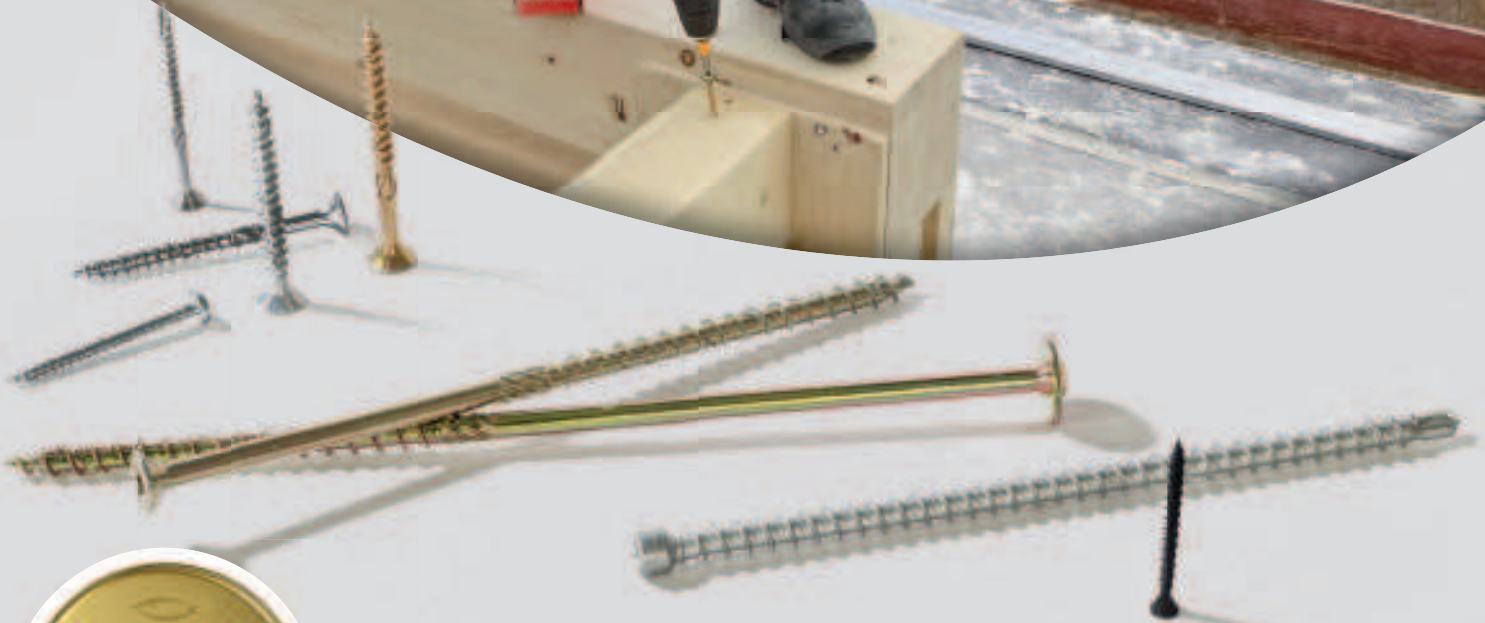


The fischer screw.

For everyone creating great things
with wood



The quality screw
with the fish

fischer 
innovative solutions



Dear Partners,

For over fifty years, the fischer brand has stood for innovative fixing solutions and system competence: in the field of plastics, in metal anchorings and in chemical fixings. This is accompanied by our extensive know-how when it comes to screws, which we offer together with our anchors.

This knowledge provided the foundations when it came to developing our unique fischer Power-Fast screws. With our premium class range, we offer fixing solutions for the most wide-ranging applications – from general purpose to special screws, it incorporates screws for chipboard, timber constructions, timber facades, floor boards, terraces, posts and dry walling.

The fischer Power-Fast screws impress with their simple handling as well as with the greatest safety and economy. Thanks to their special thread, they are extremely easy to screw in, thus saving time, effort and battery power. The high retention forces of our screws have also been confirmed by the building authority approval in line with ETA (European Technical Approval). This includes the fixing of roof and facade insulation systems.

In order to make it easy for you to find the right screw to meet your requirements, we have further improved our catalogue in this, its 3rd edition. The fischer screw catalogue is now even more user-friendly. It is particularly noticeable in the new design with more examples, larger pictures, and clearer diagrams.

In addition, the focus has been on presenting the various uses of the different families of screws. The new assortment pages have also been optimised in terms of their design, the amount of information provided and their legibility. A special "Screw Navigator" simplifies the search and leads you directly to the most suitable fischer screw for the application that you select. The technical section features both example measurements and the new calculation software WOOD-FIX, which is part of the FIXPERIENCE suite.

Our greatest wish is that you like using our screws because they provide a suitable solution for every desired application, and because they can be used quickly and with minimum force.

See for yourself!

Yours, Klaus Fischer

The fischer screw. For everyone creating great things with wood.



**The quality
screw with
the fish**



High performance in terms of force and speed

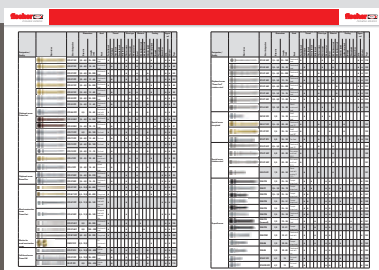
A lasting connection in wooden constructions: what fischer screws stand for. Their unique Power-Fast technology makes them real high performers. The materials and design ensure force and speed, and allow for extremely easy screwing in. Efficiency that pays off daily. www.fischer.de/schrauben

Selection guide		6	
Chipboard screw Power-Fast		52	2
Chipboard screw Bonus-Zinc		92	3
Wood construction screw Power-Fast		98	4
Full thread screw Power-Full		110	5
Chipboard screw stainless steel		116	6
Special screw zinc plated		128	7
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Drywall screw		142	9
DIY programme		158	10
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Screw overview

Find the right product quickly using the table overview of the fischer screw range.

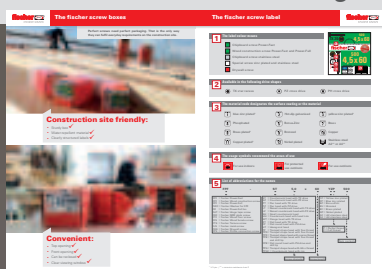
Page 8



Name and label

Find detailed descriptions of the product designations and information on the packaging label.

Page 12



Customer benefit

Find a detailed description of the benefits of the various fischer screws.

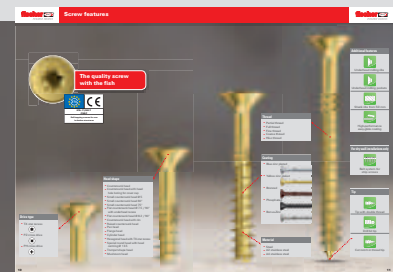
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Description of the individual features

Find an explanation of all of the features of the fischer screws.

Page 10



Trade allocation

Find the right fischer screw for your application.

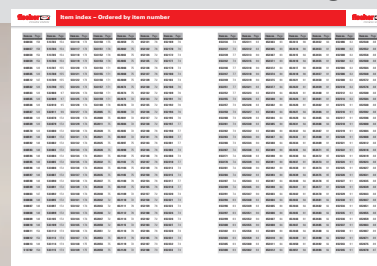
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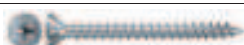
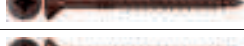
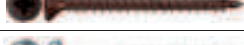
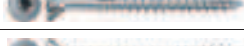
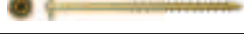
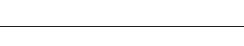
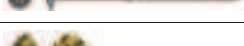


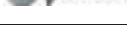
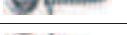
Item list

Find the item you are searching for in the relevant index using the item number or name.

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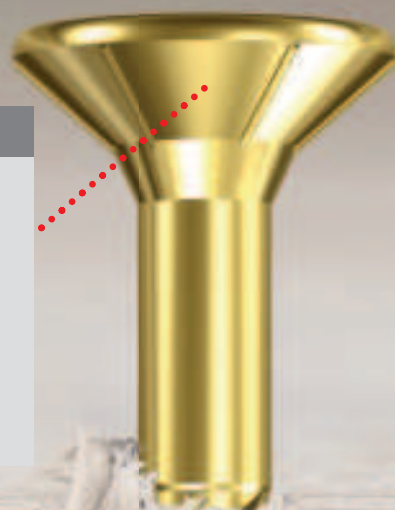


Designation / Quality	Illustration	Short designation	Dimensions		Head	Thread					Drive type			Material		Coating					Approval		Page
			Diameter	Lengths [mm]		Partial thread	Full thread	Fine thread	Coarse thread	HiLo thread	TX star recess	PZ cross-slot	PH cross-slot	Steel	A2 stainless steel	A4 stainless steel	blue zinc plated	yellow zinc plated	Bronzed	Phosphated	Bonus-Zinc	ETA	CE label
Chipboard screw Power-Fast		FPF-ST YZP	3,0 – 6,0	25 – 300	Countersunk head	•					•			•			•				•	•	55
		FPF-ST YZF	3,0 – 6,0	10 – 50	Countersunk head		•				•			•			•				•	•	58
		FPF-ST ZPP	3,0 – 6,0	30 – 300	Countersunk head	•					•			•			•				•	•	60
		FPF-ST ZPF	3,0 – 6,0	12 – 60	Countersunk head		•				•			•			•				•	•	63
		FPF-SZ YZP	3,0 – 6,0	35 – 200	Countersunk head	•					•			•			•				•	•	66
		FPF-SZ YZF	2,0 – 6,0	12 – 60	Countersunk head		•				•			•			•				•	•	69
		FPF-SZ ZPP	3,0 – 6,0	30 – 240	Countersunk head	•					•			•			•				•	•	72
		FPF-SZ ZPF	2,5 – 6,0	12 – 60	Countersunk head		•				•			•			•				•	•	75
		FPF-HH ZPP	4,5	25 – 60	Countersunk head with head hole	•					•			•			•				•	•	78
		FPF-SZ BUP	3,5 – 6,0	16 – 200	Countersunk head	•					•			•				•			•	•	79
		FPF-SZ BUF	2,5 – 6,0	10 – 70	Countersunk head		•				•			•				•			•	•	81
		FPF-PT ZPP	6,0	80 – 100	Pan head	•					•			•			•				•	•	84
		FPF-PT ZPF	3,0 – 6,0	12 – 60	Pan head		•				•			•			•				•	•	85
		FPF-PZ ZPP	5,0 – 6,0	80 – 100	Pan head	•					•			•			•				•	•	87
		FPF-PZ ZPF	3,0 – 6,0	12 – 70	Pan head		•				•			•			•				•	•	88
		FPF-LZ YZF	3,0 – 4,5	20 – 60	Raised countersunk head		•				•			•			•				•	•	90
		FPF-LZ ZPF	3,0 – 6,0	16 – 60	Raised countersunk head		•				•			•			•				•	•	91
Chipboard screw Bonus-Zinc		FPF-ST BZP	3,5 – 6,0	30 – 220	Countersunk head	•					•			•							•	•	95
		FPF-ST BZF	3,5 – 5,0	15 – 25	Countersunk head		•				•			•							•	•	97
Wood construction screw Power-Fast		FPF-ST YZP	8,0 – 10,0	80 – 400	Countersunk head	•					•			•			•				•	•	101
		FPF-WT YZP	6,0 – 10,0	60 – 400	Flange head	•					•			•			•				•	•	102
		FPF-HT ZPP	8,0 – 12,0	80 – 140	Hexagonal head with recessed Torx	•					•			•							•	•	104
		FPF-HT BZP	8,0 – 12,0	80 – 140	Hexagonal head with recessed Torx	•					•			•							•	•	105
		FPF-ST A2P	8,0	80 – 300	Countersunk head	•					•			•							•	•	106
		FPF-ST A4P	8,0	100 – 200	Countersunk head	•					•				•						•	•	107
		FPF-WT-A2P	6,0 – 8,0	40 – 200	Flange head	•					•			•							•	•	108
Washer for wood construction screw		FWC-CS YZ	6,0 – 10,0		For countersunk head									•			•				•	•	109
Full thread screw Power-Full		FPF-ZT ZPF	6,5 – 10,0	120 – 600	Cylinder head		•				•			•			•				•	•	113
		FPF-ST ZPF	8,0 – 10,0	95 – 400	Countersunk head		•				•			•			•				•	•	114
		FIF-ZT ZPF	8,0	225 – 435	Cylinder head		•				•			•			•				•	•	115

Designation / Quality	Illustration	Short designation	Dimensions		Head	Thread					Drive type			Material			Coating					Approval		Page
			Diameter	Lengths [mm]		Partial thread	Full thread	Fine thread	Coarse thread	HiLo thread	TX star recess	PZ cross-slot	PH cross-slot	Steel	A2 stainless steel	A4 stainless steel	blue zinc plated	yellow zinc plated	Bronzed	Phosphated	Bonus-Zinc	ETA	CE label	
Chipboard screw "Power Fast" stainless steel		FPF-SZ A2P	3,5 – 6,0	35 – 160	Countersunk head	•					•			•								•	•	119
		FPF-SZ A2F	3,0 – 5,0	20 – 40	Countersunk head		•				•			•								•	•	120
		FPF-ST A2P	3,5 – 6,0	35 – 200	Countersunk head	•					•			•								•	•	121
		FPF-ST A2F	3,0 – 5,0	12 – 35	Countersunk head		•				•			•								•	•	122
		FPF-ST A4P	4,0 – 6,0	35 – 200	Countersunk head	•					•				•							•	•	123
		FPF-ST A4F	3,0 – 5,0	16 – 35	Countersunk head		•				•				•							•	•	124
		FPF-PT A2F	3,0 – 6,0	12 – 60	Pan head		•				•			•								•	•	125
		FPF-LZ A2F	3,0 – 5,0	16 – 60	Raised countersunk head		•					•			•							•	•	126
Special screw zinc plated		FHT-SZ ZPF	3,0	16 – 30	Small countersunk head		•					•		•			•							131
		FDF-ST YZP	3,5 – 4,5	40 – 60	Countersunk head 75°	•					•			•			•							132
		FTF-ST YZP	3,5	35 – 55	Small countersunk head 60°	•					•			•			•							133
		FPF-PT ZPF	5,0	35 – 50	Pan Head		•				•			•			•					•	•	134
Special screw stainless steel		FFS-ST A2P	4,5 – 5,0	35 – 80	Countersunk head 75°	•					•			•										139
		FTS-ST A2P	5,0	40 – 80	Flat countersunk head D 8.2	•					•			•										140
		FPF-ST A2P	5,5	40 – 80	Flat countersunk head D 7.5	•					•			•										141
		FJS-LT A2F	7,0	40 – 50	Round head with centring D 13.5		•				•			•										141
Drywall screw		FSN-TPR	3,9	25 – 55	Trumpet shape head		•	•				•	•						•			•	•	145
		FSN-TP	3,5 – 3,9	25 – 70	Trumpet shape head		•	•				•	•				•					•	•	146
		FSN-TPD	3,5 – 3,9	25 – 55	Trumpet shape head		•	•				•	•						•			•	•	147
		FSN-TPD	3,5	25 – 51	Trumpet shape head		•	•				•	•				•					•	•	148
		FSN-TPB	3,5	25 – 55	Trumpet shape head		•	•				•	•						•			•	•	149
		FSN-TPB	3,5	25 – 38	Countersunk head		•	•				•	•				•					•	•	150
		FSN-TPG (fermacell)	3,9	19 – 55	Countersunk head		•		•			•	•						•			•	•	151
		FSN-TPG	3,9	32 – 41	Trumpet shape head		•		•			•	•						•			•	•	152
		FSN-TPGC	3,9	32 – 41	Countersunk head with rim		•		•			•	•				•					•	•	153
		FSN-UN	3,9	30 – 55	Trumpet shape head		•		•			•	•				•					•	•	154
		FSN-GU	3,9	30 – 40	Countersunk head with rim		•		•			•	•							•		•	•	155
		FPS-FP ZPF	4,2	13	Flat round head		•					•	•				•					•	•	156
		FPS-FPB ZPF	4,2	13	Flat round head		•					•	•				•					•	•	156



**The quality screw
with the fish**



Drive type

- TX star recess



- PZ cross drive

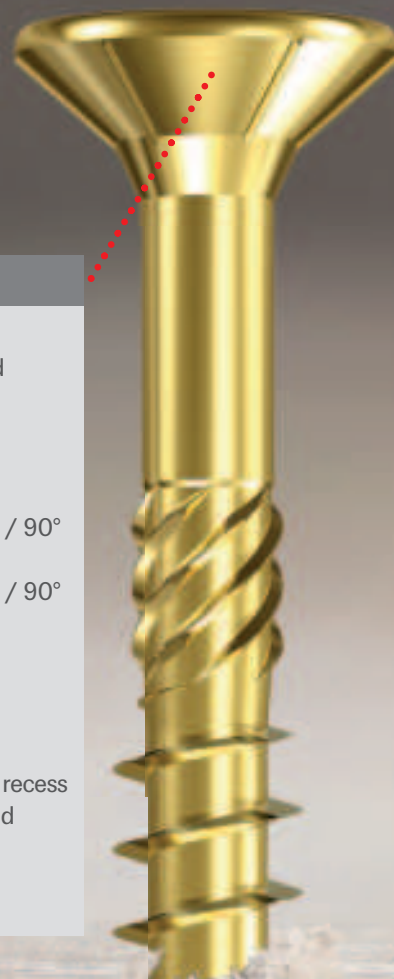


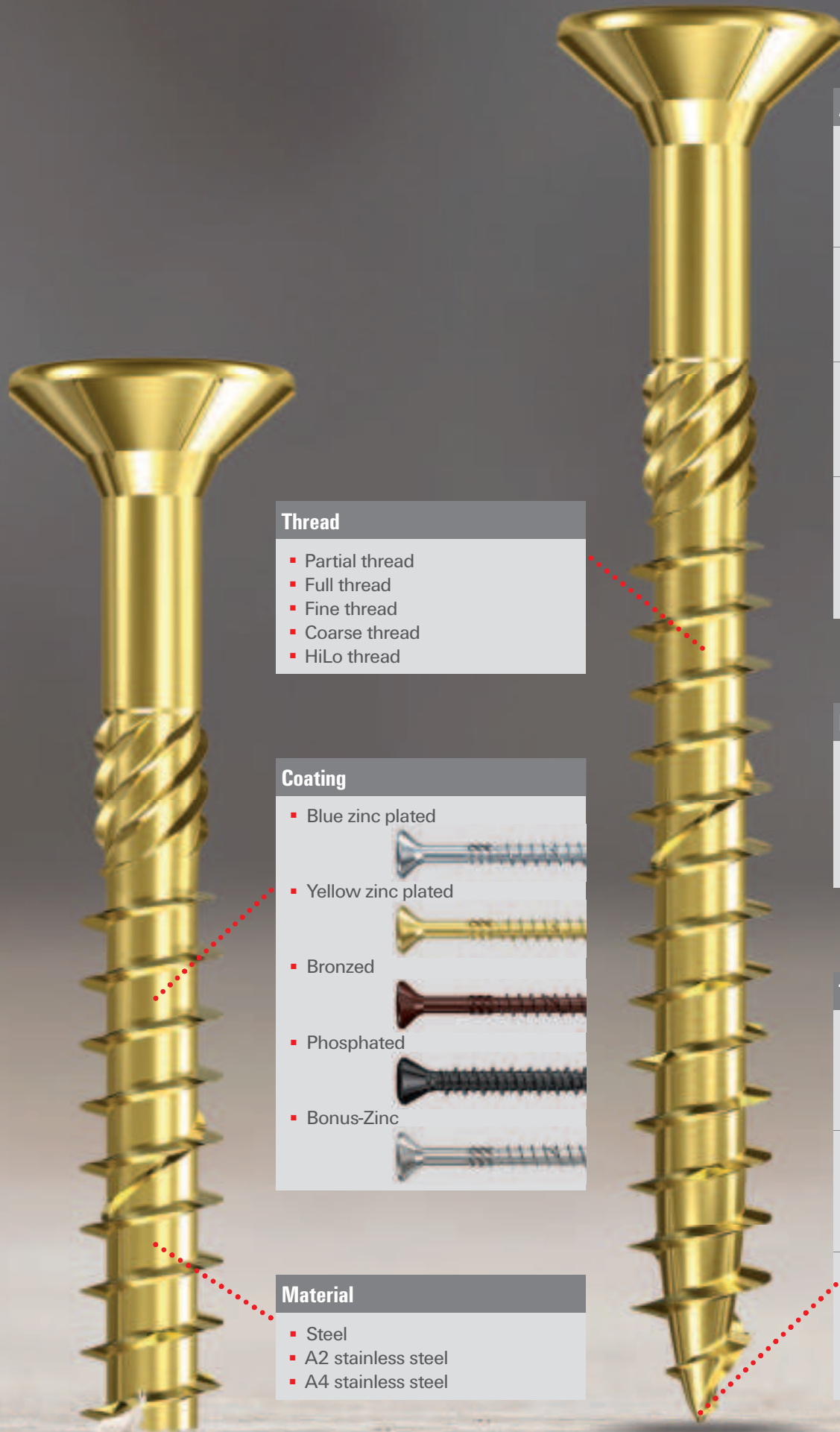
- PH cross drive



Head shape

- Countersunk head
- Countersunk head with head hole boring for cover cap
- Small countersunk head Ø 5
- Small countersunk head 60°
- Small countersunk head 75°
- Flat countersunk head Ø 7.5 / 90° with underhead recess
- Flat countersunk head Ø 8.2 / 90°
- Countersunk head with rim
- Raised countersunk head
- Pan head
- Flange head
- Cylinder head
- Hexagonal head with TX star recess
- Special round head with head centring Ø 13.5
- Trumpet shape head
- Mushroom head





Thread

- Partial thread
- Full thread
- Fine thread
- Coarse thread
- HiLo thread

Coating

- Blue zinc plated
- Yellow zinc plated
- Bronzed
- Phosphated
- Bonus-Zinc

Material

- Steel
- A2 stainless steel
- A4 stainless steel

Additional features



Underhead milling ribs



Underhead milling pockets



Shank ribs from 50 mm



High-performance
easy-glide coating

For dry wall installations only



Belt system for
strip screws

Tip



Tip with double thread



Drill bit tip



Cut notch in thread tip

Perfect screws need perfect packaging. That is the only way they can fulfil everyday requirements on the construction site.



Construction site friendly:

- Sturdy box ✓
- Water-repellent material ✓
- Clearly structured labels ✓



Convenient:

- Top opening ✓
- Front opening ✓
- Can be reclosed ✓
- Clear viewing window ✓

TX 20

1

fischer

500

4,5 x 60

TX 2

2

Max. Cmh
3

3

4

500

4,5 x 60

Art.-Nr. 053552 • FPF-ST 4.5x60 Y2P 500

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 TX star recess
 PZ cross drive
 PH cross drive

1	blue zinc plated*	2	Hot-dip galvanised	3	yellow zinc plated*
4	Phosphated	5	Bonus-Zinc	7	Brass
8	Brass plated*	9	Bronzed	10	Copper
11	Copper plated*	12	Nickel plated	13	Stainless steel A2** or A4**

 For use indoors
 For protected use outdoors
 For use outdoors

[illegible]

13





Carpenters / Wood engineers

Page 16



- Wood-wood connections
- Steel sheet-wood connections
- Structural wood connections

Joiners / Cabinetmakers

Page 26



- Installation of strap hinges
- MDF-panel material connections
- Laying boarded floors
- Fixing skirting boards
- Screwing panels & solid wood

Garden / Outdoors

Page 29



- Terrace installations
- Post installations
- Fixing metal fittings
- Wood-wood connections
- Wood facade fixings

Plasterers

Page 32



- Metal profile stand installations
- Gypsum plasterboard installations
- Gypsum fibreboard installations



Wood-wood connections



The fischer Power-Fast chipboard screw is the ideal screw for wood-wood connections. The unique Power-Fast thread technology gives the screw outstanding performance ability.

fischer Power-Fast **Chipboard screw**

Ø = 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 6.0 mm

Full and partial thread

Blue / yellow zinc plated

A2 / A4 stainless steel

Various head options with TX star recess and PZ drive



Page 55

Wood-wood connections



The fischer Power-Fast wood construction screws have been specially designed for structural wood constructions. Can be used for large wood cross-sections, e.g. chevron-purlin connections.

fischer Power-Fast **Wood construction screw**

Ø = 6.0 / 8.0 / 10.0 mm

Yellow zinc plated

A2 / A4 stainless steel

Various head options with TX star recess



Page 101



Wood-wood connections



The fischer Power-Full wood construction screw is predestined for times when very large pull-out resistances are required. Thanks to its full thread, considerably greater loads can be borne in comparison with partial thread screws with countersunk or flat heads.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess





Steel sheet-wood connections



Special head geometries, like the pan head, allow for the fixing of steel sheets on wood sub-structures. The flat underneath creates a completely flush finish on the steel sheet.

fischer Power-Fast **Chipboard screw**

Ø = 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 6.0 mm

Full and partial thread

Blue / yellow zinc plated

A2 / A4 stainless steel

Various head options with TX star recess and PZ drive



Stainless steel: Page 119
Wood connector: Page 134

Steel sheet-wood connections



In wood constructions, steel sheet-wood connections are a daily occurrence. Wood construction screws with flange heads or, in the case of thicker, pre-drilled and countersunk steel parts, countersunk screws are often used.

fischer Power-Fast **Wood construction screw**

Ø = 6.0 / 8.0 / 10.0 / 12.0 mm

Yellow zinc plated

A2 stainless steel

Various head options with TX star recess



Page 101



Steel sheet-wood connections



Custom steel components are often produced, especially in the field of engineered wood constructions. As enormous loads must be borne on these joints, full thread screws with countersunk heads are essential.

fischer Power-Full **Wood construction screw**
 $\varnothing = 8.0 / 10.0 \text{ mm}$
 Blue zinc plated
 Countersunk head with TX star recess





Main / sub-beam connections



In contrast with alternative sheet connection solutions, main/sub-beam connections can also be carried out using full thread screws, which are screwed in at an angle of 45°.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess



Lateral pressure support reinforcement



An excessive surface pressure compresses the wood fibres. In order to reduce this surface pressure, a steel sheet can be placed in between, transferring the force across the screw heads into the screws.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess





Notches



Beam notch on the bearing area to reduce the component height (e.g. for restoring old buildings). The transverse tensile strength can be increased using full thread screws.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess



Beam false edges



The application of additional loads means that the beam cross-sections that were originally planned are no longer structurally sufficient. The solution is a so-called doubler in conjunction with full thread screws screwed in at an angle, transferring the shear force into the joint.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess





Beam head repairs



Wood often becomes damaged on old wood beam ceilings, mainly on the bearing area. Wood straps screwed on laterally can be used to re-establish the load-bearing capacity.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess



Page 113

Openings



Beam openings are used for pipes and all kinds of installation cables. The weakness in the beam can be compensated for using full thread screws.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess



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Cross-tensional reinforcements



Load-bearing wood components that are at right angles to the wooden fibres demonstrate an increased tensile shear load. Full thread screws can be used to avoid a reduction in the load-bearing capacity.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess



Tensile shearing connections



Alternatively, full thread screws can also be used for tensile shearing connections. Rotation at an angle sees the tension be applied to the screws, thus allowing for the assumption of very high loads.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

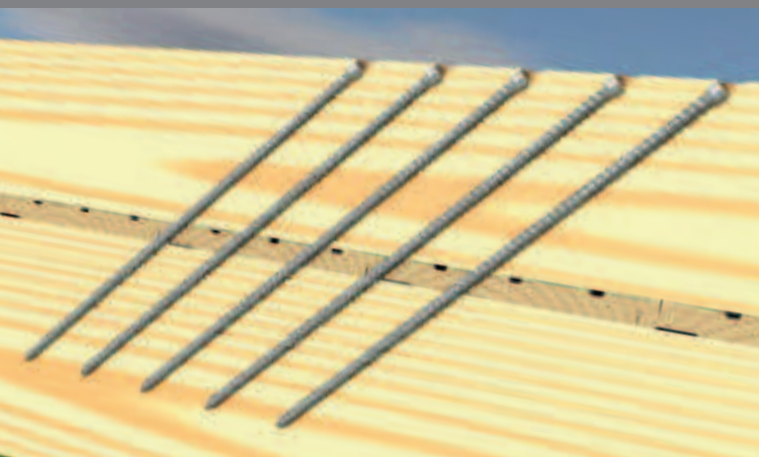
Blue zinc plated

Cylinder head or countersunk head with TX star recess





On-rafter insulation



The full thread screw can be used to affix so-called shear woods. Extremely high loads can be dissipated via the full thread. In order to expose the screws to the tension, they are screwed in at an angle of 45°-60° to the pitch of the roof.

fischer Power-Full **Wood construction screw**

Ø = 6.5 / 8.0 / 10.0 mm

Zinc flake coating

Blue zinc plated

Cylinder head or countersunk head with TX star recess



Page 113

On-rafter insulation



Standard solution for affixing the chevrons in beams and purlins. The screw can also be used as a suction screw for the fixing of counter battens. The flange head allows for significantly higher pull-out resistances compared with the countersunk head.

fischer Power-Fast **Wood construction screw**

Ø = 6.0 / 8.0 / 10.0 mm

Yellow zinc plated

A2 stainless steel

Flange head with TX star recess



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On-rafter insulation



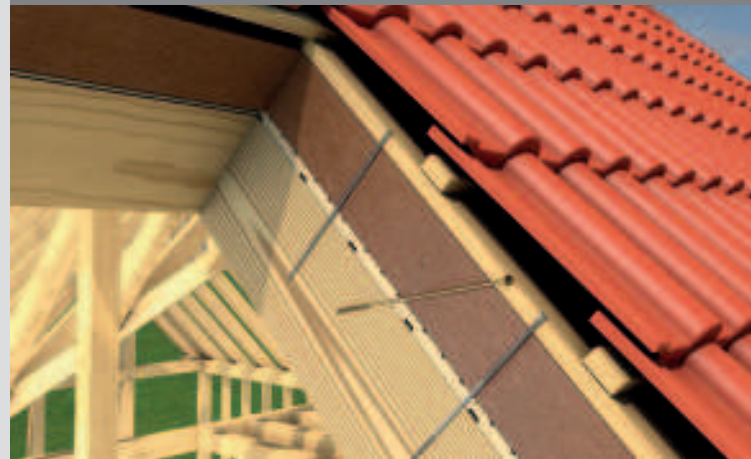
Standard solution for affixing the chevrons in beams and purlins. The screw can also be used as a suction and shear screw for the fixing of counter battens.

fischer Power-Fast **Wood construction screw**
 $\varnothing = 8.0 / 10.0 \text{ mm}$
 Yellow zinc plated
 A2 stainless steel
 Countersunk head with TX star recess



Page 101

On-rafter insulation



If insulation materials have a compressive stress of $<0.05 \text{ N/mm}^2$ at 10% compression, they are referred to as soft insulation. In this case, a so-called double-threaded screw is necessary to dissipate the roof load.

fischer Power-Full-Iso **Wood construction screw**
 $\varnothing = 8.0 \text{ mm}$
 Blue zinc plated
 Cylinder head with TX star recess



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Installation of strap hinges



For the affixing of hinges and piano hinges. The small countersunk head (without underhead milling ribs) creates a flush finish with the hinge.

fischer Hinge tape screw

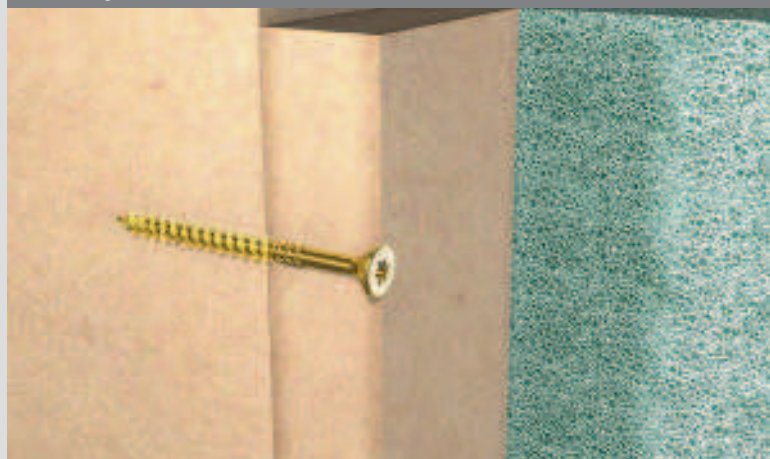
Ø = 3.0 mm

Blue zinc plated

Small countersunk head with PZ drive, Ø 5 mm



MDF-panel material connections



The MDF plate screw is suitable for use with MDF materials, e.g. in upscale interior finishing and in furniture construction.

fischer MDF plate screw

Ø = 3.5 / 4.0 / 4.5 mm

Yellow zinc plated

Small countersunk head with TX star recess, 75°





Laying boarded floors



The small 60° countersunk head has been especially designed for out-of-sight screwing in the tongues of solid wood floors. In combination with the Power-Fast thread geometry, the screw can be installed quickly and easily without pre-drilling the wood.

fischer **Wood floor screw**

Ø = 3.5 mm

Yellow zinc plated

Small countersunk head with TX star recess, 60°, Ø 6 mm



Fixing skirting boards



The fischer chipboard screw with raised countersunk head is also ideally suited to the fixing of skirting boards on wood sub-structures. The small countersunk head results in an attractive finish.

fischer Power-Fast **Chipboard screw**

Ø = 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 6.0 mm

Full thread

Blue / yellow zinc plated

Raised countersunk head with TX star recess and PZ drive





Screwing panel materials & solid wood



The fischer Power-Fast chipboard screw is ideal for the screwing of panel materials and solid wood. Thanks to its unique screw geometry, screws can be installed easily and securely, even in difficult materials.

fischer Power-Fast **Chipboard screw**

Ø = 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 6.0 mm

Full and partial thread

Blue / yellow zinc plated

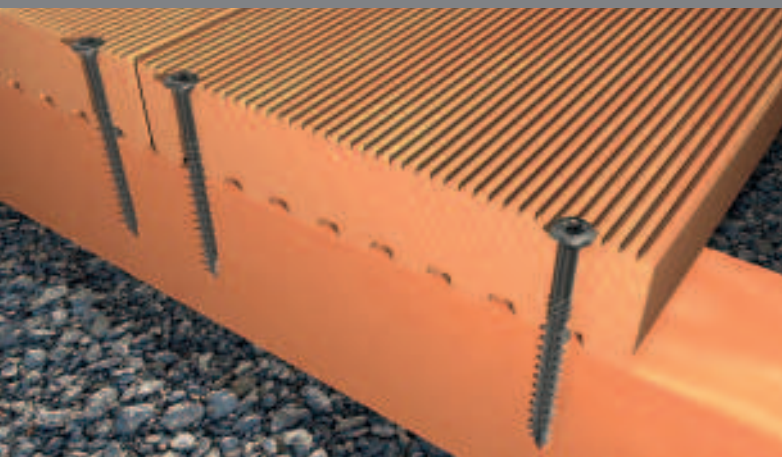
A2 / A4 stainless steel

Various head options with TX star recess and PZ drive





Terrace installation

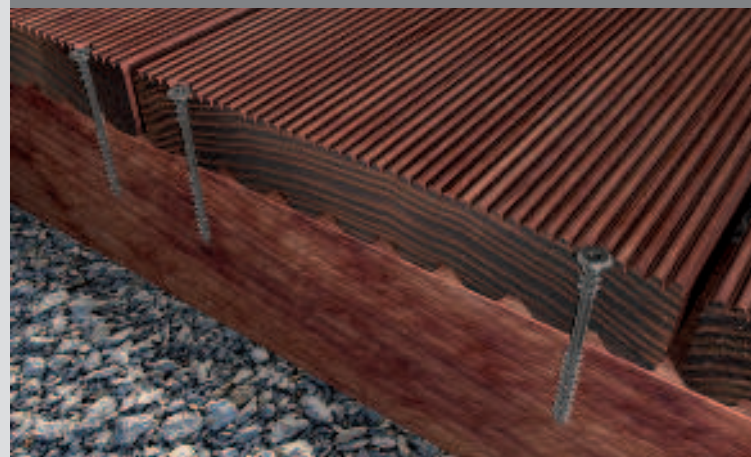


For the fixing of terrace decking on a wooden sub-structure. The special thread design allows for quick and easy fixing (pre-drilling recommended).

fischer **Terrace screw**
Ø = 5.0 mm
A2 stainless steel
Flat countersunk head with TX star recess



Terrace installation hardwood



The thicker screw diameter and the Power-Fast thread allow for a secure and gap-free fixing, even with hard woods. In addition, the underhead thread effectively prevents creaking noises in the long term (pre-drilling recommended).

fischer **Power-Fast Terrace screw**
Ø = 5.5 mm
A2 stainless steel
Flat countersunk head with TX star recess





Post installations



The head geometry has been specially designed for use with the pre-drilled holes in post anchors, thus allowing for excellent processing and a lasting secure connection.

fischer **Jamb screw**

Ø = 7.0 mm

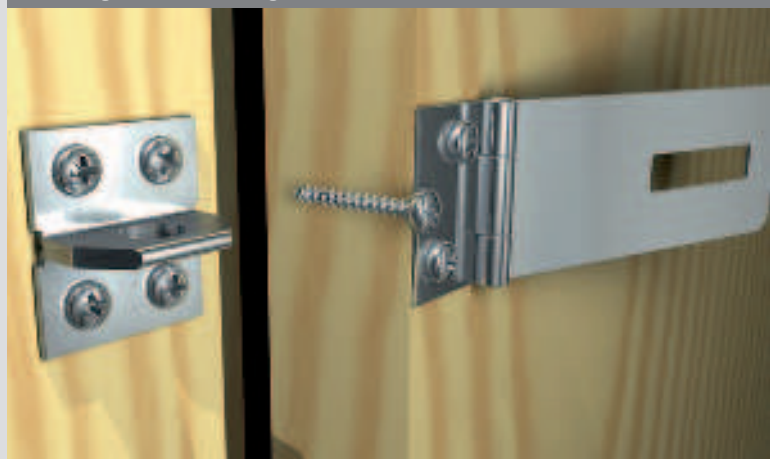
A2 stainless steel

Special round head with TX star recess



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Fixing metal fittings



For the fixing of metal components or fittings on outdoor wood sub-structures.

fischer Power-Fast **Chipboard screw**

Ø = 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 6.0 mm

A2 stainless steel

Pan head with TX star recess



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Wood-Wood connections



The fischer Power-Fast chipboard screw is ideal for the screwing of various wood elements outdoors. There is a choice of A2 and A4 stainless steel to guarantee a secure and lasting fixing for every application.

fischer Power-Fast **Chipboard screw**

Ø = 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 6.0 mm

A2 / A4 stainless steel

Countersunk head / raised countersunk head with TX star recess / PZ drive



Wood facade fixings



The narrow countersunk head allows for the unobtrusive and splinter-proof fixing of visible wooden cladding on wood sub-structures.

fischer **Wood facade screw**

Ø = 4.5 / 5.0 mm

A2 stainless steel

Small countersunk head with TX star recess





Metal profile stand installations

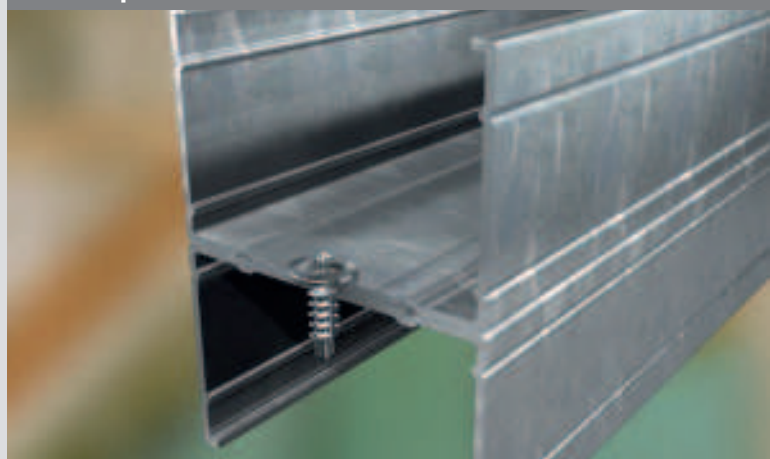


The special dimension allows for the reliable connection of metal profiles of up to 0.7 mm in thickness without pre-drilling.

fischer **Profile connection screw**
Ø = 4.2 mm
Blue zinc plated
Flat round head with PH drive



Metal profile stand installations



The special dimension with drill bit tip allows for the reliable connection of metal profiles of up to 2 mm in thickness without pre-drilling.

fischer **Profile connection screw**
Ø = 4.2 mm
Blue zinc plated
Flat round head with PH drive





Gypsum plasterboard installations



With a fine thread for the fixing of gypsum plasterboards on metal profiles up to 0.7 mm in thickness without pre-drilling.

Also available as a taped version for the serial processing in a belt system for strip screws.

fischer **Drywall screw**

Ø = 3.5 / 3.9 mm

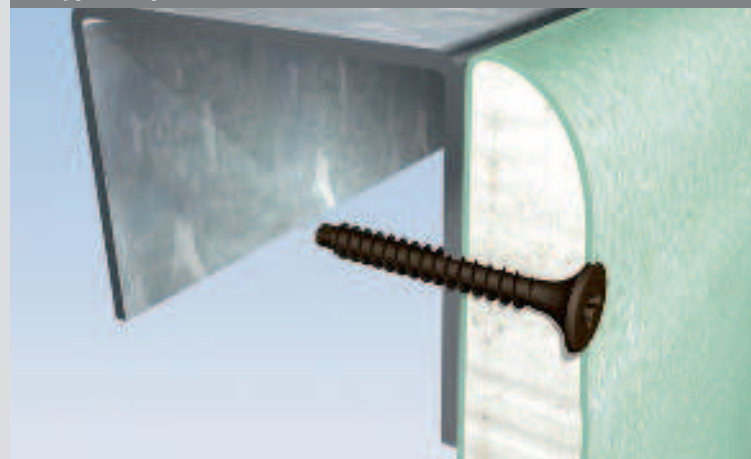
Phosphated

Blue zinc plated

Trumpet shape head with PH drive



Gypsum plasterboard installations



With a self-tapping drill bit tip and fine thread for the fixing of gypsum plasterboards on metal profiles up to 2 mm in thickness without pre-drilling. Also available as a taped version for the serial process in a belt system for strip screws.

fischer **Drywall screw**

Ø = 3.5 mm

Phosphated

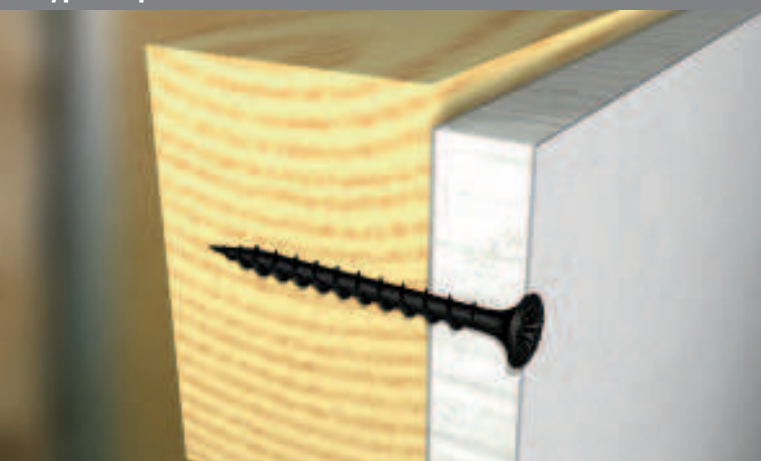
Blue zinc plated

Trumpet shape head with PH drive





Gypsum plasterboard installations



With large thread for the fixing of gypsum plasterboard on wood sub-structures. Also available as a taped version for the serial processing in a belt system for strip screws.

fischer **Drywall screw**
 $\varnothing = 3.5 / 3.9 \text{ mm}$
 Phosphated
 Blue zinc plated
 Trumpet shape head with PH drive





Gypsum fibreboard installations



Special HiLo thread and countersunk head for the ideal fixing of gypsum fibreboard (fermacell boards). Also available as a taped version for the serial processing in a belt system for strip screws.

fischer **Fermacell screw with HiLo thread**

Ø = 3.9 mm

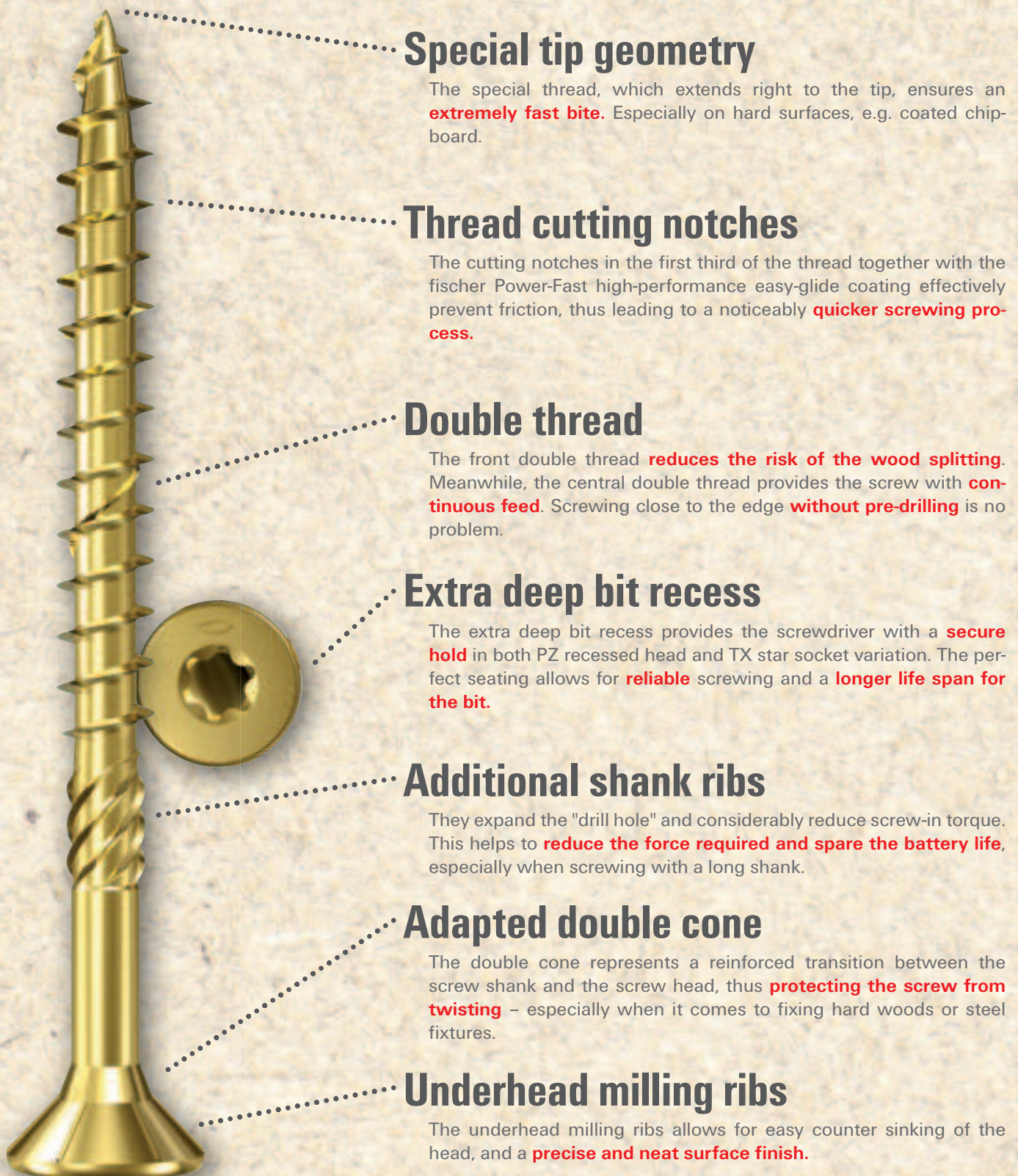
Phosphated

Blue zinc plated

Various head options with PH drive



fischer Power-Fast Chipboard screw



Special tip geometry

The special thread, which extends right to the tip, ensures an **extremely fast bite**. Especially on hard surfaces, e.g. coated chipboard.

Thread cutting notches

The cutting notches in the first third of the thread together with the fischer Power-Fast high-performance easy-glide coating effectively prevent friction, thus leading to a noticeably **quicker screwing process**.

Double thread

The front double thread **reduces the risk of the wood splitting**. Meanwhile, the central double thread provides the screw with **continuous feed**. Screwing close to the edge **without pre-drilling** is no problem.

Extra deep bit recess

The extra deep bit recess provides the screwdriver with a **secure hold** in both PZ recessed head and TX star socket variation. The perfect seating allows for **reliable** screwing and a **longer life span for the bit**.

Additional shank ribs

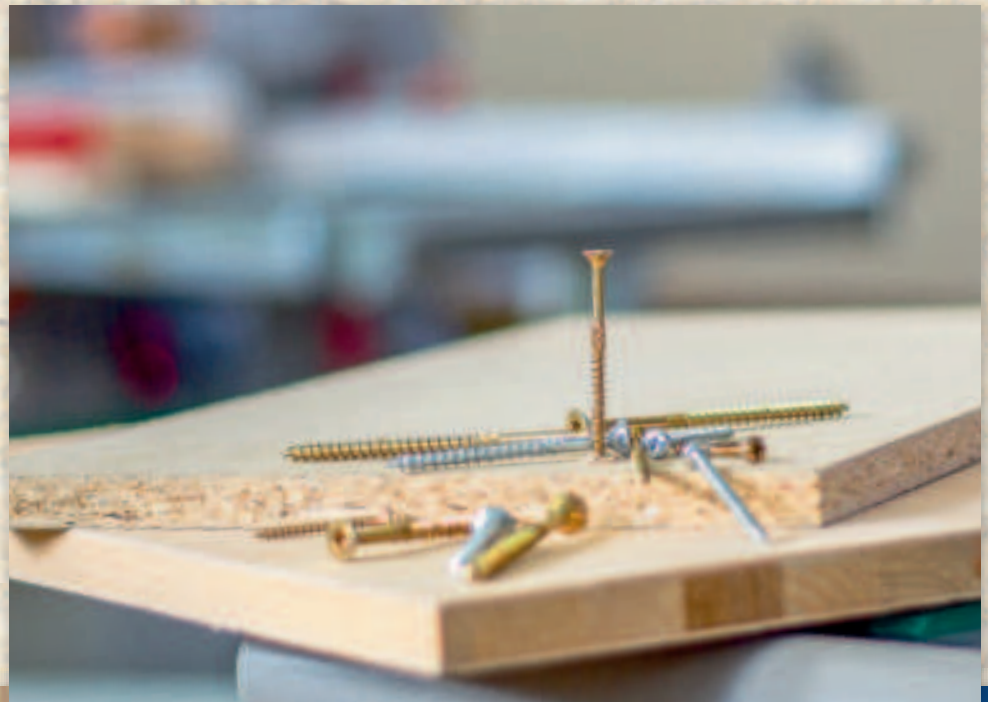
They expand the "drill hole" and considerably reduce screw-in torque. This helps to **reduce the force required and spare the battery life**, especially when screwing with a long shank.

Adapted double cone

The double cone represents a reinforced transition between the screw shank and the screw head, thus **protecting the screw from twisting** – especially when it comes to fixing hard woods or steel fixtures.

Underhead milling ribs

The underhead milling ribs allows for easy counter sinking of the head, and a **precise and neat surface finish**.



fischer Power-Fast Wood construction screw



Special tip geometry

The special thread up into the tip provides an **extremely fast bite**, thus preventing the screw from wobbling during initial positioning.

Thread cutting notches

The cutting notches in the first third of the thread together with the fischer Power-Fast high-performance easy-glide coating effectively prevent friction, thus leading to a noticeably **quicker screwing process**.

Double thread

The front double thread **reduces the risk of the wood splitting**. Meanwhile, the central double thread provides the screw with **continuous feed**. Screwing close to the edge **without pre-drilling** is no problem.

Thread geometry

The large thread lead makes it noticeably **quicker to insert or drive in the screw**.

Extra deep bit recess

The extra deep bit recess provides the screwdriver with a **secure hold** in the TX star socket variation. The perfect adjustment allows for **reliable** screwing and a **longer life span for the bit**. It also allows for the use of impact wrenches.

Additional shank ribs

They expand the "drill hole" and considerably reduce screw-in torque. This helps to **reduce the force required and spare the battery life**, especially when screwing with a long shank.

Flange head

The extra large flange head enables a **significantly higher load transfer**.



fischer Power-Full Full thread screw



Drill bit tip

The drill bit tip enables screw fitting **without pre-drilling** and offers guidance when screwing in. There is less risk of splitting and the drive-in resistance is noticeably reduced. **Low edge and axial spacings** are thus possible and approved. All in all, this leads to **savings in terms of time and materials**.

Special coating

The zinc lamella coating offers significantly **better corrosion protection** than galvanised zinc.

Thread geometry

The fischer Power-Full thread geometry, which spans through the entire screw length, offers an **optimum force transmission**, thus facilitating **maximum load-bearing capacity**. The large thread lead makes it noticeably **quicker to screw in the screw**.

Cylinder head

The cylinder head is hardly visible and massively reduces the expansion pressure in wood. The head can be easily sunk deep into the wood with the **minimum risk of splitting**.



fischer special screw Wood floor screw



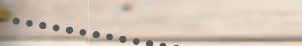
Cut notch in the thread tip

The thread, with a specially milled cut notch, ensures an **extremely fast bite**.



Thread cutting notches

The cutting notches in the first third of the thread together with the fischer Power-Fast high-performance easy-glide coating effectively prevent friction, thus leading to a noticeably **quicker screwing process**.



Double thread

The central double thread provides the screw with **continuous feed**. Screwing close to the edge **without pre-drilling** is no problem.



Extra deep bit recess

The extra deep bit recess provides the screwdriver with a **secure hold** in the TX star socket variation. The perfect adjustment allows for **reliable** screwing and a **longer life span for the bit**.



Small countersunk head

The adapted 60° countersunk head with underhead milling ribs makes it **easy to sink** the head and creates a **neat finish**. It is ideal for **out-of-sight screwing** in the tongues of floor boards.



fischer Terrace screw



Special tip geometry

The special thread up into the tip provides an **extremely fast bite** as well as precise setting, and thus **prevents the screw from wobbling** during initial positioning.

Adapted thread diameter

The thread diameter of 5.5 mm makes the screw **extremely stable** and **prevents the screw from twisting**.

Double thread

The dual double thread protects the drive, even in hard and tropical woods, and **minimises the risk of splitting**.



Extra deep bit recess

The extra deep bit recess provides the screwdriver with a **secure hold** in the TX star socket mode. The perfect adjustment allows for **reliable** screwing and a **longer life span for the bit**.

Locking thread

The additional underhead thread provides a **stable and lasting fixing** for the coating on the sub-structure. As such, it also prevents squeaking caused by the wood shrinking.

Flat countersunk head

A small countersunk head combined with the underhead milling pockets ensures a **clean, splinter-proof and easy insertion** of the screw.



fischer Wood facade screw



Cut notch in the thread tip

The thread, with a specially milled cut notch, ensures an **extremely fast bite**.

Thread cutting notches

The cutting notches in the first third of the thread together with the fischer Power-Fast high-performance easy-glide coating effectively prevent friction, thus leading to a noticeably **quicker screwing process**.

Double thread

The central double thread provides the screw with **continuous feed**. Screwing close to the edge **without pre-drilling** is no problem.

Extra deep bit recess

The extra deep bit recess provides the screwdriver with a **secure hold** in the TX star socket mode. The perfect adjustment allows for **reliable** screwing and a **longer life span for the bit**.

Additional shank ribs

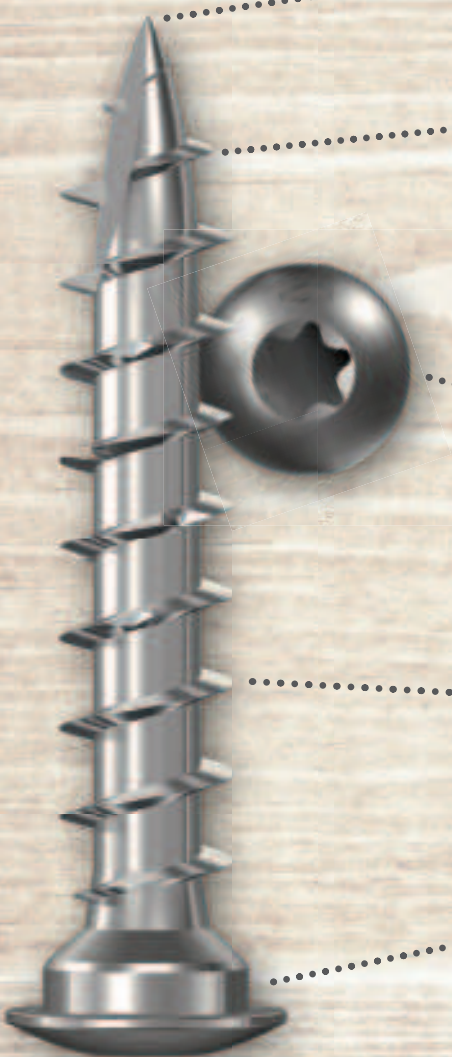
They expand the "drill hole" and considerably reduce screw-in torque. This helps to **reduce the force required and spare the battery life**, especially when screwing with a long shank.

Small countersunk head

The adapted 75° countersunk head with underhead milling ribs makes it **easy to sink** the head and creates a **neat finish**.



fischer Jamb screw



Cut notch in the thread tip

The special cut notch ensures an **extremely fast bite**.

Thread cutting notches

The cutting notches in the first third of the thread together with the fischer Power-Fast high-performance easy-glide coating effectively prevent friction, thus leading to a noticeably **quicker screwing process**.

Extra deep bit recess

The extra deep bit recess provides the screwdriver with a **secure hold** in the TX star socket variation. The perfect adjustment allows for **reliable** screwing and a **longer life span for the bit**.

Thread geometry

The thread, which spans through the entire screw length, offers an **optimum force transmission**, thus facilitating **maximum load-bearing capacity**.

Optimised head shape

The special round head with underhead centring (Ø 10 mm) ensures **optimum precision** when using steel components such as post anchors. Suitable for drill holes with Ø 10.5 mm.



fischer Drywall screw



Screw tip

The screw tip is **suitable for use in wood or metal sub-structures**.

Maximum load-bearing capacity

The integrated large thread guarantees **optimum force transmission**. This leads to a **fast screwing with tensile strength** in wood. Fine and HiLo thread options are also available for use with various panelling and sub-structures.

Extra deep bit recess

The extra deep bit recess provides the screwdriver with a **secure hold** in Philips drives. The perfect seating allows for **reliable** screwing and a **longer life span for the bit**.

Trumpet shape head

It prevents the destruction of the plaster layer on the gypsum plaster-board, thus ensuring a **secure hold** in the panel.

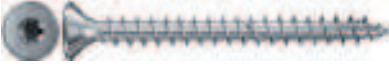
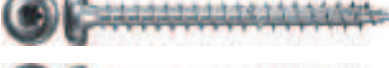
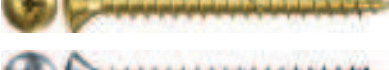
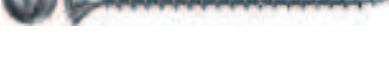
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Your benefits:

Chipboard screw Power-Fast

- Lasting safety with ETA conformity
- Specially suited to hardwood too
- Easy to screw in thanks to the innovative fischer Power-Fast thread shape
- Less force and battery power required
- Screw close to the edge without splitting and pre-drilling

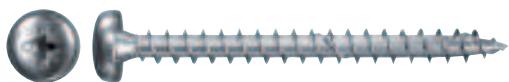


Countersunk head

- For surface-flush screwing
- Can be easily sunk to create a clean surface finish

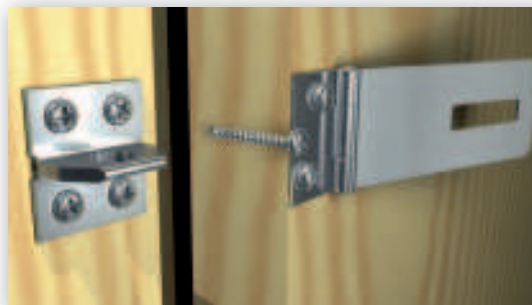
Countersunk head with head hole boring

- Central boring in the head for the fixing of cover caps



Pan head

- For metal and timber connections
- Full-surface layer for maximum clamping force
- Cannot be countersunk



Raised countersunk head

- Countersunk head with curve
- For applications where the screws are visible
- Easy to sink and clean surface finish



Full thread screws

- Typically used for steel-timber connections
- No contraction effect
- The chipboard screw with full thread offers a high pull-out resistance thanks to the longer thread
- No shank ribs

Partial thread screws

- Typically used for timber-timber connections
- The partial thread screws allow for a contraction effect
- With additional shank ribs from a screw length of 50 mm



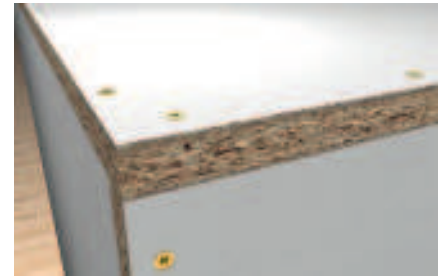
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FPF-ST YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.0	35	24	6.0	TX10	653423	200	4.800			40 4896 2035 520
	35	24	6.0	TX10	653424	500	9.000			40 4896 2035 537
	40	24	6.0	TX10	653427	200	4.800			40 4896 2035 568
	40	24	6.0	TX10	653428	500	3.000			40 4896 2035 575
	45	30	6.0	TX10	653431	200	4.800			40 4896 2035 605
	45	30	6.0	TX10	653432	500	4.000			40 4896 2035 612
3.5	25	18	7.0	TX10	653449	300	7.200			40 4896 2035 780
	25	18	7.0	TX10	653450	1.000	8.000			40 4896 2035 797
	30	18	7.0	TX10	653455	300	7.200			40 4896 2035 841
	35	24	7.0	TX10	653462	1.000	6.000			40 4896 2035 919
	35	24	7.0	TX10	653460	200	4.800			40 4896 2035 896
	40	24	7.0	TX10	653468	1.000	4.000			40 4896 2035 971
	40	24	7.0	TX10	653466	200	4.800			40 4896 2035 957
	45	30	7.0	TX10	653470	200	3.600			40 4896 2035 995
	45	30	7.0	TX10	653471	500	3.000			40 4896 2036 008
	50	30	7.0	TX10	653474	200	3.600			40 4896 2036 039
	50	30	7.0	TX10	653475	500	3.000			40 4896 2036 046
4.0	30	18	8.0	TX20	653493	200	4.800			40 4896 2036 220
	30	18	8.0	TX20	653494	500	4.000			40 4896 2036 237
	35	24	8.0	TX20	653503	1.000	6.000			40 4896 2036 329
	35	24	8.0	TX20	653501	200	4.800			40 4896 2036 305
	40	24	8.0	TX20	653507	1.000	4.000			40 4896 2036 367
	40	24	8.0	TX20	653505	200	3.600			40 4896 2036 343
	45	30	8.0	TX20	653509	200	3.600			40 4896 2036 381
	45	30	8.0	TX20	653510	500	3.000			40 4896 2036 398
	50	30	8.0	TX20	653512	200	1.600			40 4896 2036 411
	50	30	8.0	TX20	653513	500	2.000			40 4896 2036 428
	60	36	8.0	TX20	653515	200	1.600			40 4896 2036 442
	60	36	8.0	TX20	653516	500	2.000			40 4896 2036 459
	70	42	8.0	TX20	653518	200	1.600			40 4896 2036 473
	70	42	8.0	TX20	653519	500	2.000			40 4896 2036 480
4.5	35	24	9.0	TX20	653539	200	3.600			40 4896 2036 688
	35	24	9.0	TX20	653540	500	4.000			40 4896 2036 695

FPF-ST YZP

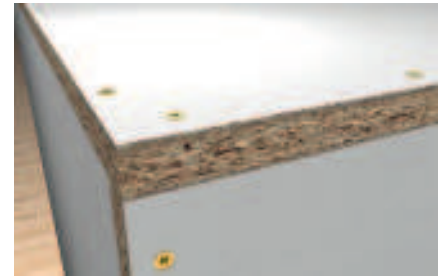
- Material: Steel
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Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
4.5	40	24	9.0	TX20	653542	200	3.600			40 4896 2036 718
	40	24	9.0	TX20	653543	500	3.000			40 4896 2036 725
	45	30	9.0	TX20	653545	200	3.600			40 4896 2036 749
	45	30	9.0	TX20	653546	500	3.000			40 4896 2036 756
	50	30	9.0	TX20	653548	200	1.600			40 4896 2036 770
	50	30	9.0	TX20	653549	500	2.000			40 4896 2036 787
	60	36	9.0	TX20	653551	100	1.800			40 4896 2036 800
	60	36	9.0	TX20	653552	500	2.000			40 4896 2036 817
	70	42	9.0	TX20	653554	100	1.800			40 4896 2036 831
	70	42	9.0	TX20	653555	500	2.000			40 4896 2036 848
	80	50	9.0	TX20	653557	100	800			40 4896 2036 862
	80	50	9.0	TX20	653558	500	2.000			40 4896 2036 879
5.0	40	24	10.0	TX20	653575	200	3.600			40 4896 2037 043
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	70	42	10.0	TX20	653588	200	1.200			40 4896 2037 173
	80	50	10.0	TX20	653590	100	800			40 4896 2037 197
	80	50	10.0	TX20	653591	200	800			40 4896 2037 203
	90	60	10.0	TX20	653593	100	800			40 4896 2037 227
	90	60	10.0	TX20	653594	200	800			40 4896 2037 234
	100	60	10.0	TX20	653596	100	800			40 4896 2037 258
	100	60	10.0	TX20	653597	200	1.200			40 4896 2037 265
	110	70	10.0	TX20	653599	100	800			40 4896 2037 289
	110	70	10.0	TX20	653600	200	1.200			40 4896 2037 296
	120	70	10.0	TX20	653603	100	800			40 4896 2037 326
6.0	40	24	12.0	TX30	653605	200	1.600			40 4896 2037 340
	40	24	12.0	TX30	653606	500	2.000			40 4896 2037 357

FPF-ST YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
6.0	45	30	12.0	TX30	653608	200	1.600			40 4896 2037 371
	50	30	12.0	TX30	653614	100	1.800			40 4896 2037 432
	50	30	12.0	TX30	653615	200	1.600			40 4896 2037 449
	60	36	12.0	TX30	653617	100	1.800			40 4896 2037 463
	60	36	12.0	TX30	653618	200	1.200			40 4896 2037 470
	70	42	12.0	TX30	653620	100	800			40 4896 2037 494
	70	42	12.0	TX30	653621	200	1.200			40 4896 2037 500
	80	50	12.0	TX30	653623	100	800			40 4896 2037 524
	80	50	12.0	TX30	653624	200	800			40 4896 2037 531
	90	60	12.0	TX30	653626	100	800			40 4896 2037 555
	100	60	12.0	TX30	653630	100	600			40 4896 2037 593
	110	70	12.0	TX30	653633	100	600			40 4896 2037 623
	120	70	12.0	TX30	653636	100	600			40 4896 2037 654
	130	70	12.0	TX30	653639	100	600			40 4896 2037 685
	140	70	12.0	TX30	653642	100	600			40 4896 2037 715
	160	70	12.0	TX30	653648	100	600			40 4896 2037 777
	180	70	12.0	TX30	653651	100	400			40 4896 2037 807
	200	70	12.0	TX30	653654	100	400			40 4896 2037 838
	220	70	12.0	TX30	653655	25	200			40 4896 2037 845
	240	70	12.0	TX30	653657	25	200			40 4896 2037 869
	260	70	12.0	TX30	653659	25	200			40 4896 2037 883
	280	70	12.0	TX30	653661	25	200			40 4896 2037 906
	300	70	12.0	TX30	653663	25	200			40 4896 2037 920

FPF-ST YZF

- Material: Steel
- Coating: yellow zinc plated
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton	Art. No.	GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]		
[mm]	[mm]	[mm]	[mm]						
3.0	10	6	6.0	TX10	653393	200	12.000		40 4896 2035 223
	10	6	6.0	TX10	653394	500	30.000		40 4896 2035 230
	12	8	6.0	TX10	653396	200	12.000		40 4896 2035 254
	12	8	6.0	TX10	653398	1.000	24.000		40 4896 2035 278
	13	9	6.0	TX10	653399	500	30.000		40 4896 2035 285
	15	11	6.0	TX10	653400	500	12.000		40 4896 2035 292
	16	12	6.0	TX10	653402	200	12.000		40 4896 2035 315
	16	12	6.0	TX10	653404	1.000	18.000		40 4896 2035 339
	20	16	6.0	TX10	653406	200	12.000		40 4896 2035 353
	20	16	6.0	TX10	653408	1.000	18.000		40 4896 2035 377
	25	21	6.0	TX10	653410	200	12.000		40 4896 2035 391
	25	21	6.0	TX10	653412	1.000	8.000		40 4896 2035 414
	30	26	6.0	TX10	653416	200	12.000		40 4896 2035 452
	30	26	6.0	TX10	653418	1.000	8.000		40 4896 2035 476
3.5	16	12	7.0	TX10	653438	200	12.000		40 4896 2035 674
	16	12	7.0	TX10	653440	1.000	18.000		40 4896 2035 698
	20	16	7.0	TX10	653442	200	12.000		40 4896 2035 711
	20	16	7.0	TX10	653444	1.000	8.000		40 4896 2035 735
	25	21	7.0	TX10	653446	200	4.800		40 4896 2035 759
	25	21	7.0	TX10	653448	1.000	8.000		40 4896 2035 773
	30	26	7.0	TX10	653452	200	4.800		40 4896 2035 810
	30	26	7.0	TX10	653453	500	9.000		40 4896 2035 827
	35	31	7.0	TX10	653457	300	7.200		40 4896 2035 865
	40	36	7.0	TX10	653463	300	5.400		40 4896 2035 926
4.0	16	11	8.0	TX20	653477	200	12.000		40 4896 2036 060
	16	11	8.0	TX20	653478	500	9.000		40 4896 2036 077
	20	15	8.0	TX20	653481	200	4.800		40 4896 2036 107
	20	15	8.0	TX20	653483	1.000	8.000		40 4896 2036 121
	25	20	8.0	TX20	653485	200	4.800		40 4896 2036 145
	25	20	8.0	TX20	653486	500	9.000		40 4896 2036 152
	30	25	8.0	TX20	653489	200	4.800		40 4896 2036 183
	30	25	8.0	TX20	653491	1.000	8.000		40 4896 2036 206
	35	30	8.0	TX20	653497	200	4.800		40 4896 2036 268

FPF-ST YZF

- Material: Steel
- Coating: yellow zinc plated
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton	Art. No.	GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]		
[mm]	[mm]	[mm]	[mm]						
4.0	35	30	8.0	TX20	653498	500	3.000		40 4896 2036 275
4.5	16	11	9.0	TX20	653521	200	4.800		40 4896 2036 503
	20	15	9.0	TX20	653524	200	4.800		40 4896 2036 534
	25	20	9.0	TX20	653528	200	4.800		40 4896 2036 572
	25	20	9.0	TX20	653529	500	4.000		40 4896 2036 589
	30	25	9.0	TX20	653532	200	4.800		40 4896 2036 619
	30	25	9.0	TX20	653533	500	4.000		40 4896 2036 626
	35	30	9.0	TX20	653536	200	3.600		40 4896 2036 657
	35	30	9.0	TX20	653537	500	4.000		40 4896 2036 664
5.0	20	14	10.0	TX20	653560	200	4.800		40 4896 2036 893
	25	19	10.0	TX20	653563	200	4.800		40 4896 2036 923
	30	24	10.0	TX20	653566	200	4.800		40 4896 2036 954
	35	29	10.0	TX20	653569	200	3.600		40 4896 2036 985
	40	34	10.0	TX20	653572	200	3.600		40 4896 2037 012
	40	34	10.0	TX20	653573	500	3.000		40 4896 2037 029
6.0	50	44	12.0	TX30	653611	100	1.800		40 4896 2037 401
	50	44	12.0	TX30	653612	200	1.600		40 4896 2037 418

FPF-ST ZPP

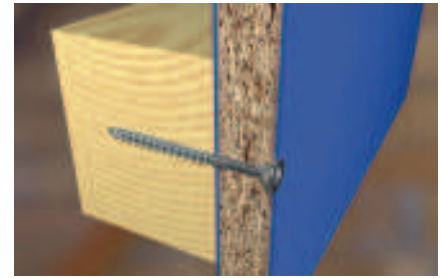
- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
3.0	35	24	6.0	TX10	652313	200	4.800			40 4896 2033 205
	40	24	6.0	TX10	652315	200	4.800			40 4896 2033 229
	40	24	6.0	TX10	652316	500	3.000			40 4896 2033 236
	45	30	6.0	TX10	652318	200	4.800			40 4896 2033 250
	45	30	6.0	TX10	652319	500	4.000			40 4896 2033 267
3.5	30	18	7.0	TX10	652333	200	4.800			40 4896 2033 403
	30	18	7.0	TX10	652334	500	9.000			40 4896 2033 410
	35	24	7.0	TX10	652339	200	4.800			40 4896 2033 465
	35	24	7.0	TX10	652340	500	4.000			40 4896 2033 472
	40	24	7.0	TX10	652345	200	4.800			40 4896 2033 526
	40	24	7.0	TX10	652347	1.000	4.000			40 4896 2033 540
	45	30	7.0	TX10	652351	200	3.600			40 4896 2033 588
	45	30	7.0	TX10	652352	500	3.000			40 4896 2033 595
	50	30	7.0	TX10	652355	500	3.000			40 4896 2033 625
4.0	35	24	8.0	TX20	652374	200	4.800			40 4896 2033 816
	35	24	8.0	TX20	652375	500	3.000			40 4896 2033 823
	40	24	8.0	TX20	652380	200	3.600			40 4896 2033 878
	40	24	8.0	TX20	652382	1.000	4.000			40 4896 2033 892
	45	30	8.0	TX20	652385	200	3.600			40 4896 2033 922
	45	30	8.0	TX20	652386	500	3.000			40 4896 2033 939
	50	30	8.0	TX20	652389	200	1.600			40 4896 2033 960
	50	30	8.0	TX20	652390	500	2.000			40 4896 2033 977
	60	36	8.0	TX20	652391	100	2.400			40 4896 2033 984
	60	36	8.0	TX20	652392	500	2.000			40 4896 2033 991
	70	42	8.0	TX20	652393	100	2.400			40 4896 2034 004
4.5	35	24	9.0	TX20	652405	200	3.600			40 4896 2034 127
	35	24	9.0	TX20	652406	500	4.000			40 4896 2034 134
	40	24	9.0	TX20	652409	200	3.600			40 4896 2034 165
	40	24	9.0	TX20	652410	500	3.000			40 4896 2034 172
	45	30	9.0	TX20	652413	200	3.600			40 4896 2034 202
	45	30	9.0	TX20	652414	500	3.000			40 4896 2034 219
	50	30	9.0	TX20	652417	200	1.600			40 4896 2034 240
	50	30	9.0	TX20	652418	500	2.000			40 4896 2034 257

FPF-ST ZPP

- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
4.5	60	36	9.0	TX20	652421	100	1.800			40 4896 2034 288
	60	36	9.0	TX20	652422	500	2.000			40 4896 2034 295
	70	42	9.0	TX20	652423	100	1.800			40 4896 2034 301
	70	42	9.0	TX20	652424	500	2.000			40 4896 2034 318
	80	50	9.0	TX20	652426	200	1.200			40 4896 2034 332
5.0	35	24	10.0	TX20	652433	200	3.600			40 4896 2034 400
	35	24	10.0	TX20	652434	500	3.000			40 4896 2034 417
	40	24	10.0	TX20	652437	200	3.600			40 4896 2034 448
	40	24	10.0	TX20	652438	500	3.000			40 4896 2034 455
	45	30	10.0	TX20	652441	200	1.600			40 4896 2034 486
	45	30	10.0	TX20	652442	500	3.000			40 4896 2034 493
	50	30	10.0	TX20	652445	200	1.600			40 4896 2034 523
	50	30	10.0	TX20	652446	500	2.000			40 4896 2034 530
	60	36	10.0	TX20	652449	100	2.400			40 4896 2034 561
	60	36	10.0	TX20	652450	500	2.000			40 4896 2034 578
	70	42	10.0	TX20	652453	100	800			40 4896 2034 608
	70	42	10.0	TX20	652454	200	1.200			40 4896 2034 615
	80	50	10.0	TX20	652455	100	800			40 4896 2034 622
	80	50	10.0	TX20	652456	200	800			40 4896 2034 639
	90	60	10.0	TX20	652457	100	800			40 4896 2034 646
	90	60	10.0	TX20	652458	200	800			40 4896 2034 653
	100	60	10.0	TX20	652459	100	800			40 4896 2034 660
	100	60	10.0	TX20	652460	200	1.200			40 4896 2034 677
	110	70	10.0	TX20	652461	100	800			40 4896 2034 684
	110	70	10.0	TX20	652462	200	1.200			40 4896 2034 691
	120	70	10.0	TX20	652464	200	1.200			40 4896 2034 714
6.0	40	24	12.0	TX30	652467	200	1.600			40 4896 2034 745
	40	24	12.0	TX30	652468	500	2.000			40 4896 2034 752
	45	30	12.0	TX30	652469	200	1.600			40 4896 2034 769
	50	30	12.0	TX30	652473	100	1.800			40 4896 2034 806
	50	30	12.0	TX30	652474	400	1.600			40 4896 2034 813
	60	36	12.0	TX30	652477	100	1.800			40 4896 2034 844
	60	36	12.0	TX30	652478	200	1.200			40 4896 2034 851

FPF-ST ZPP

- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
6.0	70	42	12.0	TX30	652481	100	800			40 4896 2034 882
	70	42	12.0	TX30	652482	200	1.200			40 4896 2034 899
	80	50	12.0	TX30	652483	100	800			40 4896 2034 905
	80	50	12.0	TX30	652484	200	800			40 4896 2034 912
	90	60	12.0	TX30	652485	100	800			40 4896 2034 929
	100	60	12.0	TX30	652488	100	600			40 4896 2034 950
	110	70	12.0	TX30	652490	100	600			40 4896 2034 974
	120	70	12.0	TX30	652492	100	600			40 4896 2034 998
	130	70	12.0	TX30	652494	100	600			40 4896 2035 018
	140	70	12.0	TX30	652496	100	600			40 4896 2035 032
	150	70	12.0	TX30	652498	100	600			40 4896 2035 056
	160	70	12.0	TX30	652500	100	600			40 4896 2035 070
	180	70	12.0	TX30	652502	100	400			40 4896 2035 094
	200	70	12.0	TX30	652504	100	400			40 4896 2035 117
	220	70	12.0	TX30	652506	50	400			40 4896 2035 131
	240	70	12.0	TX30	652508	50	400			40 4896 2035 155
	260	70	12.0	TX30	652510	50	400			40 4896 2035 179
	280	70	12.0	TX30	652512	50	400			40 4896 2035 193
	300	70	12.0	TX30	652514	50	400			40 4896 2035 216

FPF-ST ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
3.0	12	8	6.0	TX10	652294	200	12.000			40 4896 2033 014
	16	12	6.0	TX10	652296	200	12.000			40 4896 2033 038
	16	12	6.0	TX10	652297	500	12.000			40 4896 2033 045
	20	16	6.0	TX10	652299	200	12.000			40 4896 2033 069
	20	16	6.0	TX10	652300	500	12.000			40 4896 2033 076
	25	21	6.0	TX10	652302	200	12.000			40 4896 2033 090
	25	21	6.0	TX10	652303	500	12.000			40 4896 2033 106
	30	26	6.0	TX10	652305	200	12.000			40 4896 2033 120
	30	26	6.0	TX10	652306	500	9.000			40 4896 2033 137
	35	31	6.0	TX10	652311	200	4.800			40 4896 2033 182
	35	31	6.0	TX10	652312	1.000	8.000			40 4896 2033 199
3.5	16	12	7.0	TX10	652321	200	12.000			40 4896 2033 281
	16	12	7.0	TX10	652323	1.000	18.000			40 4896 2033 304
	20	16	7.0	TX10	652324	200	12.000			40 4896 2033 311
	20	16	7.0	TX10	652326	1.000	8.000			40 4896 2033 335
	25	21	7.0	TX10	652327	200	4.800			40 4896 2033 342
	25	21	7.0	TX10	652329	1.000	8.000			40 4896 2033 366
	30	26	7.0	TX10	652330	200	4.800			40 4896 2033 373
	30	26	7.0	TX10	652332	1.000	8.000			40 4896 2033 397
	35	31	7.0	TX10	652336	200	4.800			40 4896 2033 434
	35	31	7.0	TX10	652338	1.000	6.000			40 4896 2033 458
	40	36	7.0	TX10	652342	200	4.800			40 4896 2033 496
	40	36	7.0	TX10	652343	500	3.000			40 4896 2033 502
	45	41	7.0	TX10	652348	200	3.600			40 4896 2033 557
	45	41	7.0	TX10	652349	500	3.000			40 4896 2033 564
4.0	16	11	8.0	TX20	652356	200	12.000			40 4896 2033 632
	20	15	8.0	TX20	652359	200	4.800			40 4896 2033 663
	20	15	8.0	TX20	652360	500	9.000			40 4896 2033 670
	25	20	8.0	TX20	652362	200	4.800			40 4896 2033 694
	25	20	8.0	TX20	652363	500	9.000			40 4896 2033 700
	30	25	8.0	TX20	652365	200	4.800			40 4896 2033 724
	30	25	8.0	TX20	652367	1.000	8.000			40 4896 2033 748
	35	30	8.0	TX20	652371	200	4.800			40 4896 2033 786

FPF-ST ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
4.0	35	30	8.0	TX20	652372	500	3.000			40 4896 2033 793
	40	35	8.0	TX20	652377	200	3.600			40 4896 2033 847
	40	35	8.0	TX20	652379	1.000	4.000			40 4896 2033 861
	45	40	8.0	TX20	652383	200	3.600			40 4896 2033 908
	45	40	8.0	TX20	652384	500	3.000			40 4896 2033 915
	50	45	8.0	TX20	652387	200	1.600			40 4896 2033 946
	50	45	8.0	TX20	652388	500	2.000			40 4896 2033 953
4.5	30	25	9.0	TX20	652397	200	4.800			40 4896 2034 042
	30	25	9.0	TX20	652398	500	4.000			40 4896 2034 059
	35	30	9.0	TX20	652403	200	3.600			40 4896 2034 103
	35	30	9.0	TX20	652404	500	4.000			40 4896 2034 110
	40	35	9.0	TX20	652407	200	3.600			40 4896 2034 141
	40	35	9.0	TX20	652408	500	3.000			40 4896 2034 158
	45	40	9.0	TX20	652411	200	3.600			40 4896 2034 189
	45	40	9.0	TX20	652412	500	3.000			40 4896 2034 196
	50	45	9.0	TX20	652415	200	1.600			40 4896 2034 226
	50	45	9.0	TX20	652416	500	2.000			40 4896 2034 233
5.0	30	24	10.0	TX20	652427	200	4.800			40 4896 2034 349
	30	24	10.0	TX20	652428	500	4.000			40 4896 2034 356
	35	29	10.0	TX20	652431	200	3.600			40 4896 2034 387
	35	29	10.0	TX20	652432	500	3.000			40 4896 2034 394
	40	34	10.0	TX20	652435	200	3.600			40 4896 2034 424
	40	34	10.0	TX20	652436	500	3.000			40 4896 2034 431
	45	39	10.0	TX20	652439	200	1.600			40 4896 2034 462
	45	39	10.0	TX20	652440	500	3.000			40 4896 2034 479
	50	44	10.0	TX20	652443	200	1.600			40 4896 2034 509
	50	44	10.0	TX20	652444	500	2.000			40 4896 2034 516
	60	54	10.0	TX20	652447	100	2.400			40 4896 2034 547
	60	54	10.0	TX20	652448	500	2.000			40 4896 2034 554
	70	64	10.0	TX20	652451	100	800			40 4896 2034 585
	70	64	10.0	TX20	652452	200	1.200			40 4896 2034 592
6.0	40	34	12.0	TX30	652465	200	1.600			40 4896 2034 721
	40	34	12.0	TX30	652466	500	2.000			40 4896 2034 738

FPF-ST ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d [mm]	l [mm]	l _g [mm]	d _k [mm]			[pcs]	[pcs]			
6.0	50	44	12.0	TX30	652471	100	1.800			40 4896 2034 783
	50	44	12.0	TX30	652472	400	1.600			40 4896 2034 790
	60	54	12.0	TX30	652475	100	1.800			40 4896 2034 820
	60	54	12.0	TX30	652476	200	1.200			40 4896 2034 837

FPF-SZ YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.0	35	24	6.0	PZ1	653060	300	5.400			40 4896 2029 666
	35	24	6.0	PZ1	653061	1.000	8.000			40 4896 2029 673
	40	24	6.0	PZ1	653063	100	6.000			40 4896 2029 697
	40	24	6.0	PZ1	653064	300	5.400			40 4896 2029 703
	45	30	6.0	PZ1	653067	100	6.000			40 4896 2029 734
	45	30	6.0	PZ1	653068	300	2.400			40 4896 2029 741
3.5	35	24	7.0	PZ2	653100	300	7.200			40 4896 2030 068
	35	24	7.0	PZ2	653101	1.000	6.000			40 4896 2030 075
	40	24	7.0	PZ2	653107	300	5.400			40 4896 2030 136
	40	24	7.0	PZ2	653108	1.000	4.000			40 4896 2030 143
	45	30	7.0	PZ2	653113	100	2.400			40 4896 2030 198
	45	30	7.0	PZ2	653114	300	2.400			40 4896 2030 204
	50	30	7.0	PZ2	653117	100	2.400			40 4896 2030 235
	50	30	7.0	PZ2	653118	300	2.400			40 4896 2030 242
4.0	35	24	8.0	PZ2	653155	300	5.400			40 4896 2030 617
	35	24	8.0	PZ2	653156	1.000	6.000			40 4896 2030 624
	40	24	8.0	PZ2	653163	300	2.400			40 4896 2030 693
	40	24	8.0	PZ2	653164	1.000	4.000			40 4896 2030 709
	45	30	8.0	PZ2	653169	100	2.400			40 4896 2030 754
	45	30	8.0	PZ2	653170	300	2.400			40 4896 2030 761
	45	30	8.0	PZ2	653171	500	3.000			40 4896 2030 778
	50	30	8.0	PZ2	653176	200	1.600			40 4896 2030 822
	50	30	8.0	PZ2	653177	500	2.000			40 4896 2030 839
	55	36	8.0	PZ2	653179	200	1.600			40 4896 2030 853
	60	36	8.0	PZ2	653182	200	1.600			40 4896 2030 884
	70	42	8.0	PZ2	653186	200	1.600			40 4896 2030 921
4.5	35	24	9.0	PZ2	653211	100	2.400			40 4896 2031 171
	35	24	9.0	PZ2	653213	500	4.000			40 4896 2031 195
	40	24	9.0	PZ2	653218	200	3.600			40 4896 2031 249
	40	24	9.0	PZ2	653219	500	3.000			40 4896 2031 256
	45	30	9.0	PZ2	653224	200	3.600			40 4896 2031 300
	45	30	9.0	PZ2	653225	500	3.000			40 4896 2031 317
	50	30	9.0	PZ2	653230	200	1.600			40 4896 2031 362

FPF-SZ YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
4.5	50	30	9.0	PZ2	653231	500	2.000			40 4896 2031 379
	60	36	9.0	PZ2	653237	200	1.600			40 4896 2031 430
	70	42	9.0	PZ2	653241	200	1.600			40 4896 2031 478
	80	50	9.0	PZ2	653246	200	1.200			40 4896 2031 522
5.0	40	24	10.0	PZ2	653269	200	3.600			40 4896 2031 751
	40	24	10.0	PZ2	653270	500	3.000			40 4896 2031 768
	45	30	10.0	PZ2	653275	200	1.600			40 4896 2031 812
	45	30	10.0	PZ2	653276	500	3.000			40 4896 2031 829
	50	30	10.0	PZ2	653281	200	1.600			40 4896 2031 874
	50	30	10.0	PZ2	653282	500	2.000			40 4896 2031 881
	60	36	10.0	PZ2	653290	200	1.600			40 4896 2031 966
	60	36	10.0	PZ2	653291	500	2.000			40 4896 2031 973
	70	42	10.0	PZ2	653294	100	800			40 4896 2032 000
	70	42	10.0	PZ2	653295	200	1.200			40 4896 2032 017
	80	50	10.0	PZ2	653298	100	800			40 4896 2032 048
	80	50	10.0	PZ2	653299	200	800			40 4896 2032 055
	90	60	10.0	PZ2	653301	100	800			40 4896 2032 079
	90	60	10.0	PZ2	653302	200	800			40 4896 2032 086
	100	60	10.0	PZ2	653305	100	800			40 4896 2032 116
	100	60	10.0	PZ2	653306	200	1.200			40 4896 2032 123
	110	70	10.0	PZ2	653308	100	800			40 4896 2032 147
	120	70	10.0	PZ2	653312	100	800			40 4896 2032 185
6.0	40	24	12.0	PZ3	653326	200	1.600			40 4896 2032 321
	40	24	12.0	PZ3	653327	500	2.000			40 4896 2032 338
	45	30	12.0	PZ3	653331	200	1.600			40 4896 2032 376
	50	30	12.0	PZ3	653337	100	1.800			40 4896 2032 437
	50	30	12.0	PZ3	653338	200	1.600			40 4896 2032 444
	60	36	12.0	PZ3	653344	100	1.800			40 4896 2032 505
	60	36	12.0	PZ3	653345	200	1.200			40 4896 2032 512
	70	42	12.0	PZ3	653348	100	800			40 4896 2032 543
	70	42	12.0	PZ3	653349	200	1.200			40 4896 2032 550
	80	50	12.0	PZ3	653352	100	800			40 4896 2032 581
	80	50	12.0	PZ3	653353	200	800			40 4896 2032 598

FPF-SZ YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
6.0	100	60	12.0	PZ3	653360	100	600			40 4896 2032 666
	120	70	12.0	PZ3	653367	100	600			40 4896 2032 734
	140	70	12.0	PZ3	653374	100	600			40 4896 2032 802
	160	70	12.0	PZ3	653380	100	600			40 4896 2032 864
	180	70	12.0	PZ3	653384	100	400			40 4896 2032 901
	200	70	12.0	PZ3	653388	100	400			40 4896 2032 949

FPF-SZ YZF

- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
2.0	12	9	4.0	PZ1	653003	200	12.000			40 4896 2029 093
	16	13	4.0	PZ1	653005	200	12.000			40 4896 2029 116
2.5	12	9	5.0	PZ1	653012	200	12.000			40 4896 2029 185
	16	13	5.0	PZ1	653016	300	18.000			40 4896 2029 222
	20	17	5.0	PZ1	653020	300	18.000			40 4896 2029 260
	25	22	5.0	PZ1	653023	300	7.200			40 4896 2029 291
3.0	12	8	6.0	PZ1	653030	300	18.000			40 4896 2029 369
	12	8	6.0	PZ1	653031	1.000	24.000			40 4896 2029 376
	16	12	6.0	PZ1	653035	300	18.000			40 4896 2029 413
	16	12	6.0	PZ1	653036	1.000	18.000			40 4896 2029 420
	20	16	6.0	PZ1	653042	300	18.000			40 4896 2029 482
	20	16	6.0	PZ1	653043	1.000	18.000			40 4896 2029 499
	25	21	6.0	PZ1	653046	300	7.200			40 4896 2029 529
	25	21	6.0	PZ1	653047	1.000	8.000			40 4896 2029 536
	30	26	6.0	PZ1	653050	300	7.200			40 4896 2029 567
	30	26	6.0	PZ1	653051	1.000	8.000			40 4896 2029 574
	35	31	6.0	PZ1	653056	300	5.400			40 4896 2029 628
	35	31	6.0	PZ1	653057	1.000	8.000			40 4896 2029 635
3.5	16	12	7.0	PZ2	653077	300	18.000			40 4896 2029 833
	16	12	7.0	PZ2	653078	1.000	18.000			40 4896 2029 840
	20	16	7.0	PZ2	653082	300	7.200			40 4896 2029 888
	20	16	7.0	PZ2	653083	1.000	8.000			40 4896 2029 895
	25	21	7.0	PZ2	653086	300	7.200			40 4896 2029 925
	25	21	7.0	PZ2	653087	1.000	8.000			40 4896 2029 932
	30	26	7.0	PZ2	653090	300	7.200			40 4896 2029 963
	30	26	7.0	PZ2	653091	1.000	8.000			40 4896 2029 970
	35	31	7.0	PZ2	653096	300	7.200			40 4896 2030 020
	35	31	7.0	PZ2	653097	1.000	6.000			40 4896 2030 037
4.0	12	7	8.0	PZ2	653121	300	18.000			40 4896 2030 273
	16	11	8.0	PZ2	653128	300	18.000			40 4896 2030 341
	20	15	8.0	PZ2	653135	300	7.200			40 4896 2030 419
	20	15	8.0	PZ2	653136	1.000	8.000			40 4896 2030 426
	25	20	8.0	PZ2	653139	300	7.200			40 4896 2030 457

FPF-SZ YZF

- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Full thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]		GTIN (EAN Code)
4.0	25	20	8.0	PZ2	653140	1.000	8.000		40 4896 2030 464
	30	25	8.0	PZ2	653142	100	6.000		40 4896 2030 488
	30	25	8.0	PZ2	653143	300	7.200		40 4896 2030 495
	35	30	8.0	PZ2	653151	300	5.400		40 4896 2030 570
	35	30	8.0	PZ2	653152	1.000	6.000		40 4896 2030 587
	40	35	8.0	PZ2	653159	300	2.400		40 4896 2030 655
	40	35	8.0	PZ2	653160	1.000	4.000		40 4896 2030 662
	50	45	8.0	PZ2	653172	200	1.600		40 4896 2030 785
	50	45	8.0	PZ2	653173	500	2.000		40 4896 2030 792
4.5	16	11	9.0	PZ2	653189	100	6.000		40 4896 2030 952
	16	11	9.0	PZ2	653190	300	7.200		40 4896 2030 969
	20	15	9.0	PZ2	653193	100	6.000		40 4896 2030 990
	20	15	9.0	PZ2	653194	300	7.200		40 4896 2031 003
	25	20	9.0	PZ2	653197	100	6.000		40 4896 2031 034
	25	20	9.0	PZ2	653198	300	7.200		40 4896 2031 041
	30	25	9.0	PZ2	653201	100	2.400		40 4896 2031 072
	30	25	9.0	PZ2	653202	300	5.400		40 4896 2031 089
	35	30	9.0	PZ2	653207	100	2.400		40 4896 2031 133
	35	30	9.0	PZ2	653209	500	4.000		40 4896 2031 157
	40	35	9.0	PZ2	653214	200	3.600		40 4896 2031 201
	40	35	9.0	PZ2	653215	500	3.000		40 4896 2031 218
	45	40	9.0	PZ2	653220	200	3.600		40 4896 2031 263
	45	40	9.0	PZ2	653221	500	3.000		40 4896 2031 270
	50	45	9.0	PZ2	653226	200	1.600		40 4896 2031 324
	50	45	9.0	PZ2	653227	500	2.000		40 4896 2031 331
5.0	20	14	10.0	PZ2	653250	200	4.800		40 4896 2031 560
	25	19	10.0	PZ2	653254	200	4.800		40 4896 2031 607
	30	24	10.0	PZ2	653258	200	4.800		40 4896 2031 645
	30	24	10.0	PZ2	653259	500	4.000		40 4896 2031 652
	35	29	10.0	PZ2	653261	200	3.600		40 4896 2031 676
	40	34	10.0	PZ2	653265	200	3.600		40 4896 2031 713
	40	34	10.0	PZ2	653266	500	3.000		40 4896 2031 720
	45	39	10.0	PZ2	653271	200	1.600		40 4896 2031 775

FPF-SZ YZF

- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
5.0	45	39	10.0	PZ2	653272	500	3.000			40 4896 2031 782
	50	44	10.0	PZ2	653277	200	1.600			40 4896 2031 836
	60	54	10.0	PZ2	653286	200	1.600			40 4896 2031 928
6.0	30	24	12.0	PZ3	653315	200	1.600			40 4896 2032 215
	30	24	12.0	PZ3	653316	500	3.000			40 4896 2032 222
	35	29	12.0	PZ3	653318	200	1.600			40 4896 2032 246
	35	29	12.0	PZ3	653319	500	3.000			40 4896 2032 253
	40	34	12.0	PZ3	653322	200	1.600			40 4896 2032 284
	40	34	12.0	PZ3	653323	500	2.000			40 4896 2032 291
	60	54	12.0	PZ3	653340	100	1.800			40 4896 2032 468
	60	54	12.0	PZ3	653341	200	1.200			40 4896 2032 475

FPF-SZ ZPP

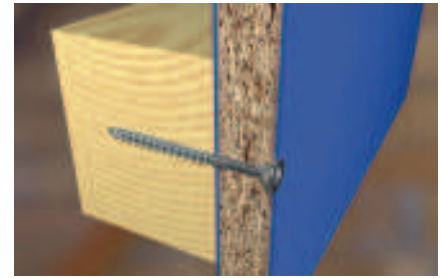
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.0	35	24	6.0	PZ1	652042	200	4.800			40 4896 2026 573
	35	24	6.0	PZ1	652043	1.000	8.000			40 4896 2026 580
	40	24	6.0	PZ1	652046	200	4.800			40 4896 2026 610
	40	24	6.0	PZ1	652047	1.000	6.000			40 4896 2026 627
	45	30	6.0	PZ1	652050	200	4.800			40 4896 2026 658
	45	30	6.0	PZ1	652051	1.000	4.000			40 4896 2026 665
3.5	35	24	7.0	PZ2	652075	200	4.800			40 4896 2026 900
	35	24	7.0	PZ2	652076	1.000	6.000			40 4896 2026 917
	40	24	7.0	PZ2	652080	200	4.800			40 4896 2026 955
	40	24	7.0	PZ2	652081	1.000	4.000			40 4896 2026 962
	45	30	7.0	PZ2	652084	200	3.600			40 4896 2026 993
	45	30	7.0	PZ2	652085	500	3.000			40 4896 2027 006
	50	30	7.0	PZ2	652087	200	3.600			40 4896 2027 020
4.0	30	18	8.0	PZ2	652110	1.000	8.000			40 4896 2027 259
	30	18	8.0	PZ2	652109	200	4.800			40 4896 2027 242
	35	24	8.0	PZ2	652114	200	4.800			40 4896 2027 297
	35	24	8.0	PZ2	652115	1.000	6.000			40 4896 2027 303
	40	24	8.0	PZ2	652119	200	3.600			40 4896 2027 341
	40	24	8.0	PZ2	652120	1.000	4.000			40 4896 2027 358
	45	30	8.0	PZ2	652124	200	3.600			40 4896 2027 396
	45	30	8.0	PZ2	652125	500	3.000			40 4896 2027 402
	50	30	8.0	PZ2	652129	200	1.600			40 4896 2027 440
	50	30	8.0	PZ2	652130	500	2.000			40 4896 2027 457
	55	36	8.0	PZ2	652132	200	1.600			40 4896 2027 471
	55	36	8.0	PZ2	652133	500	2.000			40 4896 2027 488
	60	36	8.0	PZ2	652135	200	1.600			40 4896 2027 501
	60	36	8.0	PZ2	652136	500	2.000			40 4896 2027 518
	70	42	8.0	PZ2	652137	100	2.400			40 4896 2027 525
	70	42	8.0	PZ2	652138	500	2.000			40 4896 2027 532
4.5	35	24	9.0	PZ2	652157	200	3.600			40 4896 2027 723
	35	24	9.0	PZ2	652158	500	4.000			40 4896 2027 730
	40	24	9.0	PZ2	652162	200	3.600			40 4896 2027 778
	40	24	9.0	PZ2	652163	500	3.000			40 4896 2027 785

FPF-SZ ZPP

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
4.5	45	30	9.0	PZ2	652167	200	3.600			40 4896 2027 822
	45	30	9.0	PZ2	652168	500	3.000			40 4896 2027 839
	50	30	9.0	PZ2	652172	200	1.600			40 4896 2027 877
	60	36	9.0	PZ2	652177	100	1.800			40 4896 2027 921
	60	36	9.0	PZ2	652178	500	2.000			40 4896 2027 938
	70	42	9.0	PZ2	652180	100	1.800			40 4896 2027 952
	80	50	9.0	PZ2	652183	200	1.200			40 4896 2027 983
5.0	40	24	10.0	PZ2	652203	200	3.600			40 4896 2028 188
	45	30	10.0	PZ2	652208	200	1.600			40 4896 2028 232
	50	30	10.0	PZ2	652213	200	1.600			40 4896 2028 287
	55	36	10.0	PZ2	652215	100	2.400			40 4896 2028 300
	60	36	10.0	PZ2	652220	100	2.400			40 4896 2028 355
	60	36	10.0	PZ2	652221	500	2.000			40 4896 2028 362
	70	42	10.0	PZ2	652223	100	800			40 4896 2028 386
	70	42	10.0	PZ2	652224	200	1.200			40 4896 2028 393
	80	50	10.0	PZ2	652226	100	800			40 4896 2028 416
	80	50	10.0	PZ2	652227	200	800			40 4896 2028 423
	90	60	10.0	PZ2	652228	100	800			40 4896 2028 430
	100	60	10.0	PZ2	652231	100	800			40 4896 2028 461
	100	60	10.0	PZ2	652232	200	1.200			40 4896 2028 478
	110	70	10.0	PZ2	652233	100	800			40 4896 2028 485
	110	70	10.0	PZ2	652234	200	1.200			40 4896 2028 492
	120	70	10.0	PZ2	652237	200	1.200			40 4896 2028 522
6.0	40	24	12.0	PZ3	652242	200	1.600			40 4896 2028 577
	50	30	12.0	PZ3	652249	100	1.800			40 4896 2028 645
	60	36	12.0	PZ3	652255	200	1.200			40 4896 2028 706
	70	42	12.0	PZ3	652257	100	800			40 4896 2028 720
	70	42	12.0	PZ3	652258	200	1.200			40 4896 2028 737
	80	50	12.0	PZ3	652260	100	800			40 4896 2028 751
	80	50	12.0	PZ3	652261	200	800			40 4896 2028 768
	90	60	12.0	PZ3	652262	100	800			40 4896 2028 775
	90	60	12.0	PZ3	652263	200	800			40 4896 2028 782
	100	60	12.0	PZ3	652266	100	600			40 4896 2028 812

FPF-SZ ZPP

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
6.0	110	70	12.0	PZ3	652267	50	800			40 4896 2028 829
	120	70	12.0	PZ3	652271	100	600			40 4896 2028 867
	140	70	12.0	PZ3	652276	100	600			40 4896 2028 911
	160	70	12.0	PZ3	652281	100	600			40 4896 2028 966
	180	70	12.0	PZ3	652284	100	400			40 4896 2028 997
	200	70	12.0	PZ3	652287	100	400			40 4896 2029 024
	220	70	12.0	PZ3	652289	50	400			40 4896 2029 048
	240	70	12.0	PZ3	652291	50	400			40 4896 2029 062

FPF-SZ ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
2.5	12	9	5.0	PZ1	652005	200	12.000			40 4896 2026 207
	16	13	5.0	PZ1	652008	200	12.000			40 4896 2026 238
	20	17	5.0	PZ1	652011	200	12.000			40 4896 2026 269
3.0	12	8	6.0	PZ1	652020	200	12.000			40 4896 2026 351
	12	8	6.0	PZ1	652021	500	30.000			40 4896 2026 368
	16	12	6.0	PZ1	652026	1.000	18.000			40 4896 2026 412
	16	12	6.0	PZ1	652025	200	12.000			40 4896 2026 405
	20	16	6.0	PZ1	652032	1.000	18.000			40 4896 2026 474
	20	16	6.0	PZ1	652031	200	12.000			40 4896 2026 467
	25	21	6.0	PZ1	652035	1.000	8.000			40 4896 2026 504
	25	21	6.0	PZ1	652034	200	12.000			40 4896 2026 498
	30	26	6.0	PZ1	652038	1.000	8.000			40 4896 2026 535
	30	26	6.0	PZ1	652037	200	12.000			40 4896 2026 528
	35	31	6.0	PZ1	652040	200	4.800			40 4896 2026 559
3.5	12	8	7.0	PZ2	652054	1.000	18.000			40 4896 2026 696
	12	8	7.0	PZ2	652053	200	12.000			40 4896 2026 689
	16	12	7.0	PZ2	652059	1.000	18.000			40 4896 2026 740
	16	12	7.0	PZ2	652058	200	12.000			40 4896 2026 733
	20	16	7.0	PZ2	652063	1.000	8.000			40 4896 2026 788
	20	16	7.0	PZ2	652062	200	12.000			40 4896 2026 771
	25	21	7.0	PZ2	652066	1.000	8.000			40 4896 2026 818
	25	21	7.0	PZ2	652065	200	4.800			40 4896 2026 801
	30	26	7.0	PZ2	652069	1.000	8.000			40 4896 2026 849
	30	26	7.0	PZ2	652068	200	4.800			40 4896 2026 832
	35	31	7.0	PZ2	652074	1.000	6.000			40 4896 2026 894
	35	31	7.0	PZ2	652073	200	4.800			40 4896 2026 887
4.0	16	11	8.0	PZ2	652098	1.000	18.000			40 4896 2027 136
	16	11	8.0	PZ2	652097	200	12.000			40 4896 2027 129
	20	15	8.0	PZ2	652103	1.000	8.000			40 4896 2027 181
	20	15	8.0	PZ2	652102	200	4.800			40 4896 2027 174
	25	20	8.0	PZ2	652105	1.000	8.000			40 4896 2027 204
	25	20	8.0	PZ2	652104	200	4.800			40 4896 2027 198
	30	25	8.0	PZ2	652107	1.000	8.000			40 4896 2027 228

FPF-SZ ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
4.0	30	25	8.0	PZ2	652106	200	4.800			40 4896 2027 211
	35	30	8.0	PZ2	652112	1.000	6.000			40 4896 2027 273
	35	30	8.0	PZ2	652111	200	4.800			40 4896 2027 266
	40	35	8.0	PZ2	652117	1.000	4.000			40 4896 2027 327
	40	35	8.0	PZ2	652116	200	3.600			40 4896 2027 310
	45	40	8.0	PZ2	652121	200	3.600			40 4896 2027 365
	45	40	8.0	PZ2	652122	500	3.000			40 4896 2027 372
	50	45	8.0	PZ2	652126	200	1.600			40 4896 2027 419
	50	45	8.0	PZ2	652127	500	2.000			40 4896 2027 426
	60	55	8.0	PZ2	652840	200	1.600			40 4896 2126 648
4.5	16	11	9.0	PZ2	652140	200	4.800			40 4896 2027 556
	16	11	9.0	PZ2	652141	1.000	8.000			40 4896 2027 563
	20	15	9.0	PZ2	652144	1.000	8.000			40 4896 2027 594
	20	15	9.0	PZ2	652143	200	4.800			40 4896 2027 587
	25	20	9.0	PZ2	652147	1.000	8.000			40 4896 2027 624
	25	20	9.0	PZ2	652146	200	4.800			40 4896 2027 617
	30	25	9.0	PZ2	652150	1.000	6.000			40 4896 2027 655
	30	25	9.0	PZ2	652149	200	4.800			40 4896 2027 648
	35	30	9.0	PZ2	652154	200	3.600			40 4896 2027 693
	35	30	9.0	PZ2	652155	500	4.000			40 4896 2027 709
	40	35	9.0	PZ2	652159	200	3.600			40 4896 2027 747
	40	35	9.0	PZ2	652160	500	3.000			40 4896 2027 754
	45	40	9.0	PZ2	652164	200	3.600			40 4896 2027 792
	45	40	9.0	PZ2	652165	500	3.000			40 4896 2027 808
	50	45	9.0	PZ2	652169	200	1.600			40 4896 2027 846
	50	45	9.0	PZ2	652170	500	2.000			40 4896 2027 853
	60	55	9.0	PZ2	652841	200	1.600			40 4896 2126 655
5.0	20	14	10.0	PZ2	652188	200	4.800			40 4896 2028 034
	20	14	10.0	PZ2	652189	500	9.000			40 4896 2028 041
	25	19	10.0	PZ2	652191	200	4.800			40 4896 2028 065
	25	19	10.0	PZ2	652192	500	4.000			40 4896 2028 072
	30	24	10.0	PZ2	652194	200	4.800			40 4896 2028 096
	30	24	10.0	PZ2	652195	500	4.000			40 4896 2028 102

FPF-SZ ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
5.0	35	29	10.0	PZ2	652197	200	3.600			40 4896 2028 126
	35	29	10.0	PZ2	652198	500	3.000			40 4896 2028 133
	40	34	10.0	PZ2	652200	200	3.600			40 4896 2028 157
	40	34	10.0	PZ2	652201	500	3.000			40 4896 2028 164
	50	44	10.0	PZ2	652210	200	1.600			40 4896 2028 256
	60	54	10.0	PZ2	652217	100	2.400			40 4896 2028 324
	60	54	10.0	PZ2	652218	500	2.000			40 4896 2028 331
6.0	40	34	12.0	PZ3	652239	200	1.600			40 4896 2028 546
	50	44	12.0	PZ3	652246	100	1.800			40 4896 2028 614
	50	44	12.0	PZ3	652247	400	1.600			40 4896 2028 621
	60	54	12.0	PZ3	652251	100	1.800			40 4896 2028 669
	60	54	12.0	PZ3	652252	200	1.200			40 4896 2028 676

FPF-HH ZPP

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head with headhole 2,4 mm, for cover caps



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d [mm]	l [mm]	lg [mm]	dk [mm]			[pcs]	[pcs]			
4.5	25	14	9.0	PZ2	658018	500	4.000			40 4896 2043 631
	30	19	9.0	PZ2	658020	500	4.000			40 4896 2043 655
	35	24	9.0	PZ2	658021	300	2.400			40 4896 2043 662
	40	29	9.0	PZ2	658022	300	2.400			40 4896 2043 679
	45	34	9.0	PZ2	658023	300	2.400			40 4896 2043 686
	50	39	9.0	PZ2	658024	300	2.400			40 4896 2043 693
	55	44	9.0	PZ2	658025	300	2.400			40 4896 2043 709
	60	49	9.0	PZ2	658026	300	2.400			40 4896 2043 716

FPF-SZ BUP

- Material: Steel
- Coating: bronzed
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.5	30	18	7.0	PZ2	654160	500	9.000			40 4896 2121 964
	35	24	7.0	PZ2	654161	500	4.000			40 4896 2121 971
	40	24	7.0	PZ2	654162	500	3.000			40 4896 2121 988
	45	30	7.0	PZ2	654163	500	3.000			40 4896 2121 995
	50	30	7.0	PZ2	654164	500	3.000			40 4896 2122 008
4.0	30	18	8.0	PZ2	654167	500	4.000			40 4896 2122 039
	35	24	8.0	PZ2	654168	500	3.000			40 4896 2122 046
	40	24	8.0	PZ2	654169	500	3.000			40 4896 2122 053
	45	30	8.0	PZ2	654170	500	3.000			40 4896 2122 060
	50	30	8.0	PZ2	654171	500	2.000			40 4896 2122 077
	60	36	8.0	PZ2	654172	200	1.600			40 4896 2122 084
	70	42	8.0	PZ2	654173	200	1.600			40 4896 2122 091
	80	50	8.0	PZ2	654125	500	2.000			40 4896 2088 908
	90	60	8.0	PZ2	654126	500	2.000			40 4896 2088 915
4.5	35	24	9.0	PZ2	654174	500	4.000			40 4896 2122 107
	40	24	9.0	PZ2	654175	500	3.000			40 4896 2122 114
	45	30	9.0	PZ2	654176	500	3.000			40 4896 2122 121
	50	30	9.0	PZ2	654177	500	2.000			40 4896 2122 138
	60	36	9.0	PZ2	654178	200	1.600			40 4896 2122 145
	70	42	9.0	PZ2	654179	200	1.600			40 4896 2122 152
	80	50	9.0	PZ2	654134	500	2.000			40 4896 2088 991
	90	60	9.0	PZ2	654135	500	2.000			40 4896 2089 004
5.0	16	12	10.0	PZ2	654136	500	9.000			40 4896 2089 011
	40	24	10.0	PZ2	654180	500	3.000			40 4896 2122 169
	45	30	10.0	PZ2	654181	500	3.000			40 4896 2122 176
	50	30	10.0	PZ2	654182	500	2.000			40 4896 2122 183
	60	36	10.0	PZ2	654183	200	1.600			40 4896 2122 190
	70	42	10.0	PZ2	654184	200	1.200			40 4896 2122 206
	80	50	10.0	PZ2	654143	200	800			40 4896 2089 080
	90	60	10.0	PZ2	654144	200	800			40 4896 2089 097
	100	60	10.0	PZ2	654145	200	1.200			40 4896 2089 103
	110	70	10.0	PZ2	654146	200	1.200			40 4896 2089 110
	120	70	10.0	PZ2	654147	200	1.200			40 4896 2089 127

FPF-SZ BUP

- Material: Steel
- Coating: bronzed
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
6.0	50	30	12.0	PZ3	654185	200	1.600			40 4896 2122 213
	60	30	12.0	PZ3	654186	200	1.200			40 4896 2122 220
	70	30	12.0	PZ3	654187	200	1.200			40 4896 2122 237
	80	50	12.0	PZ3	654062	100	800			40 4896 2038 552
	90	50	12.0	PZ3	654151	100	800			40 4896 2089 165
	100	50	12.0	PZ3	654152	100	600			40 4896 2089 172
	110	50	12.0	PZ3	654153	100	600			40 4896 2089 189
	120	50	12.0	PZ3	654154	100	600			40 4896 2089 196
	130	70	12.0	PZ3	654155	100	600			40 4896 2089 202
	140	70	12.0	PZ3	654156	100	600			40 4896 2089 219
	160	70	12.0	PZ3	654157	100	600			40 4896 2089 226
	180	70	12.0	PZ3	654158	100	400			40 4896 2089 233
	200	70	12.0	PZ3	654159	100	400			40 4896 2089 240

FPF-SZ BUF

- Material: Steel
- Coating: bronzed
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Full thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
2.5	12	6	5.0	PZ1	654108	1.000	24.000			40 4896 2088 731
	16	12	5.0	PZ1	654002	1.000	24.000			40 4896 2037 951
	20	15	5.0	PZ1	654004	1.000	24.000			40 4896 2037 975
	25	20	5.0	PZ1	654006	1.000	18.000			40 4896 2037 999
	30	25	5.0	PZ1	654109	1.000	18.000			40 4896 2088 748
3.0	10	6	6.0	PZ1	654110	1.000	24.000			40 4896 2088 755
	12	6	6.0	PZ1	654008	1.000	24.000			40 4896 2038 019
	16	12	6.0	PZ1	654010	1.000	18.000			40 4896 2038 033
	18	14	6.0	PZ1	654111	1.000	18.000			40 4896 2088 762
	20	15	6.0	PZ1	654011	200	12.000			40 4896 2038 040
	20	15	6.0	PZ1	654012	1.000	18.000			40 4896 2038 057
	25	20	6.0	PZ1	654014	1.000	8.000			40 4896 2038 071
	30	25	6.0	PZ1	654016	1.000	8.000			40 4896 2038 095
	35	30	6.0	PZ1	654018	1.000	8.000			40 4896 2038 118
	40	35	6.0	PZ1	654112	1.000	6.000			40 4896 2088 779
	45	40	6.0	PZ1	654113	1.000	4.000			40 4896 2088 786
3.5	12	6	7.0	PZ2	654114	1.000	18.000			40 4896 2088 793
	16	12	7.0	PZ2	654019	200	12.000			40 4896 2038 125
	16	12	7.0	PZ2	654020	1.000	18.000			40 4896 2038 132
	18	14	7.0	PZ2	654115	1.000	8.000			40 4896 2088 809
	20	15	7.0	PZ2	654022	1.000	8.000			40 4896 2038 156
	25	20	7.0	PZ2	654024	1.000	8.000			40 4896 2038 170
	30	25	7.0	PZ2	654026	1.000	8.000			40 4896 2038 194
	35	30	7.0	PZ2	654028	1.000	6.000			40 4896 2038 217
	40	35	7.0	PZ2	654116	1.000	4.000			40 4896 2088 816
	45	40	7.0	PZ2	654117	1.000	4.000			40 4896 2088 823
	50	45	7.0	PZ2	654118	1.000	4.000			40 4896 2088 830
4.0	16	12	8.0	PZ2	654119	1.000	18.000			40 4896 2088 847
	18	14	8.0	PZ2	654120	1.000	8.000			40 4896 2088 854
	20	15	8.0	PZ2	654030	1.000	8.000			40 4896 2038 231
	25	20	8.0	PZ2	654032	1.000	8.000			40 4896 2038 255
	30	25	8.0	PZ2	654033	200	4.800			40 4896 2038 262
	30	25	8.0	PZ2	654034	1.000	8.000			40 4896 2038 279

FPF-SZ BUF

- Material: Steel
- Coating: bronzed
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _K			[pcs]	[pcs]			
4.0	35	30	8.0	PZ2	654121	500	3.000			40 4896 2088 861
	40	35	8.0	PZ2	654036	500	3.000			40 4896 2038 293
	45	40	8.0	PZ2	654122	500	3.000			40 4896 2088 878
	50	45	8.0	PZ2	654038	500	2.000			40 4896 2038 316
	60	55	8.0	PZ2	654123	500	2.000			40 4896 2088 885
	70	65	8.0	PZ2	654124	500	2.000			40 4896 2088 892
4.5	16	12	9.0	PZ2	654127	500	9.000			40 4896 2088 922
	20	15	9.0	PZ2	654128	500	4.000			40 4896 2088 939
	25	20	9.0	PZ2	654129	500	4.000			40 4896 2088 946
	30	25	9.0	PZ2	654040	500	4.000			40 4896 2038 330
	35	30	9.0	PZ2	654130	500	4.000			40 4896 2088 953
	40	35	9.0	PZ2	654042	500	3.000			40 4896 2038 354
	45	40	9.0	PZ2	654131	500	3.000			40 4896 2088 960
	50	45	9.0	PZ2	654044	500	2.000			40 4896 2038 378
	55	50	9.0	PZ2	654132	500	2.000			40 4896 2088 977
	60	55	9.0	PZ2	654046	500	2.000			40 4896 2038 392
	70	65	9.0	PZ2	654133	500	2.000			40 4896 2088 984
5.0	16	12	10.0	PZ2	654136	500	9.000			40 4896 2089 011
	20	15	10.0	PZ2	654137	500	9.000			40 4896 2089 028
	25	20	10.0	PZ2	654138	500	4.000			40 4896 2089 035
	30	25	10.0	PZ2	654048	500	4.000			40 4896 2038 415
	35	30	10.0	PZ2	654139	500	3.000			40 4896 2089 042
	40	35	10.0	PZ2	654049	100	2.400			40 4896 2038 422
	40	35	10.0	PZ2	654050	500	3.000			40 4896 2038 439
	45	40	10.0	PZ2	654140	200	1.600			40 4896 2089 059
	50	45	10.0	PZ2	654052	200	1.600			40 4896 2038 453
	55	50	10.0	PZ2	654141	200	1.600			40 4896 2089 066
	60	55	10.0	PZ2	654054	200	1.600			40 4896 2038 477
	70	65	10.0	PZ2	654142	200	1.200			40 4896 2089 073
6.0	30	25	12.0	PZ3	654148	100	2.400			40 4896 2089 134
	35	30	12.0	PZ3	654149	100	2.400			40 4896 2089 141
	40	35	12.0	PZ3	654150	100	2.400			40 4896 2089 158
	50	45	12.0	PZ3	654055	50	1.200			40 4896 2038 484

FPF-SZ BUF

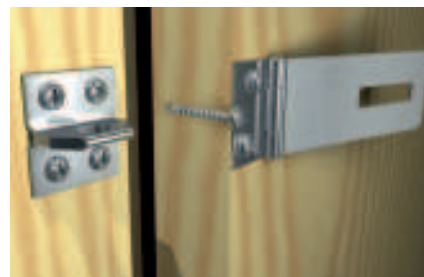
- **Material:** Steel
- **Coating:** bronzed
- **Drive:** Cross drive PZ
- **Thread:** Full thread
- **Screw head:** Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
6.0	50	45	12.0	PZ3	654056	100	1.800			40 4896 2038 491
	60	55	12.0	PZ3	654058	100	1.800			40 4896 2038 514
	70	65	12.0	PZ3	654060	100	800			40 4896 2038 538

FPF-PT ZPP

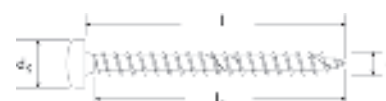
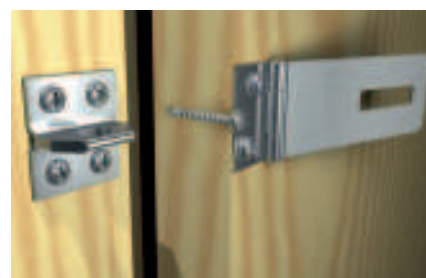
- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Pan Head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d [mm]	l [mm]	l _g [mm]	d _K [mm]			[pcs]	[pcs]			
6.0	80	50	12.0	TX30	652830	50	1.200			40 4896 2050 417
	100	60	12.0	TX30	652832	25	400			40 4896 2050 431

FPF-PT ZPF

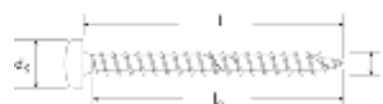
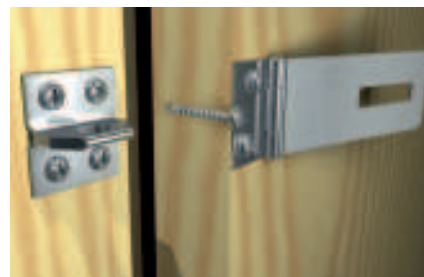
- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Pan Head



Diameter d [mm]	Length l [mm]	Full thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.0	12	10	6.0	TX10	652701	200	12.000			40 4896 2049 121
	16	14	6.0	TX10	652705	200	4.800			40 4896 2049 169
	20	18	6.0	TX10	652709	200	12.000			40 4896 2049 206
	25	23	6.0	TX10	652713	200	4.800			40 4896 2049 244
	30	28	6.0	TX10	652717	200	4.800			40 4896 2049 282
3.5	12	10	7.0	TX10	652721	200	12.000			40 4896 2049 329
	15	13	7.0	TX10	652725	200	4.800			40 4896 2049 367
	16	14	7.0	TX10	652729	200	4.800			40 4896 2049 404
	20	18	7.0	TX10	652733	200	4.800			40 4896 2049 442
	25	23	7.0	TX10	652737	200	4.800			40 4896 2049 480
	30	28	7.0	TX10	652741	200	4.800			40 4896 2049 527
	35	33	7.0	TX10	652745	200	4.800			40 4896 2049 565
4.0	15	12	8.0	TX20	652749	200	4.800			40 4896 2049 602
	16	13	8.0	TX20	652752	200	4.800			40 4896 2049 633
	20	17	8.0	TX20	652756	200	4.800			40 4896 2049 671
	25	22	8.0	TX20	652760	200	4.800			40 4896 2049 718
	30	27	8.0	TX20	652764	200	4.800			40 4896 2049 756
	35	32	8.0	TX20	652768	200	3.600			40 4896 2049 794
	40	37	8.0	TX20	652772	200	3.600			40 4896 2049 831
	50	47	8.0	TX20	652775	200	1.600			40 4896 2049 862
4.5	16	13	9.0	TX20	652778	200	4.800			40 4896 2049 893
	20	17	9.0	TX20	652781	200	4.800			40 4896 2049 923
	25	22	9.0	TX20	652784	200	4.800			40 4896 2049 954
	30	27	9.0	TX20	652787	200	4.800			40 4896 2049 985
	35	32	9.0	TX20	652790	200	3.600			40 4896 2050 011
	40	37	9.0	TX20	652793	200	3.600			40 4896 2050 042
	50	47	9.0	TX20	652797	300	2.400			40 4896 2050 080
5.0	16	12	10.0	TX20	652799	200	4.800			40 4896 2050 103
	20	16	10.0	TX20	652802	200	4.800			40 4896 2050 134
	25	21	10.0	TX20	652805	200	4.800			40 4896 2050 165
	30	26	10.0	TX20	652808	200	3.600			40 4896 2050 196
	40	36	10.0	TX20	652811	100	1.800			40 4896 2050 226
	50	46	10.0	TX20	652814	100	1.800			40 4896 2050 257

FPF-PT ZPF

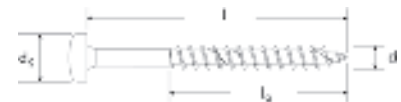
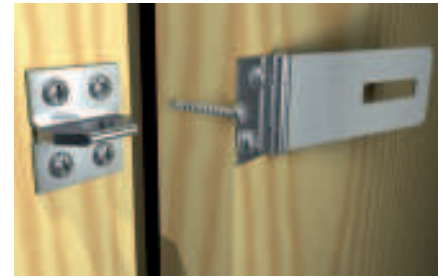
- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Pan Head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
5.0	60	56	10.0	TX20	652817	100	1.800			40 4896 2050 288
	70	66	10.0	TX20	652819	50	1.200			40 4896 2050 301
6.0	40	36	12.0	TX30	652824	100	1.800			40 4896 2050 356
	50	46	12.0	TX30	652826	50	1.200			40 4896 2050 370
	60	56	12.0	TX30	652828	50	1.200			40 4896 2050 394

FPF-PZ ZPP

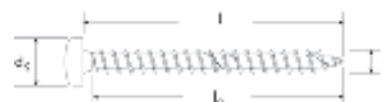
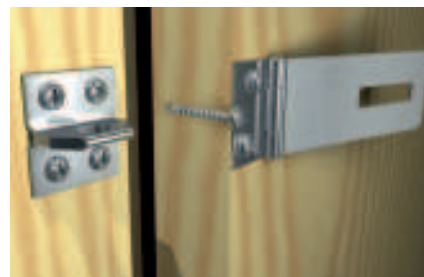
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Pan Head



Diameter d [mm]	Length l [mm]	Partial thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
5.0	80	50	10.0	PZ2	652678	100	800			40 4896 2048 896
6.0	100	60	12.0	PZ3	652698	50	800			40 4896 2049 091
	80	50	12.0	PZ3	652696	50	1.200			40 4896 2049 077

FPF-PZ ZPF

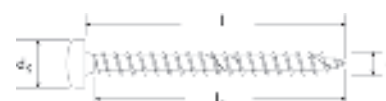
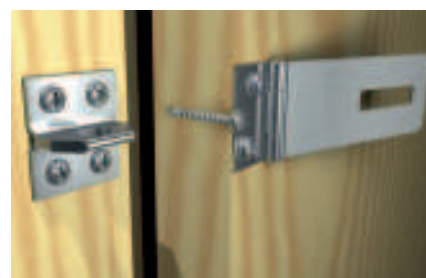
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Pan Head



Diameter d [mm]	Length l [mm]	Full thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.0	12	10	6.0	PZ1	652548	200	12.000			40 4896 2047 592
	16	14	6.0	PZ1	652552	200	4.800			40 4896 2047 639
	20	18	6.0	PZ1	652556	200	12.000			40 4896 2047 677
	25	23	6.0	PZ1	652560	200	4.800			40 4896 2047 714
	30	28	6.0	PZ1	652564	200	4.800			40 4896 2047 752
3.5	12	10	7.0	PZ2	652568	200	12.000			40 4896 2047 790
	16	14	7.0	PZ2	652572	200	4.800			40 4896 2047 837
	20	18	7.0	PZ2	652576	200	4.800			40 4896 2047 875
	25	23	7.0	PZ2	652580	200	4.800			40 4896 2047 912
	30	28	7.0	PZ2	652584	200	4.800			40 4896 2047 950
	35	33	7.0	PZ2	652588	200	4.800			40 4896 2047 998
4.0	16	13	8.0	PZ2	652592	200	4.800			40 4896 2048 032
	20	17	8.0	PZ2	652596	200	4.800			40 4896 2048 070
	25	22	8.0	PZ2	652600	200	4.800			40 4896 2048 117
	30	27	8.0	PZ2	652604	200	4.800			40 4896 2048 155
	35	32	8.0	PZ2	652608	200	3.600			40 4896 2048 193
	40	37	8.0	PZ2	652612	200	3.600			40 4896 2048 230
	45	40	8.0	PZ2	652842	200	3.600			40 4896 2126 662
	50	47	8.0	PZ2	652616	200	1.600			40 4896 2048 278
4.5	16	13	9.0	PZ2	652619	200	4.800			40 4896 2048 308
	20	17	9.0	PZ2	652623	200	4.800			40 4896 2048 346
	25	22	9.0	PZ2	652627	200	4.800			40 4896 2048 384
	30	27	9.0	PZ2	652631	200	4.800			40 4896 2048 421
	35	32	9.0	PZ2	652635	200	3.600			40 4896 2048 469
	40	37	9.0	PZ2	652639	200	3.600			40 4896 2048 506
	45	40	9.0	PZ2	652843	200	3.600			40 4896 2126 679
	50	47	9.0	PZ2	652643	200	1.600			40 4896 2048 544
5.0	16	12	10.0	PZ2	652647	200	4.800			40 4896 2048 582
	20	16	10.0	PZ2	652651	200	4.800			40 4896 2048 629
	25	21	10.0	PZ2	652655	200	4.800			40 4896 2048 667
	30	26	10.0	PZ2	652659	200	3.600			40 4896 2048 704
	35	30	10.0	PZ2	652844	200	3.600			40 4896 2126 686
	40	36	10.0	PZ2	652663	100	1.800			40 4896 2048 742

FPF-PZ ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Pan Head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
5.0	45	30	10.0	PZ2	652845	200	1.600			40 4896 2126 693
	50	46	10.0	PZ2	652667	100	1.800			40 4896 2048 780
	60	56	10.0	PZ2	652671	100	1.800			40 4896 2048 827
	70	66	10.0	PZ2	652675	100	1.800			40 4896 2048 865
6.0	30	25	12.0	PZ3	652846	200	1.600			40 4896 2126 709
	40	36	12.0	PZ3	652682	100	1.800			40 4896 2048 933
	50	46	12.0	PZ3	652686	100	800			40 4896 2048 971
	60	56	12.0	PZ3	652690	100	800			40 4896 2049 015
	70	66	12.0	PZ3	652693	50	1.200			40 4896 2049 046

FPF-LZ YZF

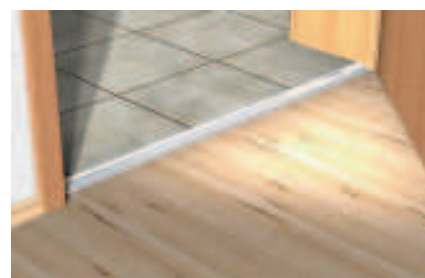
- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Raised countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
3.0	20	16	6.0	PZ1	653668	500	12.000			40 4896 2044 287
	25	21	6.0	PZ1	653670	500	12.000			40 4896 2044 300
	30	26	6.0	PZ1	653672	500	9.000			40 4896 2044 324
3.5	25	21	7.0	PZ2	653676	500	9.000			40 4896 2044 362
	30	26	7.0	PZ2	653678	500	4.000			40 4896 2044 386
	35	31	7.0	PZ2	653680	500	4.000			40 4896 2044 409
	40	36	7.0	PZ2	653682	500	3.000			40 4896 2044 423
4.0	30	25	8.0	PZ2	653686	500	4.000			40 4896 2044 461
	35	30	8.0	PZ2	653688	500	4.000			40 4896 2044 485
	40	35	8.0	PZ2	653690	500	4.000			40 4896 2044 508
4.5	50	45	9.0	PZ2	653692	200	1.600			40 4896 2044 522
	60	55	9.0	PZ2	653694	200	1.600			40 4896 2044 546

FPF-LZ ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Raised countersunk head



Diameter d [mm]	Length l [mm]	Full thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.0	16	12	6.0	PZ1	652515	500	12.000			40 4896 2043 945
	20	16	6.0	PZ1	652516	500	12.000			40 4896 2043 952
	25	21	6.0	PZ1	652517	500	12.000			40 4896 2043 969
	30	26	6.0	PZ1	652518	500	9.000			40 4896 2043 976
3.5	16	12	7.0	PZ2	652519	500	12.000			40 4896 2043 983
	20	16	7.0	PZ2	652520	500	12.000			40 4896 2043 990
	25	21	7.0	PZ2	652521	500	9.000			40 4896 2044 003
	30	26	7.0	PZ2	652522	500	4.000			40 4896 2044 010
	35	31	7.0	PZ2	652523	500	4.000			40 4896 2044 027
	40	36	7.0	PZ2	652524	500	3.000			40 4896 2044 034
4.0	20	15	8.0	PZ2	652525	500	9.000			40 4896 2044 041
	25	20	8.0	PZ2	652526	500	9.000			40 4896 2044 058
	30	25	8.0	PZ2	652527	500	4.000			40 4896 2044 065
	35	30	8.0	PZ2	652528	500	4.000			40 4896 2044 072
	40	35	8.0	PZ2	652529	500	4.000			40 4896 2044 089
	45	40	8.0	PZ2	652530	500	3.000			40 4896 2044 096
4.5	35	30	9.0	PZ2	652534	500	4.000			40 4896 2044 133
	40	35	9.0	PZ2	652535	500	3.000			40 4896 2044 140
	45	40	9.0	PZ2	652536	500	3.000			40 4896 2044 157
	60	55	9.0	PZ2	652537	200	1.600			40 4896 2044 164
5.0	40	34	10.0	PZ2	652540	500	3.000			40 4896 2044 195
	50	44	10.0	PZ2	652542	200	1.600			40 4896 2044 218
	60	54	10.0	PZ2	652543	200	1.600			40 4896 2044 225
6.0	60	54	12.0	PZ3	652545	200	1.200			40 4896 2044 249



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Your benefits:

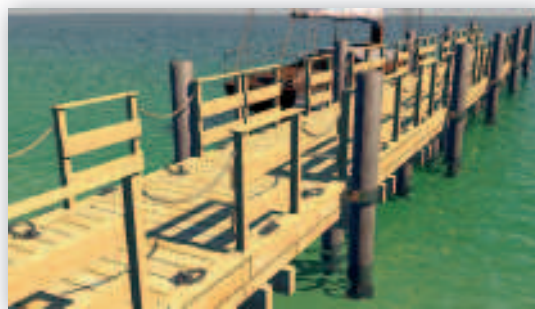
Chipboard screw Bonus-Zinc

- Significant higher corrosion resistance compared to conventional coating types
- For save outdoor installations
- Lasting safety with ETA conformity
- Easy to screw in thanks to the innovative fischer Power-Fast thread shape



Countersunk head

- For surface-flush screwing
- Can be easily sunk to create a clean surface finish



Bonus-Zinc surface refinement

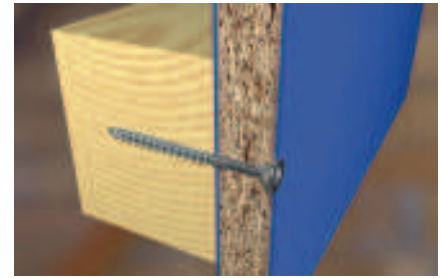
- Considerably higher corrosion resistance within the salt-spray-testing compared to conventional surface coatings (1500 hrs. acc. to DIN EN ISO 9227:2006)
- Provides clear advantages for timber constructions in protected outdoor areas e.g. winter garden, carports or balustrade



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FPF-ST BZP

- Material: Steel
- Coating: Bonus-Zinc
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.5	30	18	7.0	TX10	669002	200	4.800			40 4896 2201 307
	35	24	7.0	TX10	669003	200	4.800			40 4896 2201 314
	35	24	7.0	TX10	532810	500	4.000			40 4896 2219 128
	40	24	7.0	TX10	669004	200	4.800			40 4896 2201 321
	50	30	7.0	TX10	669005	200	3.600			40 4896 2201 338
4.0	30	18	8.0	TX20	669008	200	4.800			40 4896 2201 369
	35	24	8.0	TX20	669009	200	4.800			40 4896 2201 376
	40	24	8.0	TX20	669010	200	3.600			40 4896 2201 383
	40	24	8.0	TX20	669011	500	3.000			40 4896 2201 390
	45	30	8.0	TX20	669012	200	3.600			40 4896 2201 406
	50	30	8.0	TX20	669013	200	1.600			40 4896 2201 413
	60	36	8.0	TX20	669014	200	1.600			40 4896 2201 420
	70	42	8.0	TX20	669015	200	1.600			40 4896 2201 437
4.5	30	18	9.0	TX20	669018	200	4.800			40 4896 2201 468
	35	24	9.0	TX20	669019	200	3.600			40 4896 2201 475
	40	24	9.0	TX20	669020	200	3.600			40 4896 2201 482
	50	30	9.0	TX20	669021	200	1.600			40 4896 2201 499
	60	36	9.0	TX20	669022	200	1.600			40 4896 2201 505
	70	42	9.0	TX20	669023	200	1.600			40 4896 2201 512
	80	50	9.0	TX20	669024	200	1.200			40 4896 2201 529
5.0	30	18	10.0	TX20	669026	200	4.800			40 4896 2201 543
	40	24	10.0	TX20	669027	200	3.600			40 4896 2201 550
	45	30	10.0	TX20	669028	200	1.600			40 4896 2201 567
	50	30	10.0	TX20	669029	200	1.600			40 4896 2201 574
	50	30	10.0	TX25	669048	200	1.600			40 4896 2201 765
	60	36	10.0	TX20	669030	200	1.600			40 4896 2201 581
	60	36	10.0	TX25	669049	200	1.600			40 4896 2201 772
	70	42	10.0	TX20	669031	200	1.200			40 4896 2201 598
	70	42	10.0	TX25	669050	200	1.200			40 4896 2201 789
	80	50	10.0	TX20	669032	200	800			40 4896 2201 604
	80	50	10.0	TX25	669051	200	800			40 4896 2201 796
	90	60	10.0	TX20	669033	200	800			40 4896 2201 611
	90	60	10.0	TX25	669052	200	800			40 4896 2201 802

FPF-ST BZP

- Material: Steel
- Coating: Bonus-Zinc
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
5.0	100	60	10.0	TX20	669034	100	800			40 4896 2201 628
	100	60	10.0	TX25	669053	100	800			40 4896 2201 819
	120	70	10.0	TX20	669035	100	800			40 4896 2201 635
	120	70	10.0	TX25	669054	100	800			40 4896 2201 826
6.0	50	30	12.0	TX30	669036	200	1.600			40 4896 2201 642
	60	30	12.0	TX30	669037	200	1.200			40 4896 2201 659
	70	30	12.0	TX30	669038	200	1.200			40 4896 2201 666
	80	50	12.0	TX30	669039	200	800			40 4896 2201 673
	90	50	12.0	TX30	669040	200	800			40 4896 2201 680
	100	50	12.0	TX30	669041	100	600			40 4896 2201 697
	120	50	12.0	TX30	669042	100	600			40 4896 2201 703
	120	50	12.0	TX30	532811	25	400			40 4896 2219 135
	150	70	12.0	TX30	669043	100	600			40 4896 2201 710
	160	70	12.0	TX30	669044	50	600			40 4896 2201 727
	180	70	12.0	TX30	669045	50	400			40 4896 2201 734
	200	70	12.0	TX30	669046	50	400			40 4896 2201 741
	220	70	12.0	TX30	669047	50	400			40 4896 2201 758

FPF-ST BZF

- Material: Steel
- Coating: Bonus-Zinc
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _K			[pcs]	[pcs]			
3.5	15	10	7.0	TX10	532808	500	12.000			40 4896 2219 104
	25	20	7.0	TX10	669001	200	4.800			40 4896 2201 291
	25	20	7.0	TX10	532809	500	9.000			40 4896 2219 111
4.0	20	15	8.0	TX20	669006	200	4.800			40 4896 2201 345
	25	20	8.0	TX20	669007	200	4.800			40 4896 2201 352
4.5	20	15	9.0	TX20	669016	200	4.800			40 4896 2201 444
	25	20	9.0	TX20	669017	200	4.800			40 4896 2201 451
5.0	25	20	10.0	TX20	669025	200	4.800			40 4896 2201 536



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Your benefits:

Wood construction screw Power-Fast

- Easy to use thanks to the innovative Power-Fast thread geometry
- Smooth wooden surfaces thanks to the underhead milling ribs
- Pre-drilling not required
- With countersunk, flange and hexagonal head
- Safety with ETA conformity



Countersunk head

- With countersunk head for easy sinking
- Power-Fast thread with a perfect length for the best load transmission



Flange head

- With flange head for a larger contraction effect and a considerably higher head pull-through resistance
- For the fixing of metal components on wood



Hexagonal head

- Replaces the DIN 571 screw
- Pre-drilling not required
- Low axial and edge distances
- Higher pull-out resistance
- Inner torx for use with battery-operated screwdrivers
- Product with approval
- Special Bonus-Zinc coating
- Available in sizes Ø 8/10/12
- Pressed washer for use with a torque wrench.



The wood construction screws for professionals

- Wood construction screws are used for a force-fit connection between two or more components
- ETA-11/0027 conformity without pre-drilling. This saves an incredible amount of time.
- The unique fischer Power-Fast thread geometry allows for the shortest screw-in times, the lowest screw-in torque and a rapid bite
- The wood screws are available with countersunk, flange and hexagonal heads
- We recommend the use of a flange head screw for larger head pull-through resistances
- Flange-head and hexagonal screws are recommended for steel sheet-timber connections



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FPF-ST YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
8.0	80	50	14.7	TX40	659323	50	400			40 4896 2242 348
	100	50	14.7	TX40	659324	50	400			40 4896 2242 355
	120	75	14.7	TX40	659325	50	400			40 4896 2242 362
	140	75	14.7	TX40	659326	50	300			40 4896 2242 379
	160	75	14.7	TX40	659327	50	300			40 4896 2242 386
	180	75	14.7	TX40	659328	50	200			40 4896 2242 393
	200	100	14.7	TX40	659329	50	200			40 4896 2242 409
	220	100	14.7	TX40	659330	50	200			40 4896 2242 416
	240	100	14.7	TX40	659331	50	200			40 4896 2242 423
	260	100	14.7	TX40	659332	50	200			40 4896 2242 430
	280	100	14.7	TX40	659333	50	200			40 4896 2242 447
	300	100	14.7	TX40	659334	50	200			40 4896 2242 454
	320	100	14.7	TX40	659201	50	200			40 4896 2125 320
	340	100	14.7	TX40	659202	50	200			40 4896 2125 337
	360	100	14.7	TX40	659203	50	200			40 4896 2125 344
	380	100	14.7	TX40	659204	50	200			40 4896 2125 351
	400	100	14.7	TX40	659205	50	200			40 4896 2125 368
10.0	120	80	18.5	TX40	659210	50	400			40 4896 2125 412
	140	80	18.5	TX40	659211	50	300			40 4896 2125 429
	160	80	18.5	TX40	659212	50	300			40 4896 2125 436
	180	100	18.5	TX40	659213	50	200			40 4896 2125 443
	200	100	18.5	TX40	659214	50	200			40 4896 2125 450
	220	100	18.5	TX40	659215	50	200			40 4896 2125 467
	240	100	18.5	TX40	659216	50	200			40 4896 2125 474
	260	100	18.5	TX40	659217	50	200			40 4896 2125 481
	280	115	18.5	TX40	659218	50	200			40 4896 2125 498
	300	115	18.5	TX40	659219	50	200			40 4896 2125 504
	320	115	18.5	TX40	659220	50	200			40 4896 2125 511
	340	115	18.5	TX40	659221	50	200			40 4896 2125 528
	360	115	18.5	TX40	659222	50	200			40 4896 2125 535
	380	115	18.5	TX40	659223	50	200			40 4896 2125 542
	400	115	18.5	TX40	659224	50	200			40 4896 2125 559

Further sizes on request.

FPF-WT YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Flange head



Diameter d [mm]	Length l [mm]	Partial thread length l _g [mm]	Head-Ø d _k [mm]	Drive 	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
6.0	60	30	14.5	TX30	659346	100	800			40 4896 2249 477
	80	50	14.5	TX30	659347	100	800			40 4896 2249 484
	100	50	14.5	TX30	659348	100	800			40 4896 2249 491
	120	50	14.5	TX30	659349	100	600			40 4896 2249 507
	140	70	14.5	TX30	659350	100	600			40 4896 2249 514
	160	70	14.5	TX30	659351	100	400			40 4896 2249 521
	180	70	14.5	TX30	659352	100	400			40 4896 2249 538
	200	70	14.5	TX30	659353	100	400			40 4896 2249 545
	220	70	14.5	TX30	659354	100	400			40 4896 2249 552
	240	70	14.5	TX30	659355	100	400			40 4896 2249 569
	260	70	14.5	TX30	659356	100	400			40 4896 2249 576
	280	70	14.5	TX30	659357	100	400			40 4896 2249 583
	300	70	14.5	TX30	659358	100	400			40 4896 2249 590
8.0	80	50	22	TX40	659244	50	400			40 4896 2126 013
	100	50	22	TX40	659245	50	400			40 4896 2126 020
	120	75	22	TX40	659246	50	300			40 4896 2126 037
	140	75	22	TX40	659247	50	300			40 4896 2126 044
	160	75	22	TX40	659248	50	200			40 4896 2126 051
	180	75	22	TX40	659249	50	200			40 4896 2126 068
	200	100	22	TX40	659250	50	200			40 4896 2126 075
	220	100	22	TX40	659251	50	200			40 4896 2126 082
	240	100	22	TX40	659252	50	200			40 4896 2126 099
	260	100	22	TX40	659253	50	200			40 4896 2126 105
	280	100	22	TX40	659254	50	200			40 4896 2126 112
	300	100	22	TX40	659255	50	200			40 4896 2126 129
	320	100	22	TX40	659256	50	200			40 4896 2126 136
	340	100	22	TX40	659257	50	200			40 4896 2126 143
	360	100	22	TX40	659258	50	200			40 4896 2126 150
	380	100	22	TX40	659259	50	200			40 4896 2126 167
	400	100	22	TX40	659260	50	200			40 4896 2126 174
10.0	120	80	27	TX40	659265	50	200			40 4896 2126 228
	140	80	27	TX40	659266	50	200			40 4896 2126 235
	160	80	27	TX40	659267	50	200			40 4896 2126 242

Further sizes on request.

FPF-WT YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Flange head



Diameter d [mm]	Length l [mm]	Partial thread length l _g [mm]	Head-Ø d _k [mm]	Drive 	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
10.0	180	100	27	TX40	659268	50	200			40 4896 2126 259
	200	100	27	TX40	659269	50	200			40 4896 2126 266
	220	100	27	TX40	659270	50	200			40 4896 2126 273
	240	100	27	TX40	659271	50	200			40 4896 2126 280
	260	100	27	TX40	659272	50	200			40 4896 2126 297
	280	115	27	TX40	659273	50	200			40 4896 2126 303
	300	115	27	TX40	659274	50	200			40 4896 2126 310
	320	115	27	TX40	659275	50	200			40 4896 2126 327
	340	115	27	TX40	659276	50	200			40 4896 2126 334
	360	115	27	TX40	659277	50	200			40 4896 2126 341
	380	115	27	TX40	659278	50	200			40 4896 2126 358
	400	115	27	TX40	659279	50	200			40 4896 2126 365

Further sizes on request.

FPF-HT ZPP

- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Hex head with Torx



Diameter d [mm]	Length l [mm]	Partial thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
8.0	80	50	19	SW 13	659407	50	400			40 4896 2263 374
	100	50	19	SW 13	659408	50	400			40 4896 2263 411
	120	75	19	SW 13	659409	50	300			40 4896 2263 527
	140	75	19	SW 13	659410	50	300			40 4896 2263 510
10.0	80	52	22.4	SW 16	659411	50	200			40 4896 2263 534
	100	52	22.4	SW 16	659412	50	200			40 4896 2263 541
	120	80	22.4	SW 16	659413	50	200			40 4896 2263 558
	140	80	22.4	SW 16	659414	50	200			40 4896 2263 565
12.0	100	60	24.5	SW 17	659415	25	150			40 4896 2263 572
	120	80	24.5	SW 17	659416	25	150			40 4896 2263 589
	140	80	24.5	SW 17	659417	25	150			40 4896 2263 596

FPF-HT BZP

- Material: Steel
- Coating: Bonus-Zinc
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Hex head with Torx
- Suitability: Special surface coating for significant higher corrosion resistance



Diameter	Length	Partial thread length	Head-Ø	Width across nut	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d [mm]	l [mm]	l _g [mm]	d _k [mm]			[pcs]	[pcs]			
8.0	80	50	19	SW 13	659335	50	400			40 4896 2249 361
	100	50	19	SW 13	659336	50	400			40 4896 2249 378
	120	75	19	SW 13	659337	50	300			40 4896 2249 385
	140	75	19	SW 13	659338	50	300			40 4896 2249 392
10.0	80	52	22.4	SW 15	659339	50	200			40 4896 2249 408
	100	52	22.4	SW 15	659340	50	200			40 4896 2249 415
	120	80	22.4	SW 15	659341	50	200			40 4896 2249 422
	140	80	22.4	SW 15	659342	50	200			40 4896 2249 439
12.0	100	60	24.5	SW 17	659343	25	150			40 4896 2249 446
	120	80	24.5	SW 17	659344	25	150			40 4896 2249 453
	140	80	24.5	SW 17	659345	25	150			40 4896 2249 460

3

Wood construction screw Power-Fast

FPF-ST A2P

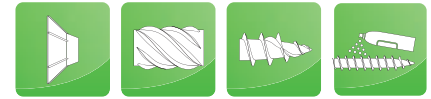
- Material: Stainless steel A2
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
8.0	80	50	14.8	TX40	657514	50	400			40 4896 2249 668
	100	50	14.8	TX40	657515	50	400			40 4896 2249 675
	120	75	14.8	TX40	657516	50	400			40 4896 2249 682
	140	75	14.8	TX40	657517	50	300			40 4896 2249 699
	160	75	14.8	TX40	657518	50	300			40 4896 2249 705
	180	75	14.8	TX40	657519	50	200			40 4896 2249 712
	200	100	14.8	TX40	657520	50	200			40 4896 2249 729
	220	141	14.8	TX40	657524	50	400			40 4896 2264 074
	240	100	14.8	TX40	657521	50	200			40 4896 2249 736
	260	141	14.8	TX40	657525	50	400			40 4896 2264 081
	280	100	14.8	TX40	657522	50	200			40 4896 2249 743
	300	100	14.8	TX40	657523	50	200			40 4896 2249 750

FPF-ST A4P

- Material: Stainless steel A4
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length l _g [mm]	Head-Ø d _k [mm]	Drive 	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
8.0	100	50	14.8	TX40	657508	50	400			40 4896 2249 606
	120	75	14.8	TX40	657509	50	400			40 4896 2249 613
	140	75	14.8	TX40	657510	50	300			40 4896 2249 620
	160	75	14.8	TX40	657511	50	300			40 4896 2249 637
	180	75	14.8	TX40	657512	50	200			40 4896 2249 644
	200	100	14.8	TX40	657513	50	200			40 4896 2249 651

FPF-WT A2P

- Material: Stainless steel A2
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Flange head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
6.0	60	30	14.5	TX40	657433	200	1.200			40 4896 2125 757
	80	50	14.5	TX40	657434	200	800			40 4896 2125 764
	100	50	14.5	TX40	657435	100	600			40 4896 2125 771
	120	50	14.5	TX40	657436	100	600			40 4896 2125 788
	140	70	14.5	TX30	657437	100	600			40 4896 2125 795
	160	70	14.5	TX30	657438	100	600			40 4896 2125 801
	180	70	14.5	TX30	657439	100	400			40 4896 2125 818
	200	70	14.5	TX30	657440	100	400			40 4896 2125 825
8.0	40	141	14.8	TX40	657526	50	400			40 4896 2264 098
	60	141	14.8	TX40	657527	50	400			40 4896 2264 104
	80	50	22	TX40	657442	50	200			40 4896 2125 849
	100	50	22	TX40	657443	50	200			40 4896 2125 856
	120	75	22	TX40	657444	50	200			40 4896 2125 863
	140	75	22	TX40	657445	50	200			40 4896 2125 870
	160	75	22	TX40	657446	50	200			40 4896 2125 887
	180	75	22	TX40	657447	50	200			40 4896 2125 894
	200	100	22	TX40	657448	50	200			40 4896 2125 900

Washer for wood construction screw FWC-CS YZ

- Coating: yellow zinc plated
- For countersunk head
- For higher pull through forces



Internal diameter [mm]	External-Ø d [mm]	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
6,7	22	666168	50	3.000			40 4896 2126 563
8,7	30	666169	50	1.200			40 4896 2126 570
11,2	35	666170	50	400			40 4896 2126 587



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Your benefits:

Full thread screw Power-Full

- Time- and effort-saving installation without pre-drilling thanks to the drill bit tip
- Simple creation of high-load-bearing connections



Cylinder head

- With cylinder head for easy sinking in the wood
- With drill bit tip for screwing close to the edge and without gaps, and without pre-drilling



Countersunk head

- With countersunk head for steel sheet-timber connections or for surface-flush sinking
- With drill bit tip for screwing close to the edge and without splintering, and without pre-drilling



Iso with cylinder head

- With cylinder head for easy sinking in the wood
- With a double thread for the fixing of non-pressure-resistant insulation materials in rooftop insulation



Screws for reinforcement in timber constructions

- Full thread screws are also used to reinforce load-bearing timber constructions
- They increase the load-bearing capacity of the wood, without having to increase the beam cross-sections
- This can considerably reduce the cost of the materials
- It also allows for clean wooden surfaces without metal connections that ruin the look



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FPF-ZT ZPF

- Material: Steel
- Coating: Zinc flake coating
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Cylinder head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _K			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
6.5	120	107	8.0	TX30	659299	100	100			40 4896 2135 060
	140	127	8.0	TX30	659300	100	100			40 4896 2135 077
	160	147	8.0	TX30	659301	100	100			40 4896 2135 084
	195	182	8.0	TX30	659302	100	100			40 4896 2135 091
8.0	155	140	10.0	TX40	659303	50	50			40 4896 2135 107
	195	180	10.0	TX40	659304	50	50			40 4896 2135 114
	220	205	10.0	TX40	659305	50	50			40 4896 2135 121
	245	230	10.0	TX40	659306	50	50			40 4896 2135 138
	295	280	10.0	TX40	659307	50	50			40 4896 2135 145
	330	315	10.0	TX40	659308	50	50			40 4896 2135 152
	375	360	10.0	TX40	659309	50	50			40 4896 2135 169
	400	385	10.0	TX40	659310	50	50			40 4896 2135 176
10.0	300	282	13.0	TX50	659311	25	25			40 4896 2135 183
	330	312	13.0	TX50	659312	25	25			40 4896 2135 190
	360	342	13.0	TX50	659313	25	25			40 4896 2135 206
	400	382	13.0	TX50	659314	25	25			40 4896 2135 213
	450	432	13.0	TX50	659315	25	25			40 4896 2135 220
	500	482	13.0	TX50	659316	25	25			40 4896 2135 237
	550	532	13.0	TX50	659317	25	25			40 4896 2135 244
	600	582	13.0	TX50	659318	25	25			40 4896 2135 251

FPF-ST ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Full thread length l _g [mm]	Head-Ø d _k [mm]	Drive 	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
8.0	95	80	14.5	TX40	659385	50	400			40 4896 2250 022
	125	110	14.5	TX40	659386	50	300			40 4896 2250 039
	155	140	14.5	TX40	659387	50	200			40 4896 2250 046
	195	180	14.5	TX40	659388	50	200			40 4896 2250 053
	220	205	14.5	TX40	659389	50	200			40 4896 2250 060
	245	230	14.5	TX40	659390	50	200			40 4896 2250 084
	270	255	14.5	TX40	659418	50	200			40 4896 2264 111
	295	280	14.5	TX40	659419	50	200			40 4896 2264 128
	330	315	14.5	TX40	659420	50	200			40 4896 2264 135
	375	360	14.5	TX40	659421	50	200			40 4896 2264 142
	400	385	14.5	TX40	659422	50	200			40 4896 2264 159
10.0	125	110	17.8	TX50	659423	50	400			40 4896 2264 166
	155	140	17.8	TX50	659424	50	300			40 4896 2264 173
	195	180	17.8	TX50	659425	50	200			40 4896 2264 180
	220	205	17.8	TX50	659426	50	200			40 4896 2264 197
	245	230	17.8	TX50	659427	50	200			40 4896 2264 203
	270	255	17.8	TX50	659428	50	200			40 4896 2264 210
	300	285	17.8	TX50	659429	50	200			40 4896 2264 227

FIF-ZT ZPF

- **Material:** Steel
- **Coating:** blue zinc plated
- **Drive:** TX-Star recess
- **Thread:** Double thread, 100 mm below und 60 mm under the head
- **Screw head:** Cylinder head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
8.0	225	160	10.0	TX40	659397	50	200			40 4896 2250 152
	235	160	10.0	TX40	659398	50	200			40 4896 2250 169
	255	160	10.0	TX40	659399	50	200			40 4896 2250 176
	275	160	10.0	TX40	659400	50	200			40 4896 2250 183
	302	160	10.0	TX40	659401	50	200			40 4896 2250 190
	335	160	10.0	TX40	659402	50	200			40 4896 2250 206
	365	160	10.0	TX40	659403	50	200			40 4896 2250 213
	397	160	10.0	TX40	659404	50	200			40 4896 2250 220
	435	160	10.0	TX40	659405	50	50			40 4896 2250 237



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Your benefits:

Chipboard screw stainless steel

- Ideal outdoors and in damp spaces
- Easy to screw in thanks to the innovative fischer Power-Fast thread geometry
- Less power and battery needed
- Made from A2 and A4 stainless steel
- Clean surfaces
- Lasting safety with ETA conformity
- Screws can be placed near edges without splitting



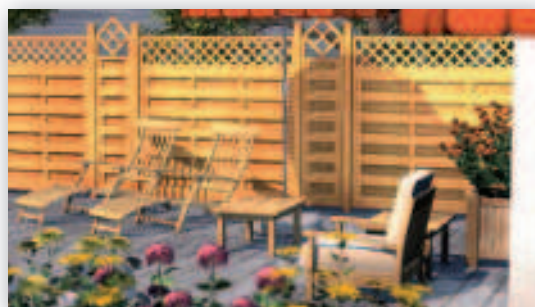
Countersunk head

- For surface-flush screwing
- Easy to sink thanks to the underhead milling ribs. This results in a clean finish



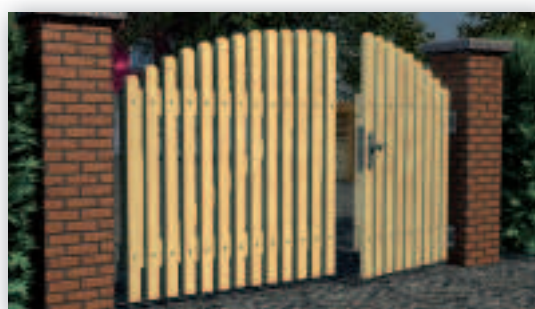
Pan head

- For steel sheet-timber connections
- Full-surface layer for maximum clamping force
- Cannot be countersunk



Raised countersunk head

- Countersunk head with curve
- For applications where the screws are visible
- Easy to sink and clean surface finish



The stainless steel A2 chipboard screw

- Ideally suited for use outdoors
- Can be used with wood with low levels of tannic acid
- Pre-drilling recommended

The stainless steel A4 chipboard screw

- Especially for use with wood with high levels of tannic acid
- Well-suited to highly corrosive environments, e.g. close to the sea, for façade sub-structures or in the chemical and food industries
- Pre-drilling recommended



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FPF-SZ A2P

- Material: Stainless steel A2
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.5	35	24	7.0	PZ2	657156	100	6.000			40 4896 2040 760
	40	24	7.0	PZ2	657158	100	2.400			40 4896 2040 784
4.0	35	24	8.0	PZ2	657171	300	5.400			40 4896 2040 913
	40	24	8.0	PZ2	657174	200	3.600			40 4896 2040 944
	45	30	8.0	PZ2	657177	200	3.600			40 4896 2040 975
	50	30	8.0	PZ2	657180	200	1.600			40 4896 2041 002
	60	36	8.0	PZ2	657181	100	2.400			40 4896 2041 019
	70	42	8.0	PZ2	657182	100	2.400			40 4896 2041 026
4.5	40	24	9.0	PZ2	657192	300	2.400			40 4896 2041 125
	45	30	9.0	PZ2	657195	200	3.600			40 4896 2041 156
	50	30	9.0	PZ2	657198	200	1.600			40 4896 2041 187
	60	36	9.0	PZ2	657200	100	1.800			40 4896 2041 200
	70	42	9.0	PZ2	657203	100	1.800			40 4896 2041 231
5.0	40	24	10.0	PZ2	657216	200	3.600			40 4896 2041 361
	45	30	10.0	PZ2	657219	200	1.600			40 4896 2041 392
	50	30	10.0	PZ2	657222	200	1.600			40 4896 2041 422
	60	36	10.0	PZ2	657225	100	2.400			40 4896 2041 453
	70	42	10.0	PZ2	657228	100	800			40 4896 2041 484
	80	50	10.0	PZ2	657231	100	800			40 4896 2041 514
	100	60	10.0	PZ2	657235	50	800			40 4896 2041 552
6.0	40	24	12.0	PZ3	657237	100	2.400			40 4896 2041 576
	50	30	12.0	PZ3	657241	100	1.800			40 4896 2041 613
	60	36	12.0	PZ3	657244	100	1.800			40 4896 2041 644
	70	42	12.0	PZ3	657247	100	800			40 4896 2041 675
	80	50	12.0	PZ3	657250	100	800			40 4896 2041 705
	90	60	12.0	PZ3	657252	50	400			40 4896 2041 729
	100	60	12.0	PZ3	657255	100	600			40 4896 2041 750
	120	70	12.0	PZ3	657258	100	600			40 4896 2041 781
	140	70	12.0	PZ3	657260	50	600			40 4896 2041 804
	160	70	12.0	PZ3	657262	50	600			40 4896 2041 828

FPF-SZ A2F

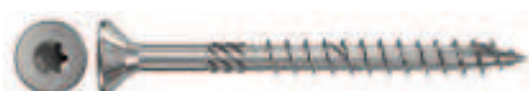
- Material: Stainless steel A2
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
3.0	25	21	6.0	PZ1	657138	100	6.000			40 4896 2040 586
	30	26	6.0	PZ1	657140	100	6.000			40 4896 2040 609
	35	31	6.0	PZ1	657142	100	6.000			40 4896 2040 623
3.5	20	16	7.0	PZ2	657149	300	7.200			40 4896 2040 692
	25	21	7.0	PZ2	657151	300	7.200			40 4896 2040 715
	30	26	7.0	PZ2	657152	100	6.000			40 4896 2040 722
	35	31	7.0	PZ2	657154	100	6.000			40 4896 2040 746
4.0	20	15	8.0	PZ2	657160	100	6.000			40 4896 2040 807
	25	20	8.0	PZ2	657163	300	7.200			40 4896 2040 838
	30	25	8.0	PZ2	657166	300	7.200			40 4896 2040 869
4.5	30	25	9.0	PZ2	657183	100	2.400			40 4896 2041 033
	35	30	9.0	PZ2	657185	100	2.400			40 4896 2041 057
	40	35	9.0	PZ2	657189	300	2.400			40 4896 2041 095
5.0	30	24	10.0	PZ2	657210	200	4.800			40 4896 2041 309
	35	29	10.0	PZ2	657213	200	3.600			40 4896 2041 330

FPF-ST A2P

- Material: Stainless steel A2
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.5	35	24	7.0	TX10	657024	200	4.800			40 4896 2039 443
	40	24	7.0	TX10	657026	200	4.800			40 4896 2039 467
4.0	40	24	8.0	TX20	657040	200	3.600			40 4896 2039 603
	45	30	8.0	TX20	657042	200	3.600			40 4896 2039 627
	50	30	8.0	TX20	657044	200	1.600			40 4896 2039 641
	60	36	8.0	TX20	657046	200	1.600			40 4896 2039 665
4.5	35	24	9.0	TX20	657052	200	3.600			40 4896 2039 726
	40	24	9.0	TX20	657057	200	3.600			40 4896 2039 771
	45	30	9.0	TX20	657060	200	3.600			40 4896 2039 801
	50	30	9.0	TX20	657063	200	1.600			40 4896 2039 832
	60	36	9.0	TX20	657065	100	1.800			40 4896 2039 856
	70	42	9.0	TX20	657067	100	1.800			40 4896 2039 870
5.0	40	24	10.0	TX20	657079	200	3.600			40 4896 2039 993
	45	30	10.0	TX20	657082	200	1.600			40 4896 2040 029
	50	30	10.0	TX20	657085	200	1.600			40 4896 2040 050
	60	36	10.0	TX20	657088	100	2.400			40 4896 2040 081
	70	42	10.0	TX20	657091	100	800			40 4896 2040 111
	80	50	10.0	TX20	657094	100	800			40 4896 2040 142
	100	60	10.0	TX20	657097	100	800			40 4896 2040 173
	120	70	10.0	TX20	657100	100	800			40 4896 2040 203
6.0	40	24	12.0	TX30	657103	200	1.600			40 4896 2040 234
	50	30	12.0	TX30	657109	200	1.600			40 4896 2040 296
	60	36	12.0	TX30	657112	100	1.800			40 4896 2040 326
	70	42	12.0	TX30	657115	100	800			40 4896 2040 357
	80	50	12.0	TX30	657118	100	800			40 4896 2040 388
	90	60	12.0	TX30	657121	100	800			40 4896 2040 418
	100	60	12.0	TX30	657124	100	600			40 4896 2040 449
	120	70	12.0	TX30	657127	100	600			40 4896 2040 470
	140	70	12.0	TX30	657129	100	600			40 4896 2040 494
	160	70	12.0	TX30	657131	100	600			40 4896 2040 517
	180	70	12.0	TX30	657409	100	600			40 4896 2124 965
	200	70	12.0	TX30	657410	100	600			40 4896 2124 972

FPF-ST A2F

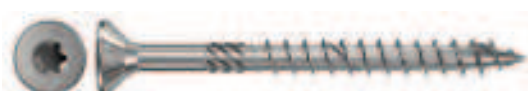
- Material: Stainless steel A2
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
3.0	12	8	6.0	TX10	657002	300	18.000			40 4896 2039 221
	16	12	6.0	TX10	657004	300	18.000			40 4896 2039 245
	20	16	6.0	TX10	657006	300	18.000			40 4896 2039 269
	25	21	6.0	TX10	657008	300	7.200			40 4896 2039 283
	30	26	6.0	TX10	657010	300	7.200			40 4896 2039 306
	35	31	6.0	TX10	657012	200	4.800			40 4896 2039 320
3.5	16	12	7.0	TX10	657014	300	18.000			40 4896 2039 344
	20	16	7.0	TX10	657016	300	7.200			40 4896 2039 368
	25	21	7.0	TX10	657018	300	7.200			40 4896 2039 382
	30	26	7.0	TX10	657020	200	4.800			40 4896 2039 405
	35	31	7.0	TX10	657022	200	4.800			40 4896 2039 429
4.0	20	15	8.0	TX20	657028	200	4.800			40 4896 2039 481
	25	20	8.0	TX20	657030	200	4.800			40 4896 2039 504
	30	25	8.0	TX20	657032	200	4.800			40 4896 2039 528
	35	30	8.0	TX20	657036	200	4.800			40 4896 2039 566
4.5	30	25	9.0	TX20	657048	200	4.800			40 4896 2039 689
	35	30	9.0	TX20	657050	200	3.600			40 4896 2039 702
5.0	30	24	10.0	TX20	657070	200	4.800			40 4896 2039 900
	35	29	10.0	TX20	657073	200	3.600			40 4896 2039 931

FPF-ST A4P

- Material: Stainless steel A4
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
4.0	35	24	8.0	TX20	657280	200	4.800			40 4896 2042 009
	40	24	8.0	TX20	040562	200	3.600			40 0620 9405 628
	45	30	8.0	TX20	657283	200	3.600			40 4896 2042 030
	50	30	8.0	TX20	657285	200	1.600			40 4896 2042 054
4.5	40	24	9.0	TX20	657291	200	3.600			40 4896 2042 115
	45	30	9.0	TX20	657293	200	3.600			40 4896 2042 139
	50	30	9.0	TX20	040563	200	1.600			40 0620 9405 635
	70	42	9.0	TX20	040504	200	1.600			40 0620 9405 048
	80	50	9.0	TX20	040505	200	1.200			40 0620 9405 055
5.0	40	24	10.0	TX20	657300	200	3.600			40 4896 2042 207
	50	30	10.0	TX20	040565	200	1.600			40 0620 9405 659
	60	36	10.0	TX20	040566	200	1.600			40 0620 9405 666
	70	42	10.0	TX20	040567	100	800			40 0620 9405 673
	80	50	10.0	TX20	040568	100	800			40 0620 9405 680
6.0	40	24	12.0	TX30	657306	200	1.600			40 4896 2042 269
	50	30	12.0	TX30	657308	100	1.800			40 4896 2042 283
	60	36	12.0	TX30	657310	100	1.800			40 4896 2042 306
	80	50	12.0	TX30	657312	100	800			40 4896 2042 320
	100	60	12.0	TX30	040569	100	600			40 0620 9405 697
	120	70	12.0	TX30	040570	100	600			40 0620 9405 703
	140	70	12.0	TX30	657404	100	600			40 4896 2124 910
	160	70	12.0	TX30	657405	100	600			40 4896 2124 927
	180	70	12.0	TX30	657406	100	400			40 4896 2124 934
	200	70	12.0	TX30	657407	100	400			40 4896 2124 941

FPF-ST A4F

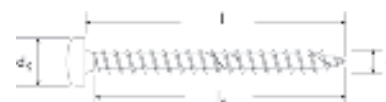
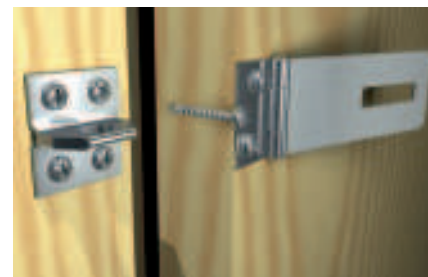
- Material: Stainless steel A4
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
3.0	16	12	6.0	TX10	657264	200	12.000			40 4896 2041 842
	20	16	6.0	TX10	657266	200	12.000			40 4896 2041 866
	25	21	6.0	TX10	657268	200	12.000			40 4896 2041 880
	30	26	6.0	TX10	657270	200	12.000			40 4896 2041 903
3.5	20	16	7.0	TX10	657272	200	12.000			40 4896 2041 927
	30	26	7.0	TX10	657274	200	4.800			40 4896 2041 941
4.0	20	15	8.0	TX20	657276	200	4.800			40 4896 2041 965
	30	25	8.0	TX20	657278	200	4.800			40 4896 2041 989
4.5	30	25	9.0	TX20	657287	200	4.800			40 4896 2042 078
	35	30	9.0	TX20	657289	200	3.600			40 4896 2042 092
5.0	30	24	10.0	TX20	657298	200	4.800			40 4896 2042 184

FPF-PT A2F

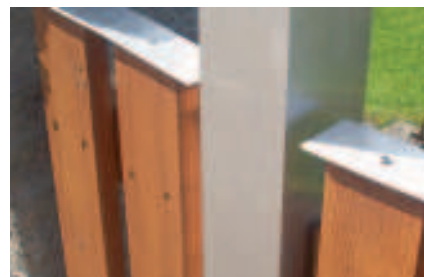
- Material: Stainless steel A2
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Pan Head



Diameter d [mm]	Length l [mm]	Full thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Sales unit [pcs]	Outer carton [pcs]			GTIN (EAN Code)
3.0	16	14	6.0	TX10	657353	200	4.800			40 4896 2050 462
	20	18	6.0	TX10	657355	200	12.000			40 4896 2050 486
3.5	12	10	7.0	TX10	657357	200	12.000			40 4896 2050 509
	16	14	7.0	TX10	657359	200	4.800			40 4896 2050 523
	20	18	7.0	TX10	657361	200	4.800			40 4896 2050 547
	30	28	7.0	TX10	657363	200	4.800			40 4896 2050 561
	40	37	8.0	TX20	657371	100	2.400			40 4896 2050 646
4.0	16	13	8.0	TX20	657365	200	4.800			40 4896 2050 585
	20	17	8.0	TX20	657367	200	4.800			40 4896 2050 608
	30	27	8.0	TX20	657369	200	4.800			40 4896 2050 622
	40	37	8.0	TX20	657371	100	2.400			40 4896 2050 646
4.5	30	27	9.0	TX20	657373	200	4.800			40 4896 2050 660
	35	32	9.0	TX20	657375	100	2.400			40 4896 2050 684
	40	37	9.0	TX20	657377	100	2.400			40 4896 2050 707
5.0	30	26	10.0	TX20	657379	200	3.600			40 4896 2050 721
	40	36	10.0	TX20	657381	100	1.800			40 4896 2050 745
	50	46	10.0	TX20	657383	50	1.200			40 4896 2050 769
	60	56	10.0	TX20	657385	50	1.200			40 4896 2050 783
6.0	40	36	12.0	TX30	657387	50	1.200			40 4896 2050 806
	50	46	12.0	TX30	657389	50	1.200			40 4896 2050 820
	60	56	12.0	TX30	657391	50	1.200			40 4896 2050 844

FPF-LZ A2F

- Material: Stainless steel A2
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Raised countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
3.5	16	12	7.0	PZ2	657331	200	12.000			40 4896 2045 390
	20	16	7.0	PZ2	657333	200	4.800			40 4896 2045 413
	30	26	7.0	PZ2	657335	200	4.800			40 4896 2045 437
	40	36	7.0	PZ2	657337	200	4.800			40 4896 2045 451
4.0	30	25	8.0	PZ2	657339	200	4.800			40 4896 2045 475
	40	35	8.0	PZ2	657341	200	3.600			40 4896 2045 499
	50	45	8.0	PZ2	657343	200	1.600			40 4896 2045 512
4.5	40	35	9.0	PZ2	657345	200	3.600			40 4896 2045 536
	50	45	9.0	PZ2	657347	200	1.600			40 4896 2045 550
5.0	50	44	10.0	PZ2	657349	200	1.600			40 4896 2045 574
	60	54	10.0	PZ2	657351	200	1.600			40 4896 2045 598



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Your benefits:

Hinge tape screw

- Flush fit with the hinge thanks to the small head

MDF plate screw

- Quick and easy to countersink
- Screws can be placed near edges without splitting

Wood floor screw

- No splitting
- Can be fully sunk due to its narrow, tapered head

Wood connector screw

- Fixing of steel components to timber structures



Hinge tape screw

- Small countersunk head
- Blue zinc plated for the unobtrusive fixing of strap hinges



MDF plate screw

- 75° countersunk head
- Geometry ideal for use with MDF (e.g. in furniture making)



Wood floor screw

- 60° countersunk head
- For the splinter-proof screwing of solid wooden floorboards



Wood Connector Screw

- Head shape especially for wood Connectors
- To connect steel components to timber



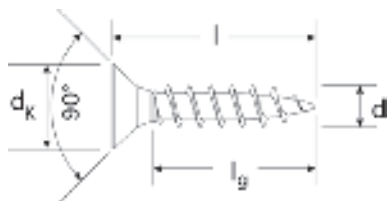
Special screws for special applications

- Especially for the application of a visible screw geometry
- The various head shapes and dimensions make the decisive difference to standard chipboard screws
- Small head shapes also effectively reduce the gaps between the wood



FHT-SZ ZPF

- **Material:** Steel
- **Coating:** blue zinc plated
- **Drive:** Cross drive PZ
- **Thread:** Full thread
- **Screw head:** Small countersunk head $\varnothing 5$



Diameter	Length	Full thread length	Head- $\varnothing$	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d [mm]	l [mm]	l _g [mm]	d _k [mm]			[pcs]	[pcs]			
3.0	16	12	5.0	PZ1	660305	200	12.000			40 4896 2043 594
	20	15	5.0	PZ1	660306	200	12.000			40 4896 2043 600
	25	20	5.0	PZ1	660307	200	12.000			40 4896 2043 617
	30	25	5.0	PZ1	660308	200	12.000			40 4896 2043 624

FDF-ST YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Small countersunk head 75°



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d [mm]	l [mm]	l _g [mm]	d _k [mm]			[pcs]	[pcs]			
3.5	40	24	7.0	TX10	660201	200	4.800			40 4896 2043 464
	45	30	7.0	TX10	660202	200	3.600			40 4896 2043 471
	50	30	7.0	TX10	660203	200	3.600			40 4896 2043 488
4.0	40	24	8.0	TX20	660204	200	3.600			40 4896 2043 495
	45	30	8.0	TX20	660205	200	3.600			40 4896 2043 501
	50	30	8.0	TX20	660206	200	1.600			40 4896 2043 518
	60	36	8.0	TX20	660207	100	2.400			40 4896 2043 525
4.5	45	30	9.0	TX20	660208	200	3.600			40 4896 2043 532
	50	30	9.0	TX20	660209	200	1.600			40 4896 2043 549

FTF-ST YZP

- **Material:** Steel
- **Coating:** yellow zinc plated
- **Drive:** TX-Star recess
- **Thread:** Partial thread
- **Screw head:** Small countersunk head 60°



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	35	24	6.0	TX10	660101	200	4.800			40 4896 2043 402
	45	30	6.0	TX10	660103	200	3.600			40 4896 2043 426
	55	36	6.0	TX10	660105	200	1.600			40 4896 2043 440

FPF-PT ZPF

- **Material:** Steel
- **Coating:** blue zinc plated
- **Drive:** TX-Star recess
- **Thread:** Full thread
- **Screw head:** Pan Head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
5.0	35	30	8.5	TX20	652879	200	3.600			40 4896 2254 013
	40	35	8.5	TX20	652880	200	3.600			40 4896 2254 020
	50	45	8.5	TX20	652881	200	1.600			40 4896 2254 037



Special screw zinc plated



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Your benefits:

- Ideally suited for use outdoors

Terrace screw

- Gap-free screwing of materials
- Easy to fix, even in hard woods
- Surface can be walked on bare foot thanks to the flat countersunk head with milling ribs
- Pinpoint fixing thanks to the special screw thread

Wood facade screw

- Smooth, splinter-proof surfaces
- For all kinds of wooden facades

Jamb screw

- No pre-drilling
- Perfect-fit screw head for an ideal hold in the joist hanger
- Cut notch prevents need for pre-drilling



Wood facade screw

- For visible wooden facades with wooden sub-structures
- With 75° countersunk head for an unobtrusive and secure connection



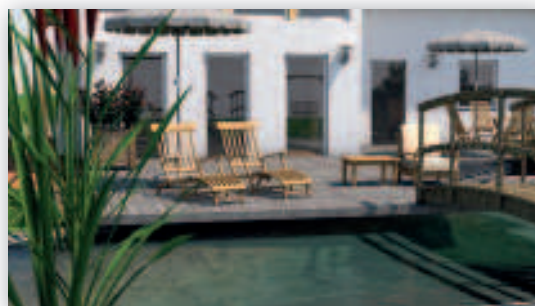
Terrace screw

- For terrace decking with wooden sub-structures
- With flat countersunk head for an easy and splinter-proof sinking



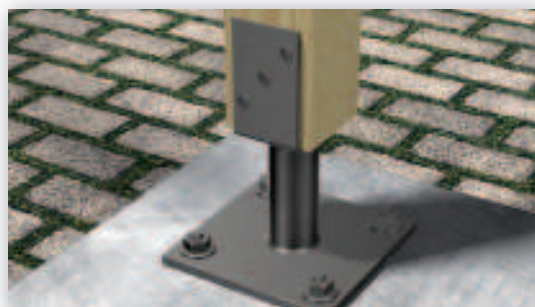
Terrace screw with locking thread

- Also suitable for hard woods such as bangkirai
- Locking thread in the lower head area for a durable and secure screw
- Larger screw diameter



Jamb screw

- For the fixing of wooden posts in metal profiles
- Special round head for the ideal centring in the post anchor (e.g. for fences)



Pre-drilling recommended

- To prevent the screw breaking when being screwed in
- To reduce cracks or splits in the wood for screws near edges
- Especially important with hard woods
- It is very difficult to remove a broken screw



FFS-ST A2P

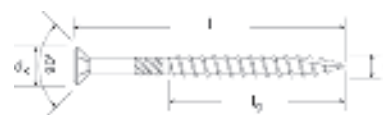
- **Material:** Stainless steel A2
- **Drive:** TX-Star recess
- **Thread:** Partial thread
- **Screw head:** Small countersunk head 75°



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	lg	dk			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
4.5	35	24	8.8	TX20	660502	300	2.400			40 4896 2043 235
4.5	40	24	8.8	TX20	660504	300	2.400			40 4896 2043 259
4.5	45	30	8.8	TX20	660506	300	2.400			40 4896 2043 273
4.5	50	30	8.8	TX20	660508	300	2.400			40 4896 2043 297
4.5	60	36	8.8	TX20	660510	200	1.600			40 4896 2043 310
4.5	70	42	8.8	TX20	660512	200	1.600			40 4896 2043 334
5.0	60	36	9.7	TX20	660514	200	1.600			40 4896 2043 358
5.0	70	42	9.7	TX20	660516	100	800			40 4896 2043 372
5.0	80	50	9.7	TX20	660518	100	800			40 4896 2043 396

FTS-ST A2P

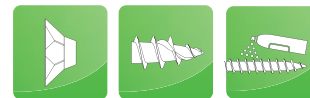
- **Material:** Stainless steel A2
- **Drive:** TX-Star recess
- **Thread:** Partial thread
- **Screw head:** Flat countersunk head
ø8,2, 90°



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d [mm]	l [mm]	l _g [mm]	d _k [mm]			[pcs]	[pcs]			
5.0	40	24	8.2	TX20	660602	200	3.600			40 4896 2050 868
5.0	50	30	8.2	TX20	660604	200	1.600			40 4896 2050 882
5.0	50	30	8.2	TX20	660605	500	2.000			40 4896 2050 899
5.0	60	36	8.2	TX20	660607	150	1.200			40 4896 2050 912
5.0	60	36	8.2	TX20	660608	500	2.000			40 4896 2050 929
5.0	70	42	8.2	TX20	660610	100	800			40 4896 2050 943
5.0	80	50	8.2	TX20	660612	100	800			40 4896 2050 967

FPF-ST A2P

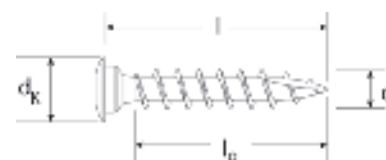
- Material: Stainless steel A2
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head with underhead milling pockets



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _K			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
5.5	40	22	7.5	TX20	660614	200	3.600			40 4896 2126 594
5.5	50	25	7.5	TX20	660615	200	1.600			40 4896 2126 600
5.5	60	30	7.5	TX20	660616	200	1.600			40 4896 2126 617
5.5	70	35	7.5	TX20	660617	200	1.200			40 4896 2126 624
5.5	80	40	7.5	TX20	660618	200	800			40 4896 2126 631

FJS-LT A2F

- Material: Stainless steel A2
- Drive: TX-Star recess
- Thread: Full thread
- Screw head: Special round head with centering Ø13,5



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _K			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
7.0	40	30	13.6	TX30	660702	50	900			40 4896 2050 981
7.0	50	40	13.6	TX30	660704	50	900			40 4896 2051 001



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Your benefits:

Drywall screw

- Fast and secure connection
- Conformity in line with EN 14566
- For dry and acoustic construction
- Phosphated and blue zinc plated



Drywall screw with trumpet shape head and coarse thread

- With needle tip and trumpet shape head
- For wooden post sub-structures



Drywall screw with trumpet shape head and fine thread

- With needle tip and trumpet shape head For up to 0.7 mm thick metal profiles. Pre-drilling not required
- With drill bit tip and trumpet shape head For up to 2.0 mm thick metal profiles. Pre-drilling not required



Fermacell screw with HiLo-thread

- For gypsum fibreboard (fermacell panels)
- With needle tip and small countersunk head
- For up to 0.8 mm thick metal profiles without pre-drilling



Profile connection screw

- For the reliable connection of metal profiles
- Without drill bit tip for metal profiles up to 0.9 mm in thickness. Pre-drilling not required
- With drill bit tip for metal profiles up to 2 mm in thickness. Pre-drilling not required



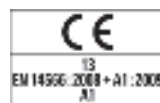
Drywall screws

- Suitable for the fixing of gypsum plasterboard, gypsum fibreboard and metal profile stands
- The special drill bit tips allow for reliable seating. Pre-drilling not required
- Various screw head versions available to suit the application in question



FSN-TPR

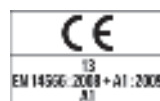
- Material: Steel
- Coating: phosphated
- Drive: Cross drive PH
- Thread: Coarse thread
- Screw head: Trumpet shape head
- Suitability: For connection to wooden substructures



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	25	19	8.3	PH 2	665045	1.000	8.000			40 4896 2052 473
	30	24	8.3	PH 2	665046	1.000	6.000			40 4896 2052 480
	35	29	8.3	PH 2	665049	1.000	4.000			40 4896 2052 510
	45	39	8.3	PH 2	665052	1.000	4.000			40 4896 2052 541
	55	49	8.3	PH 2	665055	500	2.000			40 4896 2052 572

FSN-TPRM

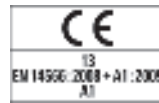
- Material: Steel
- Coating: phosphated
- Drive: Cross drive PH
- Thread: Coarse thread
- Screw head: Trumpet shape head
- Suitability: For connection to wooden substructures
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	35	29	8.3	PH 2	665090	1.000	4.000			40 4896 2052 923
	45	39	8.3	PH 2	665091	1.000	4.000			40 4896 2052 930
	55	49	8.3	PH 2	665092	1.000	4.000			40 4896 2052 947

FSN-TP

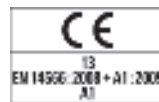
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: Coarse thread
- Screw head: Trumpet shape head
- Suitability: For connection to wooden substructures



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	20	8.3	PH 2	040594	1.000	8.000			40 0620 9405 949
	32	27	8.3	PH 2	040591	200	4.800			40 0620 9405 918
	32	27	8.3	PH 2	040595	1.000	6.000			40 0620 9405 956
	45	40	8.3	PH 2	040592	200	3.600			40 0620 9405 925
	45	40	8.3	PH 2	040596	500	3.000			40 0620 9405 963
	55	50	8.3	PH 2	040593	100	2.400			40 0620 9405 932
	55	50	8.3	PH 2	040597	500	2.000			40 0620 9405 970
3.9	70	50	8.3	PH 2	040598	250	2.000			40 0620 9405 987

FSN-TPM

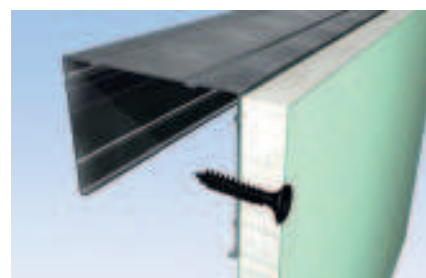
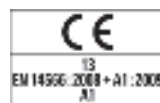
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: Coarse thread
- Screw head: Trumpet shape head
- Suitability: For connection to wooden substructures
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
D	L	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	20	8.3	PH 2	040606	1.000	4.000			40 0620 9406 069
	32	27	8.3	PH 2	040607	1.000	4.000			40 0620 9406 076
	45	40	8.3	PH 2	040608	1.000	4.000			40 0620 9406 083
	41	36	8.3	PH 2	040609	1.000	4.000			40 0620 9406 090
	55	50	8.3	PH 2	040610	1.000	4.000			40 0620 9406 106

FSN-TPD

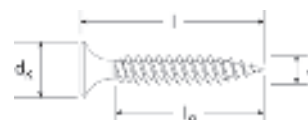
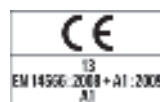
- Material: Steel
- Coating: phosphated
- Drive: Cross drive PH
- Thread: Fine thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 0,7 mm without pre-drilling



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	19	8.3	PH 2	040512	1.000	8.000			40 0620 9405 123
	35	29	8.3	PH 2	665001	1.000	4.000			40 4896 2052 039
	45	39	8.3	PH 2	665002	1.000	4.000			40 4896 2052 046
	55	49	8.3	PH 2	665003	1.000	4.000			40 4896 2052 053
3.9	25	19	8.3	PH 2	665007	1.000	8.000			40 4896 2052 091
	30	24	8.3	PH 2	665011	1.000	6.000			40 4896 2052 138
	35	29	8.3	PH 2	665015	1.000	4.000			40 4896 2052 176
	45	39	8.3	PH 2	665019	1.000	4.000			40 4896 2052 213
	55	49	8.3	PH 2	665022	600	2.400			40 4896 2052 244

FSN-TPDM

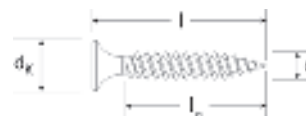
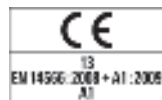
- Material: Steel
- Coating: phosphated
- Drive: Cross drive PH
- Thread: Fine thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 0,7 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	19	8.3	PH 2	040603	1.000	4.000			40 0620 9406 038
	35	29	8.3	PH 2	665088	1.000	4.000			40 4896 2052 909
	45	39	8.3	PH 2	665089	1.000	4.000			40 4896 2052 916

FSN-TPD

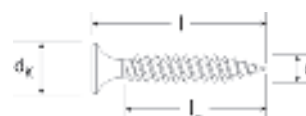
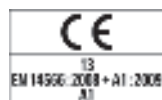
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: Fine thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 0,7 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	20	8.3	PH 2	665105	1.000	8.000			40 4896 2208 757
	38	33	8.3	PH 2	665106	1.000	4.000			40 4896 2208 764
	51	46	8.3	PH 2	665107	500	2.000			40 4896 2208 771

FSN-TPDM

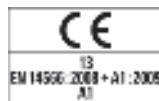
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: Fine thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 0,7 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	20	8.3	PH 2	665108	1.000	4.000			40 4896 2208 788
	38	33	8.3	PH 2	665109	1.000	4.000			40 4896 2208 795
	51	46	8.3	PH 2	665110	1.000	4.000			40 4896 2208 801

FSN-TPB

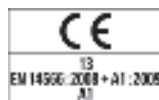
- Material: Steel
- Coating: phosphated
- Drive: Cross drive PH
- Thread: Fine thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 2 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	21	8.3	PH 2	040599	1.000	8.000			40 0620 9405 994
	35	31	8.3	PH 2	665071	1.000	4.000			40 4896 2052 732
	45	41	8.3	PH 2	665074	1.000	4.000			40 4896 2052 763
	55	51	8.3	PH 2	665077	500	2.000			40 4896 2052 794

FSN-TPBM

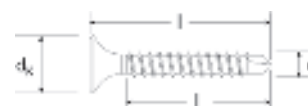
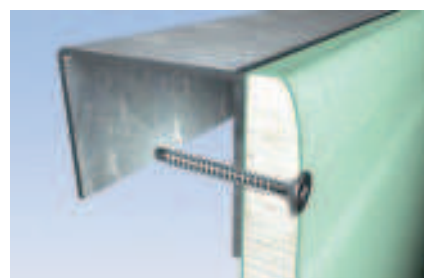
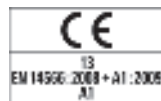
- Material: Steel
- Coating: phosphated
- Drive: Cross drive PH
- Thread: Fine thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 2 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	21	8.3	PH 2	040613	1.000	4.000			40 0620 9406 137
	35	31	8.3	PH 2	665093	1.000	4.000			40 4896 2052 954
	45	41	8.3	PH 2	665094	1.000	4.000			40 4896 2052 961

FSN-TPB

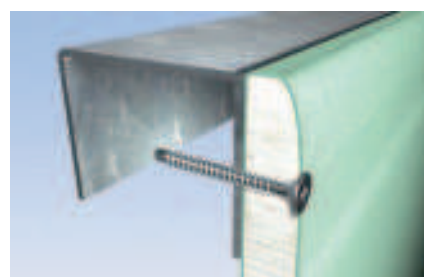
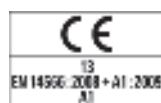
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: Fine thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 2 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	20	8.3	PH 2	665111	1.000	8.000			40 4896 2208 818
	38	33	8.3	PH 2	665112	1.000	4.000			40 4896 2208 825

FSN-TPBM

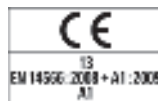
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: Fine thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 2 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.5	25	20	8.3	PH 2	665113	1.000	4.000			40 4896 2208 832
	38	33	8.3	PH 2	665114	1.000	4.000			40 4896 2208 849

FSN-TPG (fermacell)

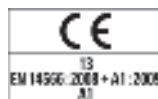
- Material: Steel
- Coating: phosphated
- Drive: Cross drive PH
- Thread: HiLo thread
- Screw head: Small countersunk head 60°
- Suitability: For gypsum fibreboard (fermacell boards) on metal profiles up to 0,7 mm in thickness without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	19	13	6.8	PH 2	665095	1.000	8.000			40 4896 2055 184
	22	16	6.8	PH 2	665081	1.000	8.000			40 4896 2052 831
	30	24	6.8	PH 2	665098	1.000	6.000			40 4896 2055 214
	35	29	6.8	PH 2	665084	1.000	4.000			40 4896 2052 862
	45	39	6.8	PH 2	665101	1.000	4.000			40 4896 2055 245
	55	49	6.8	PH 2	665087	600	2.400			40 4896 2052 893

FSN-TPGM (fermacell)

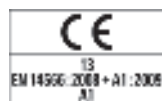
- Material: Steel
- Coating: phosphated
- Drive: Cross drive PH
- Thread: HiLo thread
- Screw head: Small countersunk head 60°
- Suitability: For gypsum fibreboard (fermacell boards) on metal profiles up to 0,7 mm in thickness without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	30	24	6.8	PH 2	665103	1.000	4.000			40 4896 2196 665
	45	39	6.8	PH 2	665104	1.000	4.000			40 4896 2196 672

FSN-TPG

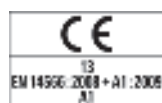
- **Material:** Steel
- **Coating:** phosphated
- **Drive:** Cross drive PH
- **Thread:** HiLo thread
- **Screw head:** Trumpet shape head
- **Suitability:** For hardboards on metal profiles up to 0,7 mm in thickness without pre-drilling
- **Specially:** collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	32	27	6.8	PH 2	040458	500	4.000			40 0620 9404 584
	41	35	6.8	PH 2	040459	500	3.000			40 0620 9404 591

FSN-TPGM

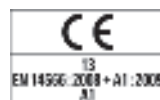
- **Material:** Steel
- **Coating:** phosphated
- **Drive:** Cross drive PH
- **Thread:** HiLo thread
- **Screw head:** Trumpet shape head
- **Suitability:** For hardboards on metal profiles up to 0,7 mm in thickness without pre-drilling
- **Specially:** collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	32	27	6.8	PH 2	040611	1.000	4.000			40 0620 9406 113
	41	35	6.8	PH 2	040612	1.000	4.000			40 0620 9406 120

FSN-TPGC

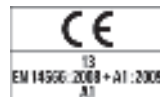
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: HiLo thread
- Screw head: Countersunk head with collar
- Suitability: For hardboards on metal profiles up to 0,7 mm in thickness without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	32	27	6.8	PH 2	665115	500	4.000			40 4896 2208 856
	41	35	6.8	PH 2	665116	500	3.000			40 4896 2208 863

FSN-TPGCM

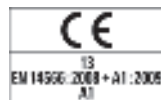
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: HiLo thread
- Screw head: Countersunk head with collar
- Suitability: For hardboards on metal profiles up to 0,7 mm in thickness without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	32	27	6.8	PH 2	665117	1.000	4.000			40 4896 2208 870
	41	35	6.8	PH 2	665118	1.000	4.000			40 4896 2208 887

FSN-UN

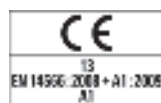
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: HiLo thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 0,7 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
3.9	30	25	6.8	PH 2	513782	1.000	6.000			40 4896 2130 676
	40	35	6.8	PH 2	513783	1.000	4.000			40 4896 2130 683
	55	50	6.8	PH 2	513784	500	2.000			40 4896 2130 690

FSN-UNM

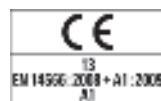
- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PH
- Thread: HiLo thread
- Screw head: Trumpet shape head
- Suitability: Thick metal profiles up to 0,7 mm without pre-drilling
- Specially: collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
3.9	30	25	6.8	PH 2	513785	1.000	4.000			40 4896 2130 706
	40	35	6.8	PH 2	513786	1.000	4.000			40 4896 2130 713

FSN-GU

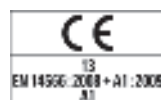
- **Material:** Steel
- **Coating:** Bonus zinc
- **Drive:** Cross drive PH
- **Thread:** HiLo thread
- **Screw head:** Countersunk head with collar
- **Suitability:** Thick metal profiles up to 0,7 mm without pre-drilling
- **Specially:** collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	30	25	6.8	PH 2	513787	1.000	6.000			40 4896 2130 720
	40	35	6.8	PH 2	513788	500	4.000			40 4896 2130 737

FSN-GUM

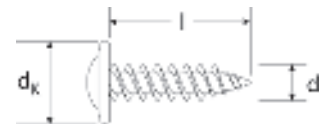
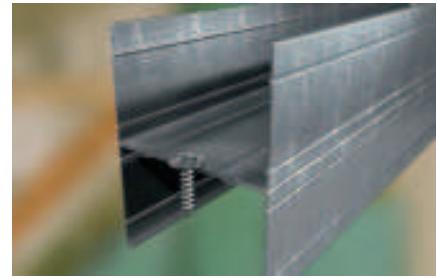
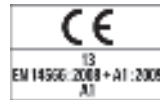
- **Material:** Steel
- **Coating:** Bonus zinc
- **Drive:** Cross drive PH
- **Thread:** HiLo thread
- **Screw head:** Countersunk head with collar
- **Suitability:** Thick metal profiles up to 0,7 mm without pre-drilling
- **Specially:** collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
3.9	30	25	6.8	PH 2	513789	1.000	4.000			40 4896 2130 744
	40	35	6.8	PH 2	513790	1.000	4.000			40 4896 2130 751

FPS-FP ZPF

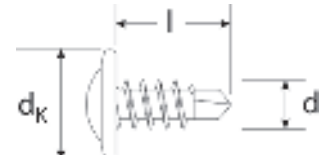
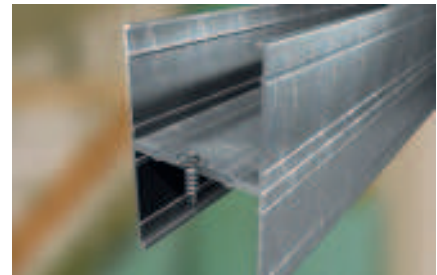
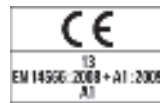
- **Material:** Steel
- **Coating:** blue zinc plated
- **Drive:** Cross drive PH
- **Screw head:** Mushroom head
- **Suitability:** Thick metal profiles up to 0,9 mm without pre-drilling
- **Suitability:** Thick metal profiles up to 0,7 mm without pre-drilling
- **Specially:** collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
4.2	13	13	9.6	PH 2	040456	1.000	8.000			40 0620 9404 560

FPS-FPB ZPF

- **Material:** Steel
- **Coating:** blue zinc plated
- **Drive:** Cross drive PH
- **Screw head:** Mushroom head
- **Suitability:** Thick metal profiles up to 2 mm without pre-drilling
- **Suitability:** Thick metal profiles up to 0,7 mm without pre-drilling
- **Specially:** collated, belt system for strip screws



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pcs]			
[mm]	[mm]	[mm]	[mm]							
4.2	13	13	9.6	PH 2	040457	1.000	8.000			40 0620 9404 577

Drywall screw

8



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Power-Fast assort- ment box, 245tlg

- **Material:** Steel
- **Coating:** yellow zinc plated
- **Screw head:** Countersunk head
- **Drive:** TX-Star recess



Set consisting of	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
			[pcs]	[pcs]			
3,5 x 16 per 50 piece, 3,5 x 30 per 30 piece, 4,0 x 30 per 50 piece, 4,0 x 35 per 40 piece, 4,0 x 40 per 30 piece, 4,5 x 50 per 25 piece, 5,0 x 60 per 20 piece, TX 10 Bit per 1 piece, TX 20 Bit per 1 piece	TX10 / TX20	667005	1	18			4048962100983

Terrace screw A2, box incl. bit

- **Material:** Stainless steel A2
- **Screw head:** Flat countersunk head
ø8,2, 90°
- **Drive:** TX-Star recess
- **Thread:** Partial thread
- **High performance wax**



Set consisting of	Drive	Art. No.	Sales unit	Outer carton			GTIN (EAN Code)
			[pcs]	[pcs]			
5,0 x 60 per 200 pieces, stainless steel TX 20 bit 1 piece	TX20	660613	200	2400			4048962115529

FPF-SZ YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Partial thread length lg [mm]	Head-Ø dk [mm]	Drive	Art. No.	Contents [pcs]	Sales unit [pack]			GTIN (EAN Code)
3.0	35	24	6.0	PZ1	653926	50	1			40 4896 2127 157
	40	24	6.0	PZ1	653927	25	1			40 4896 2127 164
3.5	35	24	7.0	PZ2	653935	50	1			40 4896 2127 249
	40	24	7.0	PZ2	653936	50	1			40 4896 2127 256
	45	30	7.0	PZ2	653937	25	1			40 4896 2127 263
	50	30	7.0	PZ2	653938	25	1			40 4896 2127 270
	40	24	8.0	PZ2	653946	25	1			40 4896 2127 355
4.0	40	24	8.0	PZ2	653947	50	1			40 4896 2127 362
	45	30	8.0	PZ2	653948	30	1			40 4896 2127 379
	50	30	8.0	PZ2	653949	30	1			40 4896 2127 386
	60	36	8.0	PZ2	653950	10	1			40 4896 2127 393
	70	42	8.0	PZ2	653951	10	1			40 4896 2127 409
4.5	35	24	9.0	PZ2	653956	30	1			40 4896 2127 454
	40	24	9.0	PZ2	653957	30	1			40 4896 2127 461
	45	30	9.0	PZ2	653958	30	1			40 4896 2127 478
	50	30	9.0	PZ2	653959	30	1			40 4896 2127 485
	60	36	9.0	PZ2	653960	30	1			40 4896 2127 492
	70	42	9.0	PZ2	653961	20	1			40 4896 2127 508
	80	50	9.0	PZ2	653962	20	1			40 4896 2127 515
5.0	40	24	10.0	PZ2	653967	20	1			40 4896 2127 560
	45	30	10.0	PZ2	653968	20	1			40 4896 2127 577
	50	30	10.0	PZ2	653969	20	1			40 4896 2127 584
	60	36	10.0	PZ2	653970	10	1			40 4896 2127 591
	70	42	10.0	PZ2	653971	10	1			40 4896 2127 607
	80	50	10.0	PZ2	653972	10	1			40 4896 2127 614
	90	60	10.0	PZ2	653973	10	1			40 4896 2127 621
	100	60	10.0	PZ2	653974	10	1			40 4896 2127 638
	120	70	10.0	PZ2	653975	10	1			40 4896 2127 645
6.0	40	24	12.0	PZ3	653976	10	1			40 4896 2127 652
	50	30	12.0	PZ3	653977	10	1			40 4896 2127 669
	60	36	12.0	PZ3	653978	10	1			40 4896 2127 676

FPF-SZ YZP

- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Contents	Sales unit			GTIN (EAN Code)
d [mm]	l [mm]	lg [mm]	dk [mm]			[pcs]	[pack]			
6.0	70	42	12.0	PZ3	653979	10	1			40 4896 2127 683
	80	50	12.0	PZ3	653980	10	1			40 4896 2127 690
	100	60	12.0	PZ3	653981	10	1			40 4896 2127 706
	120	70	12.0	PZ3	653982	10	1			40 4896 2127 713
	140	70	12.0	PZ3	653983	5	1			40 4896 2127 720
	160	70	12.0	PZ3	653984	5	1			40 4896 2127 737
	180	70	12.0	PZ3	653985	5	1			40 4896 2127 744

FPF-SZ YZF

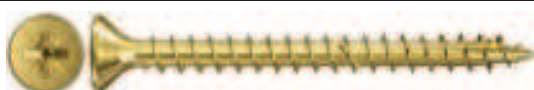
- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Full thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Art. No.	Contents [pcs]	Sales unit [pack]			GTIN (EAN Code)
2.0	12	6	4.0	PZ1	653915	50	1			40 4896 2127 041
	16	12	4.0	PZ1	653916	50	1			40 4896 2127 058
2.5	12	6	5.0	PZ1	653917	50	1			40 4896 2127 065
	16	12	5.0	PZ1	653918	50	1			40 4896 2127 072
	20	15	5.0	PZ1	653919	50	1			40 4896 2127 089
3.0	12	6	6.0	PZ1	653920	50	1			40 4896 2127 096
	16	12	6.0	PZ1	653921	50	1			40 4896 2127 102
	16	12	6.0	PZ1	653922	100	1			40 4896 2127 119
	20	15	6.0	PZ1	653923	50	1			40 4896 2127 126
	25	20	6.0	PZ1	653924	50	1			40 4896 2127 133
	30	25	6.0	PZ1	653925	50	1			40 4896 2127 140
3.5	12	6	7.0	PZ2	653928	50	1			40 4896 2127 171
	16	12	7.0	PZ2	653929	50	1			40 4896 2127 188
	16	12	7.0	PZ2	653930	100	1			40 4896 2127 195
	20	15	7.0	PZ2	653931	50	1			40 4896 2127 201
	20	15	7.0	PZ2	653932	100	1			40 4896 2127 218
	25	20	7.0	PZ2	653933	50	1			40 4896 2127 225
	30	25	7.0	PZ2	653934	50	1			40 4896 2127 232
4.0	12	6	8.0	PZ2	653939	50	1			40 4896 2127 287
	16	12	8.0	PZ2	653940	50	1			40 4896 2127 294
	16	12	8.0	PZ2	653941	100	1			40 4896 2127 300
	20	15	8.0	PZ2	653942	50	1			40 4896 2127 317
	25	20	8.0	PZ2	653943	50	1			40 4896 2127 324
	30	25	8.0	PZ2	653944	25	1			40 4896 2127 331
	35	30	8.0	PZ2	653945	50	1			40 4896 2127 348
4.5	16	12	9.0	PZ2	653952	30	1			40 4896 2127 416
	20	15	9.0	PZ2	653953	30	1			40 4896 2127 423
	25	20	9.0	PZ2	653954	30	1			40 4896 2127 430
	30	25	9.0	PZ2	653955	30	1			40 4896 2127 447
5.0	20	15	10.0	PZ2	653963	20	1			40 4896 2127 522
	25	20	10.0	PZ2	653964	20	1			40 4896 2127 539

FPF-SZ YZF

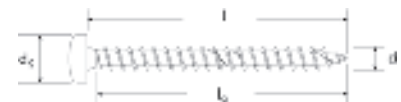
- Material: Steel
- Coating: yellow zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Contents	Sales unit			GTIN (EAN Code)
d [mm]	l [mm]	l _g [mm]	d _k [mm]			[pcs]	[pack]			
5.0	30	25	10.0	PZ2	653965	20	1			40 4896 2127 546
	35	30	10.0	PZ2	653966	20	1			40 4896 2127 553

FPF-PZ ZPF

- Material: Steel
- Coating: blue zinc plated
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Pan Head



Diameter d [mm]	Length l [mm]	Full thread length l _g [mm]	Head-Ø d _k [mm]	Drive 	Art. No.	Contents [pcs]	Sales unit [pack]			GTIN (EAN Code)
3.0	12	6	6.0	PZ1	652847	25	1			40 4896 2126 785
3.5	12	6	7.0	PZ2	652848	25	1			40 4896 2126 792
	16	12	7.0	PZ2	652849	25	1			40 4896 2126 808
	16	12	7.0	PZ2	652850	100	1			40 4896 2126 815
4.0	16	12	8.0	PZ2	652851	20	1			40 4896 2126 822
	25	20	8.0	PZ2	652853	25	1			40 4896 2126 846
4.5	16	12	9.0	PZ2	652855	25	1			40 4896 2126 860
5.0	16	12	10.0	PZ2	652856	25	1			40 4896 2126 877
	25	20	10.0	PZ2	652858	25	1			40 4896 2126 891
	40	35	10.0	PZ2	652860	15	1			40 4896 2126 914

FPF-SZ A2P

- Material: Stainless steel A2
- Drive: Cross drive PZ
- Thread: Partial thread
- Screw head: Countersunk head
- Screw head: Pan Head



Diameter	Length	Partial thread length	Head-Ø	Drive	Art. No.	Contents	Sales unit			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pack]			
4.0	35	24	8.0	PZ2	657463	25	1			40 4896 2126 969
	40	24	8.0	PZ2	657464	25	1			40 4896 2126 976
4.5	45	24	9.0	PZ2	657465	25	1			40 4896 2126 983
	45	30	9.0	PZ2	657466	25	1			40 4896 2126 990
	50	30	9.0	PZ2	657467	25	1			40 4896 2127 003
5.0	50	30	10.0	PZ2	657469	25	1			40 4896 2127 027
	60	36	10.0	PZ2	657470	25	1			40 4896 2127 034

FPF-SZ A2F

- Material: Stainless steel A2
- Drive: Cross drive PZ
- Thread: Full thread
- Screw head: Countersunk head
- Screw head: Pan Head



Diameter	Length	Full thread length	Head-Ø	Drive	Art. No.	Contents	Sales unit			GTIN (EAN Code)
d	l	l _g	d _k			[pcs]	[pack]			
3.5	16	12	7.0	PZ2	657459	25	1			40 4896 2126 921
	20	15	7.0	PZ2	657460	25	1			40 4896 2126 938
	25	20	7.0	PZ2	657461	25	1			40 4896 2126 945
4.0	30	25	8.0	PZ2	657462	25	1			40 4896 2126 952



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Your benefits:

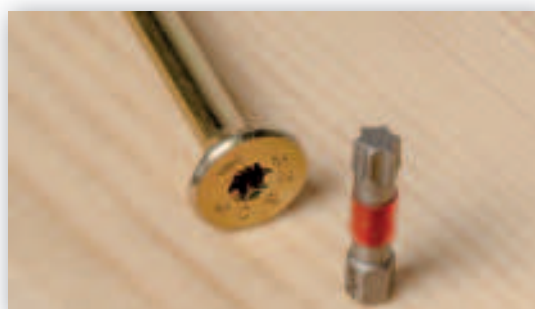
Bit range

- Significantly reduced extraction force due to diamond coating
- Very long life span
- Safe transmission of high torques



Maxx bit

- High performance
- Long life span



Profi bit

- With extremely high torque values



Diamond bit

- Diamond and sapphire grains for an extreme hold in the screw head



The strengths in detail

- Undamaged screw heads even with high torque thanks to special steel
- Diamond coating of the bit profile improves the force transmission
- Torsion zone reduces the risk of breaking in the case of extreme loads



A perfect fit with fischer bits

- High life span
- Optimum drive
- Ideal force transmission
- Clean results



What happens when you use the wrong tool

- Messy screw connections
- Damaged surfaces
- Risk of injury

The ultimate torsion bit



ADVANTAGES

- The ultimate solution for high torques. Ideal for use in high-performance drilling screwdrivers and impact wrenches
- Optimum profile geometry enhances unique performance and lifespan for challenging applications and users
- The elastic torsion zone through the tapered bit cross-section provides flexibility in the case of extreme loads. For energy-saving assembly and maximum profitability
- The high level of size accuracy facilitates the optimum hold. For clean working results and a long life
- Also available as a clear Bit Set with 8 parts, including bit holder

APPLICATIONS

Number of internal drives in various profile sizes, such as:

- TX star recess
- Suitable for 1/4" drives

FMB T Maxx Bit W 5

Type	Art.-No.	Length l [mm]	Drive	Contents [pcs]	Sales unit [pack]	GTIN (EAN Code)
FMB T10 Maxx Bit W 5	533154	29	TX10	5	1	40 4896 2221 558
FMB T15 Maxx Bit W 5	533155	29	TX15	5	1	40 4896 2221 565
FMB T20 Maxx Bit W 5	533156	29	TX20	5	1	40 4896 2221 572
FMB T25 Maxx Bit W 5	533157	29	TX25	5	1	40 4896 2221 589
FMB T30 Maxx Bit W 5	533158	29	TX30	5	1	40 4896 2221 596
FMB T40 Maxx Bit W 5	533159	29	TX40	5	1	40 4896 2221 602

The all-rounding bit within convincing quality



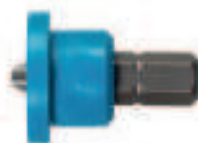
ADVANTAGES

- The bits „Made in Germany“ manufactured from special steel with high hardness degree are suitable for both hand driven and machine guided applications
- The perfect fitting inside screws ensures working with low-wear of the product and consequently long lifetime and clean working results
- The profile guarantees an ideal connection for an optimal power and torque transmission that prevents damages of the surface or the screw-heads
- Also available as clearly arranged bit-set with 11 or 31 pcs including bit-holder

APPLICATIONS

Number of internal drives in various profile sizes, such as:

- PH, PZ cross-slot
- TX star recess
- Suitable for 1/4" drives



FPB T PROFİ Bit W

FPB PZ PROFİ Bit W

FPB PH 2 DRYWALL W 1

Type	Art.-No.	Length l [mm]	Drive	Contents [pcs]	Sales unit [pack]	GTIN (EAN Code)
FPB T 10 PROFİ Bit W 2	533078	25	TX10	2	10	40 4896 2220 957
FPB T 15 PROFİ Bit W 2	533079	25	TX15	2	10	40 4896 2220 964
FPB T 20 PROFİ Bit W 2	533080	25	TX20	2	10	40 4896 2220 971
FPB T 25 PROFİ Bit W 2	533081	25	TX25	2	10	40 4896 2220 988
FPB T 27 PROFİ Bit W 2	533082	25	TX27	2	10	40 4896 2220 995
FPB T 30 PROFİ Bit W 2	533083	25	TX30	2	10	40 4896 2221 008
FPB T 40 PROFİ Bit W 2	533084	25	TX40	2	10	40 4896 2221 015
FPB T 50 PROFİ Bit W 1	533085	25	TX50	1	10	40 4896 2221 022
FPB PH 1 PROFİ Bit W 2	533086	25	PH1	2	10	40 4896 2221 039
FPB PH 2 PROFİ Bit W 2	533087	25	PH 2	2	10	40 4896 2221 046
FPB PH 2 DRYWALL W 1	533090	25	PH 2	1	10	40 4896 2221 053
FPB PH 3 PROFİ Bit W 2	533091	25	PH3	2	10	40 4896 2221 060
FPB PZ 1 PROFİ Bit W 2	533092	25	PZ1	2	10	40 4896 2221 077
FPB PZ 2 PROFİ Bit W 2	533095	25	PZ2	2	10	40 4896 2221 084
FPB PZ 3 PROFİ Bit W 2	533097	25	PZ3	2	10	40 4896 2221 091
FPB PZ 4 PROFİ Bit W 1	533099	32	PZ 4	1	10	40 4896 2221 107
FPB PH 2 50MM PROFİ Bit W 1	533105	50	PH 2	1	10	40 4896 2221 114
FPB PZ 2 50MM PROFİ Bit W 1	533109	50	PZ2	1	10	40 4896 2221 121



FPB T PROFi Bit W

FPB PZ PROFi Bit W

FPB PH 2 DRYWALL W 1

Type	Art.-No.	Length l [mm]	Drive	Contents [pcs]	Sales unit [pack]	GTIN (EAN Code)
FPB T 10 PROFi Bit W 10	533112	25	TX10	10	1	40 4896 2221 138
FPB T 15 PROFi Bit W 10	533113	25	TX15	10	1	40 4896 2221 145
FPB T 20 PROFi Bit W 10	533114	25	TX20	10	1	40 4896 2221 152
FPB T 25 PROFi Bit W 10	533115	25	TX25	10	1	40 4896 2221 169
FPB T 30 PROFi Bit W 10	533116	25	TX30	10	1	40 4896 2221 176
FPB T 40 PROFi Bit W 10	533117	25	TX40	10	1	40 4896 2221 183
FPB PH 1 PROFi Bit W 10	533118	25	PH1	10	1	40 4896 2221 190
FPB PH 2 PROFi Bit W 10	533119	25	PH 2	10	1	40 4896 2221 206
FPB PH 3 PROFi Bit W 10	533120	25	PH3	10	1	40 4896 2221 213
FPB PZ 1 PROFi Bit W 10	533121	25	PZ1	10	1	40 4896 2221 220
FPB PZ 2 PROFi Bit W 10	533122	25	PZ2	10	1	40 4896 2221 237
FPB PZ 3 PROFi Bit W 10	533123	25	PZ3	10	1	40 4896 2221 244

The non-slip bit



ADVANTAGES

- The coating with diamond-saphire-particles ensures the best possible power-transfer and prevents the bit tip from slipping out of the screw head
- The diamond-coated bit "Made in Germany" with a high hardness grade guarantees the greatest service life and corrosion resistance
- The torsion zones created by the tapered bit cross-section offers relief in the case of extreme loads. For a more effortless installation and maximum operating efficiency
- The high dimensional accuracy allows for an ideal fit. For clean results and a long life span

APPLICATIONS

Number of internal drives in various profile sizes, such as:

- PH, PZ cross-slot
- TX star recess
- Suitable for 1/4" drives

FDB T DIAMOND Bit W

FDB PZ DIAMOND Bit W

Type	Art.-No.	Length l [mm]	Drive	Contents [pcs]	Sales unit [pack]	GTIN (EAN Code)
FDB T 10 DIAMANT Bit W 2	533124	25	TX10	5	10	40 4896 2221 251
FDB T 15 DIAMANT Bit W 2	533125	25	TX15	2	10	40 4896 2221 268
FDB T 20 DIAMANT Bit W 2	533126	25	TX20	2	10	40 4896 2221 275
FDB T 25 DIAMANT Bit W 2	533127	25	TX25	2	10	40 4896 2221 282
FDB T 30 DIAMANT Bit W 2	533128	25	TX30	2	10	40 4896 2221 299
FDB T 40 DIAMANT Bit W 2	533129	25	TX40	2	10	40 4896 2221 305
FDB PH 1 DIAMANT Bit W 2	533130	25	PH1	2	10	40 4896 2221 312
FDB PH 2 DIAMANT Bit W 2	533131	25	PH 2	2	10	40 4896 2221 329
FDB PH 3 DIAMANT Bit W 2	533132	25	PH3	2	10	40 4896 2221 336
FDB PZ 1 DIAMANT Bit W 2	533133	25	PZ1	2	10	40 4896 2221 343
FDB PZ 2 DIAMANT Bit W 2	533134	25	PZ2	2	10	40 4896 2221 350
FDB PZ 3 DIAMANT Bit W 2	533135	25	PZ3	2	10	40 4896 2221 367
FDB T 10 DIAMANT Bit W 10	533136	25	TX10	10	1	40 4896 2221 374
FDB T 15 DIAMANT Bit W 10	533137	25	TX15	10	1	40 4896 2221 381
FDB T 20 DIAMANT Bit W 10	533138	25	TX20	10	1	40 4896 2221 398
FDB T 25 DIAMANT Bit W 10	533139	25	TX25	10	1	40 4896 2221 404
FDB T 30 DIAMANT Bit W 10	533140	25	TX30	10	1	40 4896 2221 411
FDB T 40 DIAMANT Bit W 10	533141	25	TX40	10	1	40 4896 2221 428
FDB PH 1 DIAMANT Bit W 10	533142	25	PH1	10	1	40 4896 2221 435
FDB PH 2 DIAMANT Bit W 10	533143	25	PH 2	10	1	40 4896 2221 442
FDB PH 3 DIAMANT Bit W 10	533144	25	PH3	10	1	40 4896 2221 459
FDB PZ 1 DIAMANT Bit W 10	533145	25	PZ1	10	1	40 4896 2221 466
FDB PZ 2 DIAMANT Bit W 10	533146	25	PZ2	10	1	40 4896 2221 473
FDB PZ 3 DIAMANT Bit W 10	533147	25	PZ3	10	1	40 4896 2221 480

The bit holder for rapid bit exchange



ADVANTAGES

- The bit holder family for 1/4" bits with magnetic insert hold the bit securely in the drill chuck and offers a smooth installation procedure
- Robust and slim bit holder for an easy bit exchange
- Ideal for direct machine connection or enlargement of the bits to reach difficult areas

APPLICATIONS

- The bit holders for use in cylinder drill chucks



FBH Bit Holder W 1

FBH Quick Bit Magnet W 1

FBH Quick Bit Slim W 1

Type	Art.-No.	Drive	Length l [mm]	Contents [pcs]	Sales unit [pack]	GTIN (EAN Code)
FBH Bit Holder W 1	533148	1/4"	50	1	1	40 4896 2221 497
FBH Quick Bit Magnet W 1	533149	1/4"	50	1	1	40 4896 2221 503
FBH Quick Bit Slim W 1	533150	1/4"	50	1	1	40 4896 2221 510

Practical Bit-Sets for a variety of applications

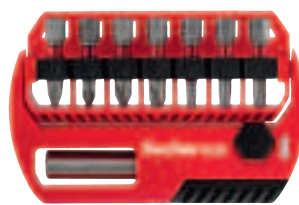
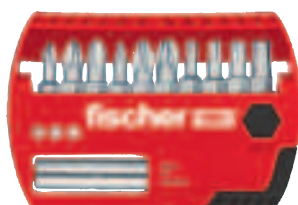


ADVANTAGES

- Secure and clear storage of the contents guarantee reliable use, day after day
- The robust and durable design fulfills even the toughest requirements
- The Bit Sets combine compact dimensions with simple use and include the most used bits and a bit holder

APPLICATIONS

- The ideal bit sets for quick and efficient working.
- For a high variation of applications



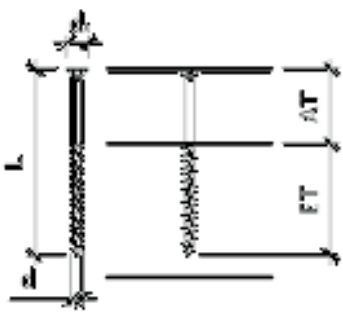
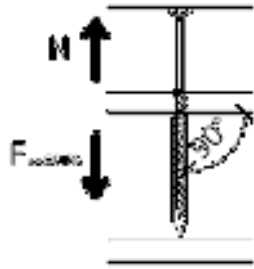
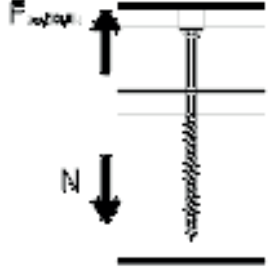
FPB Bit Set Profi W 31

FPB Bit Set Profi W 11

FMB Bit Set Maxx W 8

Type	Art.-No.	Contents	Sales unit [pcs]	GTIN (EAN Code)
FPB Bit Set W 31 Display	533151	10x FPB Bit Set Profi W 31	1	40 4896 2221 527
FPB Bit Set Profi W 31	533152	2x PZ1, 4x PZ2, 2x PZ 3, 2x PH1, 4x PH2, 2x PH 3, 1x TX8, 2x TX10, 1x TX15, 2x TX20, 2x TX25, 1x TX27, 1x TX30, 1x TX40, each 1x Slot 4,5; 5,5; 6,0, 1x Universal bit holder	1	40 4896 2221 534
FPB Bit Set Profi W 11	533153	je 1x PZ1, PZ3, 2x PZ2, each 1x TX10, TX15, TX20, TX25, TX30, TX40, 1x Universal bit holder	1	40 4896 2221 541
FMB Bit Set Maxx W 8	533160	each 1x TX10, TX15, TX20, TX25, TX30, TX40, 1x Universal bit holder	1	40 4896 2221 619

Load table for the Chipboard screw Power-Fast and the Wood construction screw Power-Fast

Dimensions					Characteristic / permissible pull-out resistance		Characteristic / permissible head pull-through resistance	
								
fischer Power-Fast screws					ETA-11/0027		ETA-11/0027	
					DIN EN 1995-1-1 + NA		DIN EN 1995-1-1 + NA	
					α_{AD} and $\alpha_{ET} = 90^\circ$			
d	l	d _k	AT	ET	F _{ax,90,Rk}	perm. F _{ax,90}	F _{ax,90,Rk}	perm. F _{ax,90}
[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
Countersunk head								
5.0 x 40	9.7	16 ¹⁾	24	1.46	0.72	0.75	0.37	
5.0 x 50	9.7	20 ¹⁾	30	1.83	0.90	1.13	0.56	
5.0 x 60	9.7	24	36	2.20	1.09	1.13	0.56	
5.0 x 70	9.7	28	42	2.56	1.27	1.13	0.56	
5.0 x 80	9.7	30	50	3.05	1.51	1.13	0.56	
5.0 x 90	9.7	30	60	3.66	1.81	1.13	0.56	
5.0 x 100	9.7	40	60	3.66	1.81	1.13	0.56	
5.0 x 110	9.7	40	70	4.27	2.11	1.13	0.56	
5.0 x 120	9.7	50	70	4.27	2.11	1.13	0.56	
6.0 x 40	11.6	16 ¹⁾	24	1.67	0.83	1.08	0.53	
6.0 x 50	11.6	20 ¹⁾	30	2.09	1.03	1.61	0.80	
6.0 x 60	11.6	24	36	2.51	1.24	1.61	0.80	
6.0 x 70	11.6	28	42	2.92	1.45	1.61	0.80	
6.0 x 80	11.6	30	50	3.48	1.72	1.61	0.80	
6.0 x 90	11.6	30	60	4.18	2.07	1.61	0.80	
6.0 x 100	11.6	40	60	4.18	2.07	1.61	0.80	
6.0 x 110	11.6	40	70	4.87	2.41	1.61	0.80	
6.0 x 120	11.6	50	70	4.87	2.41	1.61	0.80	
...	...	...	...	...	...	...	...	
6.0 x 300	11.6	230	70	4.87	2.41	1.61	0.80	
The same values apply to the screws 6.0 x 130 to 6.0 x 300 mm as to 6.0 x 120. Requirement: Fixture thickness AD = min. 50 mm. Minimum screw-in depth ET = min. 70 mm.								
8.0 x 80	14.8	30	50	4.00	1.98	2.63	1.30	
8.0 x 100	14.8	50	50	4.00	1.98	2.63	1.30	
8.0 x 120	14.8	45	75	6.00	2.97	2.63	1.30	
8.0 x 140	14.8	65	75	6.00	2.97	2.63	1.30	
8.0 x 160	14.8	85	75	6.00	2.97	2.63	1.30	
8.0 x 180	14.8	105	75	6.00	2.97	2.63	1.30	
8.0 x 200	14.8	100	100	8.00	3.96	2.63	1.30	
...	...	...	...	...	...	...	...	
8.0 x 400	14.8	300	100	8.00	3.96	2.63	1.30	
The same values apply to the screws 8.0 x 220 to 8.0 x 400 mm as to 8.0 x 200. Requirement: Fixture thickness AD = min. 100 mm. Minimum screw-in depth ET = min. 100 mm.								
Flange head								
8.0 x 80	21.0	30	50	4.00	1.98	5.29	2.62	
8.0 x 100	21.0	50	50	4.00	1.98	5.29	2.62	
8.0 x 120	21.0	45	75	6.00	2.97	5.29	2.62	
8.0 x 140	21.0	65	75	6.00	2.97	5.29	2.62	
8.0 x 160	21.0	85	75	6.00	2.97	5.29	2.62	
8.0 x 180	21.0	105	75	6.00	2.97	5.29	2.62	
8.0 x 200	21.0	100	100	8.00	3.96	5.29	2.62	
...	...	...	...	...	...	...	...	
8.0 x 400	21.0	300	100	8.00	3.96	5.29	2.62	
The same values apply to the screws 8.0 x 220 to 8.0 x 400 mm as to 8.0 x 200. Requirement: Fixture thickness AD = min. 100 mm. Minimum screw-in depth ET = min. 100 mm.								

¹⁾ Values and dimensions beyond the approval, as the minimum thickness of the timber components in accordance with the approval must be min. 24 mm for external thread diameters 5 and 6 mm, min. 30 mm for ø 8 mm and min. 40 mm for ø 10 mm.
In general:

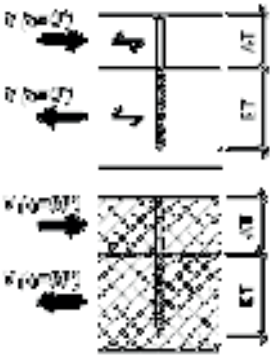
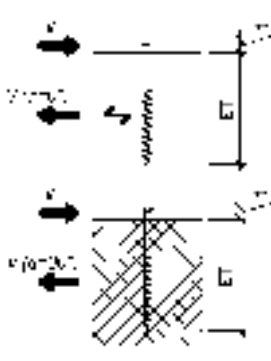
Loads only valid for single screws in line with ETA-11/0027 and DIN EN 1995-1-1 with NA.

In the case of groups of screws, reductions should be applied to the load-bearing capacity of each screw (n_{ef} in line with DIN EN 1995-1-1).

Projecting timber gross density: $\rho_k = 350 \text{ kg/m}^3$. Screw-in angle: 90° to the surface and thus the grain of the wood.

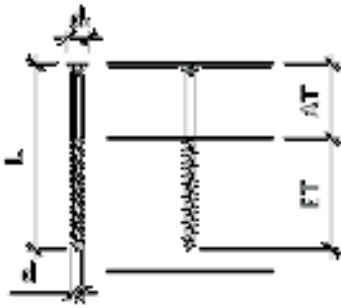
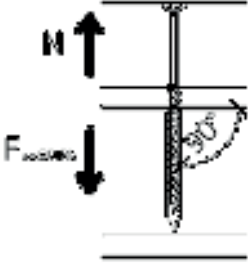
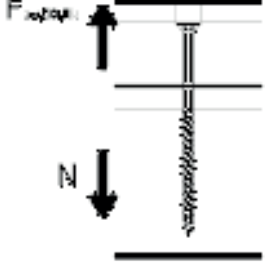
The values relating to the shear load resistance refer to zinc-plated screws. Minimum screw-in depth (ET) for load-bearing connections: Min. $h_{ef} = 4 \times d$.

Edge and axial spacing in line with DIN EN 1995-1-1 Table 8.2 for screw diameters 5 and 6 mm and Table 8.4 for screw diameters 8 and 10 mm.

Characteristic resistance of the shear load / permissible shear load in timber-timber connections								Characteristic resistance of the shear load / permissible shear load in steel-timber connections				
												
ETA-11/0027								ETA-11/0027				
DIN EN 1995-1-1 + NA								DIN EN 1995-1-1 + NA				
α_{AD} and $\alpha_{ET} = 0^\circ$		α_{AD} and $\alpha_{ET} = 90^\circ$		$\alpha_{AD} = 0^\circ$ and $\alpha_{ET} = 90^\circ$		$\alpha_{AD} = 90^\circ$ and $\alpha_{ET} = 0^\circ$			$\alpha_{ET} = 0^\circ$	$\alpha_{ET} = 90^\circ$	$\alpha_{ET} = 0^\circ$	$\alpha_{ET} = 90^\circ$
$F_{v,Rk,0-0}$	perm. $F_{v,0-0}$	$F_{v,Rk,90-90}$	perm. $F_{v,90-90}$	$F_{v,Rk,0-90}$	perm. $F_{v,0-90}$	$F_{v,Rk,90-0}$	perm. $F_{v,90-0}$	t_{St}	$F_{v,0,Rk}$	$F_{v,90,Rk}$	perm. $F_{v,0}$	perm. $F_{v,90}$
[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[mm]	[kN]	[kN]	[kN]	[kN]
0.95	0.47	0.95	0.47	0.95	0.47	0.95	0.47	2	0.85	0.85	0.42	0.42
1.18	0.58	1.18	0.58	1.18	0.58	1.18	0.58	2	1.06	1.06	0.53	0.53
1.27	0.63	1.27	0.63	1.27	0.63	1.27	0.63	2	1.28	1.28	0.63	0.63
1.36	0.67	1.36	0.67	1.36	0.67	1.36	0.67	2	1.46	1.46	0.72	0.72
1.41	0.70	1.41	0.70	1.41	0.70	1.41	0.70	2	1.46	1.46	0.72	0.72
1.41	0.70	1.41	0.70	1.41	0.70	1.41	0.70	2	1.46	1.46	0.72	0.72
1.46	0.72	1.46	0.72	1.46	0.72	1.46	0.72	2	1.46	1.46	0.72	0.72
1.46	0.72	1.46	0.72	1.46	0.72	1.46	0.72	2	1.46	1.46	0.72	0.72
1.46	0.72	1.46	0.72	1.46	0.72	1.46	0.72	2	1.46	1.46	0.72	0.72
1.13	0.56	1.13	0.56	1.13	0.56	1.13	0.56	3	0.97	0.97	0.48	0.48
1.48	0.73	1.48	0.73	1.48	0.73	1.48	0.73	3	1.21	1.21	0.60	0.60
1.62	0.80	1.62	0.80	1.62	0.80	1.62	0.80	3	1.45	1.45	0.72	0.72
1.72	0.85	1.72	0.85	1.72	0.85	1.72	0.85	3	1.69	1.69	0.84	0.84
1.77	0.88	1.77	0.88	1.77	0.88	1.77	0.88	3	1.99	1.99	0.99	0.99
1.77	0.88	1.77	0.88	1.77	0.88	1.77	0.88	3	1.99	1.99	0.99	0.99
1.99	0.99	1.99	0.99	1.99	0.99	1.99	0.99	3	1.99	1.99	0.99	0.99
1.99	0.99	1.99	0.99	1.99	0.99	1.99	0.99	3	1.99	1.99	0.99	0.99
1.99	0.99	1.99	0.99	1.99	0.99	1.99	0.99	3	1.99	1.99	0.99	0.99
...	...	...	...	...	...	...	...	...	...	...	...	...
1.99	0.99	1.99	0.99	1.99	0.99	1.99	0.99	3	1.99	1.99	0.99	0.99
3.53	1.75	2.80	1.39	3.31	1.64	2.95	1.46	4	4.00	2.87	1.98	1.42
4.00	1.98	3.42	1.69	3.67	1.81	3.67	1.81	4	4.00	2.87	1.98	1.42
4.00	1.98	3.37	1.66	3.67	1.81	3.54	1.75	4	4.00	3.42	1.98	1.69
4.00	1.98	3.42	1.69	3.67	1.81	3.67	1.81	4	4.00	3.42	1.98	1.69
4.00	1.98	3.42	1.69	3.67	1.81	3.67	1.81	4	4.00	3.42	1.98	1.69
4.00	1.98	3.42	1.69	3.67	1.81	3.67	1.81	4	4.00	3.42	1.98	1.69
4.00	1.98	3.42	1.69	3.67	1.81	3.67	1.81	4	4.00	3.42	1.98	1.69
4.00	1.98	3.42	1.69	3.67	1.81	3.67	1.81	4	4.00	3.42	1.98	1.69
...	...	...	...	...	...	...	...	...	...	...	...	...
4.00	1.98	3.42	1.69	3.67	1.81	3.67	1.81	4	4.00	3.42	1.98	1.69
3.87	1.91	3.14	1.55	3.65	1.81	3.29	1.63	4	4.22	2.87	2.09	1.42
4.35	2.15	3.76	1.86	4.01	1.98	4.01	1.98	4	4.22	2.87	2.09	1.42
4.67	2.31	4.03	1.99	4.34	2.14	4.21	2.08	4	4.67	4.08	2.31	2.02
4.67	2.31	4.08	2.02	4.34	2.14	4.34	2.14	4	4.67	4.08	2.31	2.02
4.67	2.31	4.08	2.02	4.34	2.14	4.34	2.14	4	4.67	4.08	2.31	2.02
4.67	2.31	4.08	2.02	4.34	2.14	4.34	2.14	4	4.67	4.08	2.31	2.02
4.67	2.31	4.08	2.02	4.34	2.14	4.34	2.14	4	4.67	4.08	2.31	2.02
4.67	2.31	4.08	2.02	4.34	2.14	4.34	2.14	4	4.67	4.08	2.31	2.02
...	...	...	...	...	...	...	...	...	...	...	...	...
4.67	2.31	4.08	2.02	4.34	2.14	4.34	2.14	4	4.67	4.08	2.31	2.02

The shear load resistance was measured in line with the exact procedure described in DIN EN 1995-1-1 Section 8.2.
 Shear load resistance values do not apply to pre-drilled holes. Higher shear load resistance values are possible with pre-drilled holes.
 In order to calculate the permissible load, $\gamma_M = 1.3$; $\gamma_{F,global} = 1.4$ and $k_{mod} = 0.9$ (e.g. KLED = short and NKL 2) was used.
 All mechanical values given are to be considered within the context of the assumptions taken and represent example calculations.
 All values given are subject to misprints and printing errors.
 Note: These figures are given solely to aid planning. Projects should always be calculated by structural engineers or support structure planners!

Load table for the Chipboard screw Power-Fast and the Wood construction screw Power-Fast

Dimensions					Characteristic / permissible pull-out resistance		Characteristic / permissible head pull-through resistance	
								
fischer Power-Fast screws					ETA-11/0027		ETA-11/0027	
					DIN EN 1995-1-1 + NA		DIN EN 1995-1-1 + NA	
					α_{AD} and $\alpha_{ET} = 90^\circ$			
d	l	d _k	AT	ET	F _{ax,90,Rk}	perm. F _{ax,90}	F _{ax,90,Rk}	perm. F _{ax,90}
[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
Countersunk head								
10.0 x 80		18.6	28 ¹⁾	52	5.20	2.57	4.15	2.05
10.0 x 100		18.6	48	52	5.20	2.57	4.15	2.05
10.0 x 120		18.6	40	80	8.00	3.96	4.15	2.05
10.0 x 140		18.6	60	80	8.00	3.96	4.15	2.05
10.0 x 160		18.6	80	80	8.00	3.96	4.15	2.05
10.0 x 180		18.6	80	100	10.00	4.95	4.15	2.05
10.0 x 200		18.6	100	100	10.00	4.95	4.15	2.05
10.0 x 220		18.6	120	100	10.00	4.95	4.15	2.05
10.0 x 240		18.6	140	100	10.00	4.95	4.15	2.05
10.0 x 260		18.6	160	100	10.00	4.95	4.15	2.05
10.0 x 280		18.6	165	115	11.50	5.69	4.15	2.05
...	...	...	...	...	...	...	...	...
10.0 x 400		18.6	285	115	11.50	5.69	4.15	2.05
The same values apply to the screws 10.0 x 300 to 10.0 x 400 mm as to 10.0 x 280. Requirement: Fixture thickness AD = min. 165 mm. Minimum screw-in depth ET = min. 115 mm.								
Flange head								
10.0 x 80		27.0	28 ¹⁾	52	5.20	2.57	7.29	3.60
10.0 x 100		27.0	48	52	5.20	2.57	7.29	3.60
10.0 x 120		27.0	40	80	8.00	3.96	7.29	3.60
10.0 x 140		27.0	60	80	8.00	3.96	7.29	3.60
10.0 x 160		27.0	80	80	8.00	3.96	7.29	3.60
10.0 x 180		27.0	80	100	10.00	4.95	7.29	3.60
10.0 x 200		27.0	100	100	10.00	4.95	7.29	3.60
10.0 x 220		27.0	120	100	10.00	4.95	7.29	3.60
10.0 x 240		27.0	140	100	10.00	4.95	7.29	3.60
10.0 x 260		27.0	160	100	10.00	4.95	7.29	3.60
10.0 x 280		27.0	165	115	11.50	5.69	7.29	3.60
...	...	...	...	...	...	...	...	...
10.0 x 400		27.0	285	115	11.50	5.69	7.29	3.60
The same values apply to the screws 10.0 x 300 to 10.0 x 400 mm as to 10.0 x 280. Requirement: Fixture thickness AD = min. 165 mm. Minimum screw-in depth ET = min. 115 mm.								

¹⁾ Values and dimensions beyond the approval, as the minimum thickness of the timber components in accordance with the approval must be min. 24 mm for external thread diameters 5 and 6 mm, min. 30 mm for ø 8 mm and min. 40 mm for ø 10 mm.

In general:

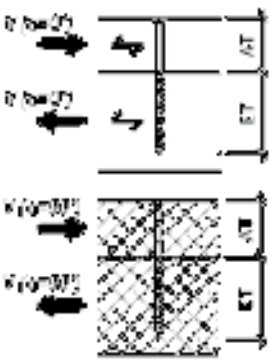
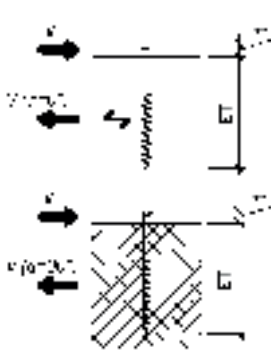
Loads only valid for single screws in line with ETA-11/0027 and DIN EN 1995-1-1 with NA.

In the case of groups of screws, reductions should be applied to the load-bearing capacity of each screw (n_{ef} in line with DIN EN 1995-1-1).

Projecting timber gross density: $\rho_k = 350 \text{ kg/m}^3$. Screw-in angle: 90° to the surface and thus the grain of the wood.

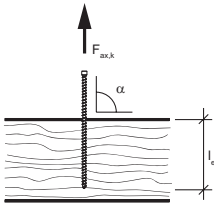
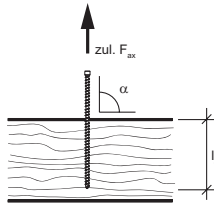
The values relating to the shear load resistance refer to zinc-plated screws. Minimum screw-in depth (ET) for load-bearing connections: Min. $h_{ef} = 4 \times d$.

Edge and axial spacing in line with DIN EN 1995-1-1 Table 8.2 for screw diameters 5 and 6 mm and Table 8.4 for screw diameters 8 and 10 mm.

Characteristic resistance of the shear load / permissible shear load in timber-timber connections								Characteristic resistance of the shear load / permissible shear load in steel-timber connections					
													
ETA-11/0027								ETA-11/0027					
DIN EN 1995-1-1 + NA								DIN EN 1995-1-1 + NA					
α_{AD} and $\alpha_{ET} = 0^\circ$		α_{AD} and $\alpha_{ET} = 90^\circ$		$\alpha_{AD} = 0^\circ$ and $\alpha_{ET} = 90^\circ$		$\alpha_{AD} = 90^\circ$ and $\alpha_{ET} = 0^\circ$			$\alpha_{ET} = 0^\circ$	$\alpha_{ET} = 90^\circ$	$\alpha_{ET} = 0^\circ$	$\alpha_{ET} = 90^\circ$	
$F_{v,Rk,0-0}$	perm. $F_{v,0-0}$	$F_{v,Rk,90-90}$	perm. $F_{v,90-90}$	$F_{v,Rk,0-90}$	perm. $F_{v,0-90}$	$F_{v,Rk,90-0}$	perm. $F_{v,90-0}$	t_{St}	$F_{v,0,Rk}$	$F_{v,90,Rk}$	perm. $F_{v,0}$	perm. $F_{v,90}$	
[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[mm]	[kN]	[kN]	[kN]	[kN]	
4.77	2.36	3.87	1.92	4.45	2.20	4.10	2.03	5	5.37	3.58	2.66	1.77	
5.99	2.96	4.61	2.28	5.12	2.53	4.92	2.43	5	5.37	3.58	2.66	1.77	
5.54	2.74	4.31	2.13	5.18	2.56	4.55	2.25	5	5.99	5.08	2.96	2.51	
5.99	2.96	5.08	2.51	5.46	2.70	5.46	2.70	5	5.99	5.08	2.96	2.51	
5.99	2.96	5.08	2.51	5.46	2.70	5.46	2.70	5	5.99	5.08	2.96	2.51	
5.99	2.96	5.08	2.51	5.46	2.70	5.46	2.70	5	5.99	5.08	2.96	2.51	
5.99	2.96	5.08	2.51	5.46	2.70	5.46	2.70	5	5.99	5.08	2.96	2.51	
5.99	2.96	5.08	2.51	5.46	2.70	5.46	2.70	5	5.99	5.08	2.96	2.51	
5.99	2.96	5.08	2.51	5.46	2.70	5.46	2.70	5	5.99	5.08	2.96	2.51	
5.99	2.96	5.08	2.51	5.46	2.70	5.46	2.70	5	5.99	5.08	2.96	2.51	
...	...	...	...	...	...	...	...	...	...	...	...	...	
5.99	2.96	5.08	2.51	5.46	2.70	5.46	2.70	5	5.99	5.08	2.96	2.51	
5.03	2.49	4.14	2.05	4.71	2.33	4.36	2.16	5	5.37	3.58	2.66	1.77	
6.25	3.09	4.87	2.41	5.38	2.66	5.18	2.56	5	5.37	3.58	2.66	1.77	
6.32	3.13	5.10	2.52	5.96	2.95	5.33	2.64	5	6.77	5.51	3.35	2.72	
6.77	3.35	5.86	2.90	6.25	3.09	6.25	3.09	5	6.77	5.51	3.35	2.72	
6.77	3.35	5.86	2.90	6.25	3.09	6.25	3.09	5	6.77	5.51	3.35	2.72	
6.77	3.35	5.86	2.90	6.25	3.09	6.25	3.09	5	6.77	5.86	3.35	2.90	
6.77	3.35	5.86	2.90	6.25	3.09	6.25	3.09	5	6.77	5.86	3.35	2.90	
6.77	3.35	5.86	2.90	6.25	3.09	6.25	3.09	5	6.77	5.86	3.35	2.90	
6.77	3.35	5.86	2.90	6.25	3.09	6.25	3.09	5	6.77	5.86	3.35	2.90	
6.77	3.35	5.86	2.90	6.25	3.09	6.25	3.09	5	6.77	5.86	3.35	2.90	
...	...	...	...	...	...	...	...	...	...	...	...	...	
6.77	3.35	5.86	2.90	6.25	3.09	6.25	3.09	5	6.77	5.86	3.35	2.90	

The shear load resistance was measured in line with the exact procedure described in DIN EN 1995-1-1 Section 8.2.
 Shear load resistance values do not apply to pre-drilled holes. Higher shear load resistance values are possible with pre-drilled holes.
 In order to calculate the permissible load, $\gamma_M = 1.3$; $\gamma_{F,global} = 1.4$ and $k_{mod} = 0.9$ (e.g. KLED = short and NKL 2) was used.
 All mechanical values given are to be considered within the context of the assumptions taken and represent example calculations.
 All values given are subject to misprints and printing errors.
 Note: These figures are given solely to aid planning. Projects should always be calculated by structural engineers or support structure planners!

Load table for the Full thread screw Power-Full

Characteristic value of the pull-out resistance $F_{ax,k}$ [kN] for														Permissible pull-out resistance perm. F_{ax} [kN] for													
Nominal screw diameter: d = 6.5 mm														Nominal screw diameter: d = 6.5 mm													
Characteristic screw tensile load capacity: $f_{tens,k} = 13.0$ kN Wood quality: C24 [-] Characteristic timber gross density: $\rho_k = 350$ kg/m ³ Number of screws per connection: n = 1 unit Thread extraction parameter: $f_{ax,k} = 9.0$ N/mm ²														Characteristic screw tensile load capacity: $f_{tens,k} = 13.0$ kN Wood quality: C24 [-] Characteristic timber gross density: $\rho_k = 350$ kg/m ³ Number of screws per connection: n = 1 unit Usage class: NKL: 2 [-] Class of load duration KLED: short [-] Modification factor: $k_{mod} = 0.9$ [-] Partial safety factor for resistance: $\gamma_M = 1.3$ [-] Partial safety factor for action: $\gamma_F = 1.4$ [-] Thread extraction parameter: $f_{ax,k} = 9.0$ N/mm ²													
																											
l_{ef}	Screw-in angle α [°] to the grain of the wood													l_{ef}	Screw-in angle α [°] to the grain of the wood												
[mm]	90	85	80	75	70	65	60	55	50	45	40	35	30	[mm]	90	85	80	75	70	65	60	55	50	45	40	35	30
26	1.52	1.52	1.51	1.50	1.49	1.47	1.45	1.43	1.40	1.38	1.36	1.34	1.32	26	0.75	0.75	0.75	0.74	0.73	0.73	0.72	0.71	0.69	0.68	0.67	0.66	0.65
30	1.76	1.75	1.74	1.73	1.71	1.69	1.67	1.65	1.62	1.60	1.57	1.55	1.53	30	0.87	0.87	0.86	0.86	0.85	0.84	0.83	0.81	0.80	0.79	0.78	0.77	0.75
35	2.05	2.04	2.04	2.02	2.00	1.98	1.95	1.92	1.89	1.86	1.83	1.81	1.78	35	1.01	1.01	1.01	1.00	0.99	0.98	0.96	0.95	0.94	0.92	0.91	0.89	0.88
40	2.34	2.34	2.33	2.31	2.29	2.26	2.23	2.20	2.16	2.13	2.09	2.06	2.03	40	1.16	1.16	1.15	1.14	1.13	1.12	1.10	1.09	1.07	1.05	1.04	1.02	1.01
45	2.63	2.63	2.62	2.60	2.57	2.54	2.51	2.47	2.43	2.39	2.36	2.32	2.29	45	1.30	1.30	1.29	1.28	1.27	1.26	1.24	1.22	1.20	1.18	1.17	1.15	1.13
50	2.93	2.92	2.91	2.89	2.86	2.82	2.79	2.74	2.70	2.66	2.62	2.58	2.54	50	1.45	1.44	1.44	1.43	1.41	1.40	1.38	1.36	1.34	1.31	1.29	1.28	1.26
55	3.22	3.21	3.20	3.17	3.14	3.11	3.06	3.02	2.97	2.93	2.88	2.84	2.80	55	1.59	1.59	1.58	1.57	1.55	1.54	1.52	1.49	1.47	1.45	1.42	1.40	1.38
60	3.51	3.50	3.49	3.46	3.43	3.39	3.34	3.29	3.24	3.19	3.14	3.09	3.05	60	1.74	1.73	1.73	1.71	1.70	1.68	1.65	1.63	1.60	1.58	1.55	1.53	1.51
65	3.80	3.80	3.78	3.75	3.72	3.67	3.62	3.57	3.51	3.46	3.40	3.35	3.31	65	1.88	1.88	1.87	1.86	1.84	1.82	1.79	1.76	1.74	1.71	1.68	1.66	1.64
70	4.10	4.09	4.07	4.04	4.00	3.95	3.90	3.84	3.78	3.72	3.66	3.61	3.56	70	2.03	2.02	2.01	2.00	1.98	1.96	1.93	1.90	1.87	1.84	1.81	1.79	1.76
75	4.39	4.38	4.36	4.33	4.29	4.24	4.18	4.12	4.05	3.99	3.93	3.87	3.82	75	2.17	2.17	2.16	2.14	2.12	2.09	2.07	2.04	2.00	1.97	1.94	1.91	1.89
80	4.68	4.67	4.65	4.62	4.57	4.52	4.46	4.39	4.32	4.25	4.19	4.13	4.07	80	2.31	2.31	2.30	2.28	2.26	2.23	2.20	2.17	2.14	2.10	2.07	2.04	2.01
85	4.97	4.96	4.94	4.91	4.86	4.80	4.74	4.67	4.59	4.52	4.45	4.38	4.32	85	2.46	2.46	2.44	2.43	2.40	2.37	2.34	2.31	2.27	2.24	2.20	2.17	2.14
90	5.27	5.26	5.23	5.20	5.14	5.08	5.01	4.94	4.86	4.79	4.71	4.64	4.58	90	2.60	2.60	2.59	2.57	2.54	2.51	2.48	2.44	2.40	2.37	2.33	2.30	2.26
95	5.56	5.55	5.52	5.48	5.43	5.37	5.29	5.21	5.13	5.05	4.97	4.90	4.83	95	2.75	2.74	2.73	2.71	2.69	2.65	2.62	2.58	2.54	2.50	2.46	2.42	2.39
100	5.85	5.84	5.81	5.77	5.72	5.65	5.57	5.49	5.40	5.32	5.24	5.16	5.09	100	2.89	2.89	2.88	2.85	2.83	2.79	2.76	2.71	2.67	2.63	2.59	2.55	2.52

Max. screw length: $l = 195$ mm; head height $h_1 = 5.5$ mm; tip length $l_t = 7$ mm; eff. Thread length $l_{ef} = 182$ mm
 Available screw lengths: 120, 140, 160, 195 mm

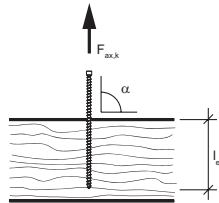
All mechanical values given are to be considered within the context of the assumptions taken and represent example calculations.
 Note: These figures are given solely to aid planning. Projects should always be calculated by structural engineers or support structure planners!
 All values given are subject to misprints and printing errors.

Loads only valid for single screws in line with ETA-12/0073 and DIN EN 1995-1-1 with NA.

Characteristic value of the pull-out resistance $F_{ax,k}$ [kN] for

Nominal screw diameter: $d = 8.0$ mm

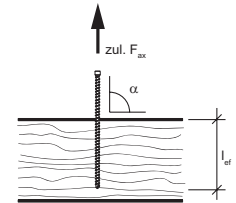
Characteristic screw tensile load capacity: $f_{tens,k} = 20.0$ kN
Wood quality: C24 [-]
Characteristic timber gross density: $\rho_k = 350$ kg/m³
Number of screws per connection: $n = 1$ unit
Thread extraction parameter: $f_{ax,k} = 9.0$ N/mm²



Permissible pull-out resistance perm. F_{ax} [kN] for

nominal screw diameter: $d = 8.0$ mm

Characteristic screw tensile load capacity: $f_{tens,k} = 20.0$ kN
Wood quality: C24 [-]
Characteristic timber gross density: $\rho_k = 350$ kg/m³
Number of screws per connection: $n = 1$ unit
Usage class: NK1: 2 [-]
Class of load duration KLED: short [-]
Modification factor: $k_{mod} = 0.9$ [-]
Partial safety factor for resistance: $\gamma_M = 1.3$ [-]
Partial safety factor for action: $\gamma_F = 1.4$ [-]
Thread extraction parameter: $f_{ax,k} = 9.0$ N/mm²



l_{ef}	Screw-in angle α [°] to the grain of the wood														l_{ef}	Screw-in angle α [°] to the grain of the wood											
[mm]	90	85	80	75	70	65	60	55	50	45	40	35	30	[mm]	90	85	80	75	70	65	60	55	50	45	40	35	30
35	2.30	2.30	2.29	2.27	2.25	2.22	2.19	2.16	2.13	2.09	2.06	2.03	2.00	32	1.14	1.14	1.13	1.12	1.11	1.10	1.09	1.07	1.05	1.04	1.02	1.00	0.99
40	2.52	2.52	2.50	2.49	2.46	2.43	2.40	2.36	2.33	2.29	2.26	2.22	2.19	35	1.25	1.24	1.24	1.23	1.22	1.20	1.19	1.17	1.15	1.13	1.12	1.10	1.08
45	2.88	2.88	2.86	2.84	2.81	2.78	2.74	2.70	2.66	2.62	2.58	2.54	2.50	40	1.42	1.42	1.42	1.41	1.39	1.38	1.36	1.34	1.32	1.29	1.27	1.26	1.24
50	3.24	3.24	3.22	3.20	3.17	3.13	3.09	3.04	2.99	2.95	2.90	2.86	2.82	45	1.60	1.60	1.59	1.58	1.57	1.55	1.53	1.50	1.48	1.46	1.43	1.41	1.39
55	3.60	3.59	3.58	3.55	3.52	3.48	3.43	3.38	3.33	3.27	3.22	3.17	3.13	50	1.78	1.78	1.77	1.76	1.74	1.72	1.70	1.67	1.64	1.62	1.59	1.57	1.55
60	3.96	3.95	3.94	3.91	3.87	3.82	3.77	3.72	3.66	3.60	3.54	3.49	3.44	55	1.96	1.96	1.95	1.93	1.91	1.89	1.86	1.84	1.81	1.78	1.75	1.73	1.70
65	4.32	4.31	4.29	4.26	4.22	4.17	4.11	4.05	3.99	3.93	3.87	3.81	3.76	60	2.14	2.13	2.12	2.11	2.09	2.06	2.03	2.00	1.97	1.94	1.91	1.88	1.86
70	4.68	4.67	4.65	4.62	4.57	4.52	4.46	4.39	4.32	4.25	4.19	4.13	4.07	65	2.31	2.31	2.30	2.28	2.26	2.23	2.20	2.17	2.14	2.10	2.07	2.04	2.01
75	5.04	5.03	5.01	4.97	4.92	4.87	4.80	4.73	4.66	4.58	4.51	4.44	4.38	70	2.49	2.49	2.48	2.46	2.44	2.41	2.37	2.34	2.30	2.27	2.23	2.20	2.17
80	5.40	5.39	5.37	5.33	5.28	5.21	5.14	5.07	4.99	4.91	4.83	4.76	4.70	75	2.67	2.67	2.65	2.64	2.61	2.58	2.54	2.51	2.47	2.43	2.39	2.35	2.32
85	5.76	5.75	5.73	5.68	5.63	5.56	5.49	5.40	5.32	5.24	5.15	5.08	5.01	80	2.85	2.84	2.83	2.81	2.78	2.75	2.71	2.67	2.63	2.59	2.55	2.51	2.48
90	6.12	6.11	6.08	6.04	5.98	5.91	5.83	5.74	5.65	5.56	5.48	5.40	5.32	85	3.03	3.02	3.01	2.99	2.96	2.92	2.88	2.84	2.80	2.75	2.71	2.67	2.63
95	6.48	6.47	6.44	6.39	6.33	6.26	6.17	6.08	5.99	5.89	5.80	5.71	5.63	90	3.20	3.20	3.19	3.16	3.13	3.09	3.05	3.01	2.96	2.91	2.87	2.83	2.79
100	6.84	6.83	6.80	6.75	6.68	6.60	6.51	6.42	6.32	6.22	6.12	6.03	5.95	95	3.38	3.38	3.36	3.34	3.31	3.27	3.22	3.17	3.12	3.07	3.03	2.98	2.94
105	7.20	7.19	7.16	7.10	7.04	6.95	6.86	6.76	6.65	6.55	6.44	6.35	6.26	100	3.56	3.56	3.54	3.51	3.48	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.10
110	7.56	7.55	7.51	7.46	7.39	7.30	7.20	7.09	6.98	6.87	6.77	6.67	6.57	105	3.74	3.73	3.72	3.69	3.65	3.61	3.56	3.51	3.45	3.40	3.35	3.30	3.25
115	7.92	7.91	7.87	7.82	7.74	7.65	7.54	7.43	7.32	7.20	7.09	6.98	6.89	110	3.92	3.91	3.89	3.86	3.83	3.78	3.73	3.67	3.62	3.56	3.51	3.45	3.41
120	8.28	8.27	8.23	8.17	8.09	7.99	7.89	7.77	7.65	7.53	7.41	7.30	7.20	115	4.09	4.09	4.07	4.04	4.00	3.95	3.90	3.84	3.78	3.72	3.66	3.61	3.56
125	8.64	8.63	8.59	8.53	8.44	8.34	8.23	8.11	7.98	7.85	7.73	7.62	7.51	120	4.27	4.27	4.25	4.22	4.17	4.13	4.07	4.01	3.95	3.88	3.82	3.77	3.72
130	9.00	8.99	8.95	8.88	8.79	8.69	8.57	8.44	8.31	8.18	8.05	7.94	7.83	125	4.45	4.44	4.42	4.39	4.35	4.30	4.24	4.18	4.11	4.05	3.98	3.92	3.87
135	9.36	9.35	9.30	9.24	9.15	9.04	8.91	8.78	8.65	8.51	8.38	8.25	8.14	130	4.63	4.62	4.60	4.57	4.52	4.47	4.41	4.34	4.28	4.21	4.14	4.08	4.02
140	9.72	9.71	9.66	9.59	9.50	9.38	9.26	9.12	8.98	8.84	8.70	8.57	8.45	135	4.81	4.80	4.78	4.74	4.70	4.64	4.58	4.51	4.44	4.37	4.30	4.24	4.18
145	10.08	10.06	10.02	9.95	9.85	9.73	9.60	9.46	9.31	9.16	9.02	8.89	8.77	140	4.98	4.98	4.95	4.92	4.87	4.81	4.75	4.68	4.60	4.53	4.46	4.39	4.33
150	10.44	10.42	10.38	10.30	10.20	10.08	9.94	9.80	9.64	9.49	9.34	9.20	9.08	145	5.16	5.15	5.13	5.09	5.04	4.98	4.92	4.84	4.77	4.69	4.62	4.55	4.49
155	10.80	10.78	10.74	10.66	10.55	10.43	10.29	10.13	9.98	9.82	9.67	9.52	9.39	150	5.34	5.33	5.31	5.27	5.22	5.16	5.09	5.01	4.93	4.86	4.78	4.71	4.64
160	11.16	11.14	11.09	11.01	10.90	10.78	10.63	10.47	10.31	10.15	9.99	9.84	9.70	155	5.52	5.51	5.49	5.45	5.39	5.33	5.26	5.18	5.10	5.02	4.94	4.87	4.80
165	11.52	11.50	11.45	11.37	11.26	11.12	10.97	10.81	10.64	10.47	10.31	10.16	10.02	160	5.70	5.69	5.66	5.62	5.57	5.50	5.43	5.35	5.26	5.18	5.10	5.02	4.95
170	11.88	11.86	11.81	11.72	11.61	11.47	11.31	11.15	10.97	10.80	10.63	10.47	10.33	165	5.87	5.87	5.84	5.80	5.74	5.67	5.59	5.51	5.43	5.34	5.26	5.18	5.11
175	12.24	12.22	12.17	12.08	11.96	11.82	11.66	11.48	11.31	11.13	10.95	10.79	10.64	170	6.05	6.04	6.02	5.97	5.91	5.84	5.76	5.68	5.59	5.50	5.42	5.34	5.26
180	12.60	12.58	12.52	12.43	12.31	12.17	12.00	11.82	11.64	11.45	11.28	11.11	10.96	175	6.23	6.22	6.19	6.15	6.09	6.02	5.93	5.85	5.76	5.66	5.58	5.49	5.42
185	12.96	12.94	12.88	12.79	12.66	12.51	12.34	12.16	11.97	11.78	11.60	11.43	11.27	180	6.41	6.40	6.37	6.32	6.26	6.19	6.10	6.01	5.92	5.83	5.74	5.65	5.57
190	13.32	13.30	13.24	13.14	13.02	12.86	12.69	12.50	12.30	12.11	11.92	11.74	11.58	185	6.59	6.58	6.55	6.50	6.44	6.36	6.27	6.18	6.08	5.99	5.89	5.81	5.73
195	13.68	13.66	13.60	13.50	13.37	13.21	13.03	12.84	12.64	12.44	12.24	12.06	11.90	190	6.76	6.75	6.72	6.68	6.61	6.53	6.44	6.35	6.25	6.15	6.05	5.96	5.88
200	14.04	14.02	13.96	13.85	13.72	13.56	13.37	13.17	12.97	12.76	12.57	12.38	12.21	195	6.94	6.93	6.90	6.85	6.78	6.70	6.61	6.51	6.41	6.31	6.21	6.12	6.04
200	14.40	14.38	14.31	14.21	14.07	13.90	13.71	13.51	13.30	13.09	12.89	12.70	12.52	200	7.12	7.11	7.08	7.03	6.96	6.88	6.78	6.68	6.58	6.47	6.37	6.28	6.19

Max. screw length: $l = 400$ mm; head height $h_h = 7$ mm; tip length $l_t = 8$ mm; eff. Thread length $l_{ef} = 385$ mm

Available screw lengths: 155, 195, 220, 245, 295, 330, 375, 400 mm

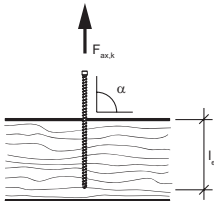
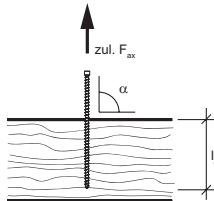
All mechanical values given are to be considered within the context of the assumptions taken and represent example calculations.

Note: These figures are given solely to aid planning. Projects should always be calculated by structural engineers or support structure planners!

All values given are subject to misprints and printing errors.

Loads only valid for single screws in line with ETA-12/0073 and DIN EN 1995-1-1 with NA.

Load table for the Full thread screw Power-Full

Characteristic value of the pull-out resistance $F_{ax,k}$ [kN] for														Permissible pull-out resistance perm. F_{ax} [kN] for													
Nominal screw diameter: d = 10.0 mm														Nominal screw diameter: d = 10.0 mm													
Characteristic screw tensile load capacity: $f_{tens,k}$ = 28.0 kN Wood quality: C24 [-] Characteristic timber gross density: ρ_k = 350 kg/m³ Number of screws per connection: n = 1 unit Thread extraction parameter: $f_{ax,k}$ = 9.0 N/mm² 														Characteristic screw tensile load capacity: $f_{tens,k}$ = 28.0 kN Wood quality: C24 [-] Characteristic timber gross density: ρ_k = 350 kg/m³ Number of screws per connection: n = 1 unit Usage class: NKL: 2 [-] Class of load duration KLED: short [-] Modification factor: k_{mod} = 0.9 [-] Partial safety factor for resistance: γ_M = 1.3 [-] Partial safety factor for action: γ_F = 1.4 [-] Thread extraction parameter: $f_{ax,k}$ = 9.0 N/mm² 													
l_{ef}	Screw-in angle α [°] to the grain of the wood													l_{ef}	Screw-in angle α [°] to the grain of the wood												
[mm]	90	85	80	75	70	65	60	55	50	45	40	35	30	[mm]	90	85	80	75	70	65	60	55	50	45	40	35	30
40	3.60	3.59	3.58	3.55	3.52	3.48	3.43	3.38	3.33	3.27	3.22	3.17	3.13	40	1.78	1.78	1.77	1.76	1.74	1.72	1.70	1.67	1.64	1.62	1.59	1.57	1.55
45	4.05	4.04	4.03	4.00	3.96	3.91	3.86	3.80	3.74	3.68	3.62	3.57	3.52	45	2.00	2.00	1.99	1.98	1.96	1.93	1.91	1.88	1.85	1.82	1.79	1.77	1.74
50	4.50	4.49	4.47	4.44	4.40	4.34	4.29	4.22	4.16	4.09	4.03	3.97	3.91	50	2.23	2.22	2.21	2.20	2.17	2.15	2.12	2.09	2.06	2.02	1.99	1.96	1.94
55	4.95	4.94	4.92	4.88	4.84	4.78	4.71	4.64	4.57	4.50	4.43	4.36	4.30	55	2.45	2.44	2.43	2.42	2.39	2.36	2.33	2.30	2.26	2.23	2.19	2.16	2.13
60	5.40	5.39	5.37	5.33	5.28	5.21	5.14	5.07	4.99	4.91	4.83	4.76	4.70	60	2.67	2.67	2.65	2.64	2.61	2.58	2.54	2.51	2.47	2.43	2.39	2.35	2.32
65	5.85	5.84	5.81	5.77	5.72	5.65	5.57	5.49	5.40	5.32	5.24	5.16	5.09	65	2.89	2.89	2.88	2.85	2.83	2.79	2.76	2.71	2.67	2.63	2.59	2.55	2.52
70	6.30	6.29	6.26	6.22	6.16	6.08	6.00	5.91	5.82	5.73	5.64	5.55	5.48	70	3.12	3.11	3.10	3.07	3.04	3.01	2.97	2.92	2.88	2.83	2.79	2.75	2.71
75	6.75	6.74	6.71	6.66	6.60	6.52	6.43	6.33	6.23	6.14	6.04	5.95	5.87	75	3.34	3.33	3.32	3.29	3.26	3.22	3.18	3.13	3.08	3.03	2.99	2.94	2.90
80	7.20	7.19	7.16	7.10	7.04	6.95	6.86	6.76	6.65	6.55	6.44	6.35	6.26	80	3.56	3.56	3.54	3.51	3.48	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.10
85	7.65	7.64	7.60	7.55	7.48	7.39	7.29	7.18	7.07	6.95	6.85	6.74	6.65	85	3.78	3.78	3.76	3.73	3.70	3.65	3.60	3.55	3.49	3.44	3.39	3.34	3.29
90	8.10	8.09	8.05	7.99	7.91	7.82	7.71	7.60	7.48	7.36	7.25	7.14	7.04	90	4.01	4.00	3.98	3.95	3.91	3.87	3.81	3.76	3.70	3.64	3.58	3.53	3.48
95	8.55	8.54	8.50	8.44	8.35	8.26	8.14	8.02	7.90	7.77	7.65	7.54	7.43	95	4.23	4.22	4.20	4.17	4.13	4.08	4.03	3.97	3.91	3.84	3.78	3.73	3.68
100	9.00	8.99	8.95	8.88	8.79	8.69	8.57	8.44	8.31	8.18	8.05	7.94	7.83	100	4.45	4.44	4.42	4.39	4.35	4.30	4.24	4.18	4.11	4.05	3.98	3.92	3.87
105	9.45	9.44	9.39	9.33	9.23	9.12	9.00	8.87	8.73	8.59	8.46	8.33	8.22	105	4.67	4.67	4.65	4.61	4.57	4.51	4.45	4.38	4.32	4.25	4.18	4.12	4.06
110	9.90	9.88	9.84	9.77	9.67	9.56	9.43	9.29	9.14	9.00	8.86	8.73	8.61	110	4.90	4.89	4.87	4.83	4.78	4.73	4.66	4.59	4.52	4.45	4.38	4.32	4.26
115	10.35	10.33	10.29	10.21	10.11	9.99	9.86	9.71	9.56	9.41	9.26	9.13	9.00	115	5.12	5.11	5.09	5.05	5.00	4.94	4.87	4.80	4.73	4.65	4.58	4.51	4.45
120	10.80	10.78	10.74	10.66	10.55	10.43	10.29	10.13	9.98	9.82	9.67	9.52	9.39	120	5.34	5.33	5.31	5.27	5.22	5.16	5.09	5.01	4.93	4.86	4.78	4.71	4.64
125	11.25	11.23	11.18	11.10	10.99	10.86	10.71	10.56	10.39	10.23	10.07	9.92	9.78	125	5.56	5.55	5.53	5.49	5.44	5.37	5.30	5.22	5.14	5.06	4.98	4.90	4.84
130	11.70	11.68	11.63	11.55	11.43	11.30	11.14	10.98	10.81	10.64	10.47	10.32	10.17	130	5.79	5.78	5.75	5.71	5.65	5.59	5.51	5.43	5.34	5.26	5.18	5.10	5.03
135	12.15	12.13	12.08	11.99	11.87	11.73	11.57	11.40	11.22	11.05	10.87	10.71	10.57	135	6.01	6.00	5.97	5.93	5.87	5.80	5.72	5.64	5.55	5.46	5.38	5.30	5.22
140	12.60	12.58	12.52	12.43	12.31	12.17	12.00	11.82	11.64	11.45	11.28	11.11	10.96	140	6.23	6.22	6.19	6.15	6.09	6.02	5.93	5.85	5.76	5.66	5.58	5.49	5.42
145	13.05	13.03	12.97	12.88	12.75	12.60	12.43	12.24	12.05	11.86	11.68	11.51	11.35	145	6.45	6.44	6.41	6.37	6.31	6.23	6.15	6.05	5.96	5.87	5.78	5.69	5.61
150	13.50	13.48	13.42	13.32	13.19	13.03	12.86	12.67	12.47	12.27	12.08	11.90	11.74	150	6.68	6.67	6.64	6.59	6.52	6.45	6.36	6.26	6.17	6.07	5.97	5.89	5.81
155	13.95	13.93	13.87	13.77	13.63	13.47	13.29	13.09	12.89	12.68	12.48	12.30	12.13	155	6.90	6.89	6.86	6.81	6.74	6.66	6.57	6.47	6.37	6.27	6.17	6.08	6.00
160	14.40	14.38	14.31	14.21	14.07	13.90	13.71	13.51	13.30	13.09	12.89	12.70	12.52	160	7.12	7.11	7.08	7.03	6.96	6.88	6.78	6.68	6.58	6.47	6.37	6.28	6.19
165	14.85	14.83	14.76	14.65	14.51	14.34	14.14	13.93	13.72	13.50	13.29	13.09	12.91	165	7.34	7.33	7.30	7.25	7.18	7.09	6.99	6.89	6.78	6.68	6.57	6.47	6.39
170	15.30	15.28	15.21	15.10	14.95	14.77	14.57	14.36	14.13	13.91	13.69	13.49	13.30	170	7.57	7.55	7.52	7.47	7.39	7.30	7.21	7.10	6.99	6.88	6.77	6.67	6.58
175	15.75	15.73	15.66	15.54	15.39	15.21	15.00	14.78	14.55	14.32	14.10	13.89	13.70	175	7.79	7.78	7.74	7.69	7.61	7.52	7.42	7.31	7.19	7.08	6.97	6.87	6.77
180	16.20	16.18	16.10	15.99	15.83	15.64	15.43	15.20	14.96	14.73	14.50	14.28	14.09	180	8.01	8.00	7.96	7.91	7.83	7.73	7.63	7.52	7.40	7.28	7.17	7.06	6.97
185	16.65	16.62	16.55	16.43	16.27	16.08	15.86	15.62	15.38	15.14	14.90	14.68	14.48	185	8.23	8.22	8.18	8.12	8.05	7.95	7.84	7.73	7.61	7.49	7.37	7.26	7.16
190	17.10	17.07	17.00	16.87	16.71	16.51	16.29	16.04	15.79	15.55	15.30	15.08	14.87	190	8.46	8.44	8.41	8.34	8.26	8.16	8.05	7.93	7.81	7.69	7.57	7.46	7.35
195	17.55	17.52	17.44	17.32	17.15	16.94	16.71	16.47	16.21	15.95	15.71	15.47	15.26	195	8.68	8.67	8.63	8.56	8.48	8.38	8.27	8.14	8.02	7.89	7.77	7.65	7.55
200	18.00	17.97	17.89	17.76	17.59	17.38	17.14	16.89	16.63	16.36	16.11	15.87	15.65	200	8.90	8.89	8.85	8.78	8.70	8.59	8.48	8.35	8.22	8.09	7.97	7.85	7.74
205	18.45	18.42	18.34	18.21	18.03	17.81	17.57	17.31	17.04	16.77	16.51	16.27	16.04	205	9.12	9.11	9.07	9.00	8.92	8.81	8.69	8.56	8.43	8.29	8.17	8.04	7.93
210	18.90	18.87	18.79	18.65	18.47	18.25	18.00	17.73	17.46	17.18	16.91	16.66	16.43	210	9.35	9.33	9.29	9.22	9.13	9.02	8.90	8.77	8.63	8.50	8.36	8.24	8.13
215	19.35	19.32	19.23	19.09	18.91	18.68	18.43	18.16	17.87	17.59	17.32	17.06	16.83	215	9.57	9.55	9.51	9.44	9.35	9.24	9.11	8.98	8.84	8.70	8.56	8.44	8.32
220	19.80	19.77	19.68	19.54	19.35	19.12	18.86	18.58	18.29	18.00	17.72	17.46	17.22	220	9.79	9.78	9.73	9.66	9.57	9.45	9.32	9.19	9.04	8.90	8.76	8.63	8.51
225	20.25	20.22	20.13	19.98	19.79	19.55	19.29	19.00	18.70	18.41	18.12	17.85	17.61</														



WOOD – FIX the new screw software



Wood Fix is a module from the fischer calculation software FIXPERIENCE.

It provides planners, structural engineers and tradesmen with secure and reliable support when it comes to the dimensioning of their projects.



Download FIXPERIENCE for free now from: www.fischer.de/fixperience



**WOOD-
FIX**



WOOD - FIX: secure and convenient calculations

- Calculations take place in line with the ETA approval and DIN EN 1995-1-1 (Eurocode EC5), including your choice of national application documents (NAD)
- Quick and easy to use, simply enter values into the Toolbox
- Secure and reliable: The program identifies incorrect entries in line with the geometric framework conditions
- Clear and flexible: Can be presented in 2D or 3D. Images can be rotated, swivelled, tilted and zoomed
- Always up-to-date thanks to the automatic or manual "Live Update" feature



WOOD - FIX: the application-based software

The software includes a range of different and newly expanded examples of day-to-day applications from the world of work. This means that you can work efficiently when dimensioning your projects with fischer screws.

Calculation of applications with fischer Power-Fast screws (Ø 3x12 – 10x400 mm) and fischer Power-Full screws (Ø 6.5x120 – 10x600 mm)

Examples for rafter insulation:

- Pent roof
- Pitched roof
- Hipped roof

Examples for timber construction:

- **NEW** General connections (timber/timber, steel sheet/timber)
- Main/sub-beam connections
- **NEW** Lateral pressure support reinforcement
- **NEW** Notches
- **NEW** Beam false edges
- **NEW** Beam head repairs
- **NEW** Openings
- Shear reinforcements
- **NEW** Tensile shearing connections

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www.nexmart.net

It is quick and easy to order fischer products with nexMart.

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Shop around the clock (24 hours a day, 365 days a year)

Immediate information about availability, delivery dates

Immediate confirmation of price and payment conditions

Tracking service



fischer delivery terms for standard parcels

Classic orders

Order placed

- through the sales team
- by telephone • by fax • by post

HANDLING FEES

- €12 for goods with net value under €50
- €6 for goods with net value over €50
- €5 for goods with net value over €250

Free delivery

for orders with net value over €400

Electronic orders

Order placed

- via nexMart (portal)
- via EDI

DISCOUNTED HANDLING FEES

- €12 for goods with net value under €50
- €5 for goods with net value over €50

Free delivery

for orders with net value over €150

Delivery



To a specialist retailer



or direct to your construction site



or direct to your workshop

fischer delivery terms for normal orders and express parcels*

Order placed		Mode of delivery	Delivery duration	Delivery costs
• by	• at			• Fixed price per parcel ¹
2 pm	fischer sales team	Standard parcel ²	1-2 working days	None
2 pm	fischer sales team	Express parcel ^{2,3}	Next working day by 9 am	59.90 €
			Next working day by 10:30 am	19.90 €
			Next working day by 12 noon	8.90 €
5:30 pm	Last minute hotline 07443 12-6060	Express parcel ^{2,3} Saturday delivery	Saturday by 12 noon	29.90 €
		Express parcel ^{2,3} Last minute	Next working day by 12 noon	8.90 €

* In addition to fischer delivery terms for standard parcels · 1) Up to 31.5 kg · 2) Valid in Germany, not including islands · 3) No delivery date given for hazardous material loads / long goods

Customer service

Concrete information.
From the experts for the experts.

Customer advisers in the office and in the sales force.

- Our 40+ customer advisers are always available to listen to your concerns and, upon receiving your call, will work personally to ensure that you are given the help you need.
- Over the phone or at your premises: We help you to choose the right products and show you the best and most economical solution.
- Logistics have to work properly when it comes to construction: That is why we deal with everything concerning availability and delivery, including delivery direct to the construction site.
- Thus all of the trends and innovations come to you. We explain precisely what it is you need to know in order to be up-to-date.

fischer specialist retail partners.

- fischer products are sold in Germany by over 5,000 specialist retailers. Lots of large DIY stores also sell quality fischer products.
- We strengthen the hand of the specialist retailers with long-term partnerships which include a number of training sessions.



Your point of contact for all sales enquiries

Hotline

Telephone

07443 12-6000

Hotline opening hours

Mon - Thurs 7:30 am – 5:30 pm

Fri 7:30 am – 5:00 pm

Fax

07443 12-8297

E-Mail verkaufsinendienst@fischer.de

Training, further training and advanced training sessions

The fischer ACADEMY: Concentrated expert solutions in fixing technology.

Fixing knowledge from the practice for the practice.

- Over the years, the fischer ACADEMY has established an expertise that is treasured by many industry partners. Each year, around 3,000 participants attend the training sessions provided by the institution.
- The range of topics is as comprehensive as the knowledge that is required within the construction world today: material selection, processing, execution, legal regulations, approvals, calculation methods and lots more.
- From screw fixings with approval and comparisons with conventional connections to statistical calculations with the WOOD-FIX calculation software – the fischer ACADEMY offers a broad range of topics and a great depth of knowledge.

A partner for trade: Competence Centres for fixing technology.

- This expertise is not just concentrated in Waldachtal. The fischer ACADEMY supports the transfer of knowledge to Chambers of Crafts and guilds with 71 Competence Centres. As such, fischer know-how goes directly where it is needed: into the courses run by vocational education centres and vocational schools.



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FPF-LZ 4,0 x 40 A2F 200	657341	126	FPF-PT 4,0 x 40 A2F 100	657371	125	FPF-PZ 3,5 x 30 ZPF 200	652584	88
FPF-LZ 4,0 x 40 YZF 500	653690	90	FPF-PT 4,0 x 40 ZPF 200	652772	85	FPF-PZ 3,5 x 35 ZPF 200	652588	88
FPF-LZ 4,0 x 40 ZPF 500	652529	91	FPF-PT 4,0 x 50 ZPF 200	652775	85	FPF-PZ 4,0 x 16 ZPF 20 B	652851	165

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FPF-PZ 4,0 x 20 ZPF 200	652596	88	FPF-ST 10,0 x 280 YZP 50	659218	101	FPF-ST 3,0 x 40 YZP 500	653428	55
FPF-PZ 4,0 x 25 ZPF 200	652600	88	FPF-ST 10,0 x 300 YZP 50	659219	101	FPF-ST 3,0 x 40 ZPP 200	652315	60
FPF-PZ 4,0 x 25 ZPF 25 B	652853	165	FPF-ST 10,0 x 320 YZP 50	659220	101	FPF-ST 3,0 x 40 ZPP 500	652316	60
FPF-PZ 4,0 x 30 ZPF 200	652604	88	FPF-ST 10,0 x 340 YZP 50	659221	101	FPF-ST 3,0 x 45 YZP 200	653431	55
FPF-PZ 4,0 x 35 ZPF 200	652608	88	FPF-ST 10,0 x 360 YZP 50	659222	101	FPF-ST 3,0 x 45 YZP 500	653432	55
FPF-PZ 4,0 x 40 ZPF 200	652612	88	FPF-ST 10,0 x 380 YZP 50	659223	101	FPF-ST 3,0 x 45 ZPP 200	652318	60
FPF-PZ 4,0 x 45 ZPF 200	652842	88	FPF-ST 10,0 x 400 YZP 50	659224	101	FPF-ST 3,0 x 45 ZPP 500	652319	60
FPF-PZ 4,0 x 50 ZPF 200	652616	88	FPF-ST 3,0 x 10 YZF 200	653393	58	FPF-ST 3,5 x 15 BZF 500	532808	97
FPF-PZ 4,5 x 16 ZPF 200	652619	88	FPF-ST 3,0 x 10 YZF 500	653394	58	FPF-ST 3,5 x 16 A2F 300	657014	122
FPF-PZ 4,5 x 16 ZPF 25 B	652855	165	FPF-ST 3,0 x 12 A2F 300	657002	122	FPF-ST 3,5 x 16 YZF 1000	653440	58
FPF-PZ 4,5 x 20 ZPF 200	652623	88	FPF-ST 3,0 x 12 YZF 1000	653398	58	FPF-ST 3,5 x 16 YZF 200	653438	58
FPF-PZ 4,5 x 25 ZPF 200	652627	88	FPF-ST 3,0 x 12 YZF 200	653396	58	FPF-ST 3,5 x 16 ZPF 1000	652323	63
FPF-PZ 4,5 x 30 ZPF 200	652631	88	FPF-ST 3,0 x 12 ZPF 200	652294	63	FPF-ST 3,5 x 16 ZPF 200	652321	63
FPF-PZ 4,5 x 35 ZPF 200	652635	88	FPF-ST 3,0 x 13 YZF 500	653399	58	FPF-ST 3,5 x 20 A2F 300	657016	122
FPF-PZ 4,5 x 40 ZPF 200	652639	88	FPF-ST 3,0 x 15 YZF 500	653400	58	FPF-ST 3,5 x 20 A4F 200	657272	124
FPF-PZ 4,5 x 45 ZPF 200	652843	88	FPF-ST 3,0 x 16 A2F 300	657004	122	FPF-ST 3,5 x 20 YZF 1000	653444	58
FPF-PZ 4,5 x 50 ZPF 200	652643	88	FPF-ST 3,0 x 16 A4F 200	657264	124	FPF-ST 3,5 x 20 YZF 200	653442	58
FPF-PZ 5,0 x 16 ZPF 200	652647	88	FPF-ST 3,0 x 16 YZF 1000	653404	58	FPF-ST 3,5 x 20 ZPF 1000	652326	63
FPF-PZ 5,0 x 16 ZPF 25 B	652856	165	FPF-ST 3,0 x 16 YZF 200	653402	58	FPF-ST 3,5 x 20 ZPF 200	652324	63
FPF-PZ 5,0 x 20 ZPF 200	652651	88	FPF-ST 3,0 x 16 ZPF 200	652296	63	FPF-ST 3,5 x 25 A2F 300	657018	122
FPF-PZ 5,0 x 25 ZPF 200	652655	88	FPF-ST 3,0 x 16 ZPF 500	652297	63	FPF-ST 3,5 x 25 BZF 200	669001	97
FPF-PZ 5,0 x 25 ZPF 25 B	652858	165	FPF-ST 3,0 x 20 A2F 300	657006	122	FPF-ST 3,5 x 25 BZF 500	532809	97
FPF-PZ 5,0 x 30 ZPF 200	652659	88	FPF-ST 3,0 x 20 A4F 200	657266	124	FPF-ST 3,5 x 25 YZF 1000	653448	58
FPF-PZ 5,0 x 35 ZPF 200	652844	88	FPF-ST 3,0 x 20 YZF 1000	653408	58	FPF-ST 3,5 x 25 YZF 200	653446	58
FPF-PZ 5,0 x 40 ZPF 100	652663	88	FPF-ST 3,0 x 20 YZF 200	653406	58	FPF-ST 3,5 x 25 YZP 1000	653450	55
FPF-PZ 5,0 x 40 ZPF 15 B	652860	165	FPF-ST 3,0 x 20 ZPF 200	652299	63	FPF-ST 3,5 x 25 YZP 300	653449	55
FPF-PZ 5,0 x 45 ZPF 200	652845	89	FPF-ST 3,0 x 20 ZPF 500	652300	63	FPF-ST 3,5 x 25 ZPF 1000	652329	63
FPF-PZ 5,0 x 50 ZPF 100	652667	89	FPF-ST 3,0 x 25 A2F 300	657008	122	FPF-ST 3,5 x 25 ZPF 200	652327	63
FPF-PZ 5,0 x 60 ZPF 100	652671	89	FPF-ST 3,0 x 25 A4F 200	657268	124	FPF-ST 3,5 x 30 A2F 200	657020	122
FPF-PZ 5,0 x 70 ZPF 100	652675	89	FPF-ST 3,0 x 25 YZF 1000	653412	58	FPF-ST 3,5 x 30 A4F 200	657274	124
FPF-PZ 5,0 x 80 ZPP 100	652678	87	FPF-ST 3,0 x 25 YZF 200	653410	58	FPF-ST 3,5 x 30 BZP 200	669002	95
FPF-PZ 6,0 x 100 ZPP 50	652698	87	FPF-ST 3,0 x 25 ZPF 200	652302	63	FPF-ST 3,5 x 30 YZF 200	653452	58
FPF-PZ 6,0 x 30 ZPF 200	652846	89	FPF-ST 3,0 x 25 ZPF 500	652303	63	FPF-ST 3,5 x 30 YZF 500	653453	58
FPF-PZ 6,0 x 40 ZPF 100	652682	89	FPF-ST 3,0 x 30 A2F 300	657010	122	FPF-ST 3,5 x 30 YZP 300	653455	55
FPF-PZ 6,0 x 50 ZPF 100	652686	89	FPF-ST 3,0 x 30 A4F 200	657270	124	FPF-ST 3,5 x 30 ZPF 1000	652332	63
FPF-PZ 6,0 x 60 ZPF 100	652690	89	FPF-ST 3,0 x 30 YZF 1000	653418	58	FPF-ST 3,5 x 30 ZPF 200	652330	63
FPF-PZ 6,0 x 70 ZPF 50	652693	89	FPF-ST 3,0 x 30 YZF 200	653416	58	FPF-ST 3,5 x 30 ZPP 200	652333	60
FPF-PZ 6,0 x 80 ZPP 50	652696	87	FPF-ST 3,0 x 30 ZPF 200	652305	63	FPF-ST 3,5 x 30 ZPP 500	652334	60
FPF-ST 10,0 x 120 YZP 50	659210	101	FPF-ST 3,0 x 30 ZPF 500	652306	63	FPF-ST 3,5 x 35 A2F 200	657022	122
FPF-ST 10,0 x 140 YZP 50	659211	101	FPF-ST 3,0 x 35 A2F 200	657012	122	FPF-ST 3,5 x 35 A2P 200	657024	121
FPF-ST 10,0 x 160 YZP 50	659212	101	FPF-ST 3,0 x 35 YZP 200	653423	55	FPF-ST 3,5 x 35 BZP 200	669003	95
FPF-ST 10,0 x 180 YZP 50	659213	101	FPF-ST 3,0 x 35 YZP 500	653424	55	FPF-ST 3,5 x 35 BZP 500	532810	95
FPF-ST 10,0 x 200 YZP 50	659214	101	FPF-ST 3,0 x 35 ZPF 1000	652312	63	FPF-ST 3,5 x 35 YZF 300	653457	58
FPF-ST 10,0 x 220 YZP 50	659215	101	FPF-ST 3,0 x 35 ZPF 200	652311	63	FPF-ST 3,5 x 35 YZP 1000	653462	55
FPF-ST 10,0 x 240 YZP 50	659216	101	FPF-ST 3,0 x 35 ZPP 200	652313	60	FPF-ST 3,5 x 35 YZP 200	653460	55

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FPF-ST 3,5 x 35 ZPF 200	652336	63	FPF-ST 4,0 x 30 ZPF 200	652365	63	FPF-ST 4,0 x 70 BZP 200	669015	95
FPF-ST 3,5 x 35 ZPP 200	652339	60	FPF-ST 4,0 x 35 A2F 200	657036	122	FPF-ST 4,0 x 70 YZP 200	653518	55
FPF-ST 3,5 x 35 ZPP 500	652340	60	FPF-ST 4,0 x 35 A4P 200	657280	123	FPF-ST 4,0 x 70 YZP 500	653519	55
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FPF-ST 3,5 x 40 BZP 200	669004	95	FPF-ST 4,0 x 35 YZF 200	653497	58	FPF-ST 4,5 x 16 YZF 200	653521	59
FPF-ST 3,5 x 40 YZF 300	653463	58	FPF-ST 4,0 x 35 YZF 500	653498	59	FPF-ST 4,5 x 20 BZF 200	669016	97
FPF-ST 3,5 x 40 YZP 1000	653468	55	FPF-ST 4,0 x 35 YZP 1000	653503	55	FPF-ST 4,5 x 20 YZF 200	653524	59
FPF-ST 3,5 x 40 YZP 200	653466	55	FPF-ST 4,0 x 35 YZP 200	653501	55	FPF-ST 4,5 x 25 BZF 200	669017	97
FPF-ST 3,5 x 40 ZPF 200	652342	63	FPF-ST 4,0 x 35 ZPF 200	652371	63	FPF-ST 4,5 x 25 YZF 200	653528	59
FPF-ST 3,5 x 40 ZPF 500	652343	63	FPF-ST 4,0 x 35 ZPF 500	652372	64	FPF-ST 4,5 x 25 YZF 500	653529	59
FPF-ST 3,5 x 40 ZPP 1000	652347	60	FPF-ST 4,0 x 35 ZPP 200	652374	60	FPF-ST 4,5 x 30 A2F 200	657048	122
FPF-ST 3,5 x 40 ZPP 200	652345	60	FPF-ST 4,0 x 35 ZPP 500	652375	60	FPF-ST 4,5 x 30 A4F 200	657287	124
FPF-ST 3,5 x 45 YZP 200	653470	55	FPF-ST 4,0 x 40 A2P 200	657040	121	FPF-ST 4,5 x 30 BZP 200	669018	95
FPF-ST 3,5 x 45 YZP 500	653471	55	FPF-ST 4,0 x 40 A4P 200	040562	123	FPF-ST 4,5 x 30 YZF 200	653532	59
FPF-ST 3,5 x 45 ZPF 200	652348	63	FPF-ST 4,0 x 40 BZP 200	669010	95	FPF-ST 4,5 x 30 YZF 500	653533	59
FPF-ST 3,5 x 45 ZPF 500	652349	63	FPF-ST 4,0 x 40 BZP 500	669011	95	FPF-ST 4,5 x 30 ZPF 200	652397	64
FPF-ST 3,5 x 45 ZPP 200	652351	60	FPF-ST 4,0 x 40 YZP 1000	653507	55	FPF-ST 4,5 x 30 ZPF 500	652398	64
FPF-ST 3,5 x 45 ZPP 500	652352	60	FPF-ST 4,0 x 40 YZP 200	653505	55	FPF-ST 4,5 x 35 A2F 200	657050	122
FPF-ST 3,5 x 50 BZP 200	669005	95	FPF-ST 4,0 x 40 ZPF 1000	652379	64	FPF-ST 4,5 x 35 A2P 200	657052	121
FPF-ST 3,5 x 50 YZP 200	653474	55	FPF-ST 4,0 x 40 ZPF 200	652377	64	FPF-ST 4,5 x 35 A4F 200	657289	124
FPF-ST 3,5 x 50 YZP 500	653475	55	FPF-ST 4,0 x 40 ZPP 1000	652382	60	FPF-ST 4,5 x 35 BZP 200	669019	95
FPF-ST 3,5 x 50 ZPP 500	652355	60	FPF-ST 4,0 x 40 ZPP 200	652380	60	FPF-ST 4,5 x 35 YZF 200	653536	59
FPF-ST 4,0 x 16 YZF 200	653477	58	FPF-ST 4,0 x 45 A2P 200	657042	121	FPF-ST 4,5 x 35 YZF 500	653537	59
FPF-ST 4,0 x 16 YZF 500	653478	58	FPF-ST 4,0 x 45 A4P 200	657283	123	FPF-ST 4,5 x 35 YZP 200	653539	55
FPF-ST 4,0 x 16 ZPF 200	652356	63	FPF-ST 4,0 x 45 BZP 200	669012	95	FPF-ST 4,5 x 35 YZP 500	653540	55
FPF-ST 4,0 x 20 A2F 200	657028	122	FPF-ST 4,0 x 45 YZP 200	653509	55	FPF-ST 4,5 x 35 ZPF 200	652403	64
FPF-ST 4,0 x 20 A4F 200	657276	124	FPF-ST 4,0 x 45 YZP 500	653510	55	FPF-ST 4,5 x 35 ZPF 500	652404	64
FPF-ST 4,0 x 20 BZF 200	669006	97	FPF-ST 4,0 x 45 ZPF 200	652383	64	FPF-ST 4,5 x 35 ZPP 200	652405	60
FPF-ST 4,0 x 20 YZF 1000	653483	58	FPF-ST 4,0 x 45 ZPF 500	652384	64	FPF-ST 4,5 x 35 ZPP 500	652406	60
FPF-ST 4,0 x 20 YZF 200	653481	58	FPF-ST 4,0 x 45 ZPP 200	652385	60	FPF-ST 4,5 x 40 A2P 200	657057	121
FPF-ST 4,0 x 20 ZPF 200	652359	63	FPF-ST 4,0 x 45 ZPP 500	652386	60	FPF-ST 4,5 x 40 A4P 200	657291	123
FPF-ST 4,0 x 20 ZPF 500	652360	63	FPF-ST 4,0 x 50 A2P 200	657044	121	FPF-ST 4,5 x 40 BZP 200	669020	95
FPF-ST 4,0 x 25 A2F 200	657030	122	FPF-ST 4,0 x 50 A4P 200	657285	123	FPF-ST 4,5 x 40 YZP 200	653542	56
FPF-ST 4,0 x 25 BZF 200	669007	97	FPF-ST 4,0 x 50 BZP 200	669013	95	FPF-ST 4,5 x 40 YZP 500	653543	56
FPF-ST 4,0 x 25 YZF 200	653485	58	FPF-ST 4,0 x 50 YZP 200	653512	55	FPF-ST 4,5 x 40 ZPF 200	652407	64
FPF-ST 4,0 x 25 YZF 500	653486	58	FPF-ST 4,0 x 50 YZP 500	653513	55	FPF-ST 4,5 x 40 ZPF 500	652408	64
FPF-ST 4,0 x 25 ZPF 200	652362	63	FPF-ST 4,0 x 50 ZPF 200	652387	64	FPF-ST 4,5 x 40 ZPP 200	652409	60
FPF-ST 4,0 x 25 ZPF 500	652363	63	FPF-ST 4,0 x 50 ZPF 500	652388	64	FPF-ST 4,5 x 40 ZPP 500	652410	60
FPF-ST 4,0 x 30 A2F 200	657032	122	FPF-ST 4,0 x 50 ZPP 200	652389	60	FPF-ST 4,5 x 45 A2P 200	657060	121
FPF-ST 4,0 x 30 A4F 200	657278	124	FPF-ST 4,0 x 50 ZPP 500	652390	60	FPF-ST 4,5 x 45 A4P 200	657293	123
FPF-ST 4,0 x 30 BZP 200	669008	95	FPF-ST 4,0 x 60 A2P 200	657046	121	FPF-ST 4,5 x 45 YZP 200	653545	56
FPF-ST 4,0 x 30 YZF 1000	653491	58	FPF-ST 4,0 x 60 BZP 200	669014	95	FPF-ST 4,5 x 45 YZP 500	653546	56
FPF-ST 4,0 x 30 YZF 200	653489	58	FPF-ST 4,0 x 60 YZP 200	653515	55	FPF-ST 4,5 x 45 ZPF 200	652411	64
FPF-ST 4,0 x 30 YZP 200	653493	55	FPF-ST 4,0 x 60 YZP 500	653516	55	FPF-ST 4,5 x 45 ZPF 500	652412	64
FPF-ST 4,0 x 30 YZP 500	653494	55	FPF-ST 4,0 x 60 ZPP 100	652391	60	FPF-ST 4,5 x 45 ZPP 200	652413	60

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FPF-ST 4,5 x 50 A2P 200	657063	121	FPF-ST 5,0 x 30 A2F 200	657070	122	FPF-ST 5,0 x 60 YZP 500	653585	56
FPF-ST 4,5 x 50 A4P 200	040563	123	FPF-ST 5,0 x 30 A4F 200	657298	124	FPF-ST 5,0 x 60 ZPF 100	652447	64
FPF-ST 4,5 x 50 BZP 200	669021	95	FPF-ST 5,0 x 30 BZP 200	669026	95	FPF-ST 5,0 x 60 ZPF 500	652448	64
FPF-ST 4,5 x 50 YZP 200	653548	56	FPF-ST 5,0 x 30 YZF 200	653566	59	FPF-ST 5,0 x 60 ZPP 100	652449	61
FPF-ST 4,5 x 50 YZP 500	653549	56	FPF-ST 5,0 x 30 ZPF 200	652427	64	FPF-ST 5,0 x 60 ZPP 500	652450	61
FPF-ST 4,5 x 50 ZPF 200	652415	64	FPF-ST 5,0 x 30 ZPF 500	652428	64	FPF-ST 5,0 x 70 A2P 100	657091	121
FPF-ST 4,5 x 50 ZPF 500	652416	64	FPF-ST 5,0 x 35 A2F 200	657073	122	FPF-ST 5,0 x 70 A4P 100	040567	123
FPF-ST 4,5 x 50 ZPP 200	652417	60	FPF-ST 5,0 x 35 YZF 200	653569	59	FPF-ST 5,0 x 70 BZP 100	669031	95
FPF-ST 4,5 x 50 ZPP 500	652418	60	FPF-ST 5,0 x 35 ZPF 200	652431	64	FPF-ST 5,0 x 70 BZP 200 T25	669050	95
FPF-ST 4,5 x 60 A2P 100	657065	121	FPF-ST 5,0 x 35 ZPF 500	652432	64	FPF-ST 5,0 x 70 YZP 100	653587	56
FPF-ST 4,5 x 60 BZP 200	669022	95	FPF-ST 5,0 x 35 ZPP 200	652433	61	FPF-ST 5,0 x 70 YZP 200	653588	56
FPF-ST 4,5 x 60 YZP 100	653551	56	FPF-ST 5,0 x 35 ZPP 500	652434	61	FPF-ST 5,0 x 70 ZPF 100	652451	64
FPF-ST 4,5 x 60 YZP 500	653552	56	FPF-ST 5,0 x 40 A2P 200	657079	121	FPF-ST 5,0 x 70 ZPF 200	652452	64
FPF-ST 4,5 x 60 ZPP 100	652421	61	FPF-ST 5,0 x 40 A4P 200	657300	123	FPF-ST 5,0 x 70 ZPP 100	652453	61
FPF-ST 4,5 x 60 ZPP 500	652422	61	FPF-ST 5,0 x 40 BZP 200	669027	95	FPF-ST 5,0 x 70 ZPP 200	652454	61
FPF-ST 4,5 x 70 A2P 100	657067	121	FPF-ST 5,0 x 40 YZF 200	653572	59	FPF-ST 5,0 x 80 A2P 100	657094	121
FPF-ST 4,5 x 70 A4P 200	040504	123	FPF-ST 5,0 x 40 YZF 500	653573	59	FPF-ST 5,0 x 80 A4P 100	040568	123
FPF-ST 4,5 x 70 BZP 200	669023	95	FPF-ST 5,0 x 40 YZP 200	653575	56	FPF-ST 5,0 x 80 BZP 100	669032	95
FPF-ST 4,5 x 70 YZP 100	653554	56	FPF-ST 5,0 x 40 YZP 500	653576	56	FPF-ST 5,0 x 80 BZP 200 T25	669051	95
FPF-ST 4,5 x 70 YZP 500	653555	56	FPF-ST 5,0 x 40 ZPF 200	652435	64	FPF-ST 5,0 x 80 YZP 100	653590	56
FPF-ST 4,5 x 70 ZPP 100	652423	61	FPF-ST 5,0 x 40 ZPF 500	652436	64	FPF-ST 5,0 x 80 YZP 200	653591	56
FPF-ST 4,5 x 70 ZPP 500	652424	61	FPF-ST 5,0 x 40 ZPP 200	652437	61	FPF-ST 5,0 x 80 ZPP 100	652455	61
FPF-ST 4,5 x 80 A4P 200	040505	123	FPF-ST 5,0 x 40 ZPP 500	652438	61	FPF-ST 5,0 x 80 ZPP 200	652456	61
FPF-ST 4,5 x 80 BZP 200	669024	95	FPF-ST 5,0 x 45 A2P 200	657082	121	FPF-ST 5,0 x 90 BZP 100	669033	95
FPF-ST 4,5 x 80 YZP 100	653557	56	FPF-ST 5,0 x 45 BZP 200	669028	95	FPF-ST 5,0 x 90 BZP 200 T25	669052	95
FPF-ST 4,5 x 80 YZP 500	653558	56	FPF-ST 5,0 x 45 YZP 200	653578	56	FPF-ST 5,0 x 90 YZP 100	653593	56
FPF-ST 4,5 x 80 ZPP 200	652426	61	FPF-ST 5,0 x 45 YZP 500	653579	56	FPF-ST 5,0 x 90 YZP 200	653594	56
FPF-ST 5,0 x 100 A2P 100	657097	121	FPF-ST 5,0 x 45 ZPF 200	652439	64	FPF-ST 5,0 x 90 ZPP 100	652457	61
FPF-ST 5,0 x 100 BZP 100	669034	96	FPF-ST 5,0 x 45 ZPF 500	652440	64	FPF-ST 5,0 x 90 ZPP 200	652458	61
FPF-ST 5,0 x 100 BZP 100 T25	669053	96	FPF-ST 5,0 x 45 ZPP 200	652441	61	FPF-ST 5,5 x 40 A2P 200	660614	141
FPF-ST 5,0 x 100 YZP 100	653596	56	FPF-ST 5,0 x 45 ZPP 500	652442	61	FPF-ST 5,5 x 50 A2P 200	660615	141
FPF-ST 5,0 x 100 YZP 200	653597	56	FPF-ST 5,0 x 50 A2P 200	657085	121	FPF-ST 5,5 x 60 A2P 200	660616	141
FPF-ST 5,0 x 100 ZPP 100	652459	61	FPF-ST 5,0 x 50 A4P 200	040565	123	FPF-ST 5,5 x 70 A2P 200	660617	141
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FPF-ST 5,0 x 110 YZP 100	653599	56	FPF-ST 5,0 x 50 BZP 200 T25	669048	95	FPF-ST 6,0 x 100 A2P 100	657124	121
FPF-ST 5,0 x 110 YZP 200	653600	56	FPF-ST 5,0 x 50 YZP 200	653581	56	FPF-ST 6,0 x 100 A4P 100	040569	123
FPF-ST 5,0 x 110 ZPP 100	652461	61	FPF-ST 5,0 x 50 YZP 500	653582	56	FPF-ST 6,0 x 100 BZP 100	669041	96
FPF-ST 5,0 x 110 ZPP 200	652462	61	FPF-ST 5,0 x 50 ZPF 200	652443	64	FPF-ST 6,0 x 100 YZP 100	653630	57
FPF-ST 5,0 x 120 A2P 100	657100	121	FPF-ST 5,0 x 50 ZPF 500	652444	64	FPF-ST 6,0 x 100 ZPP 100	652488	62
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FPF-ST 6,0 x 180 YZP 100	653651	57	FPF-ST 6,0 x 60 ZPP 200	652478	61	FPF-ST 8,0 x 280 ZPF 50	659389	114
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FPF-ST 6,0 x 40 ZPF 500	652466	64	FPF-ST 8,0 x 120 A4P 50	657509	107	FPF-SZ 2,5 x 20 BUF 1000	654004	81
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FPF-ST 6,0 x 40 ZPP 500	652468	61	FPF-ST 8,0 x 120 ZPF 50	659385	114	FPF-SZ 2,5 x 20 YZF 50 B	653919	163
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FPF-SZ 4,0 x 30 A2F 300	657166	120	FPF-SZ 4,0 x 50 BUF 500	654038	82	FPF-SZ 4,5 x 20 ZPF 200	652143	76
FPF-SZ 4,0 x 30 BUF 1000	654034	81	FPF-SZ 4,0 x 50 BUP 500	654171	79	FPF-SZ 4,5 x 25 YZF 100	653197	70
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FPF-SZ 4,0 x 30 ZPP 1000	652110	72	FPF-SZ 4,0 x 50 ZPP 200	652129	72	FPF-SZ 4,5 x 30 YZF 30 B	653955	163
FPF-SZ 4,0 x 30 ZPP 200	652109	72	FPF-SZ 4,0 x 50 ZPP 500	652130	72	FPF-SZ 4,5 x 30 YZF 300	653202	70
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FPF-SZ 4,0 x 35 BUP 500	654168	79	FPF-SZ 4,0 x 55 ZPP 500	652133	72	FPF-SZ 4,5 x 35 A2F 100	657185	120
FPF-SZ 4,0 x 35 YZF 1000	653152	70	FPF-SZ 4,0 x 60 A2P 100	657181	119	FPF-SZ 4,5 x 35 BUP 500	654174	79
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FPF-SZ 4,0 x 35 YZF 50 B	653945	163	FPF-SZ 4,0 x 60 YZP 10 B	653950	161	FPF-SZ 4,5 x 35 YZF 500	653209	70
FPF-SZ 4,0 x 35 YZP 1000	653156	66	FPF-SZ 4,0 x 60 YZP 200	653182	66	FPF-SZ 4,5 x 35 YZP 100	653211	66
FPF-SZ 4,0 x 35 YZP 300	653155	66	FPF-SZ 4,0 x 60 ZPF 200	652840	76	FPF-SZ 4,5 x 35 YZP 30 B	653956	161
FPF-SZ 4,0 x 35 ZPF 1000	652112	76	FPF-SZ 4,0 x 60 ZPP 200	652135	72	FPF-SZ 4,5 x 35 YZP 500	653213	66
FPF-SZ 4,0 x 35 ZPF 200	652111	76	FPF-SZ 4,0 x 60 ZPP 500	652136	72	FPF-SZ 4,5 x 35 ZPF 200	652154	76
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FPF-SZ 4,0 x 35 ZPP 200	652114	72	FPF-SZ 4,0 x 70 BUP 200	654173	79	FPF-SZ 4,5 x 35 ZPP 200	652157	72
FPF-SZ 4,0 x 40 A2P 200	657174	119	FPF-SZ 4,0 x 70 YZP 10 B	653951	161	FPF-SZ 4,5 x 35 ZPP 500	652158	72
FPF-SZ 4,0 x 40 A2P 25 B	657464	166	FPF-SZ 4,0 x 70 YZP 200	653186	66	FPF-SZ 4,5 x 40 A2F 300	657189	120
FPF-SZ 4,0 x 40 BUF 500	654036	82	FPF-SZ 4,0 x 70 ZPP 100	652137	72	FPF-SZ 4,5 x 40 A2P 25 B	657465	166
FPF-SZ 4,0 x 40 BUP 500	654169	79	FPF-SZ 4,0 x 70 ZPP 500	652138	72	FPF-SZ 4,5 x 40 A2P 300	657192	119
FPF-SZ 4,0 x 40 YZF 1000	653160	70	FPF-SZ 4,0 x 80 BUP 500	654125	79	FPF-SZ 4,5 x 40 BUF 500	654042	82
FPF-SZ 4,0 x 40 YZF 300	653159	70	FPF-SZ 4,0 x 90 BUP 500	654126	79	FPF-SZ 4,5 x 40 BUP 500	654175	79
FPF-SZ 4,0 x 40 YZP 1000	653164	66	FPF-SZ 4,0X16 BUF 1000	654119	81	FPF-SZ 4,5 x 40 YZF 200	653214	70
FPF-SZ 4,0 x 40 YZP 300	653163	66	FPF-SZ 4,0X18 BUF 1000	654120	81	FPF-SZ 4,5 x 40 YZF 500	653215	70
FPF-SZ 4,0 x 40 ZPF 1000	652117	76	FPF-SZ 4,0X35 BUF 500	654121	82	FPF-SZ 4,5 x 40 YZP 200	653218	66
FPF-SZ 4,0 x 40 ZPF 200	652116	76	FPF-SZ 4,0x40 YZP 25 B	653946	161	FPF-SZ 4,5 x 40 YZP 30 B	653957	161

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FPF-SZ 4,5 x 40 ZPF 200	652159	76	FPF-SZ 4,5 x 90 BUP 500	654135	79	FPF-SZ 5,0 x 40 BUP 500	654180	79
FPF-SZ 4,5 x 40 ZPF 500	652160	76	FPF-SZ 4,5X16 BUF 500	654127	82	FPF-SZ 5,0 x 40 YZF 200	653265	70
FPF-SZ 4,5 x 40 ZPP 200	652162	72	FPF-SZ 4,5X20 BUF 500	654128	82	FPF-SZ 5,0 x 40 YZF 500	653266	70
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FPF-SZ 4,5 x 45 A2P 200	657195	119	FPF-SZ 4,5X35 BUF 500	654130	82	FPF-SZ 5,0 x 40 YZP 200	653269	67
FPF-SZ 4,5 x 45 A2P 25 B	657466	166	FPF-SZ 4,5X45 BUF 500	654131	82	FPF-SZ 5,0 x 40 YZP 500	653270	67
FPF-SZ 4,5 x 45 BUP 500	654176	79	FPF-SZ 4,5X70 BUF 500	654133	82	FPF-SZ 5,0 x 40 ZPF 200	652200	77
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FPF-SZ 4,5 x 45 YZF 500	653221	70	FPF-SZ 5,0 x 100 BUP 200	654145	79	FPF-SZ 5,0 x 40 ZPP 200	652203	73
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FPF-SZ 4,5 x 45 YZP 500	653225	66	FPF-SZ 5,0 x 100 YZP 200	653306	67	FPF-SZ 5,0 x 45 YZF 200	653271	70
FPF-SZ 4,5 x 45 ZPF 200	652164	76	FPF-SZ 5,0 x 100 ZPP 100	652231	73	FPF-SZ 5,0 x 45 YZF 500	653272	71
FPF-SZ 4,5 x 45 ZPF 500	652165	76	FPF-SZ 5,0 x 100 ZPP 200	652232	73	FPF-SZ 5,0 x 45 YZP 20 B	653968	161
FPF-SZ 4,5 x 45 ZPP 200	652167	73	FPF-SZ 5,0 x 110 BUP 200	654146	79	FPF-SZ 5,0 x 45 YZP 200	653275	67
FPF-SZ 4,5 x 45 ZPP 500	652168	73	FPF-SZ 5,0 x 110 YZP 100	653308	67	FPF-SZ 5,0 x 45 YZP 500	653276	67
FPF-SZ 4,5 x 50 A2P 200	657198	119	FPF-SZ 5,0 x 110 ZPP 100	652233	73	FPF-SZ 5,0 x 45 ZPP 200	652208	73
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FPF-SZ 4,5 x 50 BUF 500	654044	82	FPF-SZ 5,0 x 120 BUP 200	654147	79	FPF-SZ 5,0 x 50 A2P 25 B	657469	166
FPF-SZ 4,5 x 50 BUP 500	654177	79	FPF-SZ 5,0 x 120 YZP 10 B	653975	161	FPF-SZ 5,0 x 50 BUF 200	654052	82
FPF-SZ 4,5 x 50 YZF 200	653226	70	FPF-SZ 5,0 x 120 YZP 100	653312	67	FPF-SZ 5,0 x 50 BUP 500	654182	79
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FPF-SZ 4,5 x 60 BUP 200	654178	79	FPF-SZ 5,0 x 30 A2F 200	657210	120	FPF-SZ 5,0 x 60 BUF 200	654054	82
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FPF-SZ 4,5 x 60 ZPP 500	652178	73	FPF-SZ 5,0 x 30 ZPF 200	652194	76	FPF-SZ 5,0 x 60 YZP 500	653291	67
FPF-SZ 4,5 x 70 A2P 100	657203	119	FPF-SZ 5,0 x 30 ZPF 500	652195	76	FPF-SZ 5,0 x 60 ZPF 100	652217	77
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FPF-SZ 5,0 x 80 ZPP 100	652226	73	FPF-SZ 6,0 x 35 BUF 100	654149	82	FPF-SZ 6,0 x 80 YZP 200	653353	67
FPF-SZ 5,0 x 80 ZPP 200	652227	73	FPF-SZ 6,0 x 35 YZF 200	653318	71	FPF-SZ 6,0 x 80 ZPP 100	652260	73
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FPF-SZ 5,0X35 BUF 500	654139	82	FPF-SZ 6,0 x 40 YZP 500	653327	67	FPF-WT 10,0 x 160 YZP 50	659267	102
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FPF-SZ 6,0 x 140 BUP 100	654156	80	FPF-SZ 6,0 x 60 BUP 200	654186	80	FPF-WT 6,0 x 120 YZP 100	659349	102
FPF-SZ 6,0 x 140 YZP 100	653374	68	FPF-SZ 6,0 x 60 YZF 100	653340	71	FPF-WT 6,0 x 140 A2P 100	657437	108
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FPF-SZ 6,0 x 160 A2P 50	657262	119	FPF-SZ 6,0 x 60 YZP 100	653344	67	FPF-WT 6,0 x 180 YZP 100	659352	102
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FPF-WT 8,0 x 260 YZP 50	659253	102	FSN-TPB 3,5 x 35 F 1000	665071	149	FSN-TPM 3,5 x 45 ZPF 1000	040608	146
FPF-WT 8,0 x 280 YZP 50	659254	102	FSN-TPB 3,5 x 38 F 1000	665112	150	FSN-TPM 3,5 x 55 ZPF 1000	040610	146
FPF-WT 8,0 x 300 YZP 50	659255	102	FSN-TPB 3,5 x 45 F 1000	665074	149	FSN-TPR 3,9 x 25 F 1000	665045	145
FPF-WT 8,0 x 320 YZP 50	659256	102	FSN-TPB 3,5 x 55 F 500	665077	149	FSN-TPR 3,9 x 30 F 1000	665046	145
FPF-WT 8,0 x 340 YZP 50	659257	102	FSN-TPBM 3,5 x 25 F 1000	040613	149	FSN-TPR 3,9 x 35 F 1000	665049	145
FPF-WT 8,0 x 360 YZP 50	659258	102	FSN-TPBM 3,5 x 25 F 1000	665113	150	FSN-TPR 3,9 x 45 F 1000	665052	145
FPF-WT 8,0 x 380 YZP 50	659259	102	FSN-TPBM 3,5 x 35 F 1000	665093	149	FSN-TPR 3,9 x 55 F 500	665055	145
FPF-WT 8,0 x 400 YZP 50	659260	102	FSN-TPBM 3,5 x 38 F 1000	665114	150	FSN-TPRM 3,5 x 35 F 1000	665090	145
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This catalogue is for advice purposes only and is non-binding. Additional information and advice on specific applications is available from our Technical Support Team. For this, however, we require a precise description of your particular application. All the data in this catalogue concerning work with our fixing elements must be adapted to suit local conditions and the type of materials in use.

We cannot be responsible for any errors, and we reserve the right to make technical and range modifications without notice. No liability is accepted for printing errors and omissions.

Main catalogue for screws No. 04/16

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