e-u-r-o-tec.de

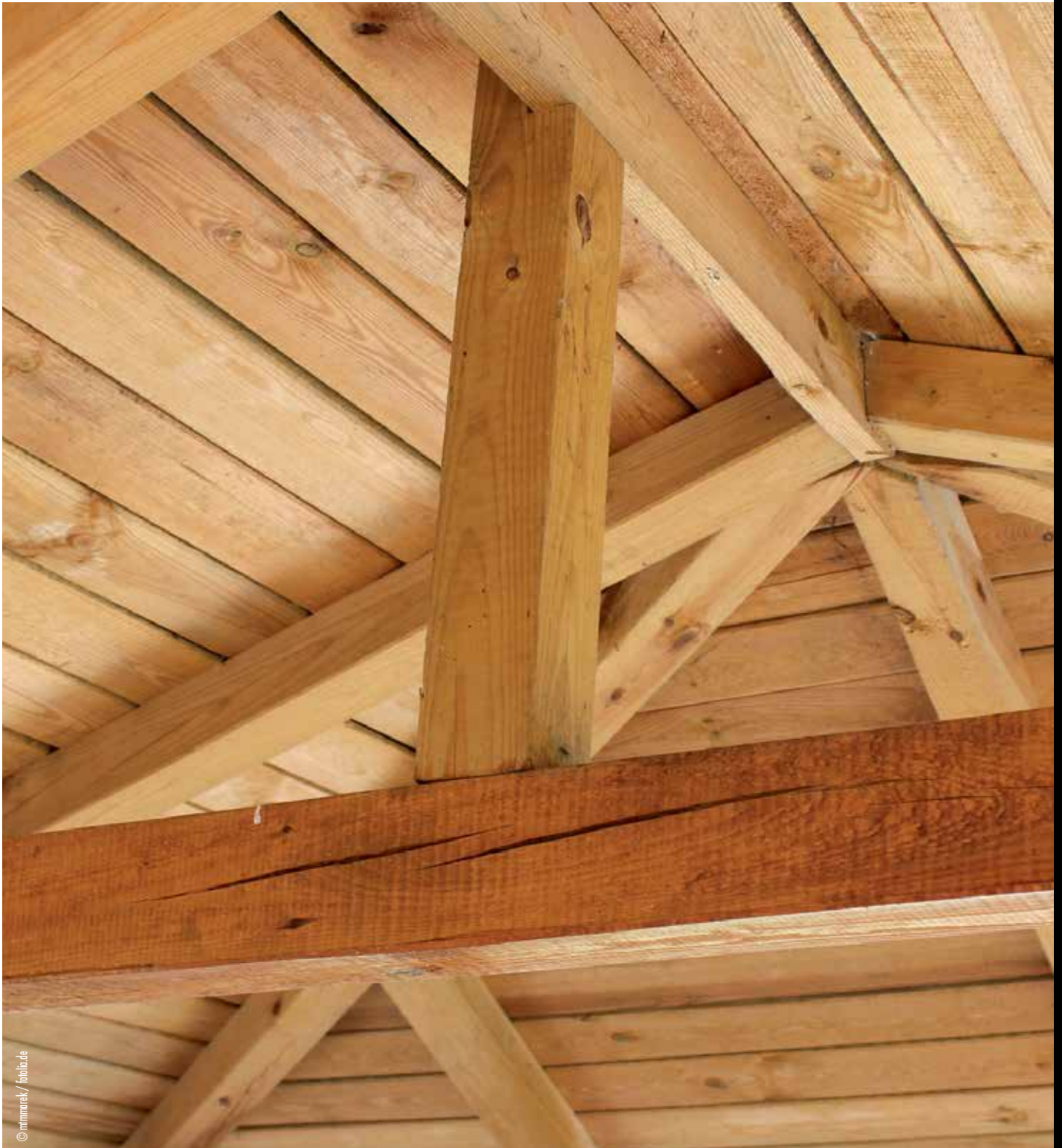


The fast and secure timber-joint system **KonstruX** cylinder-head/ countersunk-head screws

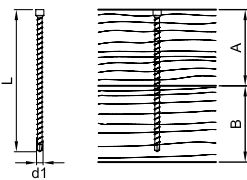
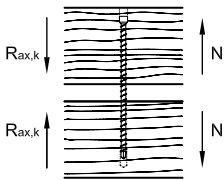
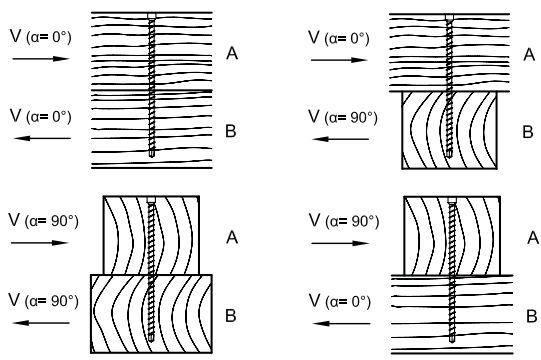
Example applications		Cylinder head			Countersunk head		
		Ø 6,5	Ø 8,0	Ø10,0	Ø 8,0	Ø 10,0	Ø 11,3
Timber–timber tensile loading	Timber–timber shearing	×	×	×	×	×	×
Timber–timber under tension at 45°	Timber–timber under tension at 45°	×	×	×	×	×	×
Steel–timber tensile loading	Steel–timber shearing	—	—	—	×	×	×
Timber–timber under tension at 45°	Timber–timber under tension at 45°	—	—	—	×	×	×
Main–secondary beam connection	Post–crosspiece connection	×	×	×	×	×	—
Support reinforcement	Support reinforcement	×	×	×	×	×	×
Transverse-shear reinforcement at notch	Transverse-shear reinforcement at opening	×	×	×	×	×	×
Joist doubling		—	×	×	×	×	×
Transverse-shear reinforcement of building trusses		—	—	×	—	×	×

KonstruX fully threaded screw

Technical information



KonstruX ST with cylinder head and new drill point 6,5 to 10,0 mm: timber/timber joints

Dimensions			Extraction resistance	Shearing			
							
			Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ acc. to ETA-11/0024	Characteristic value of the joint's load-bearing capacity R_k acc. to ETA-11/0024			
d1 x L [mm]	A [mm]	B [mm]	$R_{ax,k}^a$ - [kN]	R_k^a - [kN]	R_k^a - [kN]	R_k^a - [kN]	R_k^a - [kN]
				$\alpha = 0^\circ$	$\alpha = 90^\circ$	$\alpha_A = 0^\circ$	$\alpha_A = 90^\circ$
						$\alpha_B = 90^\circ$	$\alpha_B = 0^\circ$
6,5 x 120	60	80	4,75	3,93	3,47	3,93	3,47
6,5 x 140	80	80	4,75	3,93	3,47	3,47	3,93
6,5 x 160	80	100	6,33	4,32	3,86	4,32	3,86
6,5 x 195	100	100	7,52	4,62	4,16	4,16	4,62
8,0 x 155	80	80	7,11	5,67	4,99	4,99	5,67
8,0 x 195	100	100	9,01	6,15	5,46	5,46	6,15
8,0 x 220	120	120	9,48	6,27	5,58	5,58	6,27
8,0 x 245	120	140	11,38	6,74	6,06	6,74	6,06
8,0 x 295	140	160	13,28	7,21	6,42	7,21	6,42
8,0 x 330	160	180	15,17	7,69	6,42	7,69	6,42
8,0 x 375	180	200	17,07	7,79	6,42	7,79	6,42
8,0 x 400	200	220	18,97	7,79	6,42	7,79	6,42
8,0 x 430	220	220	19,92	7,79	6,42	6,42	7,79
8,0 x 480	240	260	22,76	7,79	6,42	7,79	6,42
10,0 x 300	160	160	16,15	9,48	8,48	8,48	9,48
10,0 x 330	160	180	18,46	10,06	8,90	10,06	8,90
10,0 x 360	180	200	20,76	10,64	8,90	10,64	8,90
10,0 x 400	200	220	23,07	10,89	8,90	10,89	8,90
10,0 x 450	220	240	25,38	10,89	8,90	10,89	8,90
10,0 x 500	240	280	27,68	10,89	8,90	10,89	8,90
10,0 x 550	260	300	29,99	10,89	8,90	10,89	8,90
10,0 x 600	300	320	33,00	10,89	8,90	10,89	8,90

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

All values are calculated minimum values and are subject to typographical and printing errors.

a) The characteristic values of the load-bearing capacity R_k cannot be treated as equivalent to the max. possible load (the max. force). Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \cdot k_{mod} / \gamma_M$. The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).

Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$.

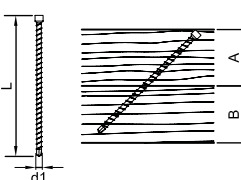
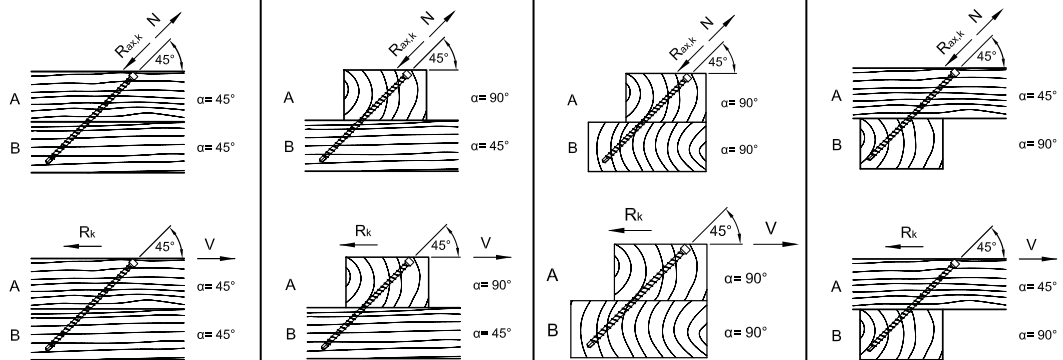
The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. → $\min R_k = R_d \cdot \gamma_M / k_{mod}$

i.e. the characteristic minimum value is calculated based on: $\min R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN}$ → comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX ST with cylinder head and new drill point

6,5 to 10,0 mm: timber/timber joints

Dimensions			Tension connection							
										
Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ or R_k acc. to ETA-11/0024										
d1 x L [mm]	A [mm]	B [mm]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]
			$\alpha = 45^\circ$		$\alpha_A = 90^\circ$ $\alpha_B = 45^\circ$		$\alpha_A = 90^\circ$ $\alpha_B = 90^\circ$		$\alpha_A = 45^\circ$ $\alpha_B = 90^\circ$	
6,5 x 160	60	80	5,95	4,21	5,95	4,21	5,95	4,21	5,95	4,21
6,5 x 195	80	80	6,48	4,58	6,48	4,58	6,48	4,58	6,48	4,58
8,0 x 155	60	60	6,65	4,70	6,65	4,70	6,65	4,70	6,65	4,70
8,0 x 195	80	80	7,76	5,49	7,76	5,49	7,76	5,49	7,76	5,49
8,0 x 220	80	100	10,13	7,17	10,13	7,17	10,13	7,17	10,13	7,17
8,0 x 245	100	100	9,82	6,95	9,82	6,95	9,82	6,95	9,82	6,95
8,0 x 295	120	100	11,88	8,40	11,88	8,40	11,88	8,40	11,88	8,40
8,0 x 330	120	140	15,20	10,75	15,20	10,75	15,20	10,75	15,20	10,75
8,0 x 375	140	140	16,79	11,87	16,79	11,87	16,79	11,87	16,79	11,87
8,0 x 400	160	140	16,48	11,65	16,48	11,65	16,48	11,65	16,48	11,65
8,0 x 430	160	160	19,32	13,66	19,32	13,66	19,32	13,66	19,32	13,66
8,0 x 480	180	180	21,38	15,12	21,38	15,12	21,38	15,12	21,38	15,12
10,0 x 300	120	120	15,03	10,63	15,03	10,63	15,03	10,63	15,03	10,63
10,0 x 330	120	140	18,49	13,07	18,49	13,07	18,49	13,07	18,49	13,07
10,0 x 360	140	140	18,69	13,21	18,69	13,21	18,69	13,21	18,69	13,21
10,0 x 400	160	140	20,04	14,17	20,04	14,17	20,04	14,17	20,04	14,17
10,0 x 450	160	180	25,81	18,25	25,81	18,25	25,81	18,25	25,81	18,25
10,0 x 500	180	200	28,31	20,02	28,31	20,02	28,31	20,02	28,31	20,02
10,0 x 550	200	200	30,82	21,79	30,82	21,79	30,82	21,79	30,82	21,79
10,0 x 600	220	220	33,00	23,33	33,00	23,33	33,00	23,33	33,00	23,33

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

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Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$.

The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$ → $\min R_k = R_d \cdot \gamma_M / k_{mod}$

i.e. the characteristic minimum value is calculated based on: $\min. R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3/0,9 = 10,40 \text{ kN}$ → comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX ST with countersunk head and new drill point 8,0 and 10,0 mm: timber/timber joints

Dimensions			Extraction resistance	Shearing			
			Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ acc. to ETA-11/0024	Characteristic value of the joint's load-bearing capacity R_k acc. to ETA-11/0024			
d1 x L [mm]	A [mm]	B [mm]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_k^{a)}$ - [kN]
				$\alpha = 0^\circ$	$\alpha = 90^\circ$	$\alpha_A = 0^\circ$	$\alpha_A = 90^\circ$
						$\alpha_B = 90^\circ$	$\alpha_B = 0^\circ$
8,0 x 95	40	60	3,08	4,61	3,57	4,61	3,57
8,0 x 125	60	80	4,61	5,05	4,37	5,05	4,37
8,0 x 155	80	80	7,11	5,67	4,99	4,99	5,67
8,0 x 195	100	100	9,01	6,15	5,46	5,46	6,15
8,0 x 220	120	120	9,48	6,27	5,58	5,58	6,27
8,0 x 245	120	140	11,38	6,74	6,06	6,74	6,06
8,0 x 270	140	140	12,33	6,98	6,29	6,29	6,98
8,0 x 295	140	160	13,28	7,21	6,42	7,21	6,42
8,0 x 330	160	180	15,17	7,69	6,42	7,69	6,42
8,0 x 375	180	200	17,07	7,79	6,42	7,79	6,42
8,0 x 400	200	220	18,97	7,79	6,42	7,79	6,42
8,0 x 430	220	220	19,92	7,79	6,42	6,42	7,79
8,0 x 480	240	260	22,76	7,79	6,42	7,79	6,42
10,0 x 125	60	80	6,92	7,18	6,18	7,18	6,18
10,0 x 155	80	80	8,65	7,61	6,61	6,61	7,61
10,0 x 195	100	100	10,96	8,19	7,19	7,19	8,19
10,0 x 220	120	120	11,53	8,33	7,33	7,33	8,33
10,0 x 245	120	140	13,84	8,91	7,91	8,91	7,91
10,0 x 270	140	140	14,99	9,20	8,20	8,20	9,20
10,0 x 300	160	160	16,15	9,48	8,48	8,48	9,48
10,0 x 330	160	180	18,46	10,06	8,90	10,06	8,90
10,0 x 360	180	200	20,76	10,64	8,90	10,64	8,90
10,0 x 400	200	220	23,07	10,89	8,90	10,89	8,90
10,0 x 450	220	240	25,38	10,89	8,90	10,89	8,90
10,0 x 500	240	280	27,68	10,89	8,90	10,89	8,90
10,0 x 550	260	300	29,99	10,89	8,90	10,89	8,90
10,0 x 600	300	320	33,00	10,89	8,90	10,89	8,90

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

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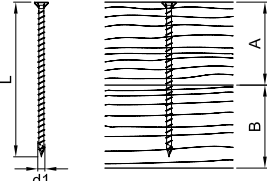
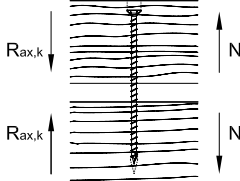
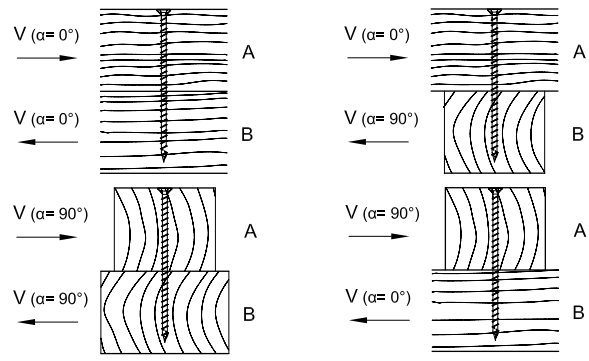
Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$. \rightarrow Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$. The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. $\rightarrow \min R_k = R_d \cdot \gamma_M / k_{mod}$ i.e. the characteristic minimum value is calculated based on: $\min R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN} \rightarrow$ comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX with countersunk head and AG tip

11,3 mm: timber – timber connection

Dimensions			Extraction resistance	Shearing			
							
			Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ acc. to ETA-11/0024	Characteristic value of the joint's load-bearing capacity R_k acc. to ETA-11/0024			
$d1 \times L$ [mm]	A [mm]	B [mm]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN] $\alpha = 0^\circ$	$R_k^{a)}$ - [kN] $\alpha = 90^\circ$	$R_k^{a)}$ - [kN] $\alpha_A = 0^\circ$ $\alpha_B = 90^\circ$	$R_k^{a)}$ - [kN] $\alpha_A = 90^\circ$ $\alpha_B = 0^\circ$
11,3 x 300	160	160	18,25	12,17	10,73	10,73	12,17
11,3 x 340	180	180	20,85	12,82	11,38	11,38	12,82
11,3 x 380	200	200	23,46	13,47	12,03	12,03	13,47
11,3 x 420	220	220	26,07	14,12	12,34	12,34	14,12
11,3 x 460	240	240	26,67	14,77	12,34	12,34	14,77
11,3 x 500	260	260	31,28	15,21	12,34	12,34	15,21
11,3 x 540	280	280	33,89	15,21	12,34	12,34	15,21
11,3 x 580	300	300	36,49	15,21	12,34	12,34	15,21
11,3 x 620	320	320	39,10	15,21	12,34	12,34	15,21
11,3 x 660	340	340	41,71	15,21	12,34	12,34	15,21
11,3 x 700	360	360	44,32	15,21	12,34	12,34	15,21
11,3 x 750	380	380	48,23	15,21	12,34	12,34	15,21
11,3 x 800	400	420	50,00	15,21	12,34	15,21	12,34
11,3 x 900	460	460	50,00	15,21	12,34	12,34	15,21
11,3 x 1000	500	520	50,00	15,21	12,34	15,21	12,34

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

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Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

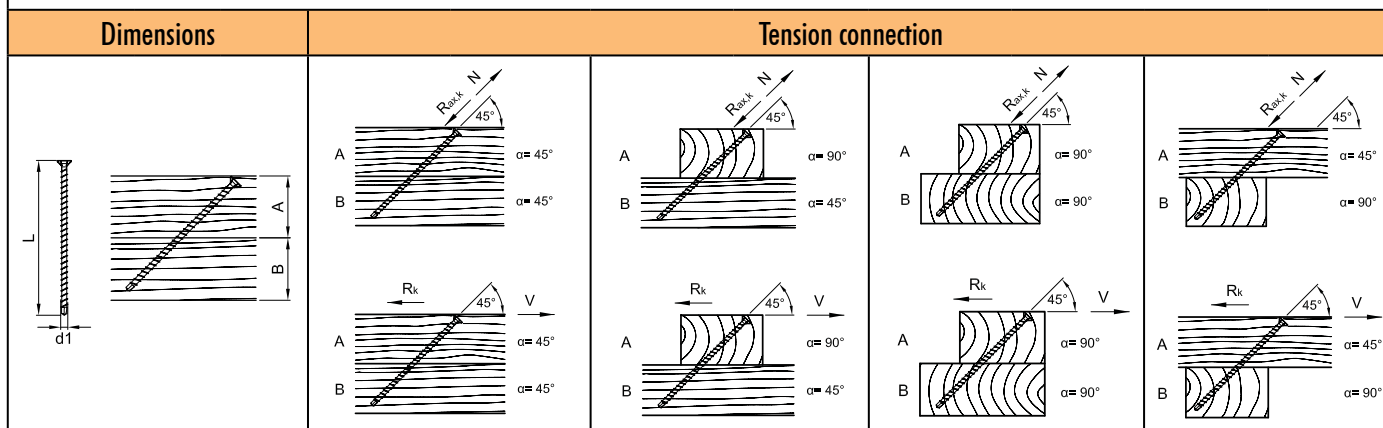
→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$.

The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. → $\min R_k = R_d \cdot \gamma_M / k_{mod}$

i.e. the characteristic minimum value is calculated based on: $\min. R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN}$ → comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX ST with countersunk head and new drill point 8,0 und 10,0 mm: timber – timber connection



Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ or R_k acc. to ETA-11/0024

d1 x L [mm]	A [mm]	B [mm]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]	$R_{ax,k}^{a)}$ - [kN]	$R_k^{a)}$ - [kN]
			$\alpha = 45^\circ$		$\alpha_A = 90^\circ$ $\alpha_B = 45^\circ$		$\alpha_A = 90^\circ$ $\alpha_B = 90^\circ$		$\alpha_A = 45^\circ$ $\alpha_B = 90^\circ$	
8,0 x 155	60	60	6,65	4,70	6,65	4,70	6,65	4,70	6,65	4,70
8,0 x 195	80	80	7,76	5,49	7,76	5,49	7,76	5,49	7,76	5,49
8,0 x 220	80	100	10,13	7,17	10,13	7,17	10,13	7,17	10,13	7,17
8,0 x 245	100	100	9,82	6,95	9,82	6,95	9,82	6,95	9,82	6,95
8,0 x 270	100	120	12,19	8,62	12,19	8,62	12,19	8,62	12,19	8,62
8,0 x 295	120	100	11,88	8,40	11,88	8,40	11,88	8,40	11,88	8,40
8,0 x 330	120	140	15,20	10,75	15,20	10,75	15,20	10,75	15,20	10,75
8,0 x 375	140	140	16,79	11,87	16,79	11,87	16,79	11,87	16,79	11,87
8,0 x 400	160	140	16,48	11,65	16,48	11,65	16,48	11,65	16,48	11,65
8,0 x 430	160	160	19,32	13,66	19,32	13,66	19,32	13,66	19,32	13,66
8,0 x 480	180	180	21,38	15,12	21,38	15,12	21,38	15,12	21,38	15,12
10,0 x 220	80	100	12,33	8,72	12,33	8,72	12,33	8,72	12,33	8,72
10,0 x 245	100	100	11,95	8,45	11,95	8,45	11,95	8,45	11,95	8,45
10,0 x 270	100	120	14,83	10,49	14,83	10,49	14,83	10,49	14,83	10,49
10,0 x 300	120	120	15,03	10,63	15,03	10,63	15,03	10,63	15,03	10,63
10,0 x 330	120	140	18,49	13,07	18,49	13,07	18,49	13,07	18,49	13,07
10,0 x 360	140	140	18,69	13,21	18,69	13,21	18,69	13,21	18,69	13,21
10,0 x 400	160	140	20,04	14,17	20,04	14,17	20,04	14,17	20,04	14,17
10,0 x 450	160	180	25,81	18,25	25,81	18,25	25,81	18,25	25,81	18,25
10,0 x 500	180	200	28,31	20,02	28,31	20,02	28,31	20,02	28,31	20,02
10,0 x 550	200	200	30,82	21,79	30,82	21,79	30,82	21,79	30,82	21,79
10,0 x 600	220	220	33,00	23,33	33,00	23,33	33,00	23,33	33,00	23,33

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

All values are calculated minimum values and are subject to typographical and printing errors.

a) The characteristic values of the load-bearing capacity R_k cannot be treated as equivalent to the max. possible load (the max. force). Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \cdot k_{mod} / \gamma_M$. The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).

Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$.

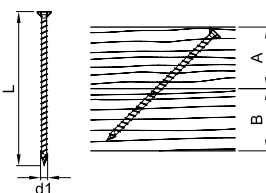
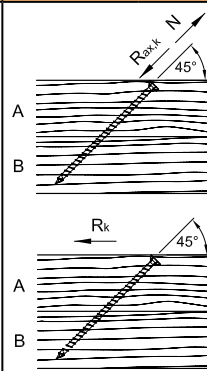
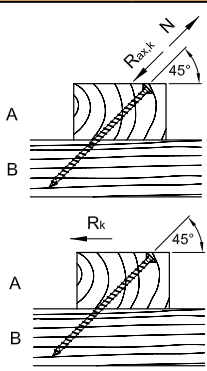
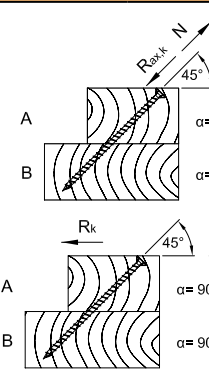
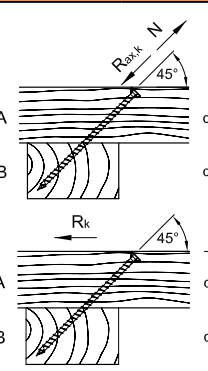
The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. → $\min R_k = R_d \cdot \gamma_M / k_{mod}$

i.e. the characteristic minimum value is calculated based on: $\min R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN}$ → comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX with countersunk head and AG tip

11,3 mm: timber – timber connection

Dimensions			Tension connection							
										
Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ or R_k acc. to ETA-11/0024										
d1 x L [mm]	A [mm]	B [mm]	$R_{ax,k}^a$ - [kN]	R_k^a - [kN]	$R_{ax,k}^a$ - [kN]	R_k^a - [kN]	$R_{ax,k}^a$ - [kN]	R_k^a - [kN]	$R_{ax,k}^a$ - [kN]	R_k^a - [kN]
			$\alpha = 45^\circ$		$\alpha_A = 90^\circ$ $\alpha_B = 45^\circ$		$\alpha_A = 90^\circ$ $\alpha_B = 90^\circ$		$\alpha_A = 45^\circ$ $\alpha_B = 90^\circ$	
11,3 x 300	120	120	16,98	12,01	16,98	12,01	16,98	12,01	16,98	12,01
11,3 x 340	140	120	18,51	13,09	18,51	13,09	18,51	13,09	18,51	13,09
11,3 x 380	140	140	23,72	16,77	23,72	16,77	23,72	16,77	23,72	16,77
11,3 x 420	160	160	25,25	17,85	25,25	17,85	25,25	17,85	25,25	17,85
11,3 x 460	180	160	26,78	18,93	26,78	18,93	26,78	18,93	26,78	18,93
11,3 x 500	180	200	31,99	22,62	31,99	22,62	31,99	22,62	31,99	22,62
11,3 x 540	200	200	33,52	23,70	33,52	23,70	33,52	23,70	33,52	23,70
11,3 x 580	220	220	35,04	24,78	35,04	24,78	35,04	24,78	35,04	24,78
11,3 x 620	220	240	40,26	28,47	40,26	28,47	40,26	28,47	40,26	28,47
11,3 x 660	240	240	41,79	29,55	41,79	29,55	41,79	29,55	41,79	29,55
11,3 x 700	260	260	43,31	30,63	43,31	30,63	43,31	30,63	43,31	30,63
11,3 x 750	280	280	46,14	32,63	46,14	32,63	46,14	32,63	46,14	32,63
11,3 x 800	300	280	48,97	34,63	48,97	34,63	48,97	34,63	48,97	34,63
11,3 x 900	320	340	50,00	35,36	50,00	35,36	50,00	35,36	50,00	35,36
11,3 x 1000	360	360	50,00	35,36	50,00	35,36	50,00	35,36	50,00	35,36

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

All values are calculated minimum values and are subject to typographical and printing errors.

a) The characteristic values of the load-bearing capacity R_k cannot be treated as equivalent to the max. possible load (the max. force). Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \cdot k_{mod} / \gamma_M$. The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).

Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$.

The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. → $\min R_k = R_d \cdot \gamma_M / k_{mod}$
i.e. the characteristic minimum value is calculated based on: $\min. R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN}$ → comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX ST with countersunk head and new drill point 8,0 und 10,0 mm: steel – timber connection

Dimensions				Extraction resistance	Tension connection				Shearing	
				Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ acc. to ETA-11/0024	Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ to R_k acc. to ETA-11/0024				Characteristic value of the joint's load-bearing capacity R_k acc. to ETA-11/0024	
$d1 \times L$ [mm]	t [mm]	B [mm]	B_{45° [mm]	$R_{ax,k}^a$ - [kN]	$R_{ax,k}^a$ - [kN] $\alpha = 45^\circ$	$R_{ax,k}^a$ - [kN] $\alpha = 90^\circ$	R_k^a - [kN] $\alpha = 45^\circ$	R_k^a - [kN] $\alpha = 90^\circ$	R_k^a - [kN] $\alpha = 0^\circ$	R_k^a - [kN] $\alpha = 90^\circ$
8,0 x 95	15	100	80	7,59	7,00	7,00	4,95	4,95	6,18	5,22
8,0 x 125	15	120	100	10,43	9,84	9,84	6,96	6,96	6,18	5,22
8,0 x 155	15	160	120	13,28	12,69	12,69	8,97	8,97	6,18	5,22
8,0 x 195	15	200	140	17,07	16,48	16,48	11,65	11,65	6,18	5,22
8,0 x 220	15	220	160	19,44	18,85	18,85	13,33	13,33	6,18	5,22
8,0 x 245	15	240	180	21,81	21,22	21,22	15,01	15,01	6,18	5,22
8,0 x 270	15	280	200	24,18	23,59	23,59	16,68	16,68	6,18	5,22
8,0 x 295	15	300	220	25,00	25,00	25,00	17,68	17,68	6,18	5,22
8,0 x 330	15	340	240	25,00	25,00	25,00	17,68	17,68	6,18	5,22
8,0 x 375	15	380	280	25,00	25,00	25,00	17,68	17,68	6,18	5,22
8,0 x 400	15	400	280	25,00	25,00	25,00	17,68	17,68	6,18	5,22
8,0 x 430	15	440	300	25,00	25,00	25,00	17,68	17,68	6,18	5,22
8,0 x 480	15	480	340	25,00	25,00	25,00	17,68	17,68	6,18	5,22
10,0 x 125	15	120	100	12,69	11,97	11,97	8,46	8,46	8,72	7,30
10,0 x 155	15	160	120	16,15	15,43	15,43	10,91	10,91	8,72	7,30
10,0 x 195	15	200	140	20,76	20,05	20,05	14,17	14,17	8,72	7,30
10,0 x 220	15	220	160	23,65	22,93	22,93	16,21	16,21	8,72	7,30
10,0 x 245	15	240	180	26,53	25,81	25,81	18,25	18,25	8,72	7,30
10,0 x 270	15	280	200	29,41	28,70	28,70	20,29	20,29	8,72	7,30
10,0 x 300	15	300	220	32,87	32,16	32,16	22,74	22,74	8,72	7,30
10,0 x 330	15	340	240	33,00	33,00	33,00	23,33	23,33	8,72	7,30
10,0 x 360	15	360	260	33,00	33,00	33,00	23,33	23,33	8,72	7,30
10,0 x 400	15	400	280	33,00	33,00	33,00	23,33	23,33	8,72	7,30
10,0 x 450	15	460	320	33,00	33,00	33,00	23,33	23,33	8,72	7,30
10,0 x 500	15	500	360	33,00	33,00	33,00	23,33	23,33	8,72	7,30
10,0 x 550	15	560	400	33,00	33,00	33,00	23,33	23,33	8,72	7,30
10,0 x 600	15	600	420	33,00	33,00	33,00	23,33	23,33	8,72	7,30

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

All values are calculated minimum values and are subject to typographical and printing errors.

a) The characteristic values of the load-bearing capacity R_k cannot be treated as equivalent to the max. possible load (the max. force). Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \cdot \gamma_M / k_{mod}$. The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).

Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$.

The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. → $\min R_k = R_d \cdot \gamma_M / k_{mod}$
i.e. the characteristic minimum value is calculated based on: $\min R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN}$ → comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX with countersunk head and AG tip

11,3 mm: steel – timber connection

Dimensions				Extraction resistance	Tension connection				Shearing	
				Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ acc. to ETA-11/0024	Characteristic value of the joint's load-bearing capacity $R_{ax,k}$ to R_k acc. to ETA-11/0024				Characteristic value of the joint's load-bearing capacity R_k acc. to ETA-11/0024	
$d1 \times L$ [mm]	t [mm]	B [mm]	B_{45° [mm]	$R_{ax,k}^{a)} - [kN]$	$R_{ax,k}^{a)} - [kN]$	$R_{ax,k}^{a)} - [kN]$	$R_k^{a)} - [kN]$	$R_k^{a)} - [kN]$	$R_k^{a)} - [kN]$	$R_k^{a)} - [kN]$
					$\alpha = 45^\circ$	$\alpha = 90^\circ$	$\alpha = 45^\circ$	$\alpha = 90^\circ$	$\alpha = 0^\circ$	$\alpha = 90^\circ$
11,3 x 300	20	300	220	36,49	35,42	35,42	25,04	25,04	11,79	9,76
11,3 x 340	20	340	240	41,71	40,63	40,63	28,73	28,73	11,79	9,76
11,3 x 380	20	380	260	46,92	45,84	45,84	32,42	32,42	11,79	9,76
11,3 x 420	20	420	300	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 460	20	460	320	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 500	20	500	360	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 540	20	540	380	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 580	20	580	420	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 620	20	620	440	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 660	20	660	460	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 700	20	700	500	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 750	20	740	540	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 800	20	800	560	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 900	20	900	640	50,00	50,00	50,00	35,36	35,36	11,79	9,76
11,3 x 1000	20	1000	700	50,00	50,00	50,00	35,36	35,36	11,79	9,76

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

All values are calculated minimum values and are subject to typographical and printing errors.

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Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

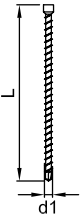
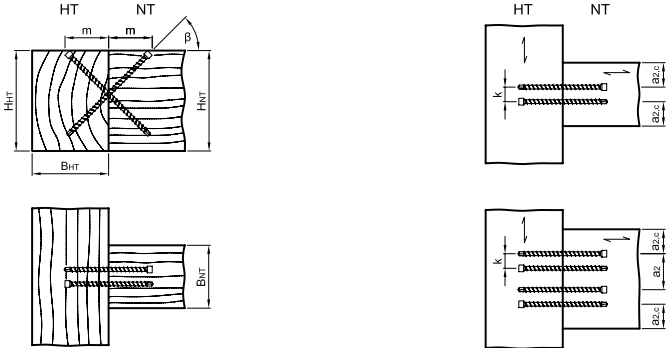
→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$.

The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. → $\min R_k = R_d \cdot \gamma_M / k_{mod}$

i.e. the characteristic minimum value is calculated based on: $\min. R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3/0,9 = 10,40 \text{ kN}$ → comparison with table values.

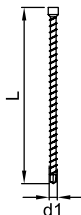
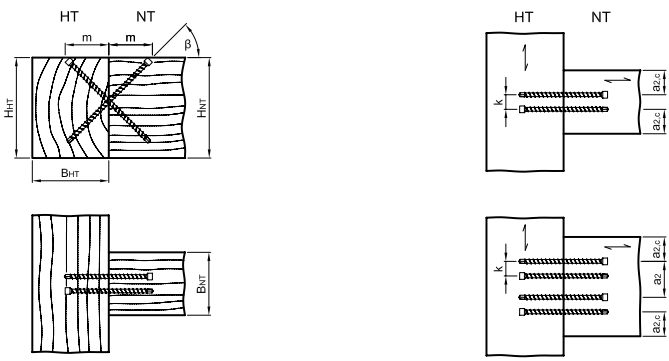
Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX ST with cylinder head and new drill point 6,5 mm: Main - secondary beam connection

Dimensions		Main - secondary beam connection						
								
	$a_2 = \text{min. } 33 \text{ mm}, a_{2k} = \text{min. } 20 \text{ mm}, k = \text{min. } 10 \text{ mm}$						Characteristic value of the joint's load-bearing capacity $R_{v,k}$ acc. to ETA-11/0024	
$d1 \times L$ [mm]	min. B_{NT} [mm]	min. H_{NT} [mm]	min. B_{HT} [mm]	min. H_{HT} [mm]	m [mm]	β °	$R_{v,k}$ ^{a) b)} - [kN]	Pair (n)
6,5 x 195	60	160	80	160	69	45	10,91	1
	100						20,36	2
	120						29,33	3
	160						38,00	4
<p>Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations. All values are calculated minimum values and are subject to typographical and printing errors.</p> <p>a) The characteristic values of the load-bearing capacity R_k cannot be treated as equivalent to the max. possible load (the max. force). Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \cdot k_{mod} / \gamma_M$. The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).</p> <p>Example: Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$. → Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$. The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. → $\text{min } R_k = R_d \cdot \gamma_M / k_{mod}$ i.e. the characteristic minimum value is calculated based on: $\text{min. } R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN}$ → comparison with table values.</p> <p>b) estimated with an efficient quantity of pairs of screws: $n^{0,9}$.</p>								
Please note: These are planning aids. Projects must only be calculated by authorised persons.								

KonstruX ST with cylinder head and new drill point

8,0 mm: Main - secondary beam connection

Dimensions		Main - secondary beam connection						
								
		$a_2 = \text{min. } 40 \text{ mm}, a_{z1} = \text{min. } 24 \text{ mm}, k = \text{min. } 12 \text{ mm}$					Characteristic value of the joint's load-bearing capacity $R_{v,k}$ acc. to ETA-11/0024	
$d1 \times L$ [mm]	min. B_{NT} [mm]	min. H_{NT} [mm]	min. B_{HT} [mm]	min. H_{HT} [mm]	m [mm]	β °	$R_{v,k}^{a) b)}$ - [kN]	Pair (n)
8,0 x 245	80	200	100	200	87	45	16,43	1
	100						30,66	2
	140						44,16	3
	180						57,21	4
8,0 x 295	80	220	120	220	104	45	19,78	1
	100						36,92	2
	140						53,17	3
	180						68,89	4
8,0 x 330	80	260	140	260	117	45	22,13	1
	100						41,30	2
	140						59,48	3
	180						77,06	4
8,0 x 375	80	280	160	280	133	45	25,15	1
	100						46,93	2
	140						67,59	3
	180						87,57	4
8,0 x 400	80	300	160	300	141	45	26,82	1
	100						50,06	2
	140						72,10	3
	180						93,41	4
8,0 x 430	80	320	180	320	152	45	28,84	1
	100						53,81	2
	140						77,51	3
	180						100,41	4
8,0 x 480	80	360	180	360	170	45	32,19	1
	100						60,07	2
	140						86,52	3
	180						112,09	4

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

All values are calculated minimum values and are subject to typographical and printing errors.

a) The characteristic values of the load-bearing capacity R_k cannot be treated as equivalent to the max. possible load (the max. force). Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \cdot k_{mod} / \gamma_M$. The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).

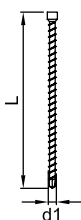
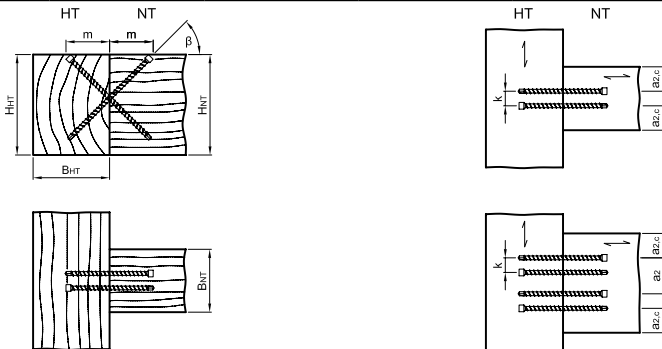
Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$, $\gamma_M = 1,3$. \rightarrow Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$. The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. \rightarrow min $R_k = R_d \cdot \gamma_M / k_{mod}$ i.e. the characteristic minimum value is calculated based on: min. $R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN}$ \rightarrow comparison with table values.

b) estimated with an efficient quantity of pairs of screws: $n^{0,9}$.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

KonstruX ST with cylinder head and new drill point 10,0 mm: Main - secondary beam connection

Dimensions		Main - secondary beam connection						
								
	$a_2 = \text{min. } 50 \text{ mm}, a_{2L} = \text{min. } 30 \text{ mm}, k = \text{min. } 15 \text{ mm}$							Characteristic value of the joint's load-bearing capacity R_{yk} acc. to ETA-11/0024
d1 x L [mm]	min. B _{NT} [mm]	min. H _{NT} [mm]	min. B _{HT} [mm]	min. H _{HT} [mm]	m [mm]	β °	R_{yk} ^{a) b)} - [kN]	Pair (n)
10,0 x 300	80	240	120	240	106	45	24,47	1
	140						45,66	2
	180						65,77	3
	240						85,20	4
10,0 x 330	80	260	140	260	117	45	26,92	1
	140						50,23	2
	180						72,34	3
	240						93,72	4
10,0 x 360	80	280	140	280	127	45	29,36	1
	140						54,79	2
	180						78,92	3
	240						102,24	4
10,0 x 400	80	300	160	300	141	45	32,62	1
	140						60,88	2
	180						87,69	3
	240						113,60	4
10,0 x 450	80	340	180	340	159	45	36,70	1
	140						68,49	2
	180						98,65	3
	240						127,80	4
10,0 x 500	80	380	200	380	177	45	40,78	1
	140						76,10	2
	180						109,61	3
	240						142,01	4
10,0 x 550	80	400	220	400	194	45	44,86	1
	140						83,71	2
	180						120,57	3
	240						156,21	4
10,0 x 600	80	440	240	440	212	45	46,67	1
	140						87,09	2
	180						125,44	3
	240						162,51	4

Calculation according to ETA-11/0024. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

All values are calculated minimum values and are subject to typographical and printing errors.

a) The characteristic values of the load-bearing capacity R_k cannot be treated as equivalent to the max. possible load (the max. force). Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \cdot k_{mod} / \gamma_M$. The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).

Example:

Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$.

The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$. → $\min R_k = R_d \cdot \gamma_M / k_{mod}$

i.e. the characteristic minimum value is calculated based on: $\min. R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3 / 0,9 = 10,40 \text{ kN}$ → comparison with table values.

b) estimated with an efficient quantity of pairs of screws: n^3 .

Please note: These are planning aids. Projects must only be calculated by authorised persons.

IdeeFix 30/40/50

Hidden wood connector



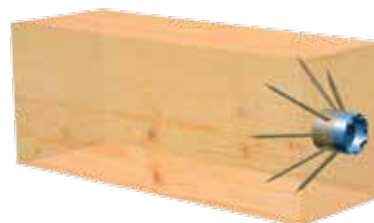
IdeeFix 30/40/50

- Hidden wood connector
- High load absorption for tensile and transverse loads
- Adjustable tension/detachable
- Universal application
- Low wood-weakening effect
- Quick and easy installation
- For single- or multiple-row serial connections
- Comes supplied with system screws

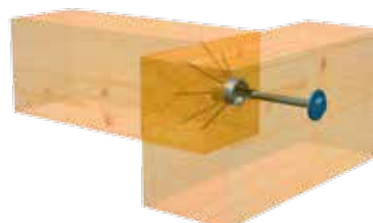
1 Drill



2 Insert and install supplied screws



3 Fix construction in place with construction screws – and THAT'S IT!



IdeeFix 30



Art. no.	Diameter/Height (mm)	PU
945390	30	25
incl. fully threaded screws, 5,0 x 40 mm		

IdeeFix 40



Art. no.	Diameter/Height (mm)	PU
944890	40	25
incl. fully threaded screws, 6,0 x 60 mm		

IdeeFix 50

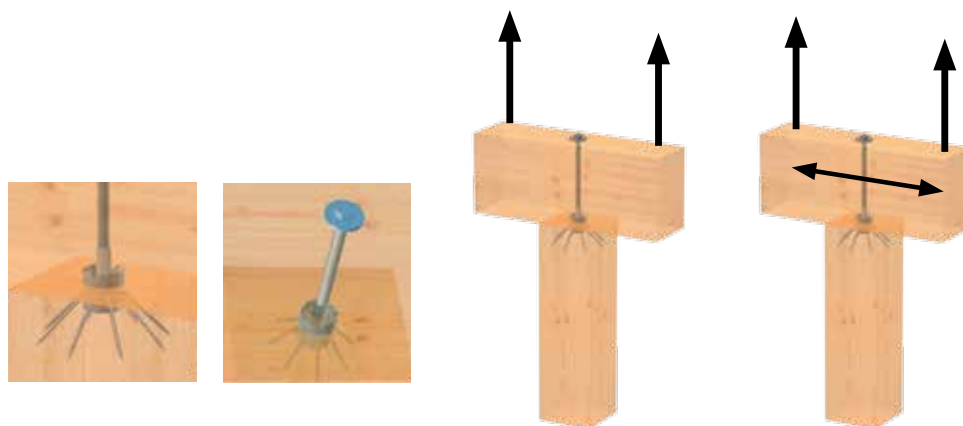


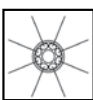
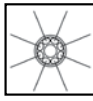

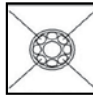
Art. no.	Diameter/Height (mm)	PU
944896	50	25
incl. fully threaded screws, 8,0 x 90 mm		



IdeeFix 30/40/50

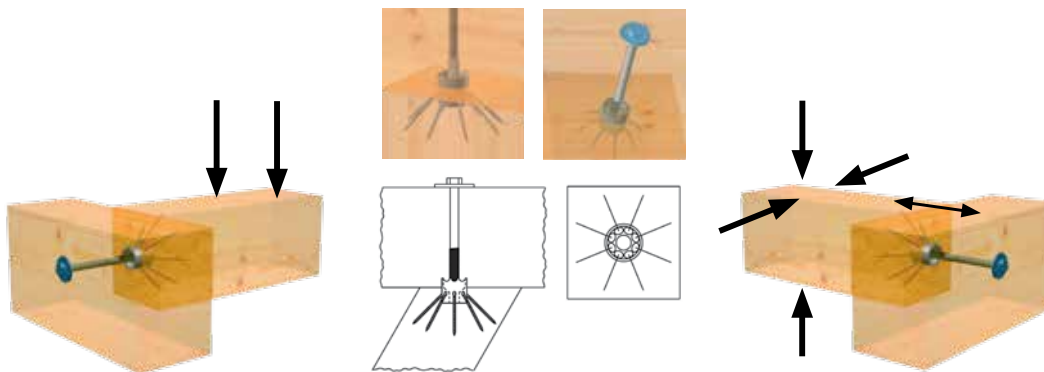
Technical information



Idee Fix			Timber Dimensions		Tension connection with anti-twist element		Mortise joint with anti-twist element		Tensile load with threaded bolt		
Dimensions [mm]			Min. cross section post		Drilling depth for post	Drilling depth for cross-piece	Drilling depth for post	Drilling depth for cross-piece	Perm. values	Char. Values	Screw pattern
d _c	a _g	v _c	mm	mm	mm	mm	mm	mm	N _{ze} [kN]	R _{1,k} [kN]	pc.
30	M12	3	80	80	27	-	20	7	7,62	17,33	
40	M16	5	120	120	35	-	25	10	12,65	28,79	
50	M20	5	160	160	45	-	30	15	20,81	47,35	
30	M12	3	60	80	27	-	20	7	5,71	13,00	
40	M16	5	80	120	35	-	25	10	9,49	21,59	
50	M20	5	120	160	45	-	30	15	15,61	35,51	
30	M12	3	40	80	27	-	20	7	3,81	8,67	
40	M16	5	60	120	35	-	25	10	6,33	14,39	
50	M20	5	80	160	45	-	30	15	10,41	23,67	
30	M12	3	60	60	27	-	20	7	3,81	8,67	
40	M16	5	80	80	35	-	25	10	6,33	14,39	
50	M20	5	120	120	45	-	30	15	10,41	23,67	
d _c is the diameter and the total height of the connector, a _g is the metric connection thread of the connector, v _c is the height of the integrated anti-twist system - Fully threaded screw, GoFix® FK IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm					The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer		Tension connection as a mortise joint with simultaneous absorption of transverse forces		R _k characteristic value calculated according to DIN 1052:2004-08 Timber p _k 380 kg/m³ Nze. recommended permissible load R _{k,k} x 0,8 k _{mod} : 1,3 ym : 1,4. Factor 1,4 average load safety factor		
Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.											

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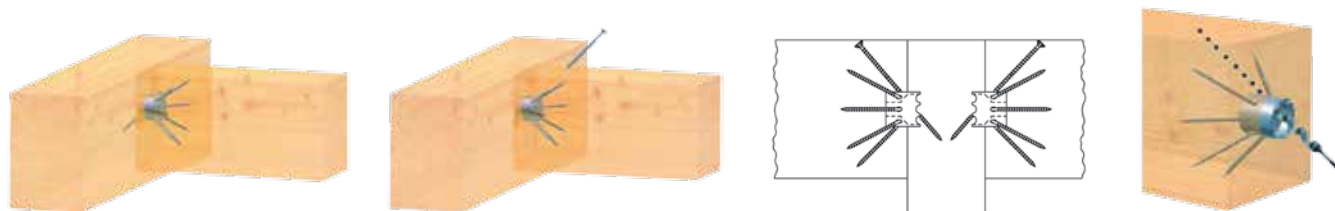
MAIN-SECONDARY BEAM



IdeeFix			Timber Dimensions		Timber Dimension		Main–secondary beam with anti-twist element		Load-bearing capacity with threaded bolt		
Dimensions [mm]			Min. cross section of secondary beam		Min. cross section of main beam		Drilling depth for SB	Drilling depth for MB	Perm. values	Char. Values	Screw pattern
d _c	a _g	v _c	w [mm]	h [mm]	w [mm]	h [mm]	mm	mm	V _{ze} [kN]	R _{23,k} [kN]	pc.
30	M12	3	80	80	80	80	20	7	4,32	8,94	
40	M16	5	120	120	120	120	25	10	6,98	14,66	
50	M20	5	160	160	160	160	30	15	10,88	21,09	
30	M12	3	60	80	60	80	20	7	3,50	7,97	
40	M16	5	80	120	80	120	25	10	5,63	12,80	
50	M20	5	120	160	120	160	30	15	8,65	19,68	
30	M12	3	40	80	40	80	20	7	3,50	7,97	
40	M16	5	60	120	60	120	25	10	5,63	12,80	
50	M20	5	80	160	80	160	30	15	8,65	19,68	
30	M12	3	60	60	60	60	20	7	3,50	7,97	
40	M16	5	80	80	80	80	25	10	5,63	12,80	
50	M20	5	120	120	120	120	30	15	8,65	19,68	
d _c is the diameter and the total height of the connector, a _g is the metric connection thread of the connector, v _c is the height of the integrated anti-twist system – Fully threaded screw, GoFix® FK IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm						The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer		MB–SB connection as a mortise joint with simultaneous absorption of tensile forces		R _k characteristic value calculated according to DIN 1052:2004-08 Timber p _k 380 kg/m³ Nze. recommended permissible load R _{k,k} x 0,8 k _{mod} : 1,3 ym : 1,4. Factor 1.4 average load safety factor	
Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.											

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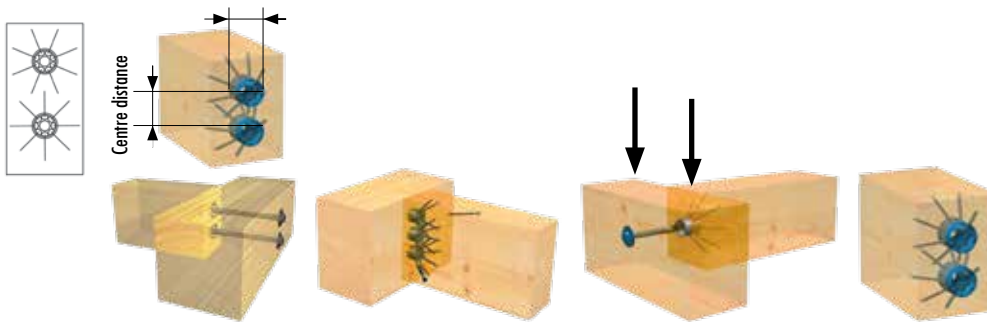
MAIN-SECONDARY BEAM, double-sided connection, with fixing screw



IdeeFix			Timber Dimensions		Timber Dimensions		Main–secondary beam with anti-twist element		Load-bearing capacity with threaded bolt		
Dimensions [mm]			Min. cross section of secondary beam		Min. cross section of main beam		Drilling depth for SB	Drilling depth for MB	Perm. values	Char. Values	Screw pattern
d _c	a _g	v _c	w [mm]	h [mm]	w [mm]	h [mm]	mm	mm	V _{z0} [kN]	R _{23,k} [kN]	pc.
30	M12	3	80	80	80	80	20	10	2,34	5,32	
40	M16	5	120	120	120	120	25	15	3,60	8,19	
50	M20	5	160	160	160	160	30	20	5,03	11,44	
30	M12	3	60	80	60	80	20	10	2,34	5,32	
40	M16	5	80	120	80	120	25	15	3,60	8,19	
50	M20	5	120	160	120	160	30	20	5,03	11,44	
30	M12	3	40	80	40	80	20	10	2,34	5,32	
40	M16	5	60	120	60	120	25	15	3,60	8,19	
50	M20	5	80	160	80	160	30	20	5,03	11,44	
30	M12	3	60	60	60	60	20	10	2,34	5,32	
40	M16	5	80	80	80	80	25	15	3,60	8,19	
50	M20	5	120	120	120	120	30	20	5,03	11,44	
d _c is the diameter and the total height of the connector, a _g is the metric connection thread of the connector, v _c is the height of the integrated anti-twist system – Fully threaded screw, GoFix® FK IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm			Position retention using GoFix® FK wood-construction screws IF 30 5,0 x 100 mm, IF 40 6,0 x 140 mm, IF 50 8,0 x 160 mm IF 50 8,0 x 160 mm		MB–SB connection as mortise joint for double-sided connection of secondary beam		R _k characteristic value calculated according to DIN 1052:2004-08 Timber p _k 380 kg/m³ Nze. recommended permissible load R _k x 0,8 k _{mod} : 1,3 ym : 1,4. Factor 1.4 average load safety factor				
Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.											

Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.

MAIN-SECONDARY BEAM multiple connection, single-row



IdeeFix			Timber Dimensions		Edge and centre distance		Main-secondary beam Multiple connection		Load-bearing capacity Single-row		
Dimensions [mm]			Min. cross section of secondary beam		Edge distance	Centre distance	Drilling depth for SB	Drilling depth for MB	Perm. values	Char. Values	Number of connectors
d _c	a _g	v _c	w [mm]	h [mm]	mm	mm	mm	mm	V _{zo} [kN]	R _{23,k} [kN]	pc.
30	M12	3	80	80	50	50	20	7	4,32	8,94	1
40	M16	5	120	120	60	60	25	10	6,98	14,66	1
50	M20	5	160	160	80	80	30	15	10,88	21,09	1
30	M12	3	80	150	50	50	20	10	8,64	17,88	2
40	M16	5	120	180	60	60	25	15	13,96	29,32	2
50	M20	5	160	240	80	80	30	20	21,76	42,18	2
30	M12	3	80	200	50	50	20	10	12,96	26,82	3
40	M16	5	120	240	60	60	25	15	20,94	43,98	3
50	M20	5	160	320	80	80	30	20	32,64	63,27	3
30	M12	3	80	250	50	50	20	10	17,28	35,76	4
40	M16	5	120	300	60	60	25	15	27,92	58,64	4
50	M20	5	160	400	80	80	30	20	43,52	84,36	4
30	M12	3	80	300	50	50	20	10	21,60	44,70	5
40	M16	5	120	360	60	60	25	15	34,90	73,30	5
50	M20	5	160	480	80	80	30	20	54,40	105,45	5
30	M12	3	80	350	50	50	20	10	25,92	53,64	6
40	M16	5	120	420	60	60	25	15	41,88	87,96	6
50	M20	5	160	560	80	80	30	20	65,28	126,54	6
30	M12	3	80	400	50	50	20	10	30,24	62,58	7
40	M16	5	120	480	60	60	25	15	48,86	102,62	7
50	M20	5	160	640	80	80	30	20	76,16	117,63	7
30	M12	3	80	450	50	50	20	10	34,56	71,52	8
40	M16	5	120	540	60	60	25	15	55,84	117,28	8
50	M20	5	160	720	80	80	30	20	87,04	168,72	8

d_c is the diameter and the total height of the connector, a_g is the metric connection thread of the connector, v_c is the height of the integrated anti-twist system – Fully threaded screw, GoFix® FK
IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm

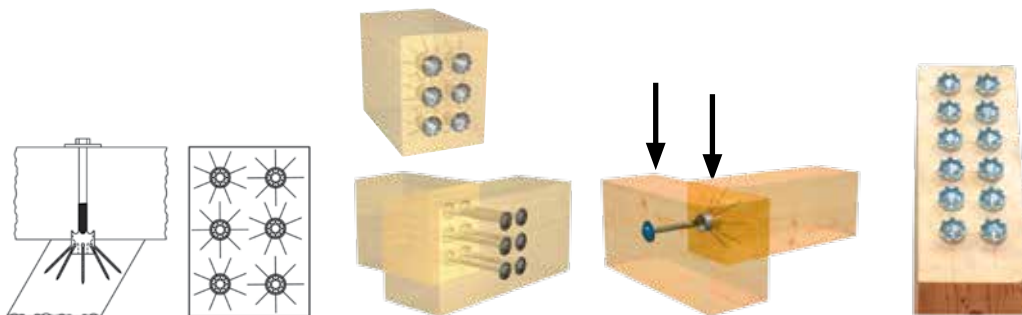
The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer

MB-SB connection as a mortise joint with simultaneous absorption of tensile forces

R_k characteristic value calculated according to DIN 1052:2004-08
Timber p_k 380 kg/m³ Nze. recommended permissible load
R_k x 0,8 k_{mod} : 1,3 ym : 1,4.
Factor 1.4 average load safety factor

Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.

MAIN-SECONDARY BEAM multiple connection, double-row



IdeeFix			Timber Dimensions		Edge and centre distance		Main-secondary beam Multiple connection		Load-bearing capacity Double-row		Number of connectors
Dimensions [mm]			Min. cross section of secondary beam		Edge distance	Centre distance	Drilling depth for SB	Drilling depth for MB	Perm. values	Char. Values	
d_c	a_g	v_c	w [mm]	h [mm]	mm	mm	mm	mm	V_{ze} [kN]	$R_{23,k}$ [kN]	pc.
30	M12	3	150	80	50	50	20	10	8,64	17,88	2
40	M16	5	180	120	60	60	25	15	13,96	29,32	2
50	M20	5	240	160	80	80	30	20	21,76	42,18	2
30	M12	3	150	150	50	50	20	10	17,28	35,76	4
40	M16	5	180	180	60	60	25	15	27,92	58,64	4
50	M20	5	240	240	80	80	30	20	43,52	84,36	4
30	M12	3	150	200	50	50	20	10	25,92	53,64	6
40	M16	5	180	240	60	60	25	15	41,88	87,96	6
50	M20	5	240	320	80	80	30	20	65,28	126,54	6
30	M12	3	150	250	50	50	20	10	34,56	71,52	8
40	M16	5	180	300	60	60	25	15	55,84	117,28	8
50	M20	5	240	400	80	80	30	20	87,04	168,72	8
30	M12	3	150	300	50	50	20	10	43,20	89,40	10
40	M16	5	180	360	60	60	25	15	69,80	146,60	10
50	M20	5	240	480	80	80	30	20	108,80	210,90	10
30	M12	3	150	350	50	50	20	10	51,84	107,28	12
40	M16	5	180	420	60	60	25	15	83,76	175,92	12
50	M20	5	240	560	80	80	30	20	130,56	253,08	12
30	M12	3	150	400	50	50	20	10	60,48	125,16	14
40	M16	5	180	480	60	60	25	15	97,72	205,24	14
50	M20	5	240	640	80	80	30	20	152,32	295,26	14
30	M12	3	150	450	50	50	20	10	69,12	143,04	16
40	M16	5	180	540	60	60	25	15	111,68	234,56	16
50	M20	5	240	720	80	80	30	20	174,08	337,44	16

d_c is the diameter and the total height of the connector, a_g is the metric connection thread of the connector, v_c is the height of the integrated anti-twist system – Fully threaded screw, GoFix® FK
IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm

The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer 440 R

MB-SB connection as a mortise joint with simultaneous absorption of tensile forces

R_k characteristic value calculated according to DIN 1052:2004-08
Timber p_k 380 kg/m³ Nze. recommended permissible load
 $R_{k,k} \times 0,8 \times k_{mod} : 1,3 \text{ ym} : 1,4$.
Factor 1.4 average load safety factor

Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.

BRUTUS threaded rod

Fully threaded rod for transverse-shear reinforcement in laminated wood joists



BRUTUS — for use in new and existing properties

High internal stresses occurring in large timber components such as building trusses, for example, often become too great to be absorbed by the timber alone. As timber is relatively weak in the direction perpendicular to the grain, it is particularly at risk due to transverse shear and must be reinforced in such cases.

BRUTUS threaded rods absorb these transverse-shear forces!

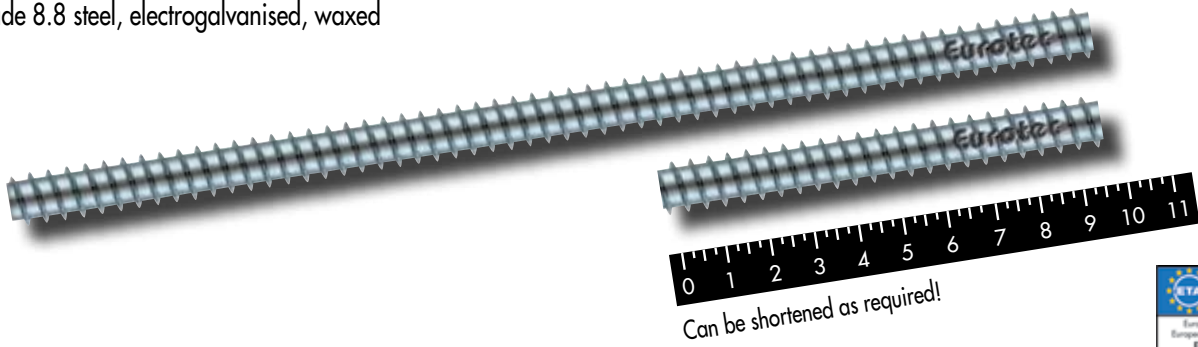
They are applied both in new constructions (when building the trusses) and in renovations. Whereas in new constructions they allow larger spans and/or narrower timber cross sections, in renovations they help to safeguard the existing structure. Many trusses therefore do not need to be replaced or doubled up at considerable expense, even if they exhibit obvious cracking. In such cases, however, an expert report must always be obtained.

BRUTUS threaded rods can be shortened to any desired length but should be pilot-drilled to 13 mm. Care must be taken to avoid drill wander when drilling the holes.



BRUTUS threaded rod, total length: 3000 mm

grade 8.8 steel, electrogalvanised, waxed



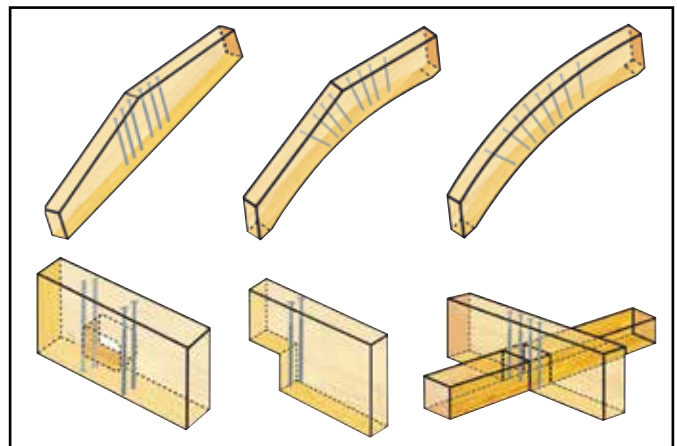
Art. no.	Dimensions (mm)	PU
945247	16 x 3000	1
Insertion tool: Art. no. 945318		

It is used for transverse-shear reinforcement:

- of building trusses
- at notches and openings
- at transverse connections

Things to bear in mind

- Pilot-drill to \varnothing 13 mm
- The drill bit can wander while drilling deeper holes



EiSYS-2

Façade/adjusting screw

Compare the idea of thermal insulation with a hot-air balloon!

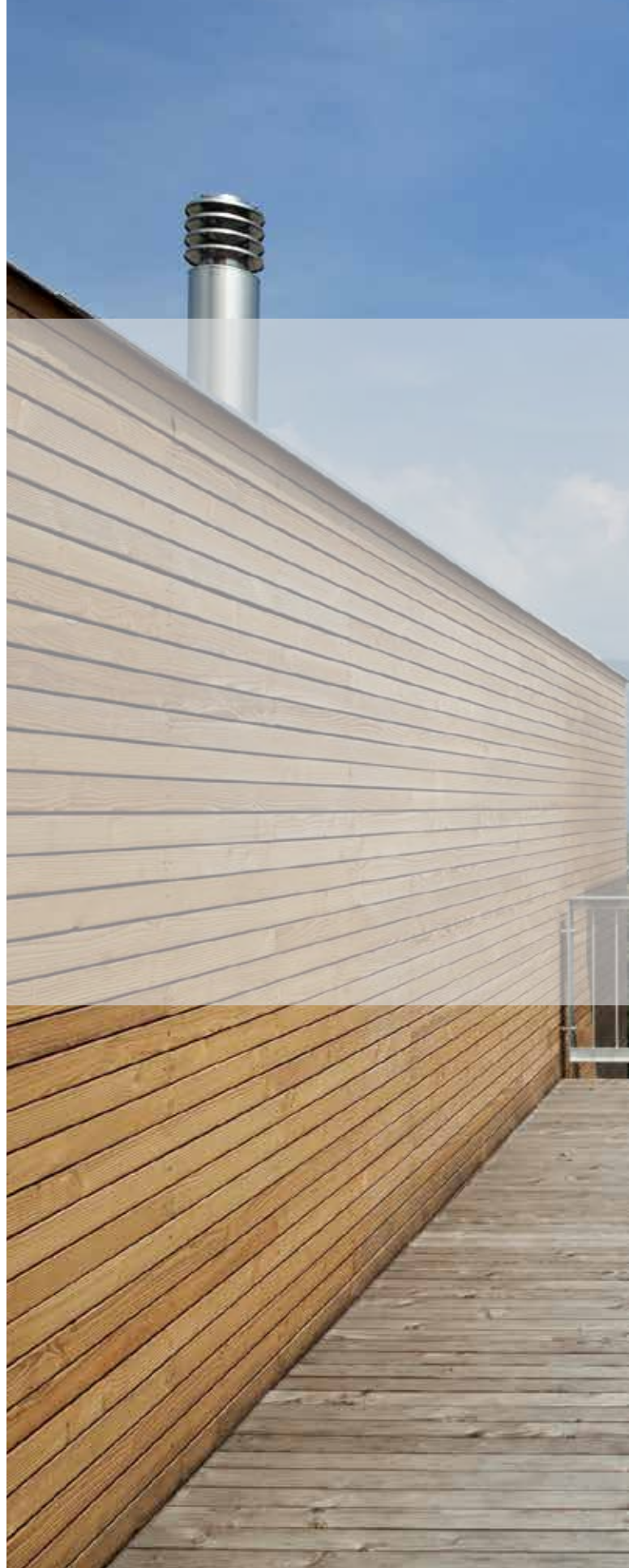
The principle is simple. In a hot-air balloon, the burner blows hot air into the envelope above. The hot air wants to escape upwards but cannot escape from the envelope. It therefore lifts the balloon along with the attached load – and the balloon flies! But this flight only lasts until the air cools down, and it cools quite quickly because of the balloon's relatively thin skin. Hot air must be added to the balloon to allow it to continue flying.

A similar principle applies to buildings

The heated room air that wants to escape through the building shell to the outside world is subject to the principle of heat conduction and convection. The warm air from the room wants to mix with the cold outside air until a temperature equilibrium is reached between inside and outside air – i.e. until it becomes cold inside the building. The better the construction material conducts heat and the more the building shell leaks heat, the faster this process will happen. Continuous heating is required to keep the indoor air at room temperature. This leads to high energy costs.

Solution:

The outer walls must be insulated to keep the wasted energy to a minimum. This can be achieved with composite thermalinsulation systems with an exterior plaster or with an insulated, rear-ventilated façade. The latter is used if you want to decorate the exterior wall with timber cladding, fibre-cement boards or other façade elements. This is where the EiSYS-2 screw is used.





EiSYS-2 screw for use with suspended façades

The German Energy Saving Ordinance (as well as rising energy costs) requires efficient, environmentally sound thermal insulation for all heated buildings and, more recently, cooled buildings. Rear-ventilated rainscreen cladding combines this requirement with the possibility of finishing the building shell with a wide range of materials for aesthetic and/or technical reasons.

The EiSYS-2 screw from Eurotec is a façade/adjusting screw

This screw is fastened to the building wall with a plug.

The freely rotating threaded sleeve at the top of the screw allows the façade's substructure to be aligned parallel to the building wall.

The advantages are clear: cost savings and reduced assembly times.

High loads can be transmitted through the framework screw connections even in the case of larger distances from the building wall.

Full design freedom is maintained for the façade.

EiSYS-2

façade/adjusting screw

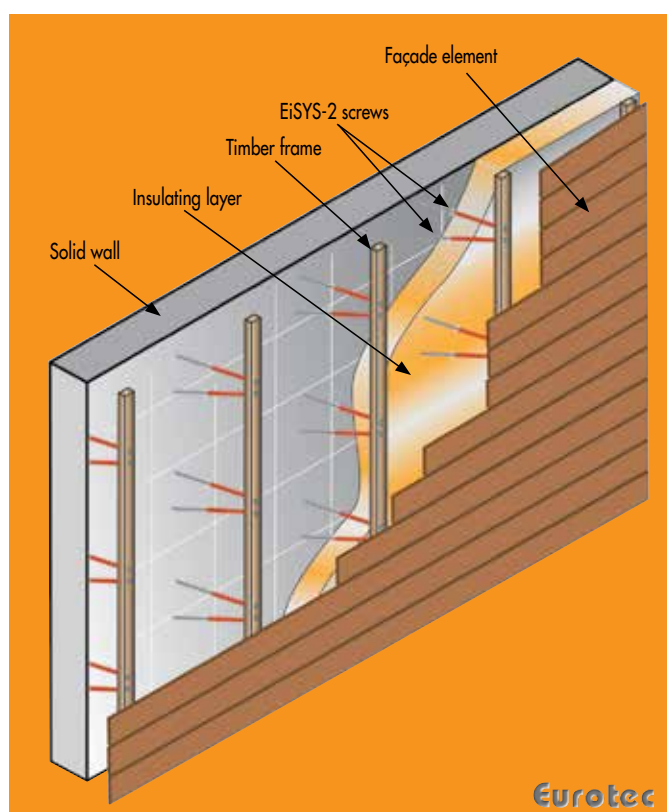


Art. no.	Dimensions (mm)	For insulation thicknesses ^{a)} up to	PU
945935	7,2 x 198 II	60 mm	50
945925	7,2 x 218 II	80 mm	50
945926	7,2 x 238 II	100 mm	50
945927	7,2 x 258 II	120 mm	50
945928	7,2 x 278 II	140 mm	50
945929	7,2 x 298 II	160 mm	50
945474	7,2 x 318 II	180 mm	50
945930	7,2 x 338 II	200 mm	50
945931	7,2 x 358 II	220 mm	50
945932	7,2 x 378 II	240 mm	50
945933	7,2 x 398 II	260 mm	50
945934	7,2 x 418 II	280 mm	50

a) And for a counter-batten thickness of 40 mm

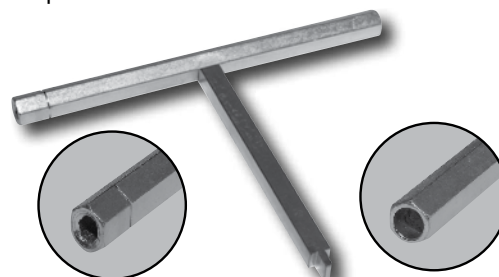
Example application:

The V-shaped arrangement of the EiSYS-2 screw pair achieves optimum stability and load capacity of the façade construction.



EiSYS-2

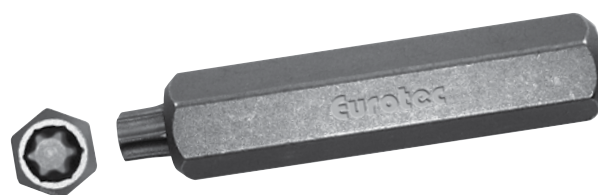
manual adjustment tool



Art. no.	Dimensions (mm)	PU
111828	10,0 x 150/115	1

EiSYS-2

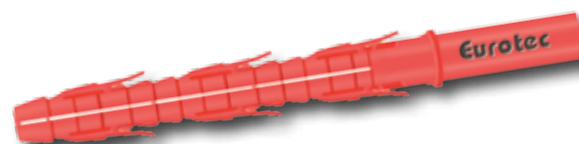
bit



Art. no.	Dimensions (mm)	Drive	PU
945936	10,0 x 50	TX30 ●	1

Plug

for EiSYS-2 screws



Art. no.	Dimensions (mm)	Type	PU
945404	10,0 x 130	B 10 H	200

Calculating the number of EiSYS-2 screw pairs per m² - counter batten 40 x 60 mm²
EiSYS-2 screws are always used in pairs. See system diagram.

Wind pressure $k = 0,30 \text{ kN/m}^2$

Insulating-material thickness (mm)	EiSYS-2 Screw	Unladen weight of the façade					
		5 kg/m ²	10 kg/m ²	15 kg/m ²	20 kg/m ²	25 kg/m ²	30 kg/m ²
80	7,2 x 218	0,45	0,86	1,26	1,67	2,08	2,48
100	7,2 x 238	0,54	1,04	1,54	2,04	2,54	3,04
120	7,2 x 258	0,64	1,23	1,82	2,42	3,01	3,60
140	7,2 x 278	0,73	1,42	2,10	2,79	3,48	4,16
160	7,2 x 298	0,82	1,60	2,38	3,16	3,94	4,72
180	7,2 x 318	0,92	1,79	2,66	3,54	4,41	5,28
200	7,2 x 338	1,01	1,98	2,94	3,91	4,88	5,84
220	7,2 x 358	1,11	2,17	3,23	4,29	5,35	6,41

Wind pressure $k = 0,60 \text{ kN/m}^2$

Insulating-material thickness (mm)	EiSYS-2 Screw	Unladen weight of the façade					
		5 kg/m ²	10 kg/m ²	15 kg/m ²	20 kg/m ²	25 kg/m ²	30 kg/m ²
80	7,2 x 218	0,75	0,90	1,31	1,72	2,12	2,53
100	7,2 x 238	0,75	1,09	1,59	2,09	2,59	3,09
120	7,2 x 258	0,75	1,28	1,87	2,46	3,06	3,65
140	7,2 x 278	0,78	1,46	2,15	2,84	3,52	4,21
160	7,2 x 298	0,87	1,65	2,43	3,21	3,99	4,77
180	7,2 x 318	0,96	1,84	2,71	3,58	4,46	5,33
200	7,2 x 338	1,06	2,02	2,99	3,96	4,92	5,89
220	7,2 x 358	1,15	2,21	3,27	4,33	5,39	6,45

Wind pressure $k = 0,90 \text{ kN/m}^2$

Insulating-material thickness (mm)	EiSYS-2 Screw	Unladen weight of the façade					
		5 kg/m ²	10 kg/m ²	15 kg/m ²	20 kg/m ²	25 kg/m ²	30 kg/m ²
80	7,2 x 218	1,13	1,13	1,35	1,76	2,17	2,57
100	7,2 x 238	1,13	1,13	1,63	2,13	2,63	3,13
120	7,2 x 258	1,13	1,32	1,91	2,51	3,10	3,69
140	7,2 x 278	1,13	1,51	2,19	2,88	3,57	4,25
160	7,2 x 298	1,13	1,69	2,47	3,25	4,03	4,81
180	7,2 x 318	1,13	1,88	2,75	3,63	4,50	5,37
200	7,2 x 338	1,13	2,07	3,03	4,00	4,97	5,93
220	7,2 x 358	1,20	2,26	3,32	4,38	5,44	6,50

Wind pressure $k = 1,20 \text{ kN/m}^2$

Insulating-material thickness (mm)	EiSYS-2 Screw	Unladen weight of the façade					
		5 kg/m ²	10 kg/m ²	15 kg/m ²	20 kg/m ²	25 kg/m ²	30 kg/m ²
80	7,2 x 218	1,50	1,50	1,50	1,81	2,21	2,62
100	7,2 x 238	1,50	1,50	1,68	2,18	2,68	3,18
120	7,2 x 258	1,50	1,50	1,96	2,55	3,15	3,74
140	7,2 x 278	1,50	1,55	2,24	2,93	3,61	4,30
160	7,2 x 298	1,50	1,74	2,52	3,30	4,08	4,86
180	7,2 x 318	1,50	1,93	2,80	3,67	4,55	5,42
200	7,2 x 338	1,50	2,11	3,08	4,05	5,01	5,98
220	7,2 x 358	1,50	2,30	3,36	4,42	5,48	6,54

Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.

EiSYS-2 façade/adjusting screw

This screw is used to fasten façades in place.

Insulation thicknesses of 80–280 mm can be handled easily with the EiSYS-2 screw from Eurotec.

Adjustment sleeve

The EiSYS-2 screw is fitted with a freely rotating adjustment sleeve/head that allows the space between the brickwork and the substructure to be tailored to your needs. A hexagonal bit is supplied as an accessory. This is used to screw the screw into the subsurface, as well as to adjust the substructure with the adjustment head.

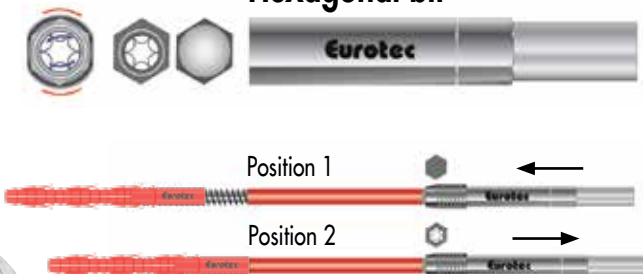


EiSYS-2

Façade/adjusting screw



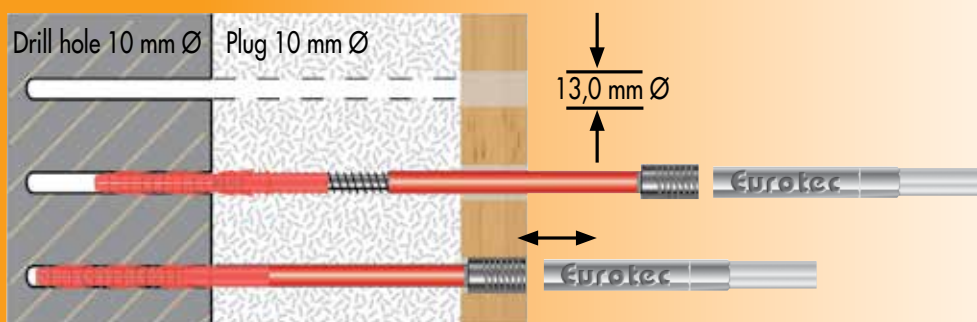
Hexagonal bit

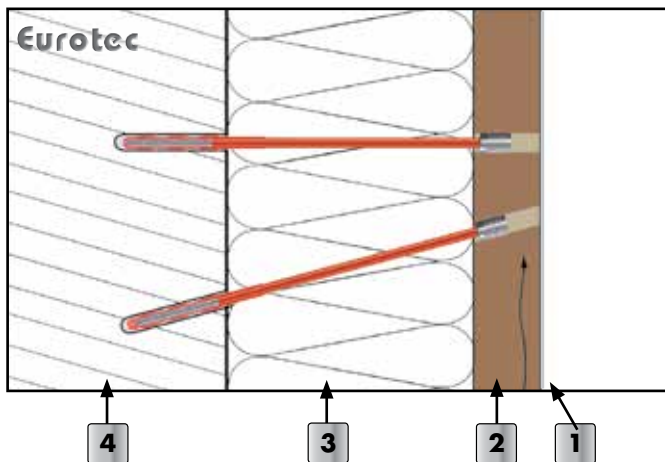


This is how it's done!

The principle is as ingenious as it is simple. Once the insulation is attached to the exterior wall, the counter batten is pilot-drilled to a diameter of 13 mm in accordance with the system. A hole of 10 mm diameter is then drilled within this hole through the insulation and into the subsurface to create the hole for the plug. The plug is attached to the adjusting screw and the two are then inserted into the

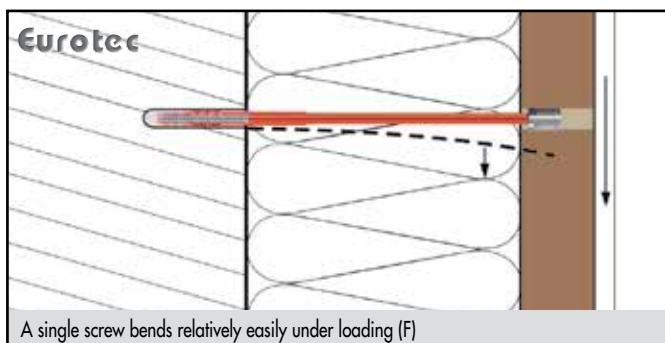
prepared drill hole through the counter batten and the insulation. The EiSYS-2 façade/adjusting screw is screwed in completely in Position 1 using the hexagonal bit until the adjustment head also lies within the counter batten. Now, the screw is simply pulled out to Position 2 using the hexagonal bit and the spacing between the brickwork and the counter batten is adjusted.





Example of a rear-ventilated façade (EiSYS-2 system diagram)

- 1 Façade element
- 2 Timber frame (min. 40x60 mm²)
- 3 Insulating layer
- 4 Brickwork (EiSYS fixing depth = 90 mm)

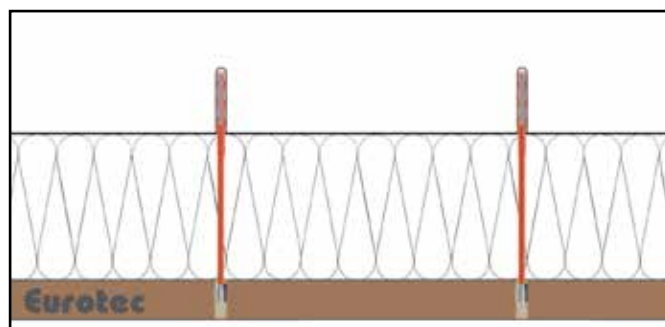
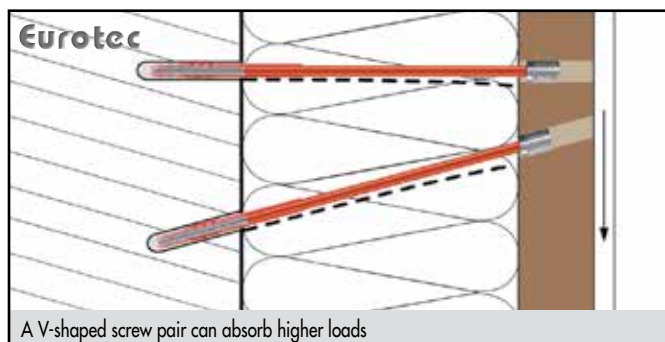


To increase the rigidity of the EiSYS-2 system, the adjusting screws are installed in pairs and in a V shape.

This creates a framework screw connection.

The framework principle consists of creating a large number of rigid triangles (see diagram) from multiple relatively pliable screws installed perpendicular to the wall.

For the same load, these triangles exhibit a much lower deflection than screws that are simply screwed in perpendicular to the wall.



Example of a suspended ceiling

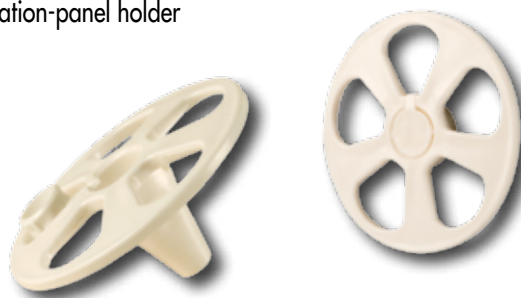
The Eisis-2's adjustment function can, of course, also be used in other applications, e.g. for a suspended ceiling.

Klimax insulation-panel holder

Ideal fastening of wood-fibre insulation elements

Klimax

insulation-panel holder



Art. no.	Dimensions (mm)	PU
945251	Ø 60	400

- For soft insulating materials

Energy-saving measures are becoming increasingly important in the construction of new houses and also enjoy state support!

Decoupling the individual fastening components avoids the creation of thermal bridges.

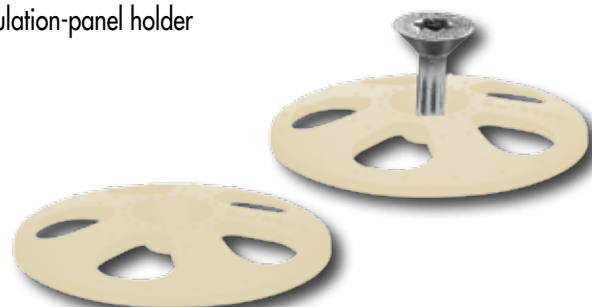
Good insulation results in an extraordinarily comfortable environment.

The Klimax insulation-panel holder, in conjunction with the Paneltwistec screws from Eurotec, offers an ideal combination for fastening wood-fibre insulation elements.

The prerequisite for this is a load-bearing timber substructure.

Klimax-slim

insulation-panel holder



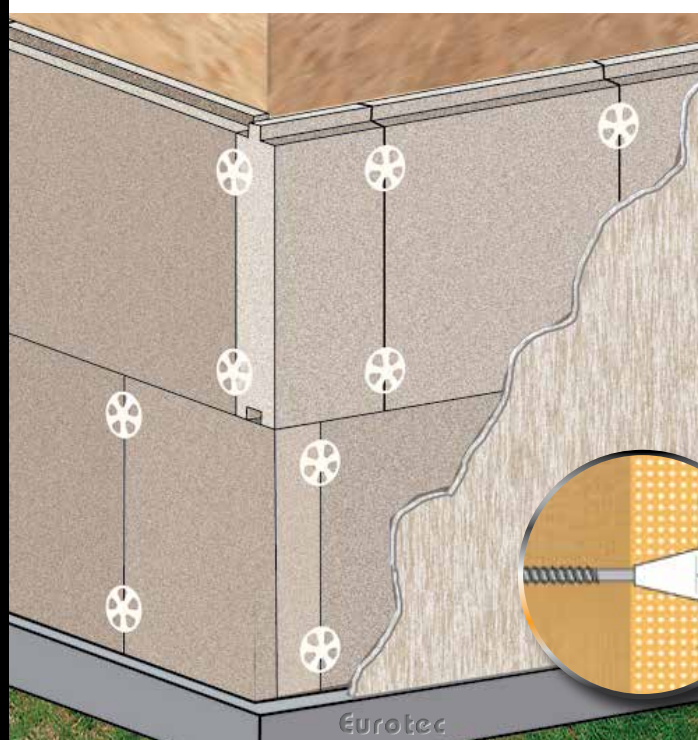
Art. no.	Dimensions (mm)	PU
945987	Ø 60	900

- For harder insulating materials

**Suitable screws for our Klimax insulation-panel holders:
Paneltwistec AG countersunk-head screws**



Art. no.	Dimensions (mm)	Drive	PU
945583	6,0 x 60	TX30 ●	200
945584	6,0 x 70	TX30 ●	200
945632	6,0 x 80	TX30 ●	200
945633	6,0 x 90	TX30 ●	100
945634	6,0 x 100	TX30 ●	100
945636	6,0 x 120	TX30 ●	100
945637	6,0 x 130	TX30 ●	100
945638	6,0 x 140	TX30 ●	100
945640	6,0 x 160	TX30 ●	100
945641	6,0 x 180	TX30 ●	100
945642	6,0 x 200	TX30 ●	100
945643	6,0 x 220	TX30 ●	100
945644	6,0 x 240	TX30 ●	100
945645	6,0 x 260	TX30 ●	100
945646	6,0 x 280	TX30 ●	100
945647	6,0 x 300	TX30 ●	100



Klimax insulation plug

For fastening composite thermal insulation systems



Universally suitable for use in numerous insulating materials and subsurfaces

The Klimax insulation plug allows secure wall-fastening of composite thermal insulation system boards with a thickness of 40–210 mm.

The insulation plug is suitable for anchorages in solid sand-lime bricks, porous sand-lime bricks, masonry bricks, vertically perforated bricks, solid lightweight-concrete blocks and porous lightweight-concrete blocks. The product consists of a plastic plug and a nail made of electrogalvanised steel with a pressed-on plastic head.

The plastic head prevents the formation of thermal bridges and also provides additional corrosion protection.

Installation is performed according to same principle as for a classic nail plug.

Klimax

insulation plug



Advantages of Klimax insulation plugs

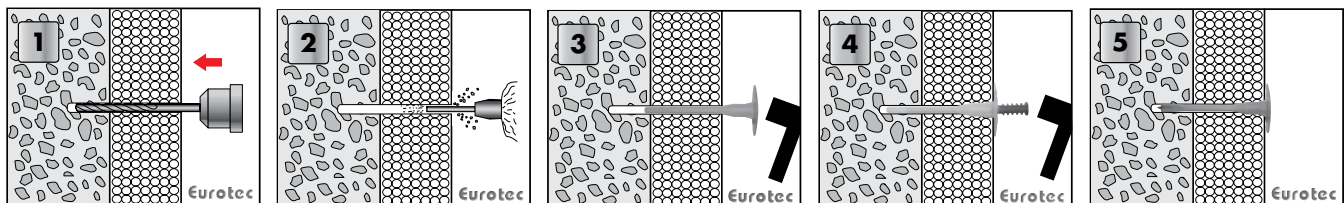
- Fast and efficient assembly
- Universally suitable for numerous insulating materials and subsurfaces
- Flat plug head

Installation parameters

- Nominal drill diameter: 8,00 mm
- Depth of drill hole to lowest point: 40,00 mm
- Effective anchorage depth: 30,00 mm

Art. no.	Dimensions (mm)	Disc diameter (mm)	Insulation thickness (mm)	PU
200027	8,0 x 90	60	40 - 60	250
200028	8,0 x 110	60	80	250
200029	8,0 x 130	60	100	200
200030	8,0 x 150	60	120	150
200031	8,0 x 170	60	140	150
200032	8,0 x 190	60	160	100
200033	8,0 x 210	60	180	100
200034	8,0 x 240	60	210	100

Installation instructions



Klimax ECO 1 / ECO 2

For secure fastening of soft mineral-fibre insulating materials

For through-hole mounting

The Klimax ECO insulation plug allows secure wall-fastening of soft mineral-fibre insulating materials.

The insulation plugs consist entirely of impact-resistant plastic and are suitable for anchorages in concrete, solid sand-lime bricks, masonry bricks and other high-strength building materials.

In through-hole mounting, Klimax ECO insulation plugs are hammered into a drill hole with a diameter of 8,0 mm. In the course of the setting process, the bridges at the tip of the plug deform, producing a clamping pressure that ensures a secure plug grip.

Advantages of Klimax ECO 1/2

- No thermal bridges
- Time-saving and straightforward impact installation
- Impact-resistant plastic
- Particularly suitable for use with rear-ventilated curtain facades
- Temperature-resistant from -40 °C bis +70 °C

Installation parameters

- Nominal drill diameter: ECO 1 = 8,0 mm
ECO 2 = 8,0 mm
- Minimum drill-hole depth: ECO 1 = 25,0 mm
ECO 2 = 35,0 mm
- Minimum installation depth: ECO 1 = 20,0 mm
ECO 2 = 30,0 mm

Klimax ECO 1

insulation plug, one-piece

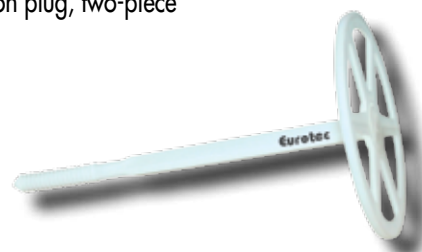


Art. no.	Dimensions (mm)	Disc diameter (mm)	Insulation thickness (mm)	PU
200065	Ø 8,0 x 60	90	30 - 40	250
200066	Ø 8,0 x 80	90	50 - 60	250
200067	Ø 8,0 x 100	90	70 - 80	200
200068	Ø 8,0 x 120	90	90 - 100	250
200069	Ø 8,0 x 140	90	110 - 120	200
200070	Ø 8,0 x 160	90	130 - 140	200

- With a hole in the head to accommodate a mesh fabric holder
- For insulating material thickness of 30–140 mm

Klimax ECO 2

insulation plug, two-piece



Art. no.	Dimensions (mm)	Disc diameter (mm)	Insulation thickness (mm)	PU
200071	Ø 8,0 x 80	90	30 - 50	250
200072	Ø 8,0 x 100	90	60 - 70	250
200073	Ø 8,0 x 120	90	80 - 90	250
200074	Ø 8,0 x 140	90	100 - 110	250
200075	Ø 8,0 x 160	90	120 - 130	250
200076	Ø 8,0 x 180	90	140 - 150	250
200077	Ø 8,0 x 200	90	160 - 170	250
200078	Ø 8,0 x 220	90	180 - 190	250
200079	Ø 8,0 x 240	90	200 - 210	250

- For insulating material thickness of 30–210 mm

FaçadeClip

For hidden fastening of façade wood

FaçadeClip

black, electrogalvanised



Art. no.	Dimensions (mm)*	Type	PU**
946010	115 x 15 x 5,5	F115 x 17	300
946012	115 x 15 x 5,5	F115 x 22	300
946013	115 x 15 x 5,5	F115 x 28	300
946014	130 x 15 x 5,5	F130 x 17	300
946015	130 x 15 x 5,5	F130 x 22	300
946016	130 x 15 x 5,5	F130 x 28	300
946017	145 x 15 x 5,5	F145 x 17	300
946018	145 x 15 x 5,5	F145 x 22	300
946019	145 x 15 x 5,5	F145 x 28	300

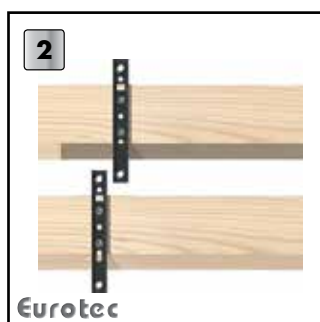
* Length x width x height

** Drilling screws are included with this product!

Advantages of FaçadeClip

- For façade timbers with a profile height of 57–95 mm
- Hidden fastening
- Perfect constructive timber protection
- Ventilated façade system with spaced installation
- The façade timber's surface that is exposed to the weather remains undamaged
- Efficient and easy installation

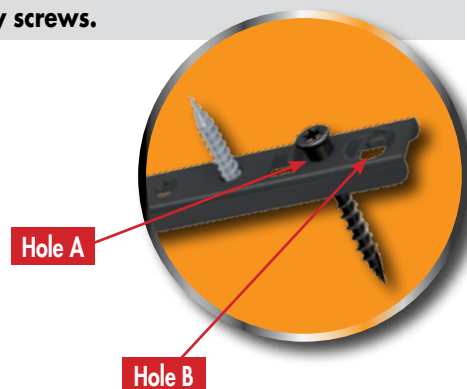




Rational and easy installation

- 1 Place FaçadeClip on the back with stopper and insert assembly screws
- 2 Repeat on all façade boards displaced
- 3 Screw the façade wood to the counter-lathe with fixing screw
- 4 Simply insert the next façade wood and screw on the top only with fixing screw
- 5 The joint clearance is set automatically by the screw head of the fixing screw, that's it!

Each façade clip comes supplied with one 4,5 x 29 mm fixing screw with a drill point and two 4,2 x L assembly screws.



Technical data

Eurotec FaçadeClip					Dimensions façade profile			Joint clearance between façade profiles		Quantity required Façade clips per m² Example	
Dimensions (mm)					min.-max. height	min. strength	Assembly screw Length (L)	Fixing screw in hole A	Fixing screw in hole B	Min. profile height	Max. profile height
Art. no.	Type	L	W	H	mm	mm	mm	mm	mm	Pce.	Pce.
946010	F115 x 17	115	15	5,5	57 - 68	19	17	10	variable	28	24
946012	F115 x 22	115	15	5,5	57 - 68	24	22	10	variable	28	24
946013	F115 x 28	115	15	5,5	57 - 68	30	28	10	variable	28	24
946014	F130 x 17	130	15	5,5	68 - 80	19	17	10	variable	24	20
946015	F130 x 22	130	15	5,5	68 - 80	24	22	10	variable	24	20
946016	F130 x 28	130	15	5,5	68 - 80	30	28	10	variable	24	20
946017	F145 x 17	145	15	5,5	80 - 95	19	17	10	variable	20	18
946018	F145 x 22	145	15	5,5	80 - 95	24	22	10	variable	20	18
946019	F145 x 28	145	15	5,5	80 - 95	30	28	10	variable	20	18

Fastened to substructure with 4,5 x 29 mm fixing screw with drill point

Formula for determining quantity
(1000 mm/substructure distance) x (1000 mm/bottom edge clearance) = pieces/m²

600 mm substructure clearance
10 mm joint clearance

Please note: Before any work is carried out, all calculations must be checked and released by the responsible planner! For more information on this visit our homepage: www.e-u-r-o-tec.de



Atlas wood connector

The node connection for beam suspension



Can be used in almost all fields of timber construction

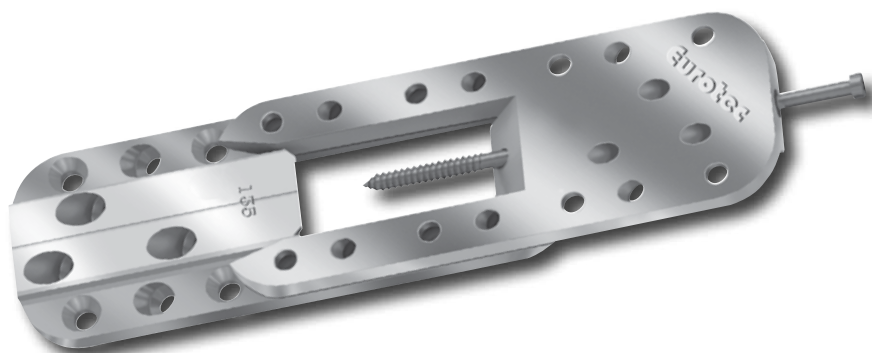
The only hook connection that can be completely prefabricated, enabling quick and simple connections on site similarly to a conventional hook connector. Atlas wood connectors are used in nearly all areas of wood construction, irrespective of the wood's grain direction, and save the user a great number of additional connection means. What is unique here is that a fixing screw is screwed into the Atlas wood connector from above, so that the components can be braced against each other. In addition, the Atlas consists of two identical parts that can be slid inside each other without restraint and smoothly, which is a great advantage during installation work.

The fixing screw that is used forms these two parts of the Atlas wood connector into a hook connector and at the same time is security against unintentional loosening of the connector.

The connection that is made in this way can be statically loaded in four directions with high tested values. Installation can therefore be both visible (for broad root with chamfer connections) and hidden (milled recess).

To allow problem-free installation, every system pack includes all system screws and the matching DuoBit, together with assembly instructions.

Atlas wood connector

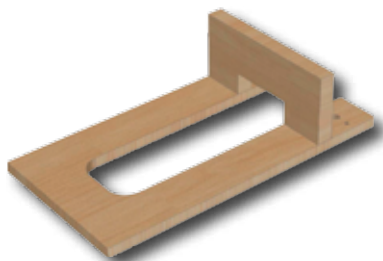


Art. no.	Name	PU	Included in delivery
30036	Atlas HF 70	20 (= 10 connectors)	120 fully threaded screws TX15 - 4,2 x 60 mm, blue galvanised 10 fixing screws TX15 - 4,2 x 50 mm, blue galvanised Assembly instructions; 1 DUO-bit TX 15
30056	Atlas HF 100	20 (= 10 connectors)	160 fully threaded screws TX20 - 5,0 x 80 mm, blue galvanised 10 fixing screws TX20 - 4,8 x 80 mm, blue galvanised Assembly instructions; 1 DUO-bit TX 20
30076	Atlas HF 135	20 (= 10 connectors)	220 fully threaded screws TX20 - 5,0 x 80 mm, blue galvanised 10 fixing screws TX20 - 4,8 x 120 mm, blue galvanised Assembly instructions; 1 DUO-bit TX 20
30096	Atlas HF 170	20 (= 10 connectors)	280 fully threaded screws TX20 - 5,0 x 80 mm, blue galvanised 10 fixing screws TX20 - 4,8 x 120 mm, blue galvanised Assembly instructions; 1 DUO-bit TX 20
30116	Atlas HF 200	12 (= 6 connectors)	144 fully threaded screws TX25 - 6,0 x 100 mm, blue galvanised 6 fixing screws TX25 - 6,3 x 180 mm, blue galvanised Assembly instructions; 1 DUO-bit TX 25

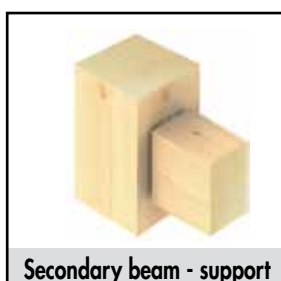
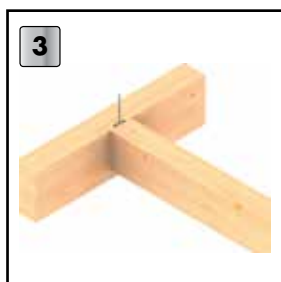
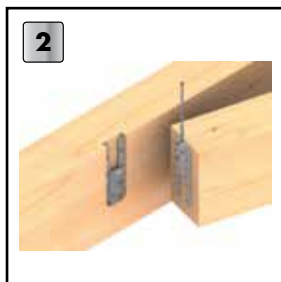
Art. no.	Name	for	Included in delivery
29606	Template set HFSS 70	Atlas HF 70	1 milling and assembling jig with stopper HFS 70 1 milling cutter with thrust ring HFF 70 4 fully threaded screws TX15 - 4,0 x 60 mm, blue galvanised 2 hexagon socket screws M 5 x 16 mm, 1 Allen key 4 mm Assembly instructions
29161	Template set HFSS 100	Atlas HF 100 Atlas HF 135 Atlas HF 170	1 milling and assembling jig with stopper HFS 100 1 milling cutter with thrust ring HFF 100 4 fully threaded screws TX20 - 5,0 x 40 mm, blue galvanised 2 hexagon socket screws M 5 x 16 mm, 1 Allen key 4 mm Assembly instructions
29626	Template set HFSS 200	Atlas HF 200	1 milling and assembling jig with stopper HFS 200 1 milling cutter with thrust ring HFF 200 4 fully threaded screws TX25 - 6,0 x 60 mm, blue galvanised 2 hexagon socket screws M 5 x 16 mm, 1 Allen key 4 mm Assembly instructions

Template

for Atlas wood connector



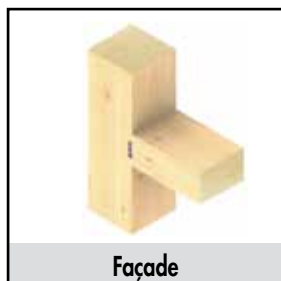
Art. no.	Suitable for	PU
29658	Atlas HF 70	1
29657	Atlas HF 100	1
29660	Atlas HF 135	1
29661	Atlas HF 170	1
29659	Atlas HF 200	1



Secondary beam - support



Bolt construction



Façade

Milling cutter

for Atlas wood connector



Art. no.	Suitable for	PU
29676	Atlas HF 70	1
29686	Atlas HF 100, HF 135, HF 170	1
29696	Atlas HF 200	1

Assembly

- 1 Simply set the stopper for the milling and assembling jig to the required size of the Atlas wood connector, put the milling and assembling jig in place, fix it and cut out the pocket with the corresponding groove miller.
- 2 The Atlas is then set into the milled recess and fastened with the supplied system screws. The milling and assembling jig is then placed in the same setting on the component that is to be connected and the identical second part of the Atlas wood connector is screwed in place. Pre-assembly is now complete and the component to be connected is suspended in place.
- 3 In conclusion, the fixing screw is inserted into the Atlas. In this way the Atlas wood connector is pulled together, if necessary, and the position security of the hook connector is guaranteed. THAT'S IT!

The installation can therefore be both visible (for broad root with chamfer connections) and invisible (milled recess).

The above assembly example shows the invisible installation.

With visible installation, there is no need for milling and the milling and assembling jig is only used as an assembling jig.

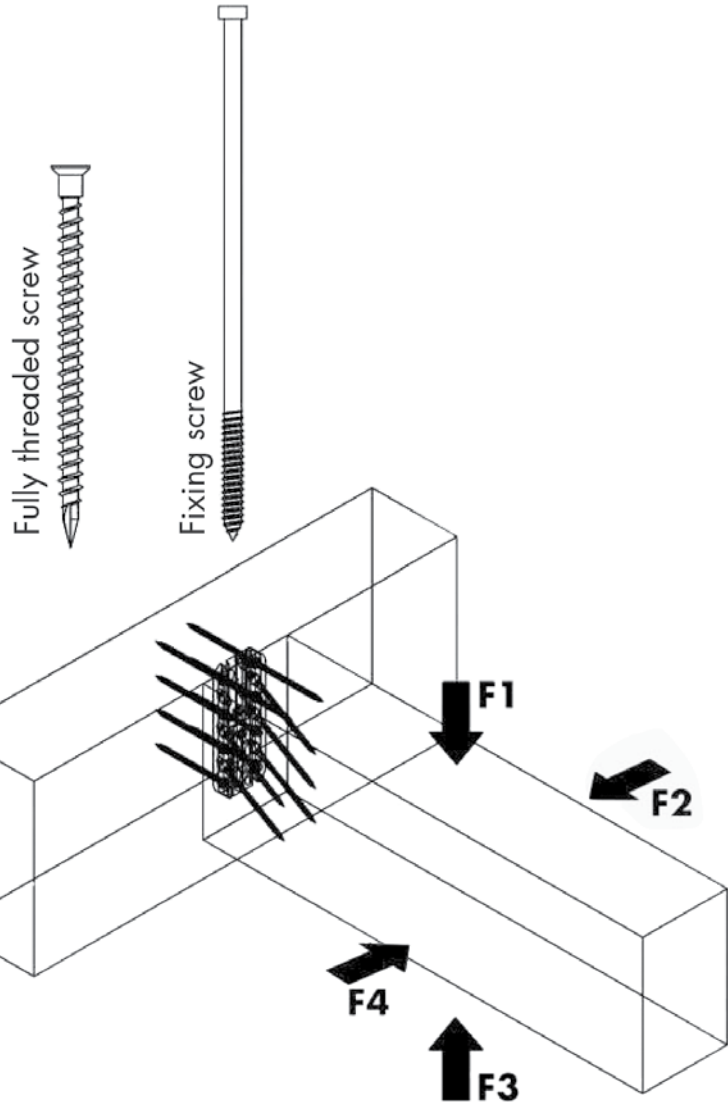
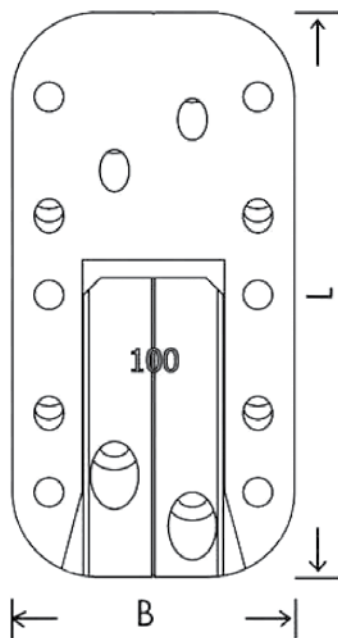
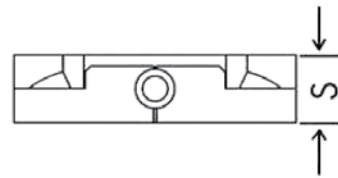
Applications

For nearly all areas of wood construction, irrespective of the direction of the wood grain, it can be used vertically and horizontally!

Secondary and main beams, secondary beam supports, bolt construction, hall construction, façades, conservatories, balconies...

The Atlas wood connector's node connection is loaded in four directions with high statically verified values, and at the same represents security against unintended loosening of the connector.

Technical data



Atlas permitted value					Secondary beam		Load F1	Load F3	Load F2 and F4
					Min. width	Min. height	Char. value of the load-bearing capacity $R_k^{a)}$		Char. value of the load-bearing capacity $R_k^{a)}$
Art. no.	Type	L	W	S	mm	mm	kN	kN	kN
30036	70	70	30	9	50	80	6,80	2,00	4,40
30056	100	100	50	12	80	115	17,40	8,56	10,60
30076	135	135	50	12	80	150	26,70	8,56	15,00
30096	170	170	50	12	80	185	33,40	8,56	16,00
30116	200	200	70	17	100	200	43,00	19,15	22,70

Calculation according to ETA-12/0068. Wood density $\rho_k = 350 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations. All values are calculated minimum values and are subject to typographical and printing errors.

a) The characteristic values of the load-bearing capacity R_k should not be treated as equivalent to the max. possible load (the max. force). Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \times k_{mod} / \gamma_M$. The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).

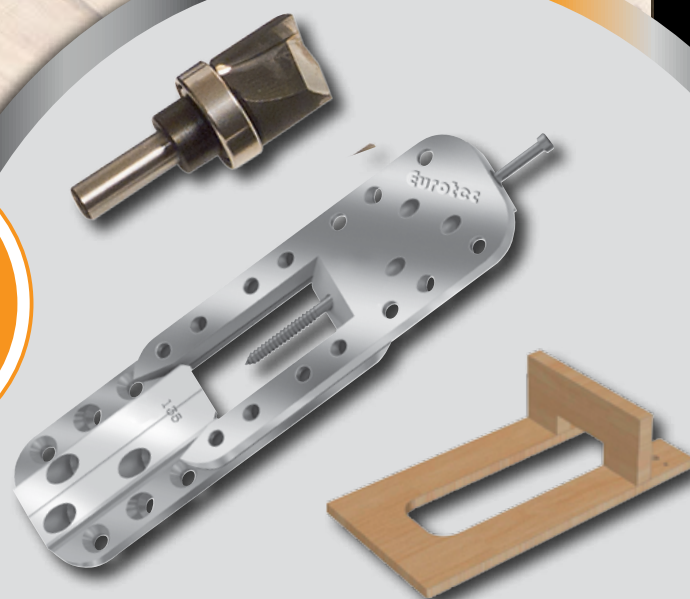
Example: Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.
→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$. The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$.
→ $\min R_k = R_d \cdot \gamma_M / k_{mod}$ D.h., i.e. the characteristic minimum value of the load-bearing capacity is calculated based on: $\min R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3/0,9 = 10,40 \text{ kN}$
→ comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

Our Atlas starter packs

There are two packages with different configurations to choose from

Atlas starter pack 1

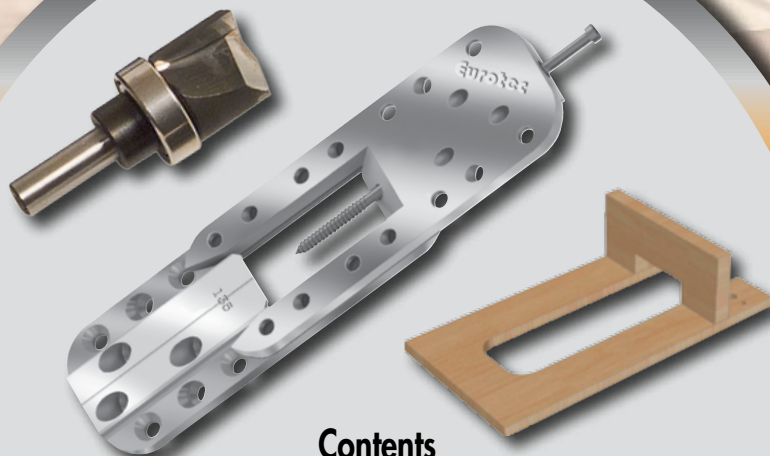


Contents

- 40 x Atlas HF 100 (= 20 pairs)
- Screws are included with this product -
- 1 x timber milling & assembly
- 1 x milling cutter

Art. no. 30126

Atlas starter pack 2



Contents

- 40 x Atlas HF 135 (= 20 pairs)
- Screws are included with this product -
- 1 x timber milling & assembly
- 1 x milling cutter

Art. no. 30136

Magnus hook connector

Aluminium/timber connector for main/secondary beam joints



Suitable for use in virtually all areas of timber-frame construction

The Magnus hook connector is used to create node joints in timber-frame construction. This joint is impressive above all because it can be completely prefabricated, which in turn minimises assembly times on the construction site. The connector consists of two different components, as well as wood construction screws and fixing screws. The two separate parts of Magnus are attached to the respective structural members using the wood construction screws and then slotted into one another smoothly without the need to apply force.

The two components are braced against one another using fixing screws. This provides effective prevention against the joint being loosened inadvertently.

With high verified load values, joints created by the Magnus can be statically loaded in five directions.

Installation can be both visible (for shadow-groove connections) and hidden (milled in).

Installation instructions

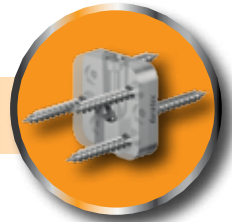
Hidden (milled-in) main/secondary beam joints

- 1** Adjust the end stop of the milling and assembly jig to the desired size of the Magnus hook connector, apply and screw on the milling and assembly jig, and create a routed slot with the corresponding groove-milling cutter.
- 2** The Magnus is then inserted into the routed slot and fastened in place using the supplied system screws. Following this, the milling and assembly jig is placed in the same position as before on the component that is to be connected, and the second part of the Magnus hook connector is screwed on. Pre-assembly is now complete, and the component being connected is hooked in place.
- 3** The fixing screws are then inserted into the Magnus. This pulls the Magnus hook connector together, if necessary, and ensures correct positioning of the node joint.

Installation can be both visible (for shadow-groove joints) and hidden (milled in). The assembly example shows hidden installation. In this type of installation, there is no need to mill out a slot, and the milling and assembly jig is used only as an assembly jig.

Magnus XS

Aluminium



Art. no.	Name	PU	Included in delivery
944874	Magnus XS, 30 x 30 mm	40 (= 20 connectors)	120 x TX15 fully threaded screws ¹⁾ 20 x TX15 fixing screws ²⁾ 1 x assembly instructions

¹⁾ 4,0 x 30 mm, blue galvanised, ²⁾ 4,2 x 26 mm, blue galvanised

Magnus L

Aluminium

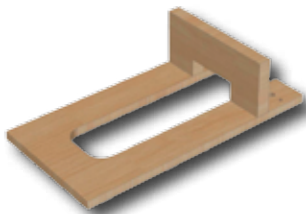


Art. no.	Name	PU	Included in delivery
944883	Magnus L, 110 x 260 mm	8 (= 4 connectors)	68 x TX30 fully threaded screws ¹⁾ 8 x TX20 fixing screws ²⁾ 1 x assembly instructions
944884	Magnus L, 110 x 300 mm	8 (= 4 connectors)	80 x TX30 fully threaded screws ¹⁾ 8 x TX20 fixing screws ²⁾ 1 x assembly instructions

¹⁾ 8,0 x 120 mm, blue galvanised, ²⁾ 4,8 x 60 mm, blue galvanised

Milling and assembly jig

for Magnus hook connector



Art. no.	Suitable for	PU
944867	Magnus XS	1
944870	Magnus L	1

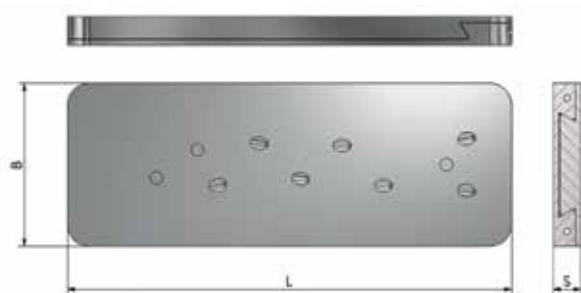
Milling cutter

for Magnus hook connector



Art. no.	Suitable for	PU
944936	Magnus XS	1
29696	Magnus L	1

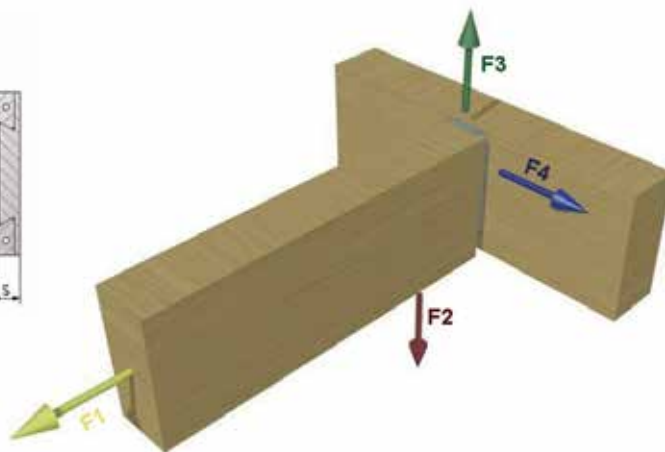
Technical data



Fully threaded screw



Fixing screw



Art. no.	Name	Dimensions W x L x T ^{a)} [mm]	No. of fully threaded screws [pcs.]	No. of fixing screws [pcs.]	Main beam		Secondary beam		Char. value of load-bearing capacity R_k ^{b)}			
					Min. width [mm]	Min. height [mm]	Min. width [mm]	Min. height [mm]	$F_{1,Rk}$ [kN]	$F_{2,Rk}$ [kN]	$F_{3,Rk}$ [kN]	$F_{4,Rk}$ [kN]
944874	Magnus XS	30 x 30 x 9	6	1	40	40	40	40	1,12	1,57	1,70	1,19
944883	Magnus L	110 x 260 x 19	17	2	120	280	120	280	13,93	45,13	23,00	17,98
944884	Magnus L	110 x 300 x 19	20	2	120	320	120	320	13,93	54,15	23,00	20,56

a) Width x length x thickness (assembly).

Calculation according to ETA-15/0761. Wood density $\rho_k = 380 \text{ kg/m}^3$. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations. All values are calculated minimum values and are subject to typographical and printing errors.

b) The characteristic values of the load-bearing capacity R_k should not be treated as equivalent to the max. possible load (the max. force).

Characteristic values of the load-bearing capacity R_k should be reduced to dimensioning values R_d with regard to the usage class and class of the load duration: $R_d = R_k \cdot k_{mod} / \gamma_M$.

The dimensioning values of the load-bearing capacity R_d should be contrasted with the dimensioning values of the loads ($R_d \geq E_d$).

Example: Characteristic value for constant load (dead weight) $G_k = 2,00 \text{ kN}$ and variable load (e.g. snow load) $Q_k = 3,00 \text{ kN}$. $k_{mod} = 0,9$. $\gamma_M = 1,3$.

→ Dimensioning value of the load $E_d = 2,00 \cdot 1,35 + 3,00 \cdot 1,5 = 7,20 \text{ kN}$. The load-bearing capacity of the joint is therefore considered to have been demonstrated if $R_d \geq E_d$.

→ $\min R_k = R_d \cdot \gamma_M / k_{mod}$ D.h., i.e. the characteristic minimum value of the load-bearing capacity is calculated based on: $\min R_k = R_d \cdot \gamma_M / k_{mod} \rightarrow R_k = 7,20 \text{ kN} \cdot 1,3/0,9 = 10,40 \text{ kN}$

→ comparison with table values.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

Urs and Urs mini tie bars

Anchor timber-frame constructions securely against tension

The problem

- Loading condition 1: loading in the plane of the wall
- Loading condition 2: loading transverse to the plane of the wall
- Single and double shear

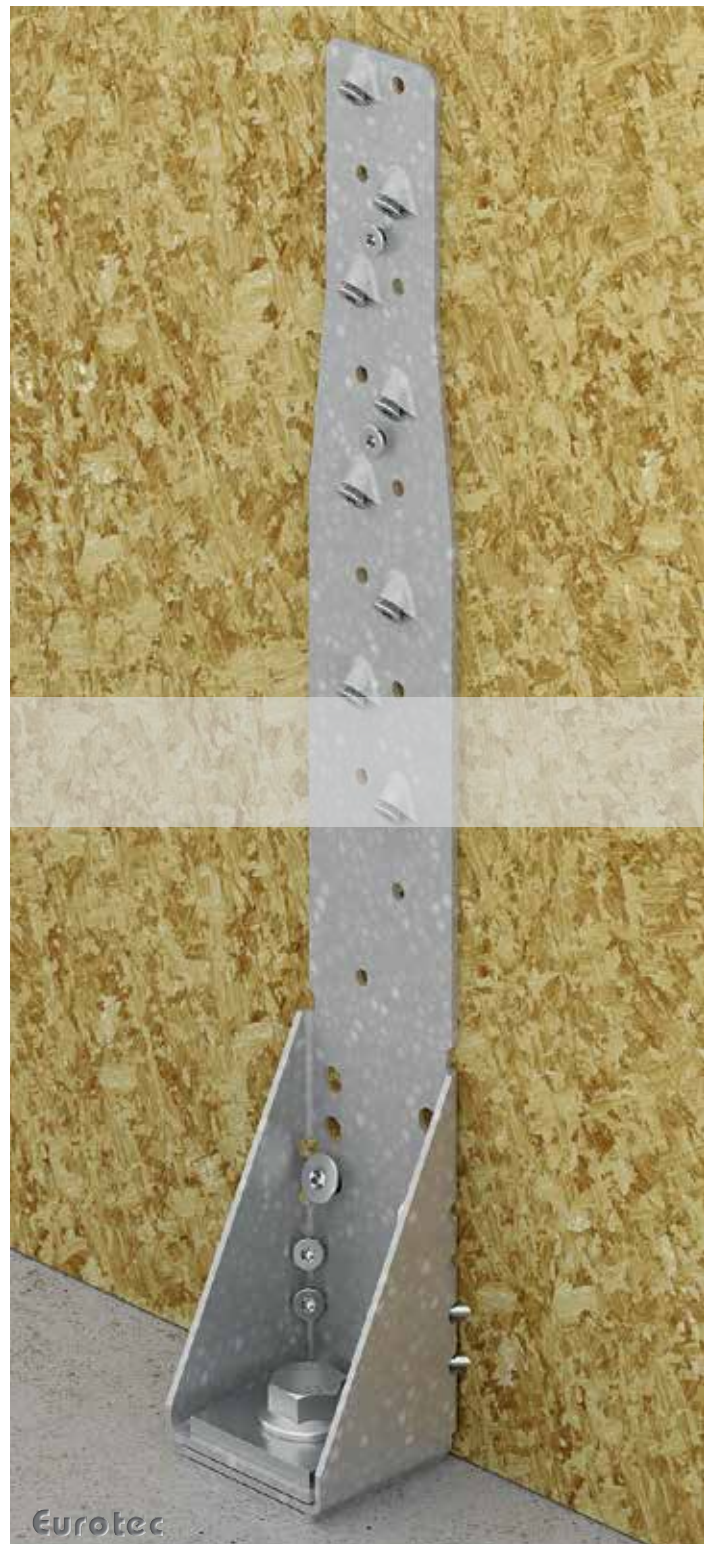
The solution

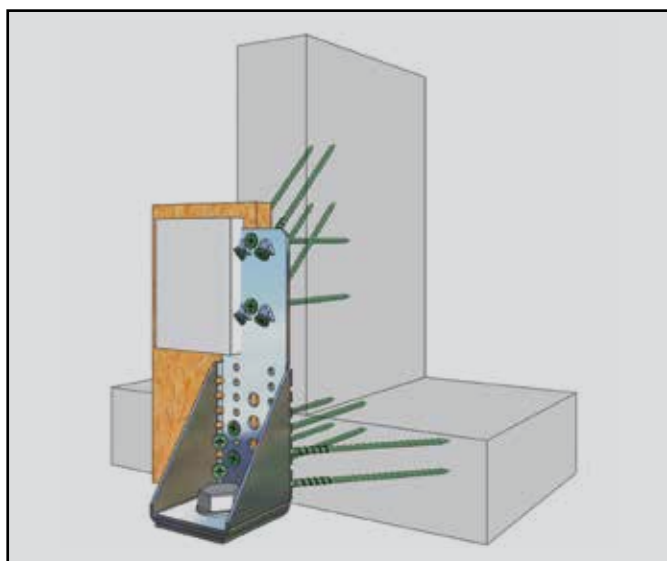
- Resolving forces solves problems

The advantages

- Screwing onto OSB/Fermacell® butt joint
- Assembly tolerance of 30 mm on the construction site
- Tension strap disappears into planking area
- Disappears into 180 mm screed area
- Supplied with fastening set
- With static calculation and mark of conformity
- Tension and longitudinal-shear anchoring (13,4 kN/1,3 kN)

The galvanised Urs and Urs mini tie bars can safely dissipate tensile and longitudinal-shear forces through the intermediate layer with no attenuation.





Urs mini tie bar

incl. fastening set



Art. no.

Dimensions (mm)*

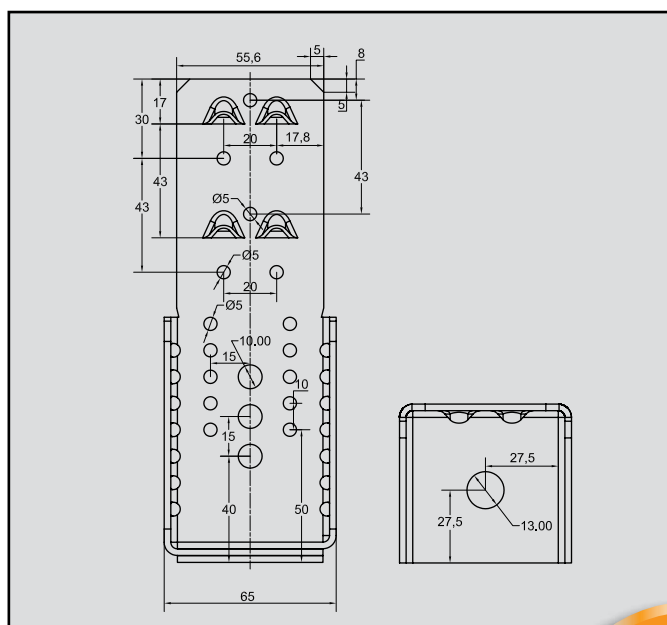
PU

954048

180 x 60 x 65 x 2,5

10

* Height x length x width x depth



Slanted screw connection

At the construction site, the Urs mini tie bar is placed on the planking and fastened to the timber post through the OSB/Fermacell® panel using the patented slanted screw connection.

Directly from the post into the Urs mini tie bar

The forces are transferred directly into the Urs mini tie bar via the supplied screws without subjecting the screws to shearing. The compressive component resulting from resolution of the forces is dissipated via the OSB/Fermacell® panel.

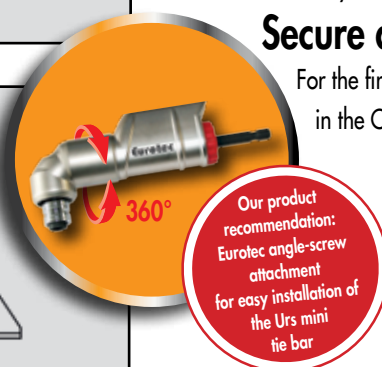
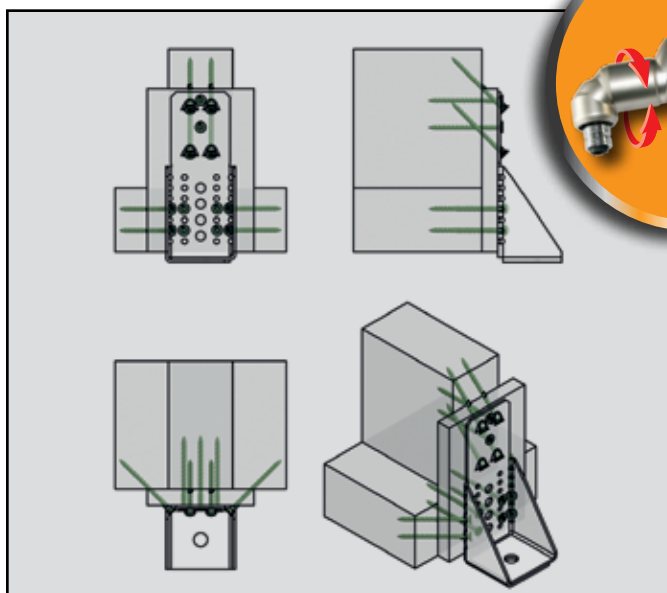
Assembly tolerance 30 mm

For all three force directions

Anchoring with the Urs mini tie bar is intended for the three loading directions z, x and y.

Secure anchoring in the butt joint

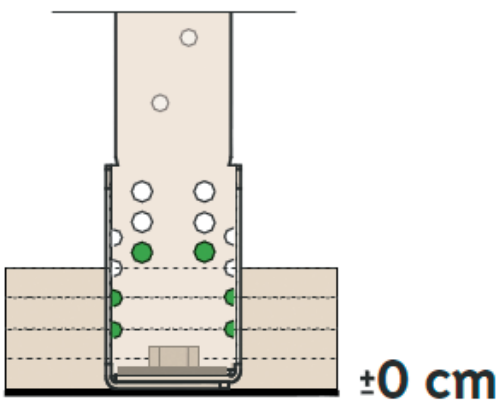
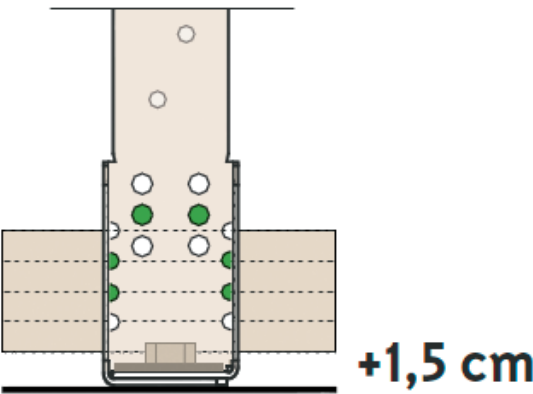
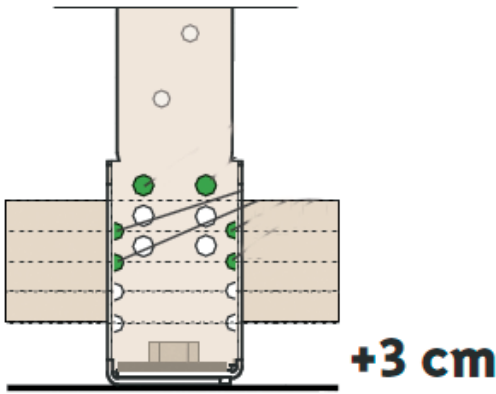
For the first time, an anchorage can also be used reliably in the OSB/Fermacell® butt joint without attenuation.



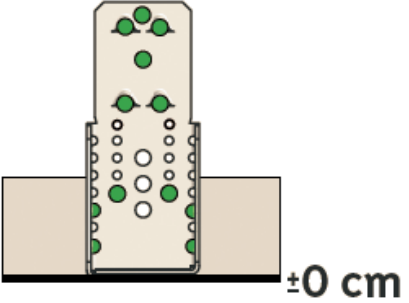
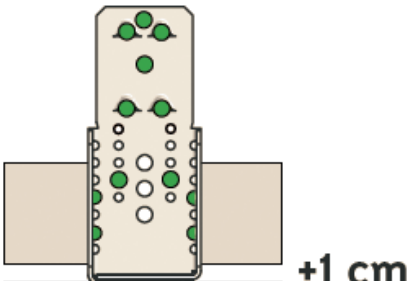
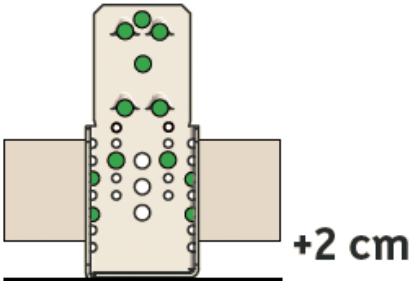
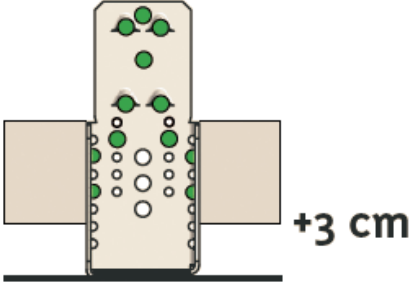
Urs mini tie bar

	Max. tension	
Loading condition 1: wind load z x	$R_{z,d} = 6,4 \text{ kN}$	Wall thrust / $R_{x,d} = 2,1 \text{ kN}$
Loading condition 2: wind load z y	$R_{z,d} = 6,4 \text{ kN}$	Wind suction / $R_{y,d} = 1,7 \text{ kN}$
	$R_{z,d} = 6,4 \text{ kN}$	Wind pressure / $R_{y,d} = 2,5 \text{ kN}$

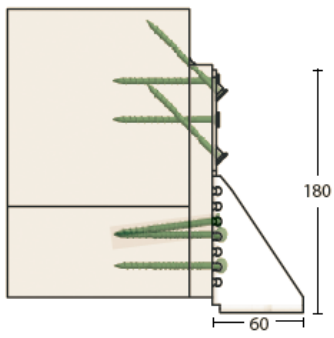
Urs tie-bar assembly instructions



Urs mini tie bar assembly instructions



Firstly the plug is installed in concrete, then the slanted screws* are installed*



* use a high-quality drill bit with three cutting edges

Simply tie bar

Anchor timber-frame constructions securely against tension



For quick and easy connections

The Simply tie bar allows quick and easy timber-timber, timber-concrete, timber-steel and timber-brickwork connections.

It is especially sturdy and can withstand extremely high loads.

It is an alternative to the Urs/Urs mini tie bar. The Simply tie bar has nail holes on one side and screw holes (including a slot) in the other.

Simply LL* tie bar

Slot, galvanised

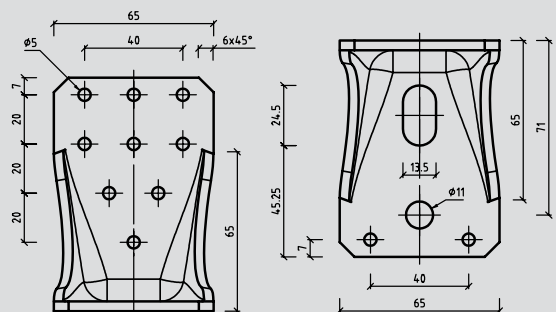


Art. no.	Dimensions (mm)*	PU
954056	95 x 88 x 65 x 4	25
954057	135 x 88 x 65 x 4	25
954058	285 x 88 x 65 x 4	25

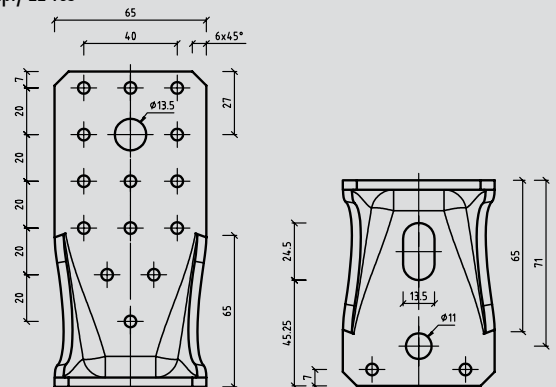
* Height x length x width x depth

	Holes	
Tie bar	Ø mm	Quantity
Simply LL 95	5 13,5 (x24,5) 11	9 + 2 0 + 1 0 + 1
Simply LL 135	5 13,5 (x24,5) 11	14 + 2 1 + 1 0 + 1
Simply LL 285	5 13,5 (x24,5) 11	28 + 2 3 + 1 0 + 1

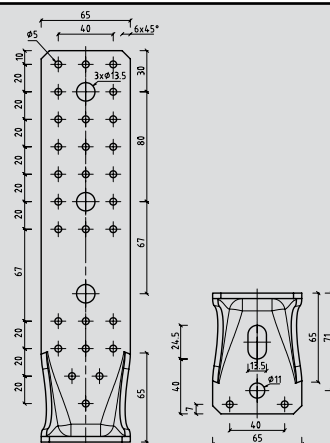
Simply LL 95



Simply LL 135



Simply LL 285



Angle bracket

Hot-dip galvanised steel

Angle bracket

with a rib

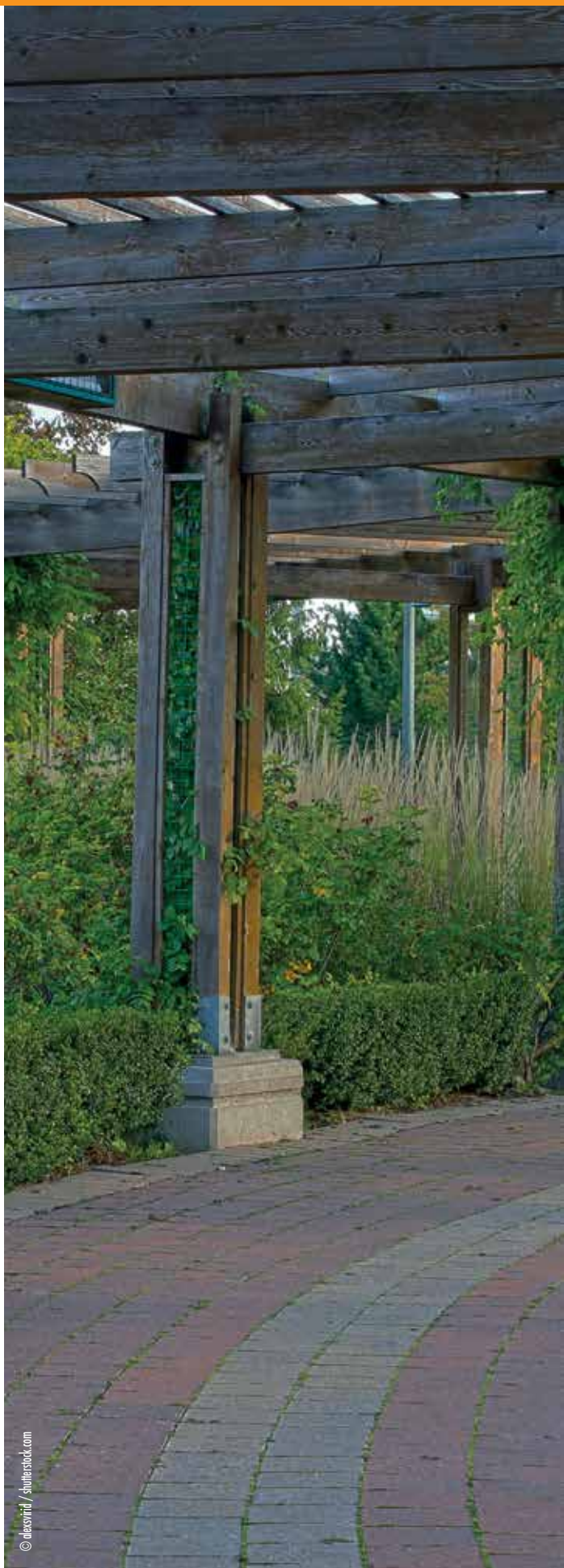


Art. no.	Dimensions ^{a)} (mm)	Drill holes ^{b)} (mm)	PU
904725	70 x 70 x 55	16 x 5 / 2 x 11	100
904726	90 x 90 x 65	20 x 5 / 2 x 11	100
904727	100 x 100 x 90	24 x 5 / 4 x 13	50

a) Length x width x height

b) Number x Ø

- High stability thanks to reinforced rib
- Excellent corrosion protection thanks to hot-dip galvanisation





Our competencies

Cold forming



Cold forming refers to the targeted deformation of metals below their recrystallisation temperature. This production technique is used primarily in our timber construction and concrete screws. Cold forming within the framework of our screw production involves feeding a plain wire into a machine, where it is successively straightened, cut to length, upset, reduced, rolled and, if necessary, milled.

The advantages of this production technique include, above all, the high degree of dimensional and geometrical accuracy it offers despite the high output quantity, as well as minimal material loss in the course of production and increased strength of the end product thanks to so-called strain hardening.

Extrusion technology



In the extrusion process, a raw material is heated and then squeezed under pressure through a shaping tool.

The result is a straight strand that can be cut to any desired length. This process is applied in, among other products, our aluminium profiles and WPC deck boards. The key benefit is that highly complex shapes can be produced in long lengths and with the utmost precision.

Plastic injection-moulding process



Plastic is a highly versatile material and can therefore be used for a wide range of products and applications. You will find this raw material in, among other products, our adjustable pedestals for deck substructures, some fasteners for deck coverings, adjustment blocks, assembly wedges, insulation-panel holders and plugs. In the plastic injection-moulding process, powdered or granulated plastic raw material is melted by applying heat.

The resulting molten substance is then squeezed under high pressure into so-called pockets in an injection mould. In the course of the cooling process, the molten material sets into a solid, allowing the moulded parts to be ejected from the moulds. The particular advantages of this process include the short production turnaround times, almost unlimited design possibilities in the injection-moulded parts and the fact that the completed parts require only minimum finishing work.

Stamping and stampingbending technology



Stamping and stamping-bending technology can be used to stamp interior and exterior contours from sheets of various thicknesses and materials and to shape them as desired. This production technique is applied in, among other products, some deck fastening systems, the Façade clip and tie rods. Thanks to the latest compound tool-sets, we are able to fabricate even complex stamped-bent and deep-drawn parts. Here, there are almost no limits to the choice of materials and subsequent surface treatment.

Wood-concrete composite

Strengthening of ceiling frameworks in new builds and renovations



High load capacities at the widest possible spans require, above all, high rigidity, i.e. low sagging of the ceiling framework under load. Here, timber joist ceilings reach the limits of what is possible relatively quickly with regard to usability. Combining wood and reinforced concrete using the TCC screw exploits the best properties of these two materials to achieve a framework with a high load-bearing capacity.

The wood-concrete composite system is used both in new builds and in the renovation of residential and commercial buildings. In new builds, increased spans can therefore be taken into account at the planning stage. This technique can also be especially useful in the case of buildings affected by changes of use.

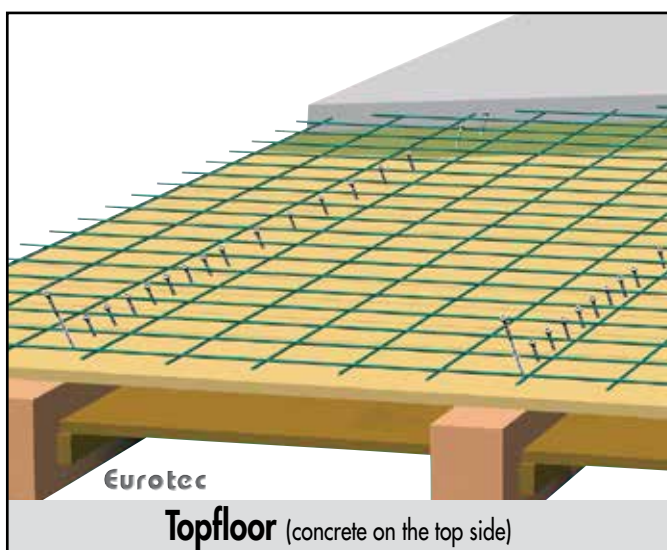
Strengths of the wood-concrete composite system

- Increased load-bearing capacity
- Increased rigidity
- Improved sound insulation
- Increased fire resistance
- The existing joists are retained
- The boarding can be retained (Topfloor system)
- The assembly height is not significantly altered (Slimfloor system)

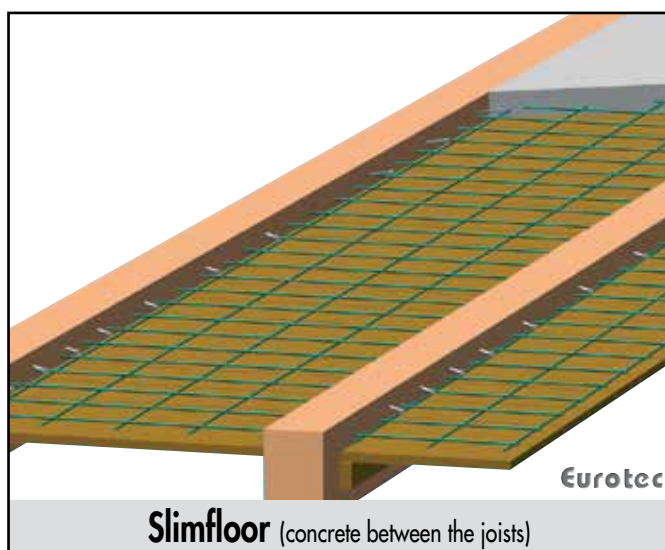


Wood-concrete composite

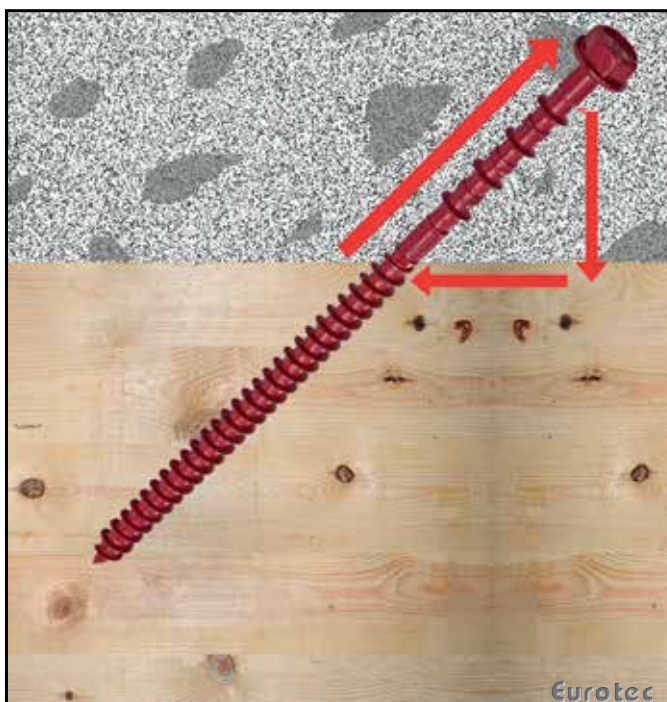
Composite screw



Topfloor (concrete on the top side)

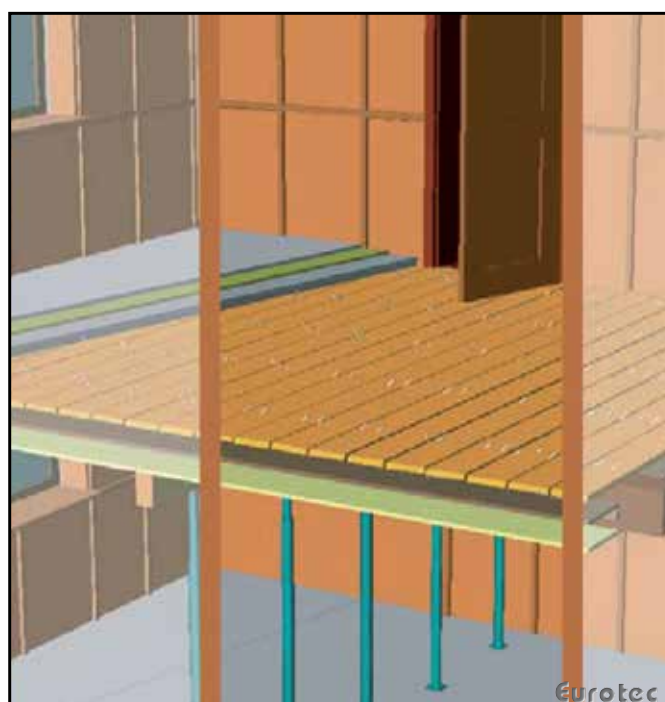


Slimfloor (concrete between the joists)



Intelligent load conversion

The ceiling load is resolved into compression components between the concrete and timber and tension components in the special screw.



Construction in the existing structure

Props lift the sag of the existing ceiling joists.

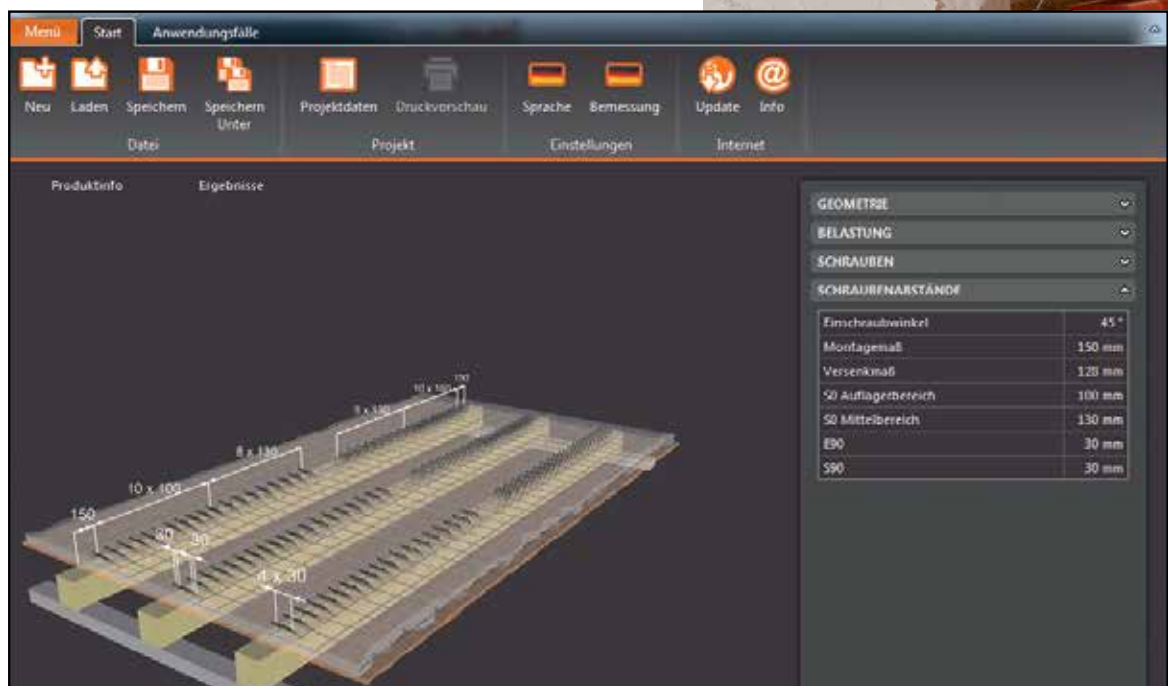
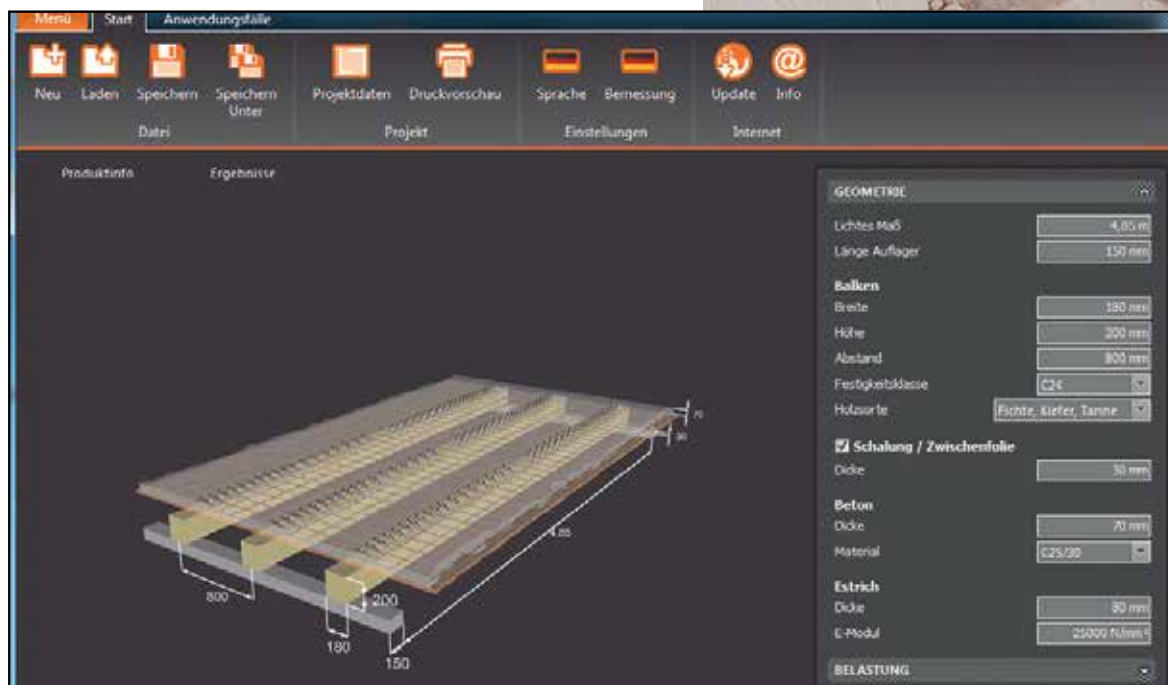
Calculation aid

Projects for the wood-concrete composite system are precalculated by Eurotec. A customised software program based on Mathcad is available for this.

Please contact us:

Tel. 0049 (0) 23 31 - 62 45-0

E-Mail: info@e-u-r-o-tec.de



Beam/slab grip with ratchet

An indispensable aid for carpenters

Beam/slab grip = less force required

The beam/slab grip with ratchet is an indispensable aid for carpenters. Whether you want to align a roof truss or carry out other carpentry work, the beam/slab grip allows you to prestress timber quickly and easily.

Advantages beam grip

- Drop forged hooks
- No risk of splitting while driving in
- High-quality lead screw
- 320 mm ratchet length for optimum load transmission
- Double-sided handling thanks to clockwise/counterclockwise selector



Slab grip properties

- Boss plate rotates through 360°
- 11 attachment points per boss plate: → 8 x Ø 9 mm, → 3 x Ø 12 mm
- Maximum span: 670 mm

Advantages of the slab grip

- Minimal processing marks thanks to attachment using timber-construction screws
- Suitable for hard-to-reach locations (e.g. in angled areas such as roof slopes, etc.)
- Allows corner joints to be drawn together
- Suitable for timber types with an increased risk of cracking and splintering



Beam grip

with ratchet, forged steel



Art. no.	Dimensions (mm)	Span width (mm)	PU
954054	320	Up to 600	1

Bracing strap tensioner

suitable for the beam grip with ratchet



Art. no.	Strap	PU
954055	for 2 mm bracing strap	1

Slab grip

with ratchet



Art. no.	Span width (mm)	PU
954037	Up to 670	2

Carpenter's hammer

Eurotec carpenter's hammer

The carpenter's hammer is used primarily in timber-frame construction but also in formwork. One side of the hammer is for driving in nails, and the other has a claw with an extended point on one side. The surface of the hammer face is ribbed in order to prevent it slipping off the nail heads.

The Eurotec carpenter's hammer is fitted with a magnetic nail holder so that nails can be inserted easily overhead, in hard-to-reach locations, or in locations that can't be reached with both hands. The nails are placed on the hammer face, where they are held in position by the magnet and can then be hammered in.

The claw of the hammer is excellently suited to pulling out nails, and the point is ideal for moving and aligning heavy timbers, e.g. rafters and purlins.

Carpenter's hammer



Art. no.	Dimensions (mm) *	Weight (g)	PU
800378	330	600	1
* Total length			

Product properties

- Equipped with magnetic nail holder
- VPA/GS-tested and -certified



Wall support

Provides support during the installation of prefabricated walls

Makes the assembly of prefabricated walls significantly easier

Thanks to their high load-bearing capacity, the Eurotec wall supports can support walls until they are fully assembled without any problems and therefore take the place of many helping hands. A locking pin system allows especially quick and easy adjustment of the wall support's height. Subsequent fine adjustment is also possible using threaded rods.

Wall support

galvanised



Art. no.	Length (mm)	Angle of inclination	PU
803572	1600-3000	max. 45°	1

Adjustment range of 160 - 300 cm:

- Basic adjustment via 13 stop positions at intervals of 10,6 cm
- Fine adjustment with an adjustment range of 19 cm

Advantages

- Universal application
- Easy operation
- Fast assembly
- Almost no force needed from the user
- Very secure and sturdy
- Saves time

Transport anchor system

Transport anchor and transport anchor screws

The secure lifting system

Made of high-grade steel, this lifting attachment is used to lift all kinds of timber parts safely and easily. The transport anchors of the load group up to 1,3 tonnes are strictly to be used only in conjunction with the Ø 11 x 125 mm and Ø 11 x 160 mm Eurotec transport anchor screws. The Eurotec transport anchor screws must only be used once. They are to be screwed into solid wood (softwood), laminated veneer timber, glued laminated timber, cross laminated timber, stacked planks and laminated joists without pilot-drilling. Use in hardwoods is not permitted. The possible, or rather permissible, assembly positions can be found in our operating instructions, of which we will be delighted to provide you with a copy.

Please note

- Transport anchor screws must only be used once
- Insert the screws without pilot-drilling
- Read the operating instructions in detail before use
- Users are to be trained before beginning use for the first time
- The transport anchor is to be examined for damage before each use and rejected if necessary
- The weight of the component to be lifted must not exceed the permissible value
- At least two attachment points per component to be lifted

Permissible lifting load ^{a)} per attachment point ^{b)}

	γ ^{d)}	α ^{d)}	11 x 125 mm	11 x 160 mm
Axial tension	60°	60°	533 kg	603 kg
	60°	30°	409 kg	462 kg
Diagonal tension	60°	90°	462 kg	522 kg
	60°	0°	139 kg	157 kg

a) Calculation according to ETA-11/0024 with wood density $\rho_k = 350 \text{ kg/m}^3$; $k_{mod} = 0,9$; $\gamma_M = 1,3$; $\gamma_c = 1,35$; $g = 9,81 \text{ m/s}^2$ and dynamic factor $\phi_2 = 1,16$.

All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.

All values are calculated minimum values and are subject to typographical and printing errors.

b) At least two lines must be used per component to be lifted. Each line leads to exactly one attachment point. If more than two lines are attached, only two attachment points can be assumed to be load-bearing unless it is ensured that the load is distributed evenly onto further lines (e.g. using a compensator) or that the uneven load distribution does not exceed the permissible loading of the individual lines.

c) γ - inclination angle of line (chain, rope, lifting strap etc.); at least 60° according to BGR 500

d) α - angle between grain direction and screwing axis

Please note: These are planning aids. Projects must only be dimensioned by authorised persons.

Transport anchor

high-quality steel



Art. no.	Dimensions (mm)*	Load group	PU**
110361	190 x 70	up to 1,3 tons	2

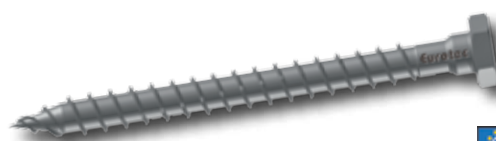
* Length x width

** Screws must be ordered separately (see below)

Transport anchor screw

high-quality steel, with AG tip

NEW
to our product range
11 x 125 mm



Art. no.	Dimensions (mm)	Head	PU
110359	11 x 125	SW17	20
110360	11 x 160	SW17	20

• AG screw tip

Axial tension



Diagonal tension



Eurotec

Japanese saw/Folding cutter/-set

Tools for every craftsman's toolbox

Low force exertion thanks to thin saw blade

A Japanese saw is a collapsible handsaw and the counterpart of the precision saws that are common in Europe. The key difference is that Japanese saws only cut on the pull stroke. The especially thin saw blade is a great advantage, along with the associated fine cut, which is achieved with low force exertion. Thanks to the extremely sharp trapezoidal toothing, the cutted timber no longer requires finishing. This saves time and offers attractive results.

Advantages

- Easy handling, fine cuts and flexible saw blade
- Low force exertion and material wear
- Saves time

Please note

- The cutting surfaces are very sharp
- Practise handling before first use to avoid injuries

Japanese saw

collapsible



Art. no.	Length of saw blade (mm)*	Total length (mm)**	PU
800400	240 x 35 x 1	530/200	1

• Application areas: carpentry crafts, tree care, pruning of trees etc.

Spare blade

for Japanese Saw



Art. no.	Dimensions (mm)*	PU
800401	240 x 35 x 1	1

* Length x width x thickness, ** Total length / handle length

Folding cutter

Supplied with presentation display



Art. no.	Description	PU
800411	Ind. 5 replacement blades	6

Folding cutter set

Supplied with presentation display

NEW
to our product range



Art. no.	Description	PU
800408	Ind. 5 replacement blades and 1 knife pouch each	6

Advantages

- Effective blade length 40% greater than with standard cutters
- Quick-change mechanism
- Thumb rest
- Secure blade locking and unlocking
- Stainless steel housing
- Blade can be locked in 4 positions
- Non-slip grip
- Compatible with standard blades

Insulation knife, Ripsaw

Universal application for various insulating materials

The Eurotec insulation knife stands out in particular thanks to its innovative stainless-steel blade. It differs from conventional insulation knives in its special design and specially ground cutting surface. This ensures that various insulating materials can be cut effortlessly and without tearing, and that the insulation knife does not get stuck. The special knife tip allows you to drill or cut holes into the insulating materials for items that penetrate the insulation. The ergonomic plastic handle has a practical hole for hanging.

Insulation knife

stainless steel blade



Art. no.	Name	Blade (mm)	PU
800410	Insulation knife	340 x 50	1

- Total length: 480 mm
- Blade length: 340 mm
- Blade width: 50 mm
- Material: blade made of stainless steel, handle made of plastic

Saws timber, timber-based materials and plastic

Thanks to its easy handling, the ripsaw from Eurotec can be used as an ideal complement to the electric saws commonly used in timber construction. One clear advantage over classic hand-operated ripsaws is the alternating triple-ground trapezoidal toothing, which allows fine yet rapid cutting with little expenditure of force. With a length of 500 mm, the saw blade cuts only on the pushing stroke and has extra posthardening in the cutting area, delivering a significant reduction in wear. The comfortable handle offers sufficient space for each hand and allows precise handling, as well as optimum force transmission.

Ripsaw

Universal saw



Art. no.	Name	Length (mm)	PU
800405	Ripsaw Universal saw	500	1

Advantages

- Fine cuts, low force exertion
- Time saving due to high cutting speed
- Comfortable handle with non-slip rubber inlay
- Extra posthardening on toothing; less wear
- Handle with 45° and 90° guides for use as an angle template

Please note

- The cutting surfaces are very sharp
- Practise handling before first use to avoid injuries

Available
as a set of 12 units
in a presentation
display



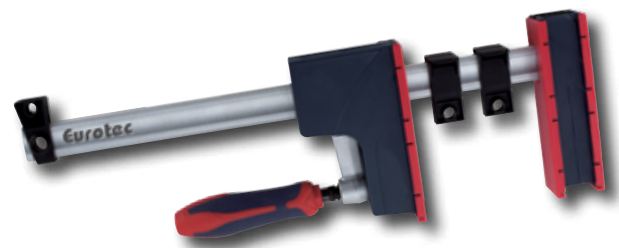
Screw clamp

An extremely robust screw clamp for professional use

The Eurotec screw clamp offers a multitude of useful properties that will be appreciated by professional users in particular. It is extremely robust and provides very user-friendly operation.

The clamp also has workpiece-protecting bearing surfaces that ensure the material remains undamaged even if large clamping forces are applied.

Screw clamp



Art. no.	Dimensions ^{a)} (mm)	PU
800388	600 x 95	1
800389	800 x 95	1
800390	1000 x 95	1
800391	1250 x 95	1
800392	1500 x 95	1
800393	2000 x 95	1

a) Span x projection

Advantages

- Extremely sturdy sliding bar
- Ergonomic, non-slip twist handle
- Replaceable and very wide load plates
 - Gentle on the workpiece
 - Comes supplied with one replacement load plate
- High impact strength
- Clip-on bearing plates for the sliding bar
 - Guarantees level support on the workpiece and therefore also protection against points of compression

Scaffold ratchet

The „must-have“ tool for scaffolding and stage construction

This professional scaffolding ratchet was developed specially for the construction and dismantling of scaffolds of all kinds. It can be used for all common nuts, couplings and special couplings that arise in scaffold construction. This ratchet is a tool for professional users and stands up to the requirements of the scaffold construction industry.

High-quality chromium/vanadium steel, a double socket with multiple stages of annealing, and a large switch for the clockwise and anticlockwise directions of rotation make this scaffolding ratchet a “must-have” tool for scaffold and stage construction. Other key features of this versatile product include a forged shaft and a long service life.

Scaffold ratchet



Art. no.	Opening size	PU
800385	10 - 13 - 14 - 17 - 19 - 22 - 24 - 27	1



Art. no.	Opening size	PU
800386	19 - 22	2

Advantages

- Made of high-quality chromium/vanadium steel
- Double socket with multiple stages of annealing
- Switch for clockwise or anticlockwise rotation
- Long service life
- Suitable for a wide range of applications
- Easy operation
- Allows flexible working



Auger bit

Eurotec auger bits

Eurotec auger bits are ideal for creating deep drill holes and for drill holes with a wide diameter. They can be used both for drilling into end grain and for drilling perpendicular to the grain.

The special shape of the conveyor screw ensures a high removal rate and carries the wood chips out of the drill hole without blocking, even in the case of deep drill holes. The centre point with an integrated feed screw prevents the drill from slipping and ensures that it feeds into the material independently even at low speeds.

A pre-cutter on the drill point prevents splitting of wood fibres and creates a clean cutting edge.

Auger bits are often used to create through holes in beams and rafters, e.g. for construction screws, rafter nails, tapping holes, dowels, etc.



Auger bit



Product advantages

- Precise positioning ensured thanks to spiral-shaped tip
- Specially shaped transport screw
 - Virtually no expenditure of force required
 - Allows a fast rate of drilling
 - High removal rate
 - Suitable for especially deep drill holes
- Centre point with integrated feed screw
 - Prevents drill from slipping
 - Feeds into material independently, thereby reducing the effort required
 - Low speeds possible
- Pre-cutter on drill point
 - No chipping around drill hole
 - Draws itself into the workpiece quickly and without causing splintering
 - No need for finishing work on the cutting edge
- A hexagonal shaft ensures that the drill is gripped securely in the chuck
- Ideal for through holes and pilot-drilling

Art. no.	Dimensions (mm) *	PU
800415	8,0 x 235	1
800425	8,0 x 320	1
800435	8,0 x 460	1
800416	10,0 x 235	1
800426	10,0 x 320	1
800436	10,0 x 460	1
800417	12,0 x 235	1
800427	12,0 x 320	1
800437	12,0 x 460	1
800428	14,0 x 320	1
800438	14,0 x 460	1
800429	16,0 x 320	1
800439	16,0 x 460	1
800449	16,0 x 650	1
800430	18,0 x 320	1
800440	18,0 x 460	1
800450	18,0 x 650	1
800431	20,0 x 320	1
800441	20,0 x 460	1
800451	20,0 x 650	1
800432	22,0 x 320	1
800442	22,0 x 460	1
800452	22,0 x 650	1

* Ø x length

Auger bit set

NEW
to our product range



Art. no.	Dimension/bit (mm)	PU
800455	8,0 x 320 - 10 x 320 - 12 x 320 - 14 x 320 16 x 320 - 18 x 320 - 20 x 320 - 22 x 320	1

Hammer tacker

This extremely durable and reliable hammer tacker from Eurotec allows maximum impact force for minimum force exertion. The ergonomic grip for fatigue-free working and the spring-back head underline the outstanding quality of this product.

We guarantee you simple and rapid handling in a wide range of areas and on all types of wood, e.g. when attaching insulation materials, underlay/housewrap, etc.

Hammer tacker

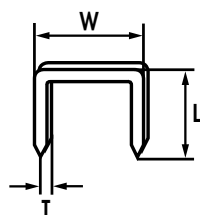


Art. no.	Dimensions (cm)	Weight (g)	PU
800376	31 x 3,7 x 7,2	912	1

- Ergonomic soft-touch handle
- Easy reloading of the magazine
- Capacity of up to 168 brackets
- Delivers maximum impact force

**And
to go
with it**

Hammer tacker brackets



Art. no.	Length (L/mm)	Width (W/mm)	Thickness (T/mm)	PU
800371	6	10,6	1,25	5000
800372	8	10,6	1,25	5000
800373	10	10,6	1,25	5000
800374	12	10,6	1,25	5000



NEW
to our product range

Protective helmet (EN 397)

Perfect protection for work at a height and at ground level

NEW
to our product range

Eurotec protective helmet

The Eurotec protective helmet is certified according to EN 397.

Its ten ventilation slots provide ideal ventilation but prevent dirt from entering thanks to their net covering.

The helmet also features four-point suspension and a preinstalled four-point nylon chinstrap that guarantees a safe and secure fit.

Thanks to a control dial system (at the back), the helmet can be adjusted easily to the correct head size (51–62 cm)

and therefore offers maximum wearing comfort.

Four clips on the outside additionally allow the attachment of external equipment (e.g. a head torch).

Advantages and product properties

- Optimum protection for work at a height and at ground level
- Control dial system allows adjustment to head size
→ Adjustable head size from 51 to 62 cm
- Efficient ventilation system thanks to 10 ventilation slots
- Four-point nylon chinstrap
- Lightweight and therefore very comfortable to wear
- Certified according to EN 397



Quick and easy
control dial system for
a perfect fit on the head.



The ventilation system
provides a pleasant
cooling effect.

Protection helmet

Black



Art. no.	Head circumference (cm)	Total weight (g)	PU
800397	51 - 62	375	1

Protection helmet

Pink



Art. no.	Head circumference (cm)	Total weight (g)	PU
800399	51 - 62	375	1

Protection helmet

White



Art. no.	Head circumference (cm)	Total weight (g)	PU
800398	51 - 62	375	1



1 The ventilation slots provide a pleasant cooling effect

2 The clips allow secure attachment of a head torch

3 An unobtrusive slot for attachable ear defenders

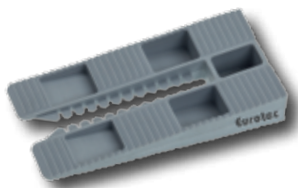
4 The padded lining is made of comfortable nylon

5 Quick and easy control dial system for a perfect fit on the head

Assembly wedges, adjustment blocks

Assembly block

With slit



Art. no.	Dimensions ^{a)} (mm)	Load-bearing capacity (kg)	Height adjustment (mm)	Colour	PU
964550	70 x 35 x 10	≤ 200	10 - 15	yellow	1000
964551	77 x 38 x 10	≤ 200	10 - 15	white	1000
964552	88 x 43 x 15	≤ 300	15 - 22	grey	500
964553	140 x 43 x 25	≤ 500	25 - 42	black	364

a) Length x Width x Height

- Firm grip thanks to special profiled surface
- Slit allows it to be slid onto nails and screws
- Serration inside the slit prevents it from slipping off the nail or screw

Adjustment block

With slit



Art. no.	Dimensions ^{a)} (mm)	Load-bearing capacity (kg)	Colour	PU
964561	80 x 50 x 1	≤ 200	blue	1000
964562	80 x 50 x 2	≤ 200	white	1000
964563	80 x 50 x 3	≤ 200	red	1000
964564	80 x 50 x 4	≤ 200	black	1000
964565	80 x 50 x 5	≤ 200	green	1000
964566	80 x 50 x 10	≤ 200	yellow	500

a) Length x Width x Height

- Slit allows it to be slid onto nails and screws
- The adjustment blocks can be connected to one another as required
- Serration inside the slit prevents it from slipping off the nail or screw

Assembly block

Closed



Art. no.	Dimensions ^{a)} (mm)	Load-bearing capacity (kg)	Height adjustment (mm)	Colour	PU
964546	65 x 28 x 8	≤ 200	8 - 12	red	1000
964547	88 x 43 x 15	≤ 500	15 - 22	grey	550
964548	140 x 43 x 25	≤ 800	25 - 42	black	364
964549	140 x 43 x 25	≤ 2000	25 - 42	blue	364

a) Length x Width x Height

- Firm grip thanks to special profiled surface

Adjustment block



Art. no.	Dimensions ^{a)} (mm)	Load-bearing capacity (kg)	Colour	PU
964554	80 x 50 x 2	≤ 2000	red	500
964555	80 x 50 x 3	≤ 2000	green	500
964556	80 x 50 x 5	≤ 2000	blue	500
964557	80 x 50 x 7	≤ 2000	brown	500
964558	80 x 50 x 10	≤ 2000	black	500
964559	80 x 50 x 15	≤ 2000	yellow	250
964560	80 x 50 x 20	≤ 2000	black	250

a) Length x Width x Height

- High compressive strength
→ Load-bearing capacity of 2 tons
- When the blocks are stacked, peg and hole connections prevent them from sliding across one another sideways
- Pegs disappear under loading

Mini adjustment block

With slit



Art. no.	Dimensions ^{a)} (mm)	Load-bearing capacity (kg)	Colour	PU
964567	50 x 38 x 1	≤ 200	blue	500
964568	50 x 38 x 2	≤ 200	white	500
964569	50 x 38 x 3	≤ 200	red	500
964570	50 x 38 x 4	≤ 200	black	500
964571	50 x 38 x 5	≤ 200	green	500
964572	50 x 38 x 10	≤ 200	yellow	500

a) Length x Width x Height

- Slit allows it to be slid onto nails and screws
- Serration inside the slit prevents it from slipping off the nail or screw

Hint
With our practical mixed boxes, you are equipped for every application. The boxes are available in five different assortments.

Mixed box, assembly wedges

With and without slit



Art. no.	Contents (240 pcs.)	PU
964575	80 pcs. 964546 60 pcs. 964550 50 pcs. 964551 40 pcs. 964547 10 pcs. 964548	1 box

Mixed box, adjustment blocks

With slit



Art. no.	Contents (250 pcs.)	PU
964576	45 pcs. each 964561, 964562, 964563, 964564, 964565 & 25 pcs. 964566	1 box

Mixed box, assembly wedges

With slit



Art. no.	Contents (100 pcs.)	PU
964573	50 pcs. each 964553, 964552	1 box

Mixed box, adjustment blocks



Art. no.	Contents (140 pcs.)	PU
964574	50 pcs. 964554 25 pcs. each 964555, 964556, 964558 15 pcs. 964560	1 box

Mixed box, mini adjustment blocks

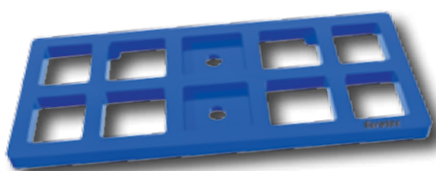
With slit



Art. no.	Contents (450 pcs.)	PU
964577	100 pcs. each 964567, 964568, 964569, 964570 25 pcs. each 964571, 964572	1 box

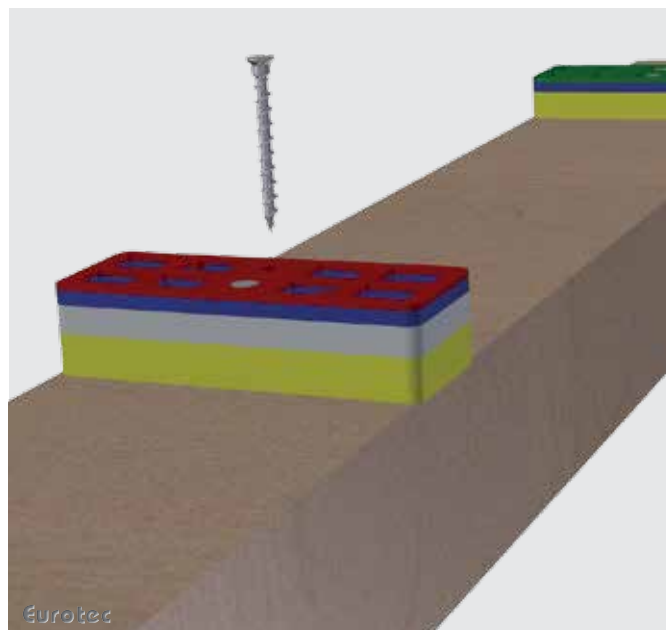
Thanks to the transparent transport box and the different colours, you can be sure of finding the right wedge quickly!

Adjustment block L



Art. no.	Dimensions ^{a)} (mm)	Load bearing capacity (kg)	Colour	PU
964578	120 x 50 x 2	≤ 4000	red	250
964579	120 x 50 x 3	≤ 4000	green	250
964580	120 x 50 x 5	≤ 4000	blue	250
964581	120 x 50 x 10	≤ 4000	white	100
964582	120 x 50 x 15	≤ 4000	yellow	100

a) Length x Width x Height



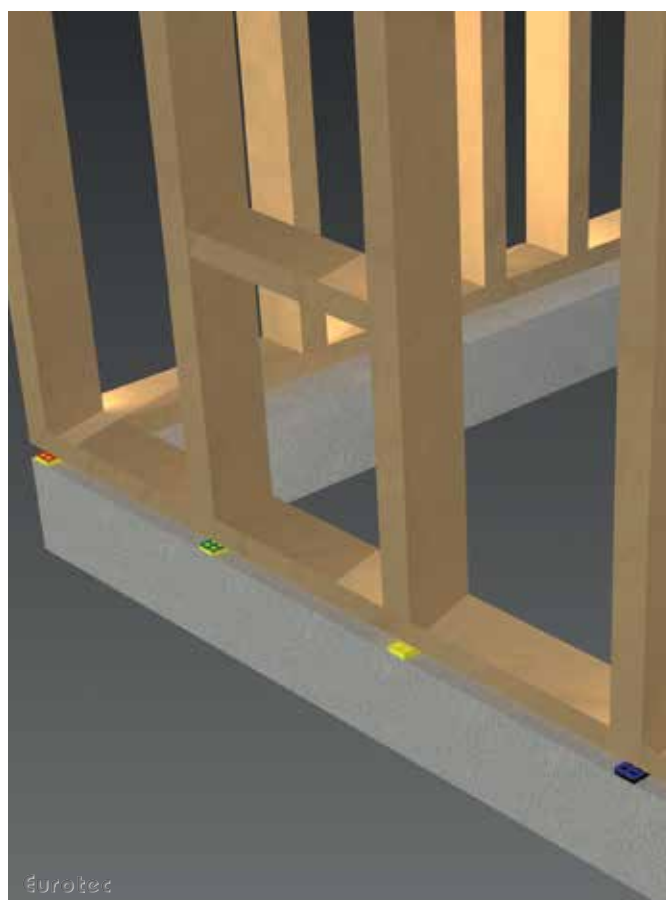
Adjustment block XL



Art. no.	Dimensions ^{a)} (mm)	Load bearing capacity (kg)	Colour	PU
964583	160 x 50 x 2	≤ 4000	red	250
964584	160 x 50 x 3	≤ 4000	green	250
964585	160 x 50 x 5	≤ 4000	blue	250
964586	160 x 50 x 10	≤ 4000	white	100
964587	160 x 50 x 15	≤ 4000	yellow	100

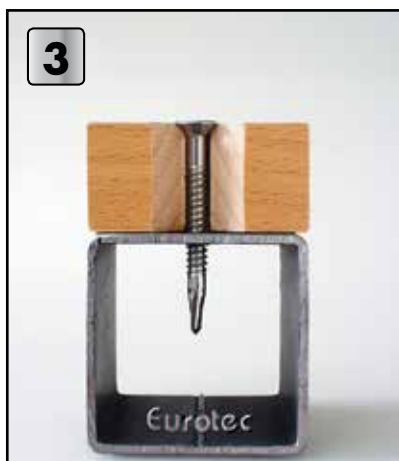
a) Length x Width x Height

- Suitable for adjusting the height of stud frames
→ Constructive timber protection when used in lining timber stud frames
- High compressive strength
→ Load-bearing capacity of 4 tons
- Two screw holes for fixing in place with screws
- When the blocks are stacked, peg and hole connections prevent them from sliding across
→ Pegs disappear under loading



Balcony board wing-tipped drilling screw

Not only suitable for balcony boards



Balcony board wing-tipped drilling screw

hardened stainless steel or blue galvanised



Art. no.	Dimensions (mm)	Drive	Clamping thickness ^{a)}	Drilling capacity
Hardened stainless steel:				
901990	4,8 x 38	TX25 ●	20	4
111404	5,5 x 45	TX30 ●	25	5
111405	5,5 x 50	TX30 ●	30	5
111406	6,3 x 60	TX30 ●	35	6
901581	6,3 x 85	TX30 ●	60	6
901584	6,3 x 110	TX30 ●	85	6
Blue galvanised:				
111841	4,2 x 32	TX20 ●	15	3
111842	4,2 x 38	TX20 ●	20	3
111843	4,8 x 45	TX25 ●	25	4
111844	5,5 x 50	TX30 ●	30	5
111409	5,5 x 60	TX30 ●	40	5
111410	5,5 x 70	TX30 ●	50	5
111411	5,5 x 80	TX30 ●	60	5
111412	5,5 x 100	TX30 ●	80	5
111408	5,5 x 120	TX30 ●	100	5
111845	6,3 x 50	TX30 ●	25	6
111846	6,3 x 60	TX30 ●	35	6
111847	6,3 x 70	TX30 ●	45	6
111848	6,3 x 80	TX30 ●	55	6
111414	6,3 x 100	TX30 ●	75	6
111415	6,3 x 120	TX30 ●	95	6

a) Clamping thickness = mounted part thickness + plate thickness t; t_{max} = drilling capacity

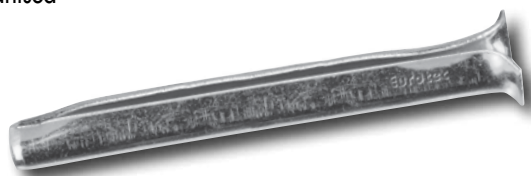
- No pilot-drilling necessary – the wings drill the timber wider than the thread diameter
- The screw drills/cuts its own core hole and mating thread in the steel
- Screws made of galvanised carbon steel or hardened stainless steel according to DIN 10088
- Hardened stainless steel can be magnetised
- Galvanised steel and hardened stainless steel are not resistant to acids. They are therefore also not suitable for fastening woods that contain tannin (e.g. oak)
- The screw is suitable for use in timber-steel joints in outdoor installations and is used in garden, façade and balcony construction.

Express nail/Assembly screws

Especially easy to use

Express nail

galvanised

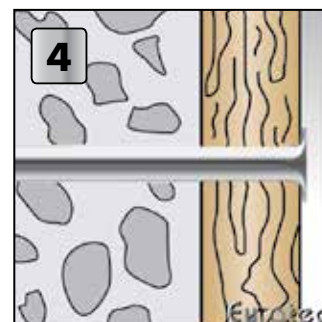
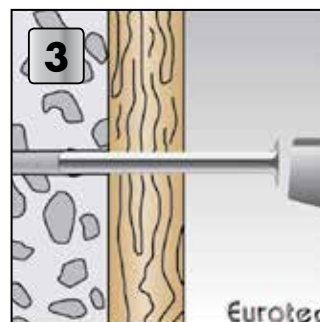
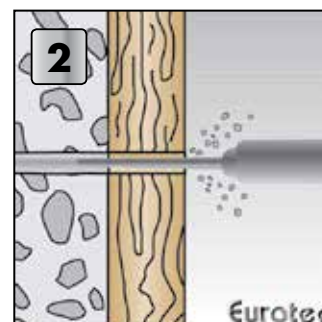
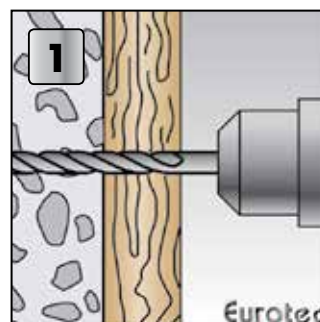


Art. no.	Dimensions (mm)	Attachment thickness (mm)	PU
110143	6,0 x 30	3	200
110144	6,0 x 40	10	200
110145	6,0 x 50	20	200
110146	6,0 x 60	30	200
110147	6,0 x 80	50	200
900089	6,0 x 100	70	200
110148	8,0 x 70	30	100
110149	8,0 x 90	50	100
110150	8,0 x 110	70	100
110151	8,0 x 130	90	100
110152	8,0 x 150	110	100
110153	8,0 x 180	140	100

- Perfectly suited to attaching:
e.g.: squared timbers, timber and metal substructures and metal profiles.
- Advantages/benefits:
The wax coating makes it easy to hammer into the drilled hole.
No screws or plugs are needed.

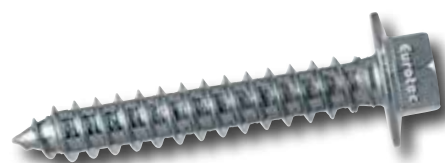
The express nail

is used for lightweight fastenings in concrete and brickwork; it grips over its entire length in the drilled hole. It is used in concrete, natural stone, dense structures, solid brick and solid sand lime brick.



Assembly screws

blue galvanised



Art. no.	Dimensions (mm)	PU
111255	6,5 x 40	100
111256	6,5 x 50	100
111257	6,5 x 60	100
111258	6,5 x 75	100
111259	6,5 x 100	100



Eurotec

NOW WITH ETA

Rock concrete screws

For fastening to concrete without plugs



The practical alternative to traditional plugs

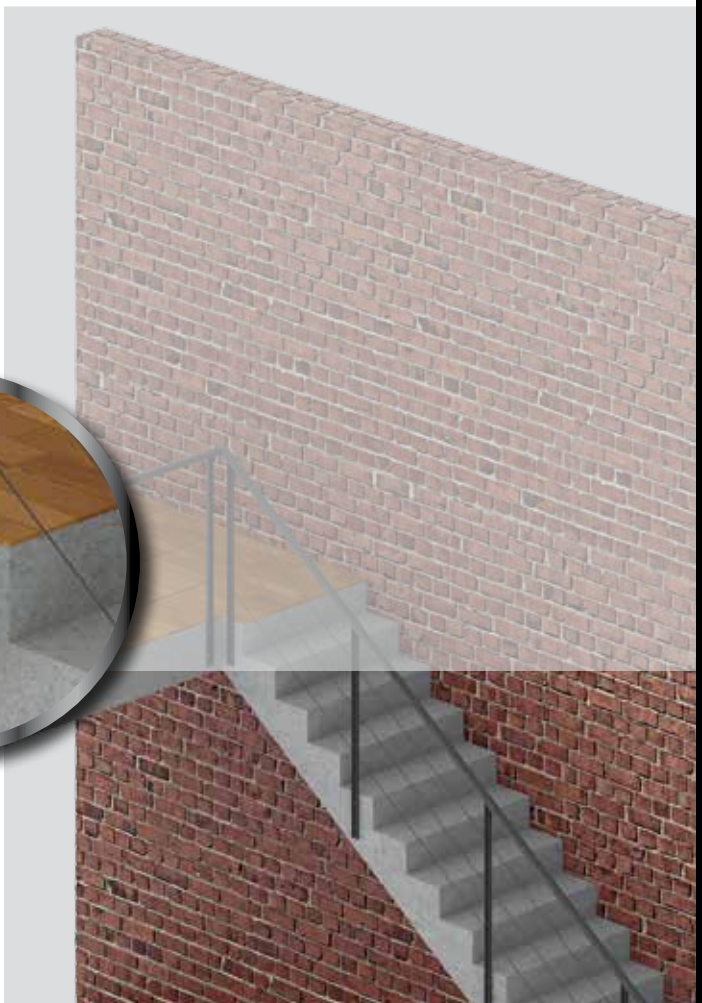
The rock concrete screw is a special screw for anchoring in concrete (C20/25 to C50/60 normal concrete) and is covered by a **European Technical Assessment for anchorages in cracked and non-cracked concrete**. The rock concrete screw is screwed directly into the drill hole without a plug or other additional components.

As it is screwed in, the thread cuts a mating thread into the subsurface. This type of installation is not only very easy, but also impresses with its minimum assembly time and maximum cost savings.

The high-strength screw steel, an extremely complex annealing process, and a special thread ensure that the rock concrete screw also works reliably in class C50/60 high-strength concrete.

Advantages and properties

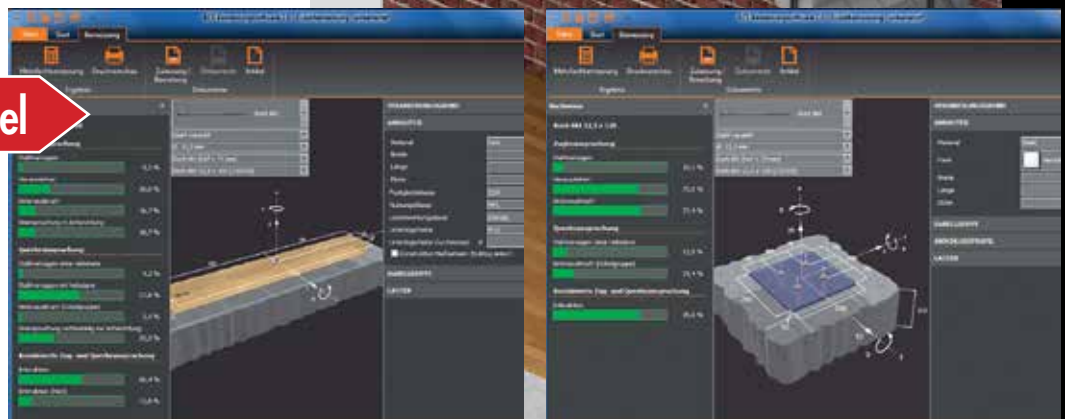
- Installation without plugs
- High extraction-resistance values
- No expansion effect, so smaller edge and centre distances are possible
- Broad range of applications thanks to a variety of screw heads and diameters
- An economical fastener
 - Time savings during installation
 - Cost savings in materials
- Time-saving and straightforward installation
 - Setting and installation process performed in a single step



ECS calculation software

NEW calculation model

Fastening in concrete with Rock concrete screw



Example applications



Rock concrete screws

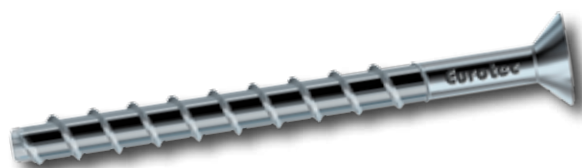


Notes

- Drill hole produced only by hammer drilling
- Setting parameters must be strictly adhered to
- Used only in C20/25 to C50/60 normal concrete

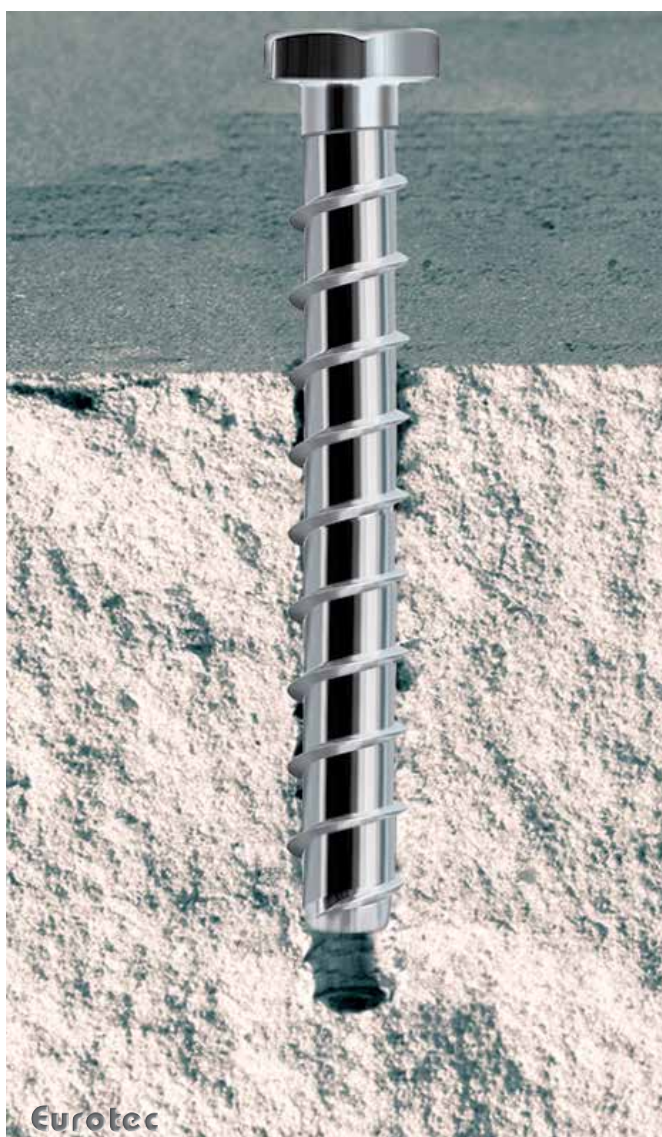
Rock concrete screw

Countersunk head, galvanised steel



Art. no.	Dimensions (mm)	Drive	PU
110348	7,5 x 40 *	TX40 ●	100
110349	7,5 x 60	TX40 ●	100
110350	7,5 x 80	TX40 ●	100
110351	7,5 x 100	TX40 ●	100
110352	7,5 x 120	TX40 ●	100
110353	7,5 x 140	TX40 ●	100
110354	7,5 x 160	TX40 ●	100

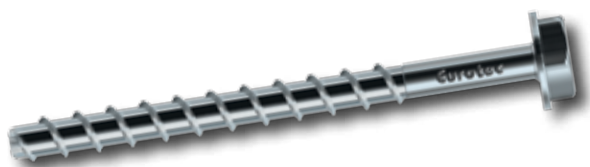
* Screws not regulated by ETA-15/0886



Eurotec

Rock concrete screw

Hexagonal with flange, galvanised steel

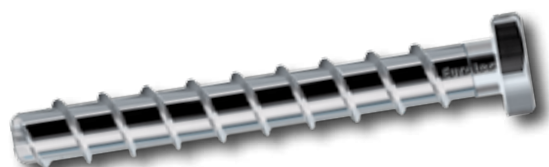


Art. no.	Dimensions (mm)	Head	PU
110227	7,5 x 40 *	SW13	100
110228	7,5 x 50 *	SW13	100
110229	7,5 x 60	SW13	100
110230	7,5 x 80	SW13	100
110231	7,5 x 100	SW13	100
110232	10,5 x 50 *	SW15	100
110233	10,5 x 60 *	SW15	100
110234	10,5 x 80	SW15	100
110235	10,5 x 100	SW15	100
110236	10,5 x 120	SW15	100
110237	10,5 x 140	SW15	100
110238	10,5 x 160	SW15	100
110239	12,5 x 60 *	SW17	—**
110240	12,5 x 80	SW17	—**
110241	12,5 x 100	SW17	—**
110242	12,5 x 120	SW17	—**
110243	12,5 x 140	SW17	—**
110244	12,5 x 160	SW17	—**
110245	12,5 x 180	SW17	—**
110246	12,5 x 200	SW17	—**
110247	12,5 x 240	SW17	—**
110248	12,5 x 280	SW17	—**
110249	12,5 x 320	SW17	—**

* Screws not regulated by ETA-15/0886, **On request

Rock concrete screw

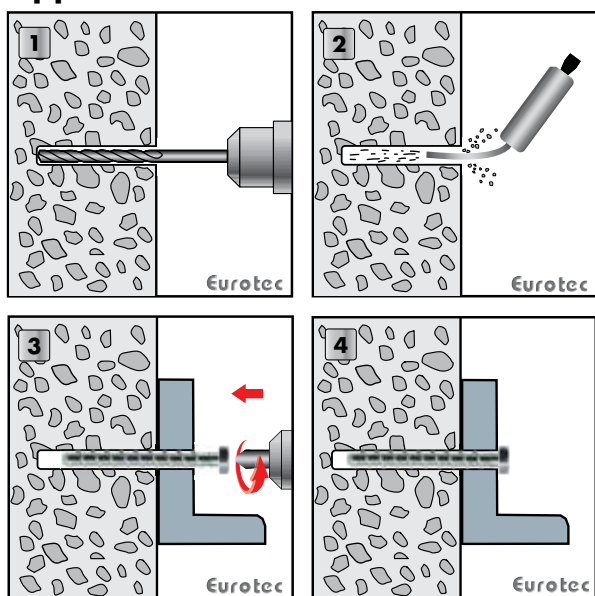
Hexagonal, galvanised steel



Art. no.	Dimensions (mm)	Head	PU
110338	7,5 x 40 *	SW13	100
110339	7,5 x 50 *	SW13	100
110340	7,5 x 60	SW13	100
110341	7,5 x 80	SW13	100
110342	10,5 x 60 *	SW15	100
110343	10,5 x 80	SW15	100
110344	10,5 x 100	SW15	100
110345	10,5 x 120	SW15	100
110346	10,5 x 140	SW15	100
110347	10,5 x 160	SW15	100
110336	12,5 x 60 *	SW17	100
110337	12,5 x 80	SW17	100
110327	12,5 x 100	SW17	100
110328	12,5 x 120	SW17	100
110329	12,5 x 140	SW17	100
110330	12,5 x 160	SW17	50
110331	12,5 x 180	SW17	50
110332	12,5 x 200	SW17	50
110333	12,5 x 240	SW17	50
110334	12,5 x 280	SW17	50
110335	12,5 x 320	SW17	50

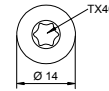
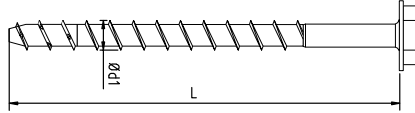
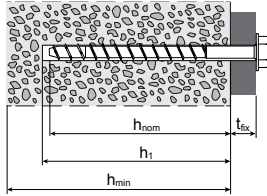
* Screws not regulated by ETA-15/0886

Application



- 1 Create drill hole (hammer drill)
- 2 Clean drill hole
- 3 Mount attachment
- 4 Done!

Technical information Rock concrete screw



Dimension Ø x length Ød1 x L [mm]	Ø head WAF/dk [mm]	Ø flange SD [mm]	Minimum part thick- ness h _{min} [mm]	Attach- ment thickness t _{fix} [mm]	Screwing depth h _{nom} [mm]	Characteristic values of load-bearing capacity for tensile or shear loading ^{a)}				Drill diameter (concrete) d ₀ [mm]	Depth of drill hole h ₁ [mm]	Diameter of drill hole (attachment) d _f [mm]	Min. edge/ centre distance S _{min} / C _{min} [mm]
						Tensile load-bearing capacity (non-cracked concrete, C20/25) N _{Rk,p} [kN]	Tensile load-bearing capacity (cracked concrete, C20/25) N _{Rk,p} [kN]	Shear load-bearing capacity (steel) V _{Rk,s} ^{b)} [kN]	Bending moment (steel) M _{Rk,s} ^{b)} [kN]				
Rock, hexagonal with flange													
7,5 x 60	SW13	16,5	100	5	55	6,0	3,0	11,0	19,0	6	70	9	40
7,5 x 80				25									
10,5 x 80	SW15	17,5	160	5	75	6,0	3,0	22,0	51,0	9	90	12	55
10,5 x 100				25									
10,5 x 120				45									
10,5 x 140				65									
10,5 x 160				85									
12,5 x 80	SW 17	22,0	200	5	75	25,0	12,0	35,0	98,0	10	90	14	65
12,5 x 100	SW17	22,0	200	5	95	25,0	12,0	35,0	98,0	10	110	14	65
12,5 x 120				25									
12,5 x 140				45									
12,5 x 160				65									
12,5 x 180				85									
12,5 x 200				105									
12,5 x 240				145									
12,5 x 280				185									
12,5 x 320				225									
Rock, hexagonal													
7,5 x 60	SW13	n/a	100	5	55	6,0	3,0	11,0	19,0	6	70	9	40
7,5 x 80				25									
10,5 x 80	SW15	n/a	160	5	75	6,0	3,0	22,0	51,0	9	90	12	55
10,5 x 100				25									
10,5 x 120				45									
10,5 x 140				65									
10,5 x 160				85									
12,5 x 80	SW 17	n/a	200	5	75	25,0	12,0	35,0	98,0	10	90	14	65
12,5 x 100	SW17	n/a	200	5	95	25,0	12,0	35,0	98,0	10	110	14	65
12,5 x 120				25									
12,5 x 140				45									
12,5 x 160				65									
12,5 x 180				85									
12,5 x 200				105									
12,5 x 240				145									
12,5 x 280				185									
12,5 x 320				225									
Rock, countersunk head													
7,5 x 60	14,0	n/a	100	5	55	6,0	3,0	11,0	19,0	6	70	9	40
7,5 x 80				25									
7,5 x 100				45									
7,5 x 120				65									
7,5 x 140				85									
7,5 x 160				105									

Setting tool: Electrical tangential impact wrench, max. power rating T_{max} according to manufacturer's data, recommended T_{max}: 250 Nm for Rock 7,5 x L; 450 Nm for Rock 10,5 x L and 12,5 x L.

Note: A higher max. torque of the setting tool can lead to destruction of the drilling hole or damage to the screw.

Assembly with torque wrench: Recommended installation torque T_{inst}: 20 Nm for Rock 7,5 x L; 40 Nm for Rock 10,5 x L and 60 Nm for Rock 12,5 x L.

a) The calculation for a joint is to be performed according to ETAG-001 Annex C. b) Partial safety factors: γ_{M5,V} = 1,5; γ_{M5,M} = 1,5

Please note: These are planning aids. Projects must only be calculated by authorised persons.



Calculation service for Rock concrete screw in accordance with ETA-15/0886

By fax on +49 (0)2331 6245 200 or by email to info@e-u-r-o-tec.de

Free preliminary calculation as a planning aid. Technical documentation at www.e-u-r-o-tec.de. Application technology team: 02331 - 6245 -108 / -109 / -110/ -120

Contact

Trader:	Contractor:
Contact person:	Contact person:
Email:	Tel.:
Construction project:	Email:

Details of construction project

Concrete

Strength class:

(if known; min. C20/25)

Component:

(e.g. strip footing, floor slab, wall, ceiling, etc.)

Component thickness (mm):

Attachment



Steel



Wood

_____ (strength class of wooden attachment)

Attachment thickness (mm):

Diameter of through hole (mm):

Loads (rated values)

Normal force along X axis N_d : _____ kN

Shear force along Y axis $V_{y,d}$: _____ kN

Shear force along Z axis $V_{z,d}$: _____ kN

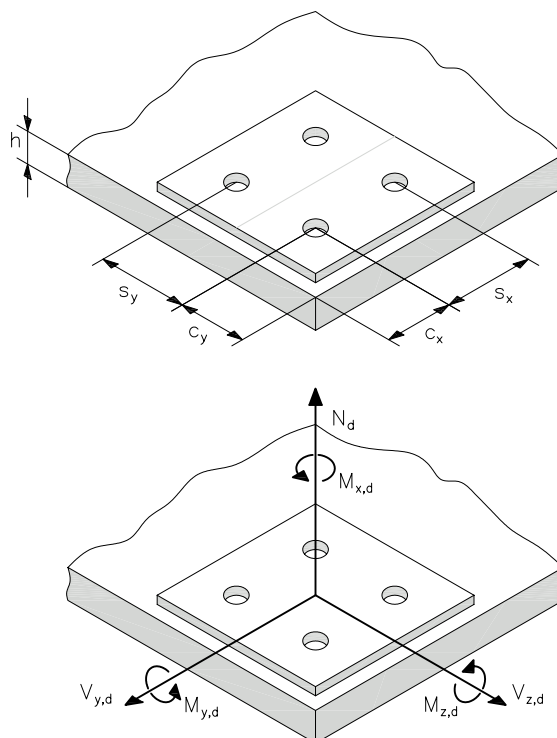
Moment around X axis $M_{x,d}$: _____ kNm

Moment around Y axis $M_{y,d}$: _____ kNm

Moment around Z axis $M_{z,d}$: _____ kNm

A detailed sketch of the joint must be enclosed with the inquiry, stating the following details:

- Geometry of concrete and attachment
- Edge and centre distances c and s
- Position of attachment relative to concrete component
- Position (and angle, where applicable) of point of force application on attachment



Screw selection



Ø 7,5 mm countersunk head



Ø 10,5 mm hex head



Ø 12,5 mm hex head



Ø 7,5 mm hex head



Ø 7,5 mm hex head, flange



Ø 10,5 mm hex head, flange

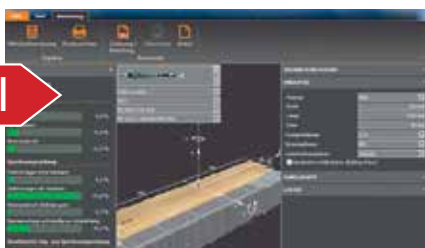


Ø 12,5 mm hex head, flange

ECS calculation software

NEW calculation model

Fastening to concrete
with bolt anchor



Bolt anchor

with washer, electrogalvanised



Art. no.	Dimensions (mm)	Head	PU
946170 *	6,0 x 55	SW10	200
946171 *	6,0 x 85	SW10	100
946172 *	8,0 x 50	SW13	100
946173	8,0 x 75	SW13	100
946174	8,0 x 95	SW13	100
946175	8,0 x 115	SW13	100
946176	8,0 x 135	SW13	50
946177 *	10,0 x 60	SW17	100
946178	10,0 x 80	SW17	50
946179	10,0 x 100	SW17	50
946180	10,0 x 120	SW17	50
946181	10,0 x 140	SW17	50
946182 *	12,0 x 80	SW19	50
946183	12,0 x 95	SW19	50
946184	12,0 x 110	SW19	50
946185	12,0 x 130	SW19	25
946186	12,0 x 160	SW19	25
946187	12,0 x 180	SW19	25
946188	16,0 x 125	SW24	20
946189	16,0 x 140	SW24	20
946190	16,0 x 180	SW24	10
to DIN 440:			
946191	12,0 x 200	SW19	20
946192	12,0 x 220	SW19	20
946193	12,0 x 240	SW19	15
946194	12,0 x 260	SW19	15
946195	16,0 x 220	SW24	10
946196	16,0 x 240	SW24	10
946197	16,0 x 260	SW24	10

Bolt anchor

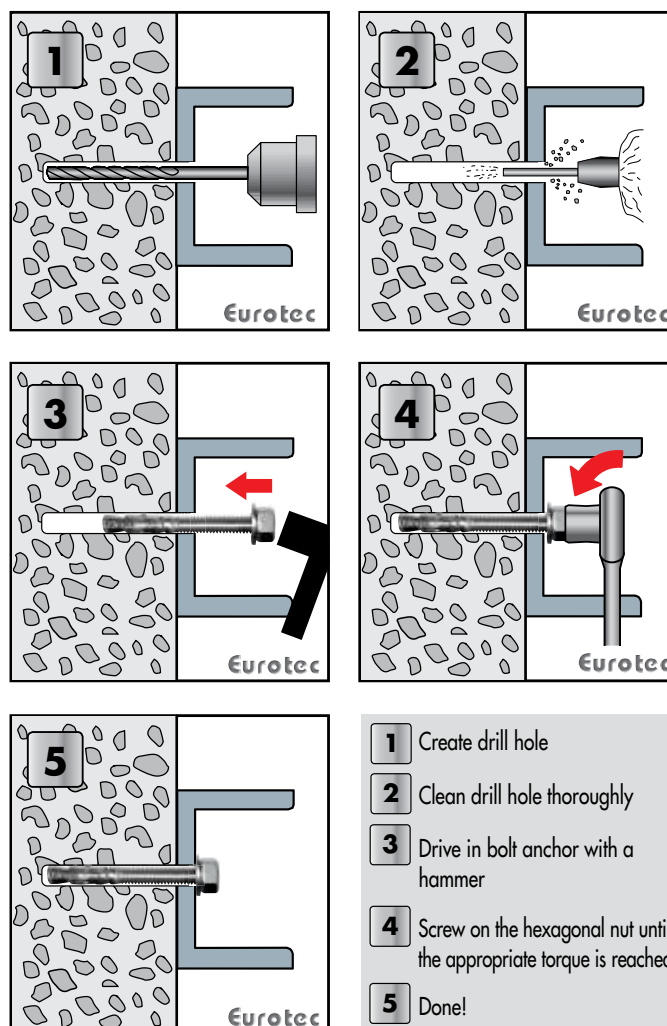
For heavy-duty fastening in uncracked concrete



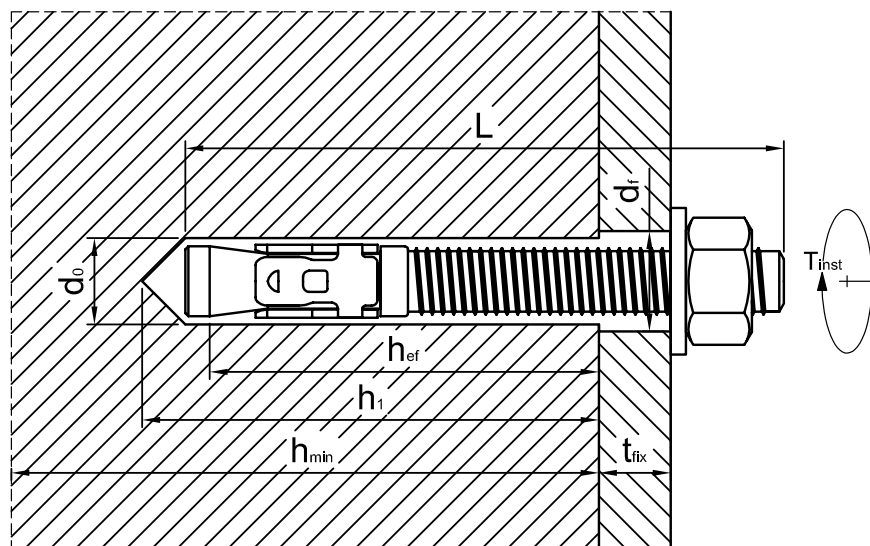
Torque-controlled expanding plug

The Eurotec bolt anchor is a torque-controlled expanding plug made of electrogalvanised steel for through-hole mounting in uncracked concrete. The special thing about the bolt anchor is that it is possible to maintain small centre and edge distances despite the high load-bearing capacity. Different anchoring depths and various sizes mean the bolt anchor can be used in a variety of ways.

Every bolt anchor is fitted with an expansion clip, which ensures high load-bearing capacity and means less fastening points are needed.



Technical information



Dimensions [mm]	Min. subsurface thickness h_{min} [mm]	Drill diameter d_o [mm]	Min. depth of drill hole h_1 [mm]	Min. anchoring depth h_{ef} [mm]	Max. drill diameter in attached part d_i [mm]	Max. attachment thickness t_{fix} [mm]	Installation torque T_{inst} [Nm]
$\varnothing \times \text{length}$							

Bolt anchor with washer according to DIN 125A

6,0 x 55 *	100	6	50	35	7	5	11
6,0 x 85 *	100	6	50	35	7	35	11
8,0 x 50 *	100	8	55	30	9	5	15
8,0 x 75	100	8	55	40	9	15	15
8,0 x 95	100	8	55	40	9	35	15
8,0 x 115	100	8	55	40	9	55	15
8,0 x 135	100	8	55	40	9	75	15
10,0 x 60 *	100	10	65	30	12	5	25
10,0 x 80	100	10	65	50	12	5	25
10,0 x 100	100	10	65	50	12	25	25
10,0 x 120	100	10	65	50	12	45	25
10,0 x 140	100	10	65	50	12	65	25
12,0 x 80 *	110	12	80	50	14	5	40
12,0 x 95	110	12	80	65	14	5	40
12,0 x 110	110	12	80	65	14	20	40
12,0 x 130	110	12	80	65	14	40	40
12,0 x 160	110	12	80	65	14	70	40
12,0 x 180	110	12	80	65	14	90	40
16,0 x 125	120	16	90	80	18	15	80
16,0 x 140	120	16	90	80	18	30	80
16,0 x 180	120	16	90	80	18	70	80

Bolt anchor with washer according to DIN 440

12,0 x 200	110	12	80	65	14	110	40
12,0 x 220	110	12	80	65	14	130	40
12,0 x 240	110	12	80	65	14	150	40
12,0 x 260	110	12	80	65	14	170	40
16,0 x 220	120	16	90	80	18	110	80
16,0 x 240	120	16	90	80	18	130	80
16,0 x 260	120	16	90	80	18	150	80

* Not regulated by ETA-14/0409.

Eurotec injection mortar

Chemical fastening system supplied as a cartridge



One fastening system, many potential applications

Eurotec injection mortar is a powerful composite mortar based on vinylester resin. This fastening system impresses above all with its broad range of applications. It is approved for anchorages in cracked and non-cracked concrete, for anchorages in brickwork, and for creating post-installed rebar connections.

Thanks to its expansion-free installation, Eurotec injection mortar is excellently suited to installations that require very small edge and centre distances. It also provides a suitable solution wherever conventional fasteners do not provide sufficient grip in the subsurface, which can be the case with anchorages in porous bricks, for example.

The mortar is free of harmful styrene.



Injection mortar

300 ml, incl. static mixer



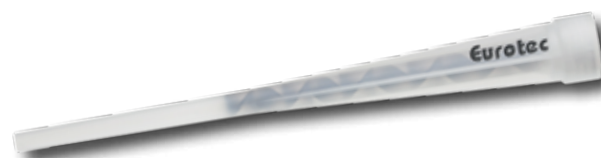
Art. no.	Cartridge type	Contents (ml)	PU
200085	For standard silicone/cartridge guns	300	12

Advantages and properties

- One fastening system, many potential applications:
 - Anchorages in cracked and non-cracked concrete (ETA-15/0831)
 - Anchorages in brickwork (16/0077)
 - Creation of post-installed rebar connections (ETA-15/0837)
- Standard rebar steel, threaded rods, washers and nuts included in the European technical approvals
- Expansion-free installation allows small centre and edge distances
- Straightforward application
- Optimum dosing
- Compatible with standard cartridge/silicon guns
- A screw cap means it can be resealed and therefore also used again at a later time
- Suitable for wet anchoring substrates
- Suitable for water-filled drill holes in concrete (plug sizes Ø 8–16 mm)
- Free of harmful styrene
- Temperature range for use:
 - 40 °C to +120 °C in concrete
 - 40 °C to +80 °C in brickwork and for post-installed rebar connections
- Suitable for use in closed spaces (emissions class A+ acc. to VOC Emissions Test report)
- Fire resistance rating F120 (M8 – M30 anchor rods, tested in non-cracked concrete)
- Approved for contact with drinking water (NSF/ANSI Standard 61)
- Shelf life: 12 months
- Mortar colour: Grey

Static mixer

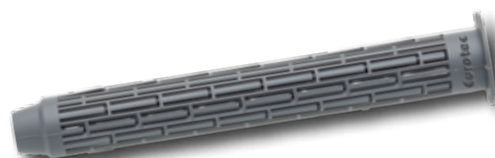
For injection mortar cartridges



Art. no.	Cartridge socket	Working length (mm)	PU
200084	M17	213	10

Perforated sleeve

Plastic

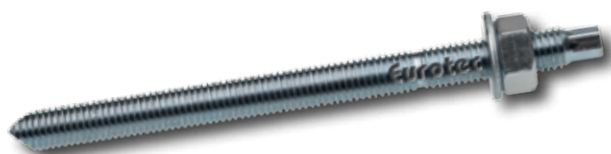


Art. no.	Dimensions (mm)	PU
200086	13 x 100	10
200087	15 x 100	10

- Perforated sleeve in accordance with 16/0077

Anchor rod

Galvanised steel 5.8, incl. nut and washer



Art. no.	Dimensions (mm)	PU
200110	6 x 70	10
200111	8 x 110	10
200112	10 x 110	10
200113	10 x 130	10
200114	12 x 130	10
200115	12 x 160	10
200116	16 x 190	10
200117	20 x 260	5
200118	24 x 300	10

Cleaning brush

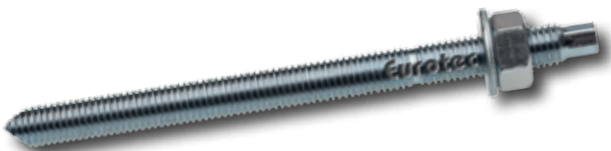
For cleaning drill holes



Art. no.	Brush Ø (mm)	PU
200098	12	10
200099	14	10
200100	18	5
200101	24	5

Anchor rod

A4 stainless steel, incl. nut and washer



Art. no.	Dimensions (mm)	PU
200220	8 x 110	50
200221	10 x 130	25
200222	12 x 160	10
200223	16 x 190	10
200224	20 x 250	5

Blow pump

For cleaning drill holes



Art. no.	PU
200097	1

Cartridge gun

Manual compression, metal



Art. no.	PU
200096	1

Pressure sleeve

Hard plastic

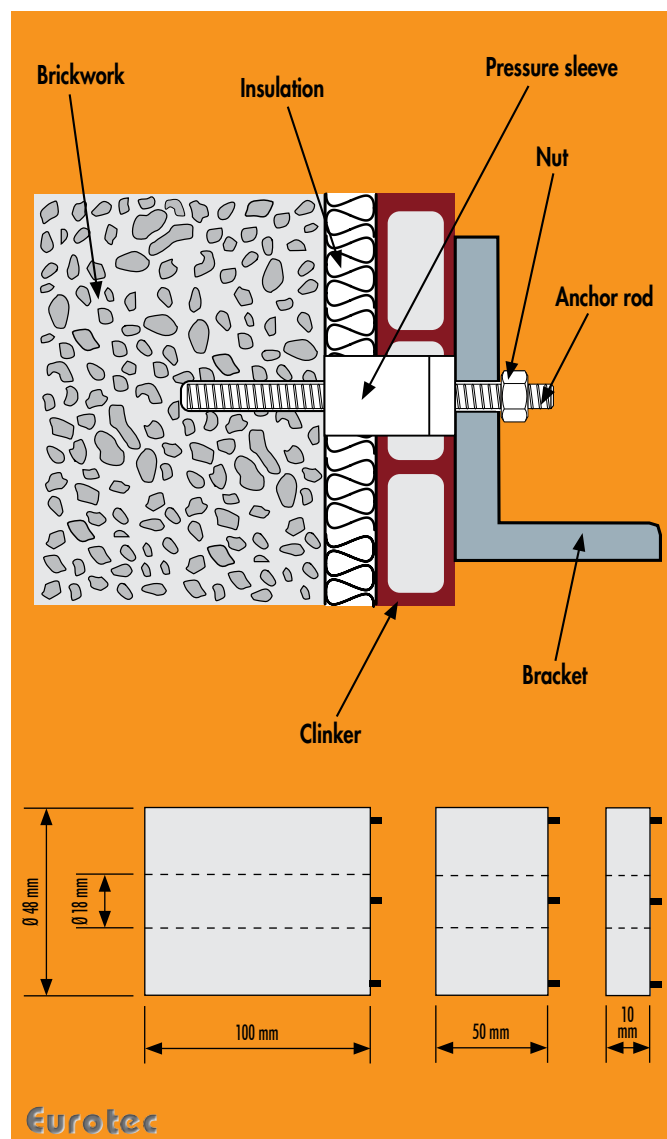


Art. no.	Dimensions (mm)*	PU
200102	48 x 5	20
200103	48 x 10	20
200104	48 x 20	20
200105	48 x 30	20
200106	48 x 50	20
200107	48 x 100	20

*Outside Ø x length

Properties and advantages

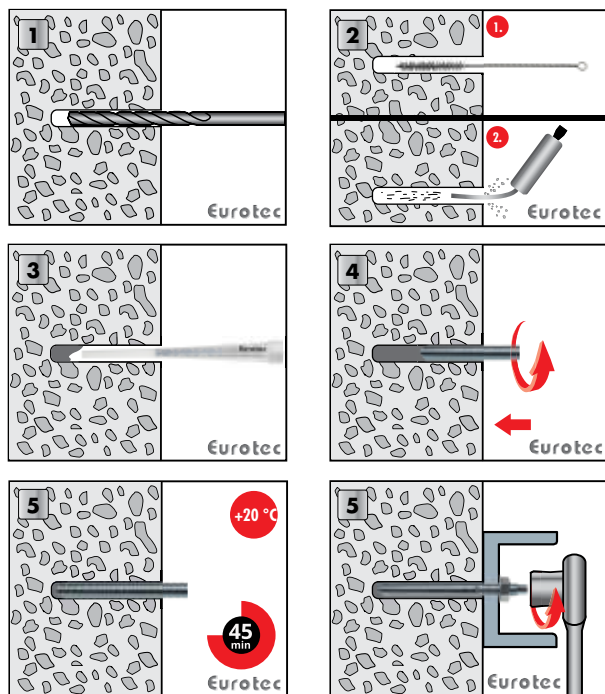
- Outside diameter: 48 mm
- Inside diameter: 18 mm
- Material: Hard plastic
- For anchoring attachments at a distance, e.g. in the case of curtain walls
- With its large outside diameter and thick walls, the pressure sleeve reliably dissipates any compressive forces that arise into the anchoring surface
- Plastic reduces the formation of thermal bridges
- Can be extended as desired thanks to coupling mechanism
- Durable
- Resistant to temperature and weathering
- Resistant to acids, alkalis and other chemicals



Application

- Create drill hole
- Clean drill hole using brush and blow pump
- Open cartridge and screw on static mixer
- Press out the first part of the mortar until the mixture reaches a uniform grey colour
- Fill the drill hole from the bottom to approx. 2/3 height
 - Pulling the cartridge out slowly prevents the formation of air pockets
- Introduce anchor rod, rotating it slightly, until it reaches the insertion depth
- Allow injection mortar to harden
 - Hardening time varies depending on the temperature of the anchoring surface
- Mount attachment, observing the permissible tightening torque

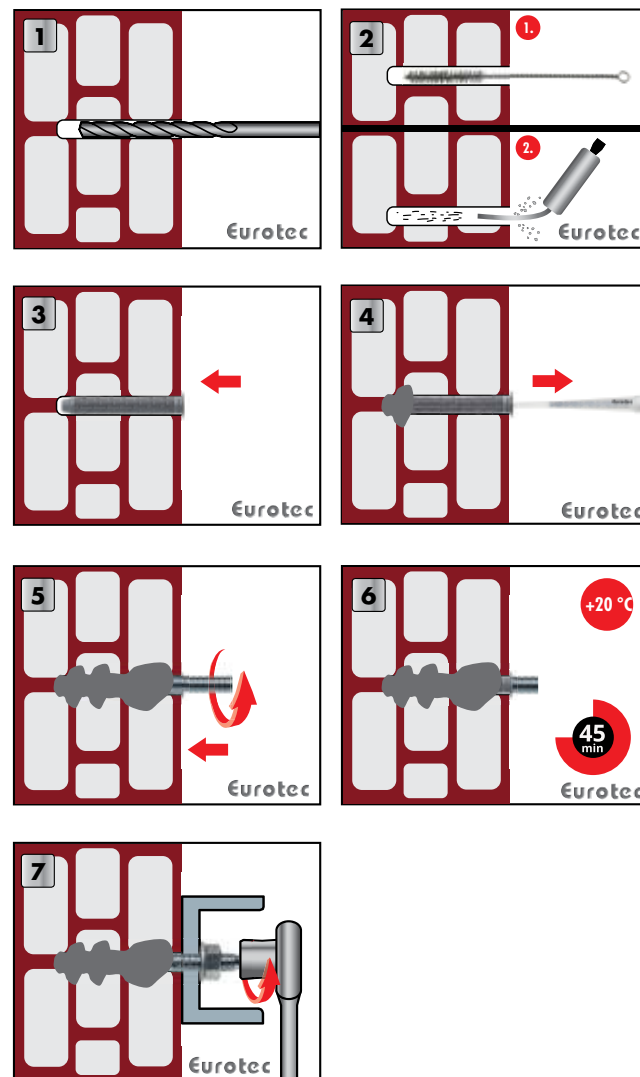
Application example with concrete



Note

Always refer to the installation instructions of the European technical assessment during installation.

Application example with brickwork (with perforated sleeve)

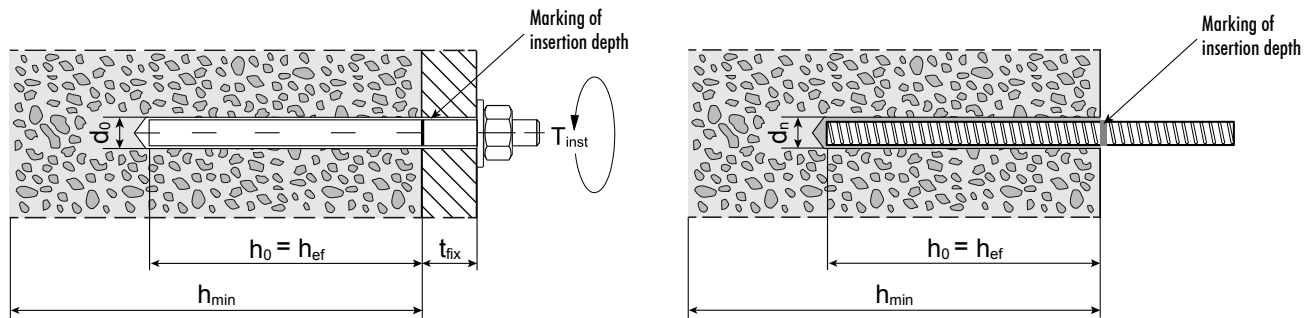


Pot life and hardening times

Temperature of anchoring surface	Pot life	Minimum hardening time in dry anchoring surface	Minimum hardening time in moist anchoring surface
-10 °C to -4 °C ¹⁾	90 min	24 h	48 h
-5 °C to -1 °C ²⁾	90 min	14 h	24 h
+0 °C to +5 °C ²⁾	45 min	7 h	14 h
+5 °C to +9 °C ²⁾	25 min	2 h	4 h
+10 °C to +19 °C ²⁾	15 min	80 min	160 min
+20 °C to +29 °C ²⁾	6 min	45 min	90 min
+30 °C to +34 °C ²⁾	4 min	25 min	50 min
+35 °C to +39 °C ²⁾	2 min	20 min	40 min
+40 °C ²⁾	1,5 min	15 min	30 min

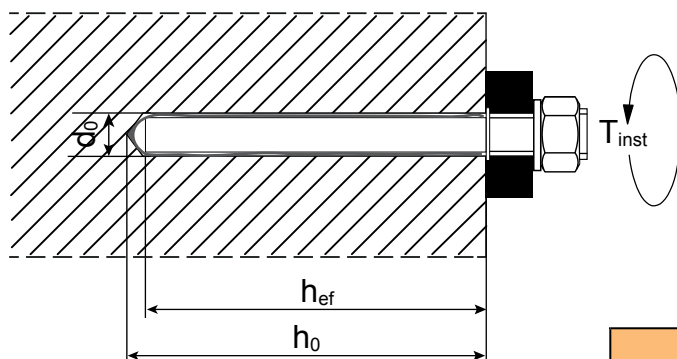
¹⁾ Minimum cartridge temperature: +15 °C, ²⁾ Minimum cartridge temperature: +5 °C

Installation parameters in cracked and non-cracked concrete



			Threaded rod								
			M 8	M 10	M 12	M 16	M 20	M 24	M 27	M 30	
Drill diameter	d ₀	[mm]	10	12	14	18	24	28	32	35	
Anchoring depth	h _{ef, min}	[mm]	64	80	96	128	160	192	216	240	
	h _{ef, max}	[mm]	144	180	216	288	360	432	486	540	
Through hole in part to be attached	d _f ≤	[mm]	9	12	14	18	22	26	30	33	
Brush diameter	d _b ≥	[mm]	12	14	16	20	26	30	34	37	
Torque	T _{inst} ≥	[mm]	10	20	40	80	120	160	180	200	
Attachment thickness	t _{fix, min} >	[mm]	0								
	t _{fix, min} <	[mm]	1500								
Minimum part thickness	h _{min}	[mm]	h _{ef} + 30 mm ≥ 100 mm				h _{ef} + 2d ₀				
Minimum centre distance	s _{min}	[mm]	40	50	60	80	100	120	135	150	
Minimum edge distance	c _{min}	[mm]	40	50	60	80	100	120	135	150	
			Rebar steel								
			Ø 8	Ø 10	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25	Ø 28	Ø 32
Drill diameter	d ₀	[mm]	12	14	16	18	20	24	32	35	40
Anchoring depth	h _{ef, min}	[mm]	64	80	96	112	128	160	200	224	256
	h _{ef, max}	[mm]	144	180	216	252	288	360	450	504	576
Brush diameter	d _b ≥	[mm]	14	16	18	20	22	26	34	37	41,5
Minimum part thickness	h _{min}	[mm]	h _{ef} + 30 mm ≥ 100 mm			h _{ef} + 2 d ₀					
Minimum centre distance	s _{min}	[mm]	40	50	60	70	80	100	125	140	160
Minimum edge distance	c _{min}	[mm]	40	50	60	70	80	100	125	140	160

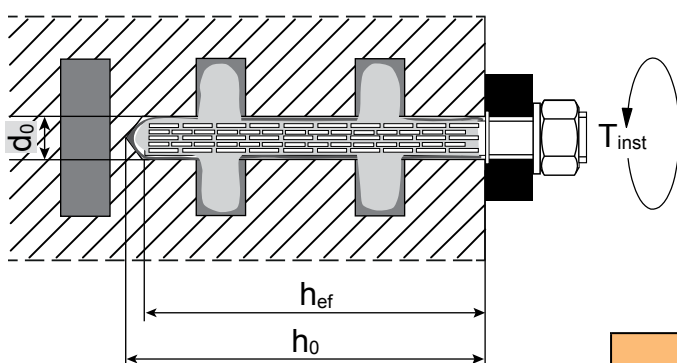
Installation parameters in solid brick without perforated sleeve



			Threaded rod			Internally threaded sleeve
			M 8	M 10	M 12*	M 8*
Drill diameter	d_0	[mm]	10	12	12	12
Anchoring depth	h_{ef}	[mm]	80	90	90	90
Drill hole depth	h_0	[mm]	85	95	95	95
Through hole in part to be attached	$d_f \leq$	[mm]	9	12	14	14
Brush diameter	$d_b \geq$	[mm]	20			
Torque	T_{inst}	[Nm]	2			

*M 10 in anchoring area

Installation parameters in solid and perforated brick with perforated sleeve



			Threaded rod			Internally threaded sleeve
			M 8	M 10	M 12*	M 8*
Sleeve		[mm]	13 x 100	15 x 100	15 x 100	15 x 100
Drill diameter	d_0	[mm]	14	16	16	16
Anchoring depth of sleeve	h_{nom}	[mm]	100	100	100	100
Anchoring depth of threaded rod	h_{ef}	[mm]	80	90	90	90
Drill hole depth	h_0	[mm]	105	105	105	105
Through hole in part to be attached	$d_f \leq$	[mm]	9	12	14	14
Brush diameter	$d_b \geq$	[mm]	20			
Torque	T_{inst}	[Nm]	2			

*M 10 in anchoring area

Frame fixing

Set consisting of fixing and screw



ERD frame fixing

The Eurotec countersunk/cylinder-head frame fixing can be used for multiple fastenings of, e.g., façade substructures in concrete and brickwork. It consists of a plastic plug and an electrogalvanised countersunk screw (TX 40) / hexagon screw (AF 13).

Advantages

- Through-hole mounting
- Ready for loading immediately
- The hammer-in stop prevents premature expansion of the plug during installation

ERD SK frame fixing

countersunk head



Art. no.	Dimensions (mm)	Drive	PU
200012	Ø 10,0 x 80	TX40 ●	50
200013	Ø 10,0 x 100	TX40 ●	50
200014	Ø 10,0 x 120	TX40 ●	50
200015	Ø 10,0 x 140	TX40 ●	50
200016	Ø 10,0 x 160	TX40 ●	50
200017	Ø 10,0 x 180	TX40 ●	50
200018	Ø 10,0 x 200	TX40 ●	50
200019	Ø 10,0 x 230	TX40 ●	25
200020	Ø 10,0 x 260	TX40 ●	25

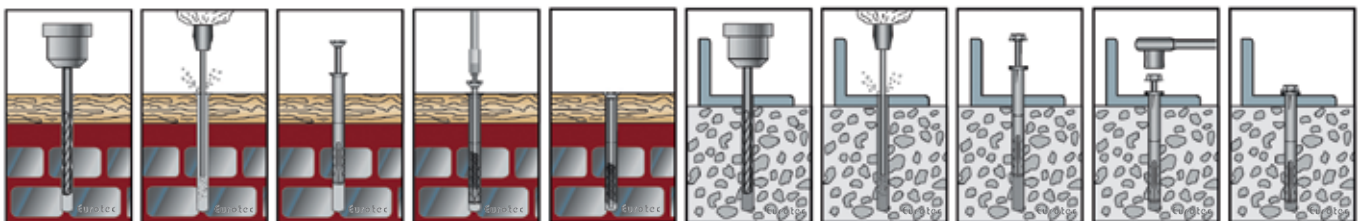
ERD ZK frame fixing

cylinder head



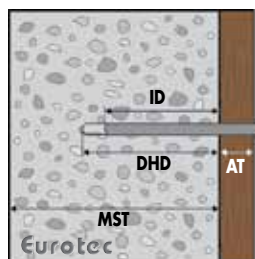
Art. no.	Dimensions (mm)	Head	PU
200021	Ø 10,0 x 80	SW13	50
200022	Ø 10,0 x 100	SW13	50
200023	Ø 10,0 x 120	SW13	50
200024	Ø 10,0 x 140	SW13	50
200025	Ø 10,0 x 160	SW13	50
200026	Ø 10,0 x 180	SW13	50

Application example



Our hint: Drill using rotary mode for perforated bricks and hollow blocks. Do not use hammer mode! Remove the drillings from the drill hole!

Technical information



AT = Attachment thickness

ID = Insertion depth

DHD = Drill-hole depth

MST = Minimum subsurface thickness

ERD frame fixing SK	Art. no.	Dimensions plug (mm)	Drive screw	Drill Ø subsurface (mm)	Min. drill hole depth DHD (mm)	Min. plug insertion depth ID (mm)	Max. drill Ø in attached part (mm)	Max. attachment thickness AT (mm)
	200012	Ø 10 x 80	TX40	10	70	60	10,5	20
	200013	Ø 10 x 100	TX40	10	70	60	10,5	40
	200014	Ø 10 x 120	TX40	10	70	60	10,5	60
	200015	Ø 10 x 140	TX40	10	70	60	10,5	80
	200016	Ø 10 x 160	TX40	10	70	60	10,5	100
	200017	Ø 10 x 180	TX40	10	70	60	10,5	120
	200018	Ø 10 x 200	TX40	10	70	60	10,5	140
	200019	Ø 10 x 230	TX40	10	70	60	10,5	170
	200020	Ø 10 x 260	TX40	10	70	60	10,5	200

ERD frame fixing ZK	Art. no.	Dimensions plug (mm)	Head screw	Drill Ø subsurface (mm)	Min. drill hole depth DHD (mm)	Min. plug insertion depth ID (mm)	Max. drill Ø in attached part (mm)	Max. attachment thickness AT (mm)
	200021	Ø 10 x 80	SW13	10	70	60	10,5	20
	200022	Ø 10 x 100	SW13	10	70	60	10,5	40
	200023	Ø 10 x 120	SW13	10	70	60	10,5	60
	200024	Ø 10 x 140	SW13	10	70	60	10,5	80
	200025	Ø 10 x 160	SW13	10	70	60	10,5	100
	200026	Ø 10 x 180	SW13	10	70	60	10,5	120

Subsurface	Strength class ^{a)}	Char. load-bearing capacity N _{Rk,p} (kN)	Drilling method ^{b)}	Min. subsurface thickness MST (mm)	Min. edge distance (mm)	Min. centre distance (mm)
Concrete	C12/15 ≥ C16/20	3,0 4,5	H	100	140 100	110 80
Vertically perforated brick DIN 105	HLz 6 - 0,7 HLz 8 - 0,9 HLz 10 - 0,9 HLz 12 - 0,9	0,4 0,4 0,5 0,6	R	100	100	250
Hollow block made of light-weight concrete DIN EN 771-3	Hbl 4 - 1,2	1,5	R	100	100	250
Perforated sand-lime brick DIN 106	KSL 8 - 1,4 KSL 10 - 1,4 KSL 12 - 1,4	1,5 1,5 2,0	R	100	100	250
Solid sand-lime brick DIN 106	KS 10 - 2,0 KS 20 - 2,0 KS 28 - 2,0	1,2 1,5 2,0	R	100	150	250
Solid lightweight concrete brick DIN 18152	V 4 - 1,2 V 6 - 1,2	1,5 2,0	R	100	100	250
Masonry brick DIN 105	Mz 10 - 1,8 Mz 20 - 1,8	3,0 4,0	H	100	100	250

a) Indication of strength class of masonry blocks: e.g. M_z 10 - 1,8 = masonry brick with min. compressive strength 10 N/m² and min. bulk density of 1,8 kg/m³

b) H = hammer drilling, R = rotary drilling

Porous concrete plug

For anchorages in porous/aerated concrete

Eurotec porous concrete plug

The Eurotec aerated concrete plug was designed especially for anchorages in porous/aerated concrete and is suitable both for screws with a wood thread and for screws with a metric thread.

The plug can be screwed easily into the hole already drilled in the concrete using a hexagon head/socket tool. As it is screwed in, the plug cuts a formclosed mating thread in the concrete and therefore facilitates a secure hold.

Advantages

- For anchorages in porous/aerated concrete
- Straightforward and rapid assembly
- Almost expansion-free anchoring allows low centre and edge distances
- Suitable both for screws with metric threads and for screws with wood threads

Porous concrete plug

plastic



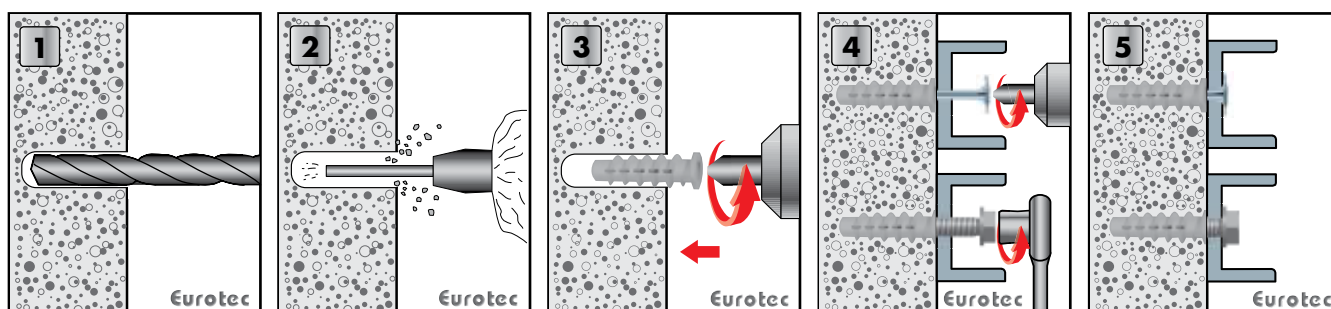
Art. no.	Dimensions (mm)	PU
944825	Ø 6,0 x 50	100
944826	Ø 8,0 x 60	50
944827	Ø 10,0 x 70	50

Installation parameters and extraction-resistance values

Art.no.	Screw Ø Wood construction	Screw Ø Metric	Hex key Ø	Drill hole Ø Lightweight concrete	Drill hole Ø Aerated concrete	Drilling depth	Extraction- resistance values Lightweight concrete	Extraction- resistance values Aerated concrete
	mm	mm	mm	mm	mm	mm	kN*	kN*
944825	5,0 - 6,0	M 5	6	10	8	60	1,1	2,6
944826	7,0 - 8,0	M 8	8	12	10	70	1,7	3,8
944827	9,0 - 10,0	M 10	10	14	12	80	2,3	5,5

* Safety factor 3

Installation instructions

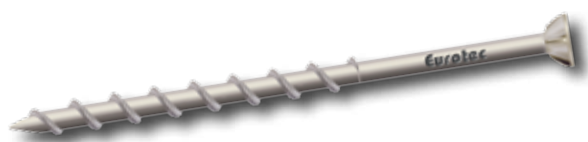


Porous concrete screw 1000

Corrosion-resistant for up to 1,000 h in salt spray test

Porous concrete screw 1000

Countersunk head screw, specially coated steel



Art. no.	Dimensions (mm)	Drive	PU
944818	8,0 x 90	TX30 ●	50
944819	8,0 x 100	TX30 ●	50
944820	8,0 x 120	TX30 ●	50
944821	8,0 x 140	TX30 ●	50
944822	8,0 x 160	TX30 ●	50
944823	10,0 x 140	TX40 ●	50
944824	10,0 x 180	TX40 ●	50

Advantages/properties

- Quicker and easier assembly/dismantling
- No pilot-drilling necessary
- High thread pitch
→ Quick screw insertion
- Plug-free installation minimises wall damage and saves time
- No need to countersink battens
- Excellent corrosion protection thanks to special coating
- Case-hardened

Field of application

- For fastening substructures and cladding made of metal, wood or plastic (e.g. insulating materials) to porous concrete



Art.No.	Dimension Ø d x L [mm]	Head diameter Ø d _K [mm]	Min. embedment depth h _{nom, min} [mm]	Max. fixture thickness t _{fix, max} [mm]	Design value Pull-out resistance N _{t u, Rd a)} [kN]	PU [pcs.]
944818	8 x 90	12	75	15	0,6	50
944819	8 x 100	12	75	25	0,6	50
944820	8 x 120	12	75	45	0,7	50
944821	8 x 140	12	80	60	0,7	50
944822	8 x 160	12	80	80	0,7	50
944823	10 x 140	14,5	95	45	0,9	50
944824	10 x 180	14,5	95	85	0,9	50

a) For aerated concrete PP4 (4,0 MPa; 550 kg/m³), γM,U = 2,5

Multi plug

For chipboard screws and wood construction screws

EMD multi plug

The Eurotec multi plug (EMD) with collar is made of plastic and is suitable for installation in concrete, solid bricks, perforated bricks and other highstrength building materials.

The EMD expands in solid building materials and forms a knot in hollow building materials. The plastic plug can be installed using a chipboard screw or a wood-construction screw.

Advantages

- The collar prevents the plug from penetrating too deep into the drill hole
- The anti-twist element prevents it from turning with the screw in the hole

EMD multi plug

with collar



Art. no.	Dimensions (mm)	PU
200000	Ø 6,0 x 36	200
200001	Ø 8,0 x 50	200
200002	Ø 10,0 x 60	100
200003	Ø 12,0 x 70	50

Art. no.	Drill Ø subsurface (mm)	Min. drill-hole depth (mm)	Screws (mm)
200000	6	45	4,0
200001	8	60	4,5
200002	10	70	6,0
200003	12	80	8,0

Rigid foam plug, Gypsum board plug

Straightforward and time-saving with no pilot-drilling

Rigid foam plug

plastic



Art. no.	Dimensions (mm)	For screw Ø*	Drive	PU
200060	Ø 20 x 50	4,0 - 4,5	TX30	50
200061	Ø 30 x 95	8,0 / M8	TX55 + SW17	50
200062	Ø 30 x 95	10,0 / M10	SW17	50

* Screw not included

For anchorages in expanded polystyrene, rigid foam boards and other soft building materials

The Eurotec rigid-foam plug is suitable for direct anchorages in expanded polystyrene, rigid-foam boards and other soft building materials. During installation, the plug's conical shape causes compaction of the material surrounding the point where it is screwed in, therefore ensuring a secure plug grip. The plug has a TX/hexagon drive and is screwed in in a straightforward and time-saving manner with no need for pilot drilling.

Gypsum board plug

incl. setting tool



Art. no.	For screw Ø*	PU
200056	3,5 – 5,0 mm	100

* Screw not included

For anchorages in plasterboard/gypsum board

The Eurotec gypsum board plug is made of plastic and is used to fasten light components onto plasterboard/gypsum board.

The plug is screwed directly into the plasterboard/gypsum board in a straightforward and time-saving manner using the setting tool.

Suitable for wood or chipboard screws with Ø of 3,5–5,0 mm.

The screw length should equal at least 23 mm + the thickness of the mounted part.

One setting tool is included per PU.



Nail plug

Set consisting of plug and screw

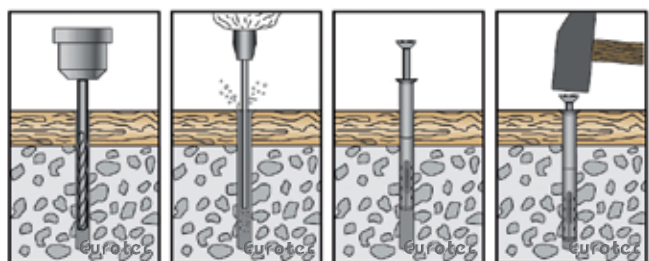
END Nail plug

The Eurotec hammer-in frame fixing (END) is suitable for fastening in concrete, solid bricks, sand-lime bricks and other high-strength building materials. It consists of an electrogalvanised crosshead screw (PZ2) and a countersunk plastic plug.

Advantages

- Fast and efficient installation
- Saves time thanks to preinstalled threaded nail
- Especially suited to working with timber and lightweight-construction profiles
- Easy to remove with crosshead drive

Application example



END Nail plug

countersunk head



Art. no.	Dimensions (mm)	Drive	PU
200004	Ø 5,0 x 30	PZ 2	200
200005	Ø 5,0 x 40	PZ 2	200
200006	Ø 6,0 x 40	PZ 2	200
200007	Ø 6,0 x 60	PZ 2	200
200008	Ø 6,0 x 80	PZ 2	200
200009	Ø 8,0 x 60	PZ 2	100
200010	Ø 8,0 x 80	PZ 2	100
200011	Ø 8,0 x 100	PZ 2	100

Art. no.	Dimensions	Drill Ø subsurface (mm)	Min. drill hole depth DHD (mm)	Min. plug insertion depth ID (mm)	Max. drill Ø in attached part (mm)	Max. attachment thickness AT (mm)
200004	Ø 5 x 30	5	30	20	5	10
200005	Ø 5 x 40	5	30	20	5	20
200006	Ø 6 x 40	6	35	25	6	15
200007	Ø 6 x 60	6	35	25	6	35
200008	Ø 6 x 80	6	35	25	6	55
200009	Ø 8 x 60	8	50	40	8	20
200010	Ø 8 x 80	8	50	40	8	40
200011	Ø 8 x 100	8	50	40	8	60

Sealing plug

Plastic plug with cross-head screw and seal ring

Sealing plug

with neoprene seal



Eurotec sealing plug

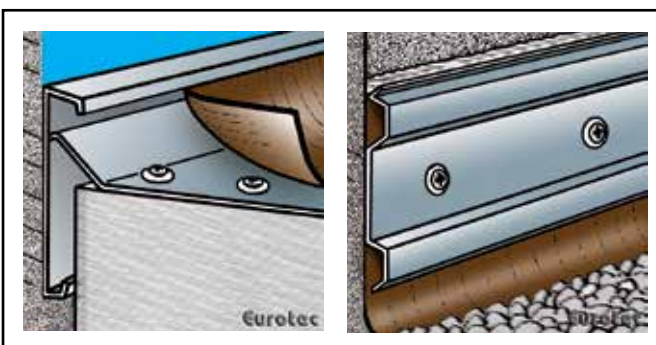
The Eurotec sealing plug is a cross-head screw made of stainless steel/ copper-plated stainless steel and a seal ring made of stainless steel with a neoprene seal vulcanised onto it.

After installation, the premounted seal ring reliably prevents moisture from penetrating into the component through the drill hole.

Especially suitable for:

- anchorages in concrete, solid bricks, sand-lime bricks and other high-strength building materials

Art. no.	Dimensions (mm)	Drive	PU
Stainless steel A2:			
200050	Ø 6,0 x 30	PZ 2	200
200051	Ø 6,0 x 40	PZ 2	200
200052	Ø 6,0 x 50	PZ 2	100
200053	Ø 6,0 x 60	PZ 2	100
Copper:			
200040	Ø 6,0 x 30	PZ 2	200
200041	Ø 6,0 x 40	PZ 2	200
200042	Ø 6,0 x 50	PZ 2	100
200043	Ø 6,0 x 60	PZ 2	100



Technical data

Art. no.	Type	Plug	Nail	Seal ring	Plug	Nail	Drill Ø subsurface	Min. drill hole depth DHD	Min. plug insertion depth ID	Max. drill Ø in attached part	Max. attachment thickness AT
		Ø mm			Length mm		mm	mm	mm	mm	mm
200050	Stainless steel A2	6	4	15	30	35	6	35	25	6	5
200051	Stainless steel A2	6	4	15	40	42	6	35	25	6	15
200052	Stainless steel A2	6	4	15	50	52	6	35	25	6	25
200053	Stainless steel A2	6	4	15	60	62	6	35	25	6	35
200040	Copper	6	4	15	30	35	6	35	25	6	5
200041	Copper	6	4	15	40	42	6	35	25	6	15
200042	Copper	6	4	15	50	52	6	35	25	6	25
200043	Copper	6	4	15	60	62	6	35	25	6	35

Impact rivets

A multi-purpose fastening element with outstanding holding force

Product features

- Can be used in concrete, sand-lime brick, ordinary construction bricks, timber and firm plaster
- Installation is like child's play: drill hole, insert impact rivet, expand by hitting with a hammer – done
- Can be used irrespective of drill-hole depth

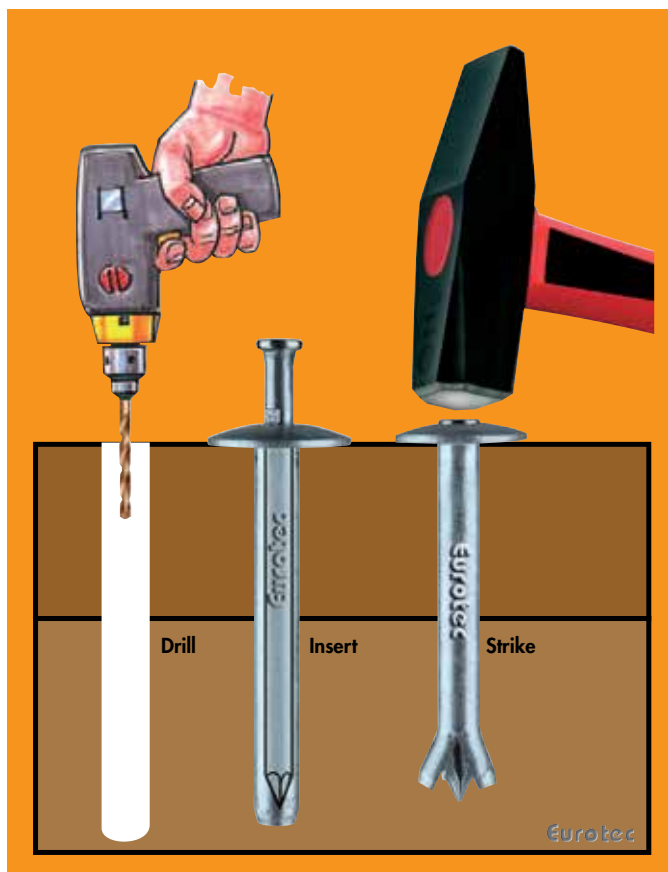
Fields of application: concrete, brickwork, firm plaster, timber; substructures for roof, ceiling and wall

Impact fastening of

- Aluminium, sheet-metal, wall-end and roof-edge profiles
- Chimney flashing, wall coping
- Skylights, roof gullies, roof hatches, smoke extractors, flues
- Moisture-proof roofing sheets, flat-roof end profiles
- Linings and membrane connections for swimming pools
- Flange fastenings
- Frames, door and window frames
- Battens, insulation material
- Floor coverings and much more

Impact rivets

aluminium rivet body/stainless-steel mandrel



Art. no.	Shaft Ø x rivet length (mm)	Drill Ø (mm)	Max. attachment thickness AT (mm)	PU
111246	4,8 x 16	5,0	11,0	200
111247	4,8 x 20	5,0	15,0	200
111248	4,8 x 26	5,0	20,0	200
111249	4,8 x 30	5,0	25,0	200
111250	4,8 x 35	5,0	30,0	200
111251	4,8 x 40	5,0	35,0	200
111252	4,8 x 50	5,0	45,0	200
111253	5,0 x 20	5,0	5,0	200
111254	5,0 x 30	5,0	15,0	200
111260	5,0 x 40	5,0	25,0	200

Ceiling anchor

The through-hole mounting



Galvanised ceiling anchor

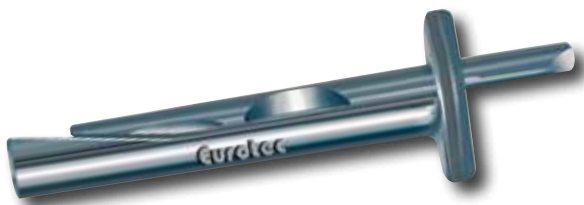
The ceiling anchor is used as a through-hole mounting for fastening substructures/joining devices into concrete.

It is suitable for concrete of strength classes from C20/25 to C50/60.

The ceiling anchor must only be used for fastening non-load bearing systems at multiple locations.

Ceiling anchor

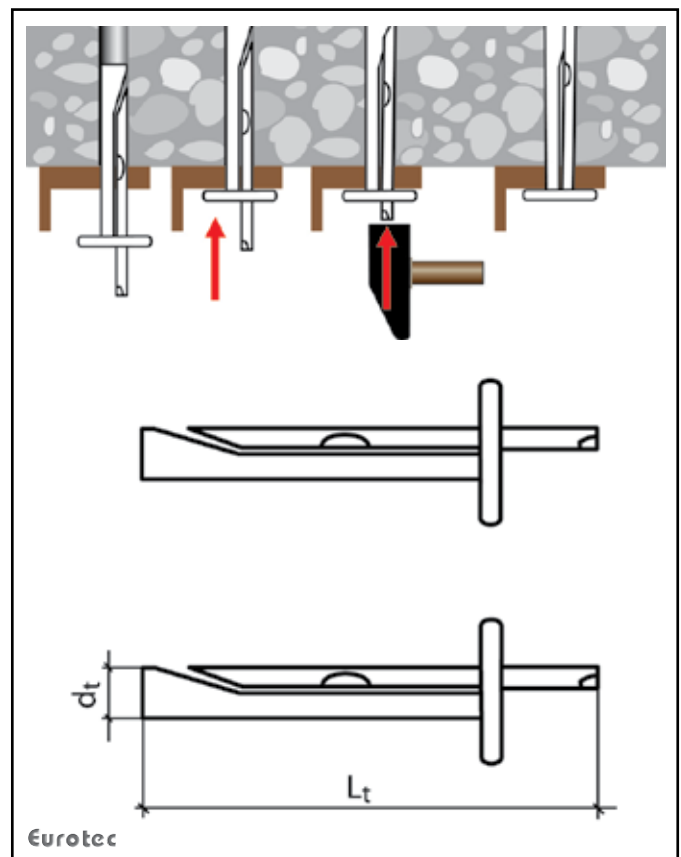
galvanised



Art. no.	Dimensions (mm)	PU
110000	6,0 x 40	200
110001	6,0 x 70	200

Application

- Pilot-drill the base material to the desired depth (but at least 40 mm) with a diameter of 6 mm
- Minimum anchoring depth in the concrete: 32 mm
- Insert the ceiling anchor through the pre-drilled attachment
- Hammer in the pin

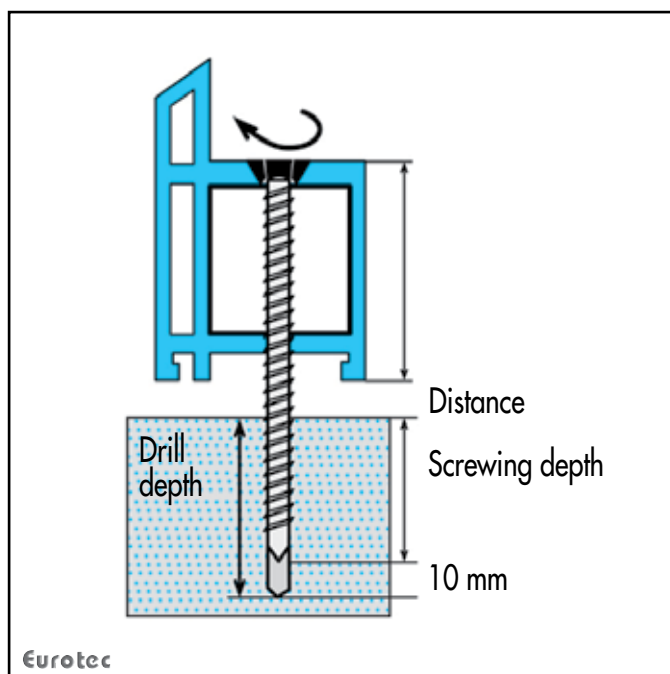
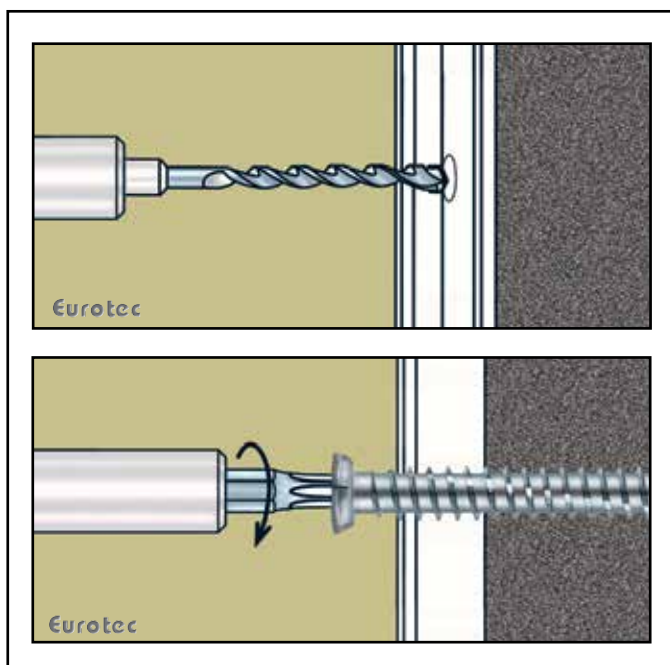


Window frame screws

For unstressed installation of window frames

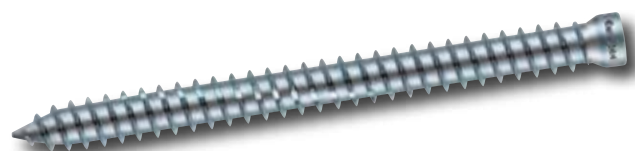
Application

- Pilot-drill the frame to $\varnothing 6,2$ mm; insert and align window
- Pilot-drill the anchoring surface to $\varnothing 6,0$; screw in concrete frame screws



Concrete frame screw

Cylinder head, case-hardened steel

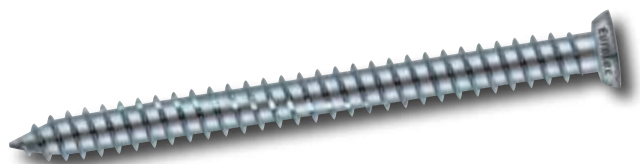


Art. no.	Dimensions (mm)	Drive	Thread	Head- \varnothing (mm)	PU
B110069	7,5 x 42	TX25	FT	7,5	100
B944847	7,5 x 52	TX25	FT	7,5	100
B900905	7,5 x 62	TX25	FT	7,5	100
B110070	7,5 x 72	TX25	FT	7,5	100
B900906	7,5 x 82	TX25	FT	7,5	100
B110071	7,5 x 92	TX25	FT	7,5	100
B900907	7,5 x 102	TX25	FT	7,5	100
B110072	7,5 x 112	TX25	FT	7,5	100
B900725	7,5 x 122	TX25	FT	7,5	100
B110073	7,5 x 132	TX25	FT	7,5	100
B110074	7,5 x 152	TX25	FT	7,5	100
B110075	7,5 x 182	TX25	FT	7,5	100
B110076	7,5 x 212	TX25	FT	7,5	100
B901087	7,5 x 42	TX30	FT	8,5	100
B900023	7,5 x 62	TX30	FT	8,5	100
B900017	7,5 x 72	TX30	FT	8,5	100
B900018	7,5 x 82	TX30	FT	8,5	100
B900019	7,5 x 92	TX30	FT	8,5	100
B900021	7,5 x 102	TX30	FT	8,5	100
B900024	7,5 x 112	TX30	FT	8,5	100
B900020	7,5 x 122	TX30	FT	8,5	100
B900025	7,5 x 132	TX30	FT	8,5	100
B900707	7,5 x 152	TX30	FT	8,5	100
B900383	7,5 x 182	TX30	FT	8,5	100
B901034	7,5 x 212	TX30	DT	8,5	100
B944636	7,5 x 252	TX30	DT	8,5	100
B944637	7,5 x 302	TX30	DT	8,5	100
B944947	7,5 x 320	TX30	DT	8,5	100

FT = fully threaded, DT = double-threaded

Concrete frame screw

Countersunk head, case-hardened steel



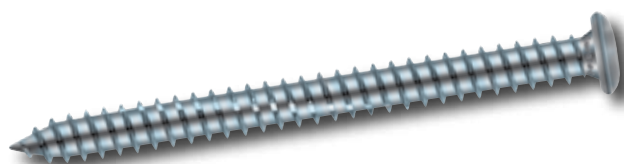
Art. no.	Dimensions (mm)	Drive	Thread	Head-Ø (mm)	PU
B110061	7,5 x 42	TX30 ●	FT	11	100
B900903	7,5 x 52	TX30 ●	FT	11	100
B900620	7,5 x 62	TX30 ●	FT	11	100
B110062	7,5 x 72	TX30 ●	FT	11	100
B900621	7,5 x 82	TX30 ●	FT	11	100
B110063	7,5 x 92	TX30 ●	FT	11	100
B900896	7,5 x 102	TX30 ●	FT	11	100
B110064	7,5 x 112	TX30 ●	FT	11	100
B900724	7,5 x 122	TX30 ●	FT	11	100
B110065	7,5 x 132	TX30 ●	FT	11	100
B110066	7,5 x 152	TX30 ●	FT	11	100
B110067	7,5 x 182	TX30 ●	FT	11	100
B110068	7,5 x 212	TX30 ●	DT	11	100
B944642	7,5 x 232	TX30 ●	DT	11	100
B944638	7,5 x 252	TX30 ●	DT	11	100
B944643	7,5 x 272	TX30 ●	DT	11	100
B944639	7,5 x 302	TX30 ●	DT	11	100
B944641	7,5 x 342	TX30 ●	DT	11	100
B944644	7,5 x 372	TX30 ●	DT	11	100
B944645	7,5 x 402	TX30 ●	DT	11	100

FT = fully threaded, DT = double-threaded

Concrete frame screw

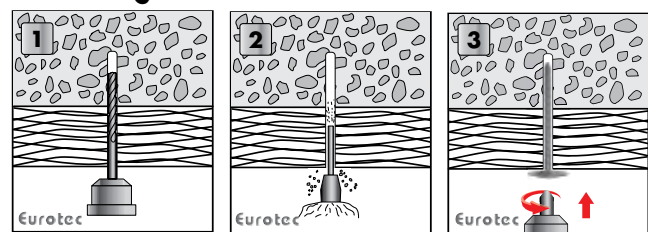
Pan head, galvanised steel

NEW
to our product range



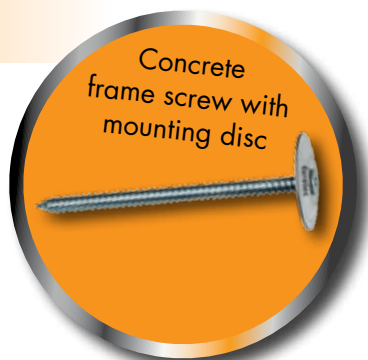
Art. no.	Dimensions (mm)	Drive	PU
b944661	7,5 x 42	TX30 ●	100
b944662	7,5 x 72	TX30 ●	100
b944663	7,5 x 82	TX30 ●	100
b944664	7,5 x 92	TX30 ●	100
b944665	7,5 x 112	TX30 ●	100
b944666	7,5 x 132	TX30 ●	100
b944667	7,5 x 152	TX30 ●	100
b944668	7,5 x 182	TX30 ●	100
b944669	7,5 x 212	TX30 ●	100

Mounting disc installation instructions



Mounting disc

Sendzimiz steel



Art. no.	Plate-Ø (mm)	Ø-Hole (mm)	PU
800308	40	7,35	—*

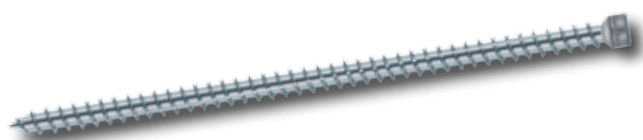
* On request

- Versatile mounting disc for secure and uniform load distribution
- Can be combined with different screws, nails and plugs

Timber frame screw

Cylinder head, galvanised steel

NEW
to our product range



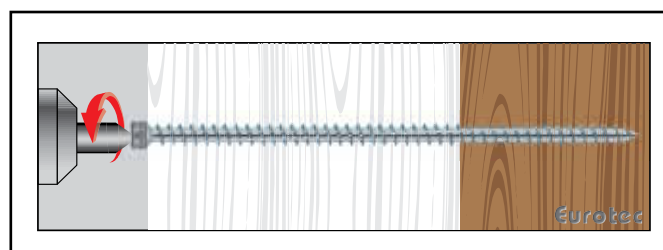
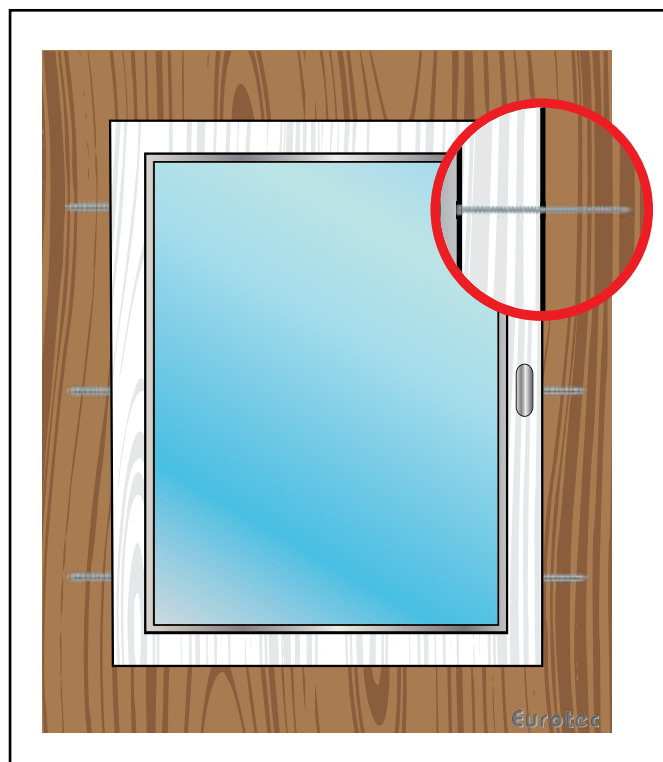
Art. no.	Dimensions (mm)	Drive	PU
B944652	5,0 x 52	TX15 ●	200
B944653	5,0 x 62	TX15 ●	200
B944655	5,0 x 72	TX15 ●	200
B944656	5,0 x 82	TX15 ●	200
B944654	5,0 x 92	TX15 ●	200
B944657	5,0 x 102	TX15 ●	200
B944658	5,0 x 112	TX15 ●	200

Advantages

- Complete seal
- Adapts perfectly
- Prevents the frame from warping
- Optimum load transmission
- Quick and easy dismantling
→ Installation without pilot-drilling
- Plug-free installation minimises wall damage and saves time
- Unstressed window frame installation

Application

- Suitable for timber window frames



Level Max

The perfect assistant

NEW
to our product range



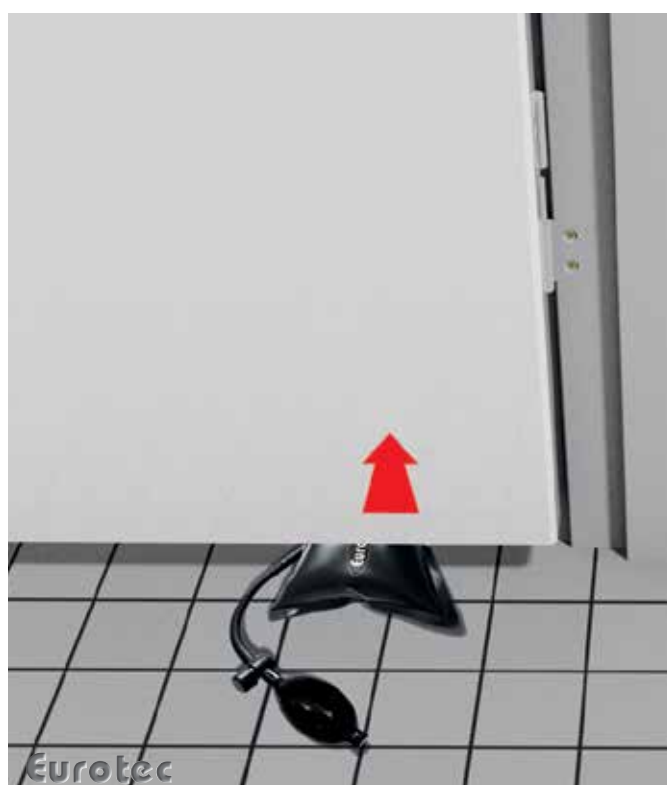
Eurotec Level Max

The Level Max air cushion is an inflatable assembly cushion with a built-in pump that is used to raise, align and position windows, doors, furniture, cupboards and household appliances.

The air cushion's maximum lifting weight is 100 kg.

Say goodbye to cumbersome handling with wedges or other assembly aids, as Eurotec's Level Max air cushion is the ideal tool for aligning, attaching and installing windows, doors, furniture and much more with complete accuracy. It also impresses with its easy operation, allowing positioning with one hand and inflation with the built-in pump.

The Level Max air cushion is not only highly robust and durable but also soft, so it can adapt perfectly to uneven substrates and is gentle to all sensitive surfaces, such as window frames or doors.



Level Max



Art. no.	Dimensions (mm)*	Total weight (g)	PU
800403	150 x 160	79	4

* Assembly cushion

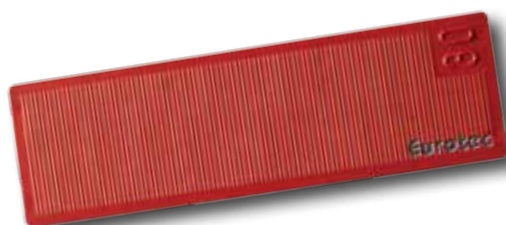
Product properties and advantages

- Enormous time savings
- Accurate alignment down to the last millimetre
- Long-lasting and can be used as often as needed
- Easy operation
- Can be used with one hand

Glazing blocks, block trowel

NEW
to our product range

Glazing blocks



Eurotec glazing blocks

EuroTec offers a large selection of widths and heights to allow the realisation of any conceivable glazing project.

The EuroTec glazing blocks are suitable for use with wooden, plastic and aluminium windows and are ift-tested.

EuroTec glazing blocks are characterised by their high load-bearing capacity, their compatibility with many edge-sealing compounds, and their ageing and temperature resistance.

Advantages

- High load-bearing capacity
- Compatibility with many edge-sealing compounds
- Ageing resistance
- Temperature resistance

Art. no.	Dimensions (mm)	Colour	PU
964615	100 x 20 x 1	white	1000
964616	100 x 20 x 2	blue	1000
964617	100 x 20 x 3	red	1000
964618	100 x 20 x 4	yellow	1000
964619	100 x 20 x 5	green	1000
964620	100 x 20 x 6	black	1000
964588	100 x 22 x 1	white	1000
964589	100 x 22 x 2	blue	1000
964590	100 x 22 x 3	red	1000
964591	100 x 22 x 4	yellow	1000
964592	100 x 22 x 5	green	1000
964621	100 x 22 x 6	black	1000
964622	100 x 24 x 1	white	1000
964593	100 x 24 x 2	blue	1000
964594	100 x 24 x 3	red	1000
964595	100 x 24 x 4	yellow	1000
964623	100 x 24 x 5	green	1000
964624	100 x 24 x 6	black	1000
964625	100 x 26 x 1	white	1000
964626	100 x 26 x 2	blue	1000
964627	100 x 26 x 3	red	1000
964628	100 x 26 x 4	yellow	1000
964629	100 x 26 x 5	green	1000
964630	100 x 26 x 6	black	1000
964631	100 x 28 x 1	white	1000
964632	100 x 28 x 2	blue	1000
964633	100 x 28 x 3	red	1000
964634	100 x 28 x 4	yellow	1000
964635	100 x 28 x 5	green	1000
964636	100 x 28 x 6	black	1000
964597	100 x 30 x 1	white	1000
964605	100 x 30 x 2	blue	1000
964602	100 x 30 x 3	red	1000
964637	100 x 30 x 4	yellow	1000
964638	100 x 30 x 5	green	1000
964639	100 x 30 x 6	black	1000
964640	100 x 36 x 1	white	1000
964641	100 x 36 x 2	blue	1000
964642	100 x 36 x 3	red	1000

Art. no.	Dimensions (mm)	Colour	PU
964643	100 x 36 x 4	yellow	1000
964644	100 x 36 x 5	green	1000
964645	100 x 36 x 6	black	1000
964646	100 x 40 x 1	white	1000
964647	100 x 40 x 2	blue	1000
964648	100 x 40 x 3	red	1000
964649	100 x 40 x 4	yellow	1000
964650	100 x 40 x 5	green	1000
964651	100 x 40 x 6	black	1000
964652	100 x 44 x 1	white	500
964653	100 x 44 x 2	blue	500
964654	100 x 44 x 3	red	500
964655	100 x 44 x 4	yellow	500
964656	100 x 44 x 5	green	500
964657	100 x 44 x 6	black	500
964658	100 x 46 x 1	white	500
964659	100 x 46 x 2	blue	500
964660	100 x 46 x 3	red	500
964661	100 x 46 x 4	yellow	500
964662	100 x 46 x 5	green	500
964663	100 x 46 x 6	black	500
964664	100 x 48 x 1	white	500
964665	100 x 48 x 2	blue	500
964666	100 x 48 x 3	red	500
964667	100 x 48 x 4	yellow	500
964668	100 x 48 x 5	green	500
964669	100 x 48 x 6	black	500
964670	100 x 50 x 1	white	500
964671	100 x 50 x 2	blue	500
964672	100 x 50 x 3	red	500
964673	100 x 50 x 4	yellow	500
964674	100 x 50 x 5	green	500
964675	100 x 50 x 6	black	500

Mixed box glazing blocks



Block trowel

The block trowel makes it easier for users to fit panes of glass. With this double-sided plastic trowel, panes of glass can be lifted effortlessly.

The ergonomic grip is made from hardwood and sits comfortably in the user's hand.

Block trowel

**Makes
your work
easier**



Art. no.	Quantity	Dimensions (mm)	PU
964676	250	100 x 22 x 1	950
	250	100 x 22 x 2	
	250	100 x 22 x 3	
	100	100 x 22 x 4	
	100	100 x 22 x 5	
964596-800	200	100 x 24 x 1	800
	200	100 x 24 x 2	
	200	100 x 24 x 3	
	100	100 x 24 x 4	
	100	100 x 24 x 5	
964677	200	100 x 26 x 1	800
	200	100 x 26 x 2	
	200	100 x 26 x 3	
	100	100 x 26 x 4	
	100	100 x 26 x 5	
964678	200	100 x 28 x 1	800
	200	100 x 28 x 2	
	200	100 x 28 x 3	
	100	100 x 28 x 4	
	100	100 x 28 x 5	
964679	180	100 x 30 x 1	700
	180	100 x 30 x 2	
	180	100 x 30 x 3	
	80	100 x 30 x 4	
	80	100 x 30 x 5	
964680	150	100 x 36 x 1	570
	150	100 x 36 x 2	
	150	100 x 36 x 3	
	60	100 x 36 x 4	
	60	100 x 36 x 5	

Art. no.	Dimensions (mm) ^{a)}	Weight (g)	PU
964681	65	123	1

a) Width of trowel

BiGHTY drilling screw

Fastening steel on steel / timber on steel / steel on timber



BiGHTY

is a drilling screw for steel-steel and timber-steel connections that drills its own core hole and cuts its own mating thread in the component.

There is therefore no need for pilot-drilling or for selecting the correct drill-hole diameter. The specially shaped drill tip prevents the screw from drifting on the surface of the component. This allows fastdrilling.

It is no longer necessary to centre-punch the drilling site.

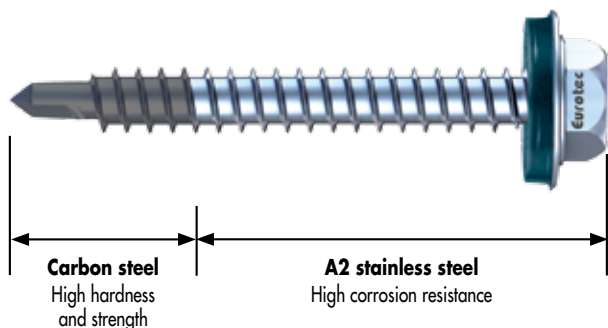
The BiGHTY drilling screw therefore presents a time-saving alternative to conventional self-tapping screws. The BiGHTY drilling screw can be screwed in with a commercially available spanner or socket spanner.

The BiGHTY bimetal combines the high corrosion resistance of A2 stainless steel with the outstanding mechanical properties of a carbon steel.

Advantages BiGHTY bimetal

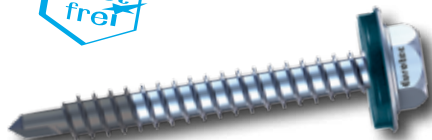
- A2 stainless steel, high corrosion resistance
- tip: Carbon steel, high hardness and strength
- Stainless steel in accordance with DIN 10088
- Seal ring in A2 and EPDM

Schematic representation



BiGHTY drilling screw

bimetal



Art. no. Dimensions (mm) Width across flats Ø Seal ring (mm) H^{a)} (mm) PU

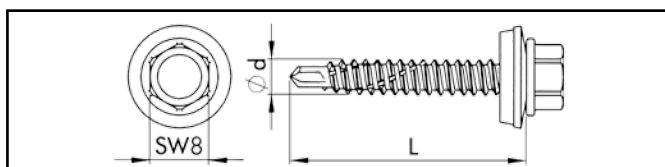
Drilling capacity 3 mm

945884	4,8 x 16	SW8	14	1	500
945885	4,8 x 19	SW8	14	4	500
945886	4,8 x 25	SW8	14	9	500
945887	4,8 x 32	SW8	14	16	500
945888	4,8 x 38	SW8	14	20	200
945847	4,8 x 50	SW8	14	32	200

Drilling capacity 5 mm

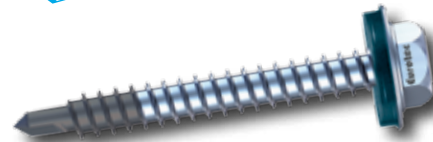
945890	5,5 x 22	SW8	16	3	500
945891	5,5 x 25	SW8	16	7	500
945892	5,5 x 32	SW8	16	14	500
945893	5,5 x 38	SW8	16	20	500
945894	5,5 x 45	SW8	16	27	200
945875	5,5 x 50	SW8	16	32	200
945895	5,5 x 63	SW8	16	45	200

a) H = clamping thickness + sheet thickness t; t_{max} = drilling capacity



BiGHTY drilling screw

bimetal



Art. no. Dimensions (mm) Width across flats Ø Seal ring (mm) H^{a)} (mm) PU

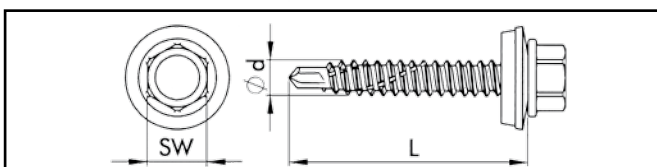
Drilling capacity 5 mm

945896	6,3 x 25	SW10	16	7	500
945897	6,3 x 32	SW10	16	14	200
945898	6,3 x 38	SW10	16	20	200
945899	6,3 x 45	SW10	16	27	200
945841	6,3 x 50	SW10	16	32	200
945900	6,3 x 63	SW10	16	45	200
945901	6,3 x 70	SW10	16	52	200
945902	6,3 x 80	SW10	16	62	200

Drilling capacity 12 mm

945844	5,5 x 38	SW8	16	10	500
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a) H = clamping thickness + sheet thickness t; t_{max} = drilling capacity



BiGHTY drilling screw

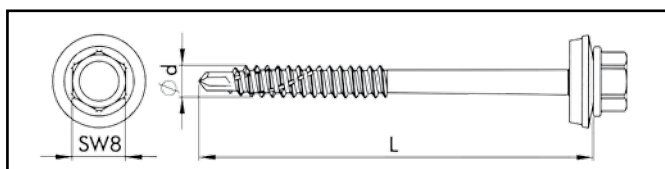
bimetal



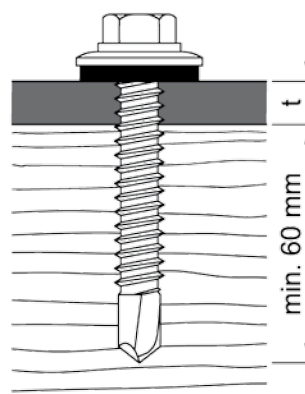
Art. no. Dimensions (mm) Width across flats Ø Seal ring (mm) PU

Drilling capacity 5 mm

945839	6,5 x 120	SW8	16	200
945915	6,5 x 140	SW8	16	200
945916	6,5 x 160	SW8	16	200
945917	6,5 x 180	SW8	16	200
945918	6,5 x 200	SW8	16	200
945919	6,5 x 220	SW8	16	200



Connection option

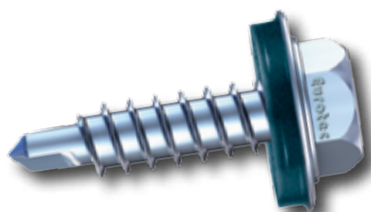


Steel on timber/timber on timber for BiGHTY bimetal 6,5 x L, drilling capacity 5 mm

Please always refer to the information in the ETA-12/0085.

BiGHTY drilling screw

hardened stainless steel, specially coated



Art. no. Dimensions (mm) Width across flats Ø Seal ring (mm) H^{a)} (mm) PU

Drilling capacity 3 mm

945660	4,8 x 19	SW8	14	4	500
945661	4,8 x 25	SW8	14	10	500
945662	4,8 x 32	SW8	14	17	500
945663	4,8 x 38	SW8	14	23	200
945664	4,8 x 50	SW8	14	35	200

Drilling capacity 5 mm

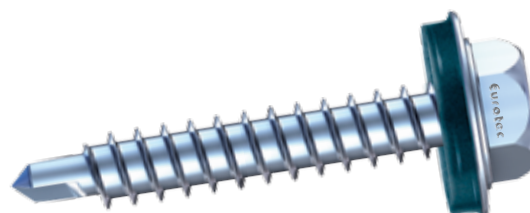
945665	5,5 x 19	SW8	16	2	500
945666	5,5 x 25	SW8	16	8	500
945667	5,5 x 32	SW8	16	15	500
945668	5,5 x 38	SW8	16	21	500
945669	5,5 x 50	SW8	16	33	200
945670	5,5 x 60	SW8	16	43	200

a) H = clamping thickness + sheet thickness t; t_{max} = drilling capacity

- Stainless steel in accordance with DIN 10088
- Seal ring in A2 and EPDM

BiGHTY drilling screw

hardened stainless steel, specially coated



Art. no. Dimensions (mm) Width across flats Ø Seal ring (mm) H^{a)} (mm) PU

Drilling capacity 5 mm

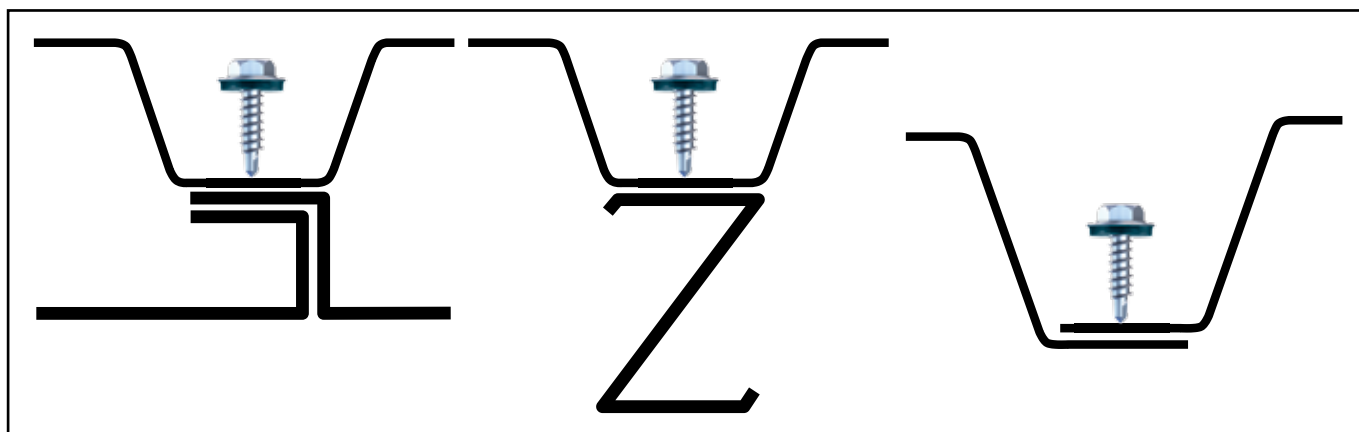
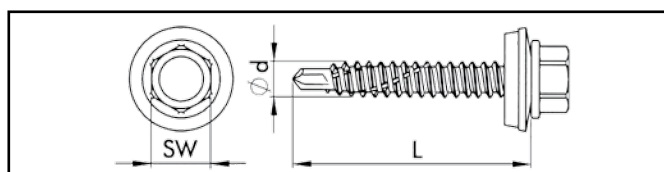
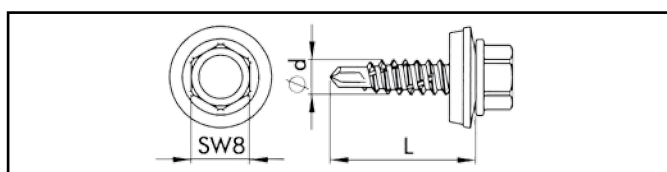
945672	6,3 x 25	SW10	16	8	500
945673	6,3 x 32	SW10	16	15	200
945674	6,3 x 38	SW10	16	21	200
945675	6,3 x 50	SW10	16	33	200
945676	6,3 x 60	SW10	16	43	200

Drilling capacity 12 mm

945671	5,5 x 38	SW8	16	14	500
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a) H = clamping thickness + sheet thickness t; t_{max} = drilling capacity

- Stainless steel in accordance with DIN 10088
- Seal ring in A2 and EPDM



Sandwich-panel screw



Sandwich-panel screw

bimetal

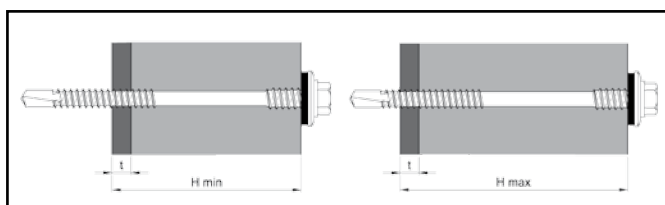
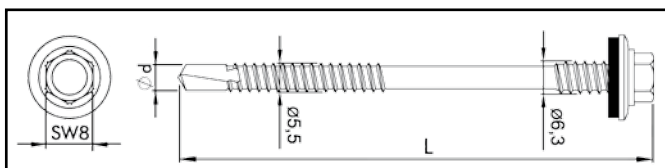


Art. no.	Dimensions ^{a)} (mm)	Width across flats	Ø Seal ring (mm)	H _{min} ^{b)} (mm)	H _{max} ^{b)} (mm)	PU
Drilling capacity 5 mm						
945903	6,3/5,5 x 155	SW8	16	80	135	200
945904	6,3/5,5 x 175	SW8	16	100	155	200
945846	6,3/5,5 x 200	SW8	16	125	180	200
945905	6,3/5,5 x 235	SW8	16	160	215	200
945906	6,3/5,5 x 250	SW8	16	175	230	200
945907	6,3/5,5 x 275	SW8	16	200	255	200
945908	6,3/5,5 x 300	SW8	16	225	280	200
Drilling capacity 12 mm						
945909	6,3/5,5 x 155	SW8	16	75	130	200
945910	6,3/5,5 x 175	SW8	16	95	150	200
945845	6,3/5,5 x 200	SW8	16	120	175	200
945911	6,3/5,5 x 235	SW8	16	155	210	200
945912	6,3/5,5 x 250	SW8	16	170	225	200
945913	6,3/5,5 x 275	SW8	16	195	250	200
945914	6,3/5,5 x 300	SW8	16	220	275	200

a) Ø head thread / Ø drive thread x screw length

b) H = clamping thickness + sheet thickness t; t_{max} = drilling capacity

- specially coated
- Seal ring in A2 and EPDM
- Fastening steel on steel



Roofing screw, Bugle-head screw

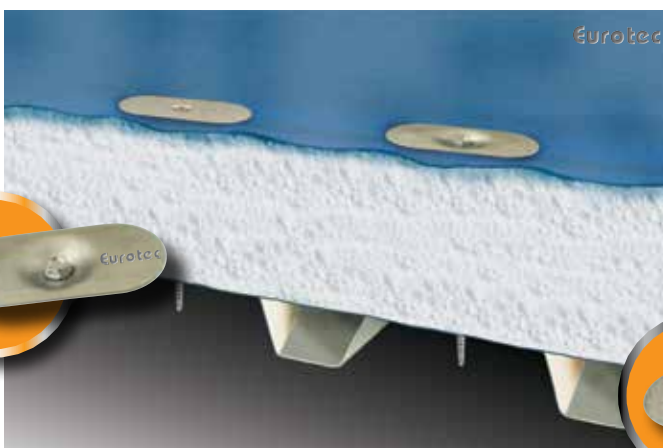
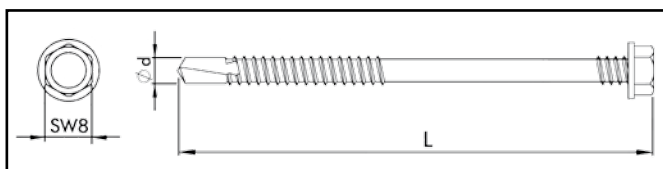
Roofing screw



Art. no.	Dimensions (mm)	Width across flats	PU*
900428	4,8 x 80	SW8	1000
111377	4,8 x 100	SW8	1000
111378	4,8 x 120	SW8	1000
111379	4,8 x 140	SW8	1000
111380	4,8 x 160	SW8	500
111381	4,8 x 180	SW8	500
111382	4,8 x 200	SW8	500
111383	4,8 x 220	SW8	500
111384	4,8 x 240	SW8	250
111385	4,8 x 260	SW8	250

* Plates not included with product

- with hexagon head, secondary thread and drill point
- **Fields of application:** for flat-roof insulation (with anti-slip matting)



Bugle-head screw

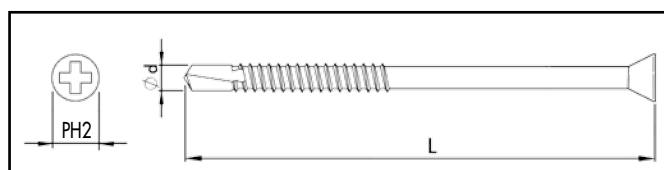
hardened steel, double-coated



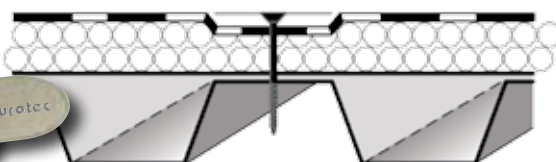
Art. no.	Dimensions (mm)	Cross recess	PU*
901113	4,8 x 35	PH2	1000
900290	4,8 x 50	PH2	1000
111388	4,8 x 60	PH2	1000
111389	4,8 x 70	PH2	1000
111390	4,8 x 80	PH2	500
111391	4,8 x 90	PH2	500
111392	4,8 x 100	PH2	500
111393	4,8 x 120	PH2	500
111394	4,8 x 140	PH2	500
111395	4,8 x 150	PH2	500
111396	4,8 x 160	PH2	500
111397	4,8 x 180	PH2	500
111398	4,8 x 200	PH2	500
111399	4,8 x 220	PH2	500
111400	4,8 x 240	PH2	500
111401	4,8 x 260	PH2	500
111402	4,8 x 280	PH2	250
111403	4,8 x 300	PH2	250

* Plates not included with product

- with bugle-head and drill point
- **Fields of application:** for flat-roof insulation (without anti-slip matting)



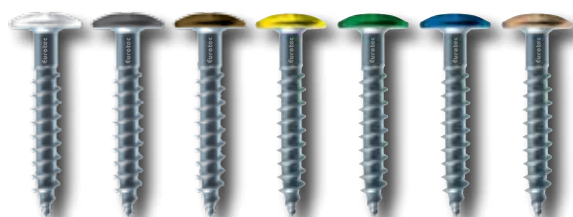
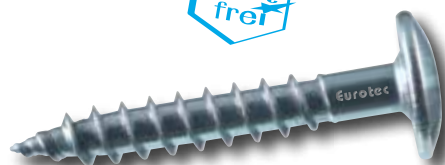
for use on steel profile sheeting



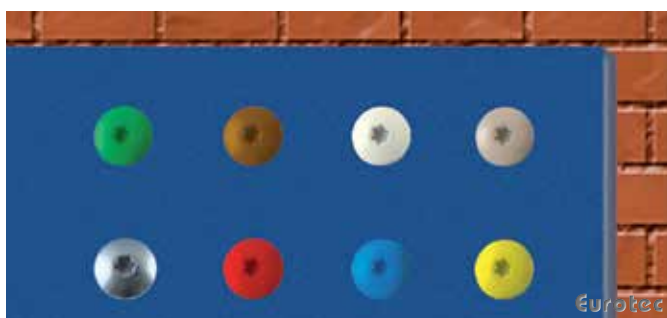
Coloured façade screw

Coloured façade screw

A2 and A4 stainless steel



Art. no.	Dimensions (mm)	Colour	Material	Drive	PU
904670	4,8 x 25	blank	A2	TX20 ●	250
904671	4,8 x 32	blank	A2	TX20 ●	250
904672	4,8 x 38	blank	A2	TX20 ●	250
904675	4,8 x 60	blank	A2	TX20 ●	250
w904670	4,8 x 25	white/RAL 9010	A2	TX20 ●	250
w904671	4,8 x 32	white/RAL 9010	A2	TX20 ●	250
w904672	4,8 x 38	white/RAL 9010	A2	TX20 ●	250
w904675	4,8 x 60	white/RAL 9010	A2	TX20 ●	250
g904670	4,8 x 25	grey/RAL 7016	A2	TX20 ●	250
g904671	4,8 x 32	grey/RAL 7016	A2	TX20 ●	250
g904672	4,8 x 38	grey/RAL 7016	A2	TX20 ●	250
g904675	4,8 x 60	grey/RAL 7016	A2	TX20 ●	250
900429	5,5 x 35	blank	A4	TX20 ●	100
900430	5,5 x 35	brown/RAL 8014	A4	TX20 ●	100
900431	5,5 x 35	white/RAL 9010	A4	TX20 ●	100
900432	5,5 x 35	grey/RAL 7016	A4	TX20 ●	100



Fibre cement screw, washered screw

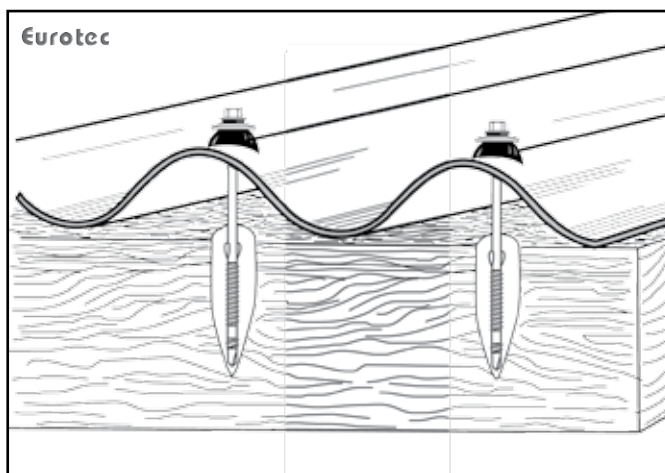
Fibre cement screw

Case-hardened steel and double-coated



Art. no.	Dimensions (mm)	Drive	PU
111353	6,3 x 130	SW8	100

- Hexagon head, with drill point and wings
- Mushroom seal, A2 and EPDM
- **Fields of application:** screwing corrugated fibre-cement boards onto timber



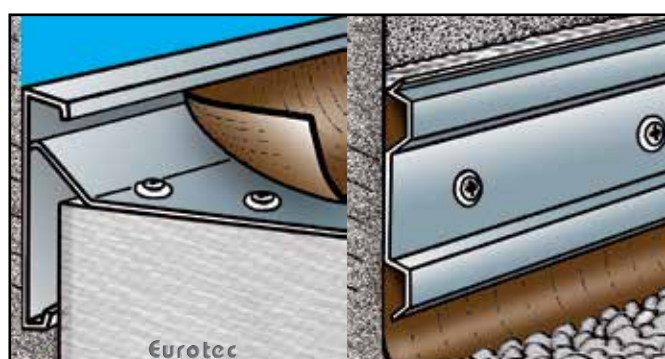
Washed screw

A2 stainless steel, two-part with seal ring



Art. no.	Dimensions (mm)	Ø Seal ring (mm)	Drive	PU
111551	4,5 x 25	15	TX20 ●	500
111552	4,5 x 35	15	TX20 ●	200
111553	4,5 x 45	15	TX20 ●	200
111557	4,5 x 65	15	TX20 ●	200
111558	4,5 x 80	15	TX20 ●	200
111559	4,5 x 100	15	TX20 ●	200
111560	4,5 x 120	15	TX20 ●	200
111561	4,5 x 150	15	TX20 ●	200

- **Fields of application:** Interior construction; e.g. for (commercial) kitchens, cooling systems, etc.



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General Terms and Conditions / Conditions of sale and delivery

All sales to buyers, customers and contract partners, hereinafter referred to as customers, are made exclusively subject to the following terms and conditions unless other agreements are made in writing in the individual case:

1. Scope, general provisions

Our terms and conditions shall apply exclusively! We will not accept contradictory terms and conditions of our customers that deviate from our conditions unless we have given our express written consent to their validity. Our terms and conditions shall apply even if we execute orders without reservation despite being aware of contradictory conditions or conditions that deviate from our terms and conditions. Our terms and conditions shall also apply to all future transactions with our customers. Customers can access the latest version of these Standard Terms and Conditions at www.e-u-r-o-tec.de at any time.

2. Offers, written form

Our offers are non-binding and subject to alteration without notice until we issue our final order confirmation. Contracts and agreements, as well as transactions brokered by our representatives, shall become binding only when we issue our written order confirmation. Verbal agreements, even within the framework of contract execution, are not valid unless confirmed by us in writing.

3. Prices, packaging, offsetting

Unless otherwise indicated by the order confirmation, our prices are ex-works and exclusive of packaging. This is billed separately. The minimum order value is €50.00. For smaller quantities, we charge a flat processing fee of €30.00.

a) Our prices are exclusive of statutory value added tax. This is stated and charged separately in the invoice at the statutory rate applicable on the date of billing.

b) Our customer may only claim a right of offsetting insofar as counterclaims are established to be legally binding or are undisputed or accepted. A right of retention may only be exercised with respect to counterclaims resulting from the same contractual relationship.

4. Delivery, delivery period and force majeure

Unless otherwise agreed in writing, the place of performance shall be our company premises. The goods are shipped at the customer's risk and expense by third parties acting on our behalf.

From the time at which the goods are made ready for delivery and the customer has been informed of their readiness for shipping, the customer shall bear the risk of accidental loss or deterioration of the item. This shall apply even if shipping is delayed as a result of circumstances for which we are not responsible.

Punctual handing over of the goods to a shipping company requires that the order be placed on time by our customer. If the goods are handed over to the appointed shipping company punctually, we will not be liable for delayed delivery to the customer. This shall apply even if a delivery deadline was agreed with the customer, especially in the case of delivery to a construction site. The customer may be exempted from rush charges incurred in relation to this if there is a legal basis for deducting this surcharge from the forwarder's bill.

Statements relating to delivery periods are always to be seen only as approximate and non-binding. They shall begin on the date of our order confirmation but not before all of the order details are clarified in full. They refer to the time of consignment ex-works and shall be considered met when the goods are reported to be ready for dispatch. Without prejudice to our rights arising due to the customer's default, they shall be extended by the period for which the customer is in arrears to us with respect to their obligations arising from this or other orders. Even if they arise at our suppliers, the following grounds are among those that shall release us from the obligation to adhere to the delivery period and shall entitle us to extend the delivery periods, to make partial deliveries or to wholly or partially withdraw from the part of the contract that is not yet fulfilled without becoming liable to pay damages as a result, unless we are guilty of intent or gross negligence: interruptions of operations and difficulties in delivery of any kind, e.g. shortages of machinery, goods, materials or fuels, or incidents of force majeure, e.g. export and import embargos, fires, strikes, lock-outs or new official measures that adversely affect production costs and shipping.

5. Shipping

Goods are shipped at the expense and risk of the customer even if prepaid delivery was agreed. Additional costs for express shipping shall always be borne by the customer. Freight costs paid by us are to be seen only as an advancement of freight charges on behalf of the customer. Additional freight costs for urgent and express parcels shall be borne by the customer, even if we have borne the transport costs on individual occasions.

Goods reported as ready for shipping must be accepted immediately and will be charged as ex-works. If the goods are to be shipped abroad or passed directly to third parties, they must be examined and accepted in our factory; otherwise, the goods shall be deemed to have been delivered in accordance with the contract to the exclusion of any complaints. The risk, including that of confiscation, shall be transferred to the customer when the goods are handed over to the forwarder or freight carrier and, at the latest, when they leave our facility. Return shipments always require prior consultation with our internal sales department. Goods that are free of defects are only taken back with our express consent. A credit note is then issued for the value of the goods with deduction of a 25% return fee per item or against a minimum fee of €50 for returning the goods to storage. Strictly no debit notes are accepted.

6. Design and property rights

The customer shall bear sole responsibility and be liable for ensuring that the goods it orders do not violate third-party property rights. No verification is performed on our part in this respect. The customer shall indemnify us against injunctions or claims for damages by third parties. If an injunction is requested against us, the customer shall meet the legal costs and shall compensate us for the damages we have incurred.

7. Acceptance, quantity tolerances and call-offs

For contracts with ongoing deliveries, the goods are to be accepted in monthly quantities that are as consistent as possible over the course of the contractual period. If a call-off is not made on time, we shall be entitled, after the expiry of a grace period that we have granted, to divide the order at our own discretion, withdraw from the part of the contract that has not yet been executed, or make a claim for damages due to non-performance. In the case of call-off orders, the call-offs must always be made within 12 calendar months. Over- or under-shipment by up to 10% of the order shall be permissible.

8.1 Payment terms for invoices, right of retention

Invoices shall be payable with a 2% discount within 10 days of the invoice date or net within 30 days, regardless of when the goods are received and without prejudice to the right to make a complaint for defects.

Payment by means of acceptance or customer's bill of exchange shall require special written agreement in advance. Discount charges will be charged in the case of payment by means of acceptance, which must have a term no longer than 3 months and be issued within 1 week of the invoice date.

Credit notes for bills of exchange or cheques shall apply subject to receipt and regardless of the purchase price's earlier due date in the event of default by the customer. They shall be issued with the value at the date on which the equivalent amount will be available to us; the discount charges will be charged at the respective bank rate.

In the event that the payment term is exceeded, interest and commissions may be charged without prejudice to other rights at the respective bank rate for overdrafts but at a rate at least 5% above the respective discount rate of the Deutsche Bundesbank [German Federal Bank].

If the payment terms are not adhered to or we become aware of circumstances that, in our view, are sufficient to reduce the customer's credit worthiness, all of our claims shall become payable immediately regardless of the term of any bills of exchange that have been accepted or credited.

We shall then also be entitled to perform outstanding deliveries only in exchange for advance payment, to withdraw from the contract after a reasonable grace period, and to demand compensation for default. We may also prohibit the resale or processing of the delivered goods and demand their return or the transfer of indirect possession of the delivered goods at the customer's expense. The customer hereby already authorises us to enter its premises and confiscate the delivered goods in the above cases.

We shall be entitled to the usual securities for our claims according to their nature and extent, even if they are subject to conditions or of limited duration. Offsetting or withholding payments as a result of any counterclaims or notifications of defects shall be prohibited, except where claims are undisputed or established to be legally binding.

8.2 Terms of payment for web-shop customers

Payment shall be made exclusively in advance. Once the order process in our online shop is complete, you will receive an email with the bank details for our business account. The invoiced amount must be transferred to our account within 7 days. We cannot carry out your order until the payment arrives.

9. Retention of title

Until all liabilities arising from the business relationship are paid in full and, in particular, until all bills of exchange and cheques, including finance bills, given as payment are cashed, the goods delivered by us shall remain our property and may be taken back by us at the customer's expense in the event of default in payment. Until this point, the customer shall not be entitled to pledge or assign the goods to third parties as a security; it may sell them on or process them only within the framework of its ongoing business transactions. The customer shall be obliged to inform us immediately of any seizure by third parties of the goods delivered subject to retention of title. In the event of further processing, the customer shall not acquire ownership of the goods delivered by us as set out in section 950 of the German Civil Code (BGB), as any processing is carried out by the customer on our behalf. Without prejudice to the rights of third-party suppliers, the newly created thing shall serve as security for us up to the amount of our total claims arising from the business relationship. It shall be kept safe for us by the customer and shall be regarded as goods for the purpose of these terms and conditions. If the item is intermixed or otherwise combined with other objects that do not belong to us, we shall acquire at least co-ownership of the new thing in proportion to the value of the contract item to that of other objects that have been processed with it. If the customer sells the goods delivered by us, regardless of their condition, it hereby already assigns to us all claims against its customers arising from sales, as well as all ancillary rights, until all of our claims arising from delivery of goods are paid in full. At our request, the customer shall be obliged to notify its downstream customers of the assignment and to hand over the information and documents we require in order to assert our rights against its downstream customers. If the total value of the securities given to us exceeds our claims arising from delivery by more than 20%, we shall be obliged to retransfer securities to this extent at the customer's request. If the retention of title or assignment is invalid in the territory in which the goods are located, a security corresponding to the retention of title or assignment in this territory shall be deemed to be agreed. If the customer's cooperation is required in this process, it shall take all necessary measures to establish such rights.

10. Notification of defects, liability

Our customer shall be entitled to a warranty only if they have properly fulfilled their legal obligations under sections 377 and 378 of the German Commercial Code (HGB) with respect to the duties of examination and notification. If defects are present, we shall be entitled at our choice to either repair the defects or provide a replacement; if we are not prepared or not able to do so, and especially if repair/replacement is delayed beyond reasonable deadlines for reasons that we are responsible for, or if repair/replacement otherwise fails, our customer shall be entitled at its choice to withdraw from the contract or to demand a corresponding reduction in the price. Unless otherwise stipulated below, further claims of the customer shall be excluded regardless of their legal basis. We shall not be liable for damage that did not occur to the delivered item itself. In particular, we shall not be liable for lost profit or other pecuniary losses of the customer.

The above exemption from liability shall not apply if the damage is caused by intent or gross negligence; it shall also not apply if the customer asserts claims for damages for non-performance due to the lack of a warranted characteristic. If we breach an essential contractual duty through negligence, our duty of reimbursement for property damage or personal injury shall be restricted to the level of cover provided by our product liability insurance. We are prepared to allow the customer to view our policy. The warranty period is 6 months calculated from the date of transfer of risk. This period is a limitation period. The period shall also apply to claims under sections 1 and 4 of the German Product Liability Act (ProdHaftG). Insofar as our liability is excluded or restricted, this shall also apply to the personal liability of our employees, workers, staff, representatives and agents. Goods that are subject to a complaint must not be sent back without obtaining our prior written consent, as otherwise we may refuse to accept them at the sender's expense. Goods that have been partially or wholly processed will not be taken back under any circumstances.

The customer is obliged to make sure that the purchased product is suitable for the intended application using technical descriptions, where available, and based on their specialist knowledge and to familiarise themselves with the application of this product. If they are not familiar with the product's application, our company staff are available to provide advice.

All information and advice from our staff is provided carefully and conscientiously. Under no circumstances does this information and advice replace the indispensable consultancy services of architects and specialist planning companies or the services they provide during construction. Only the authorised professional groups are entitled to provide these services.

11. Place of performance and jurisdiction, miscellaneous

Our company's registered office shall be the place of performance for all obligations arising from this contract, including liabilities from cheques and bills of exchange. Provided our customer is a merchant, the place of jurisdiction for all disputes arising from the contractual relationship shall be, at our choice, the Local Court of Hagen.

Contracts with our customer shall be governed exclusively by German law to the exclusion of the UN Convention on Contracts for the International Sale of Goods of 11 April 1980. The language of the contract shall be German.

Hagen, 17 March 2016

E.u.r.o.Tec GmbH
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