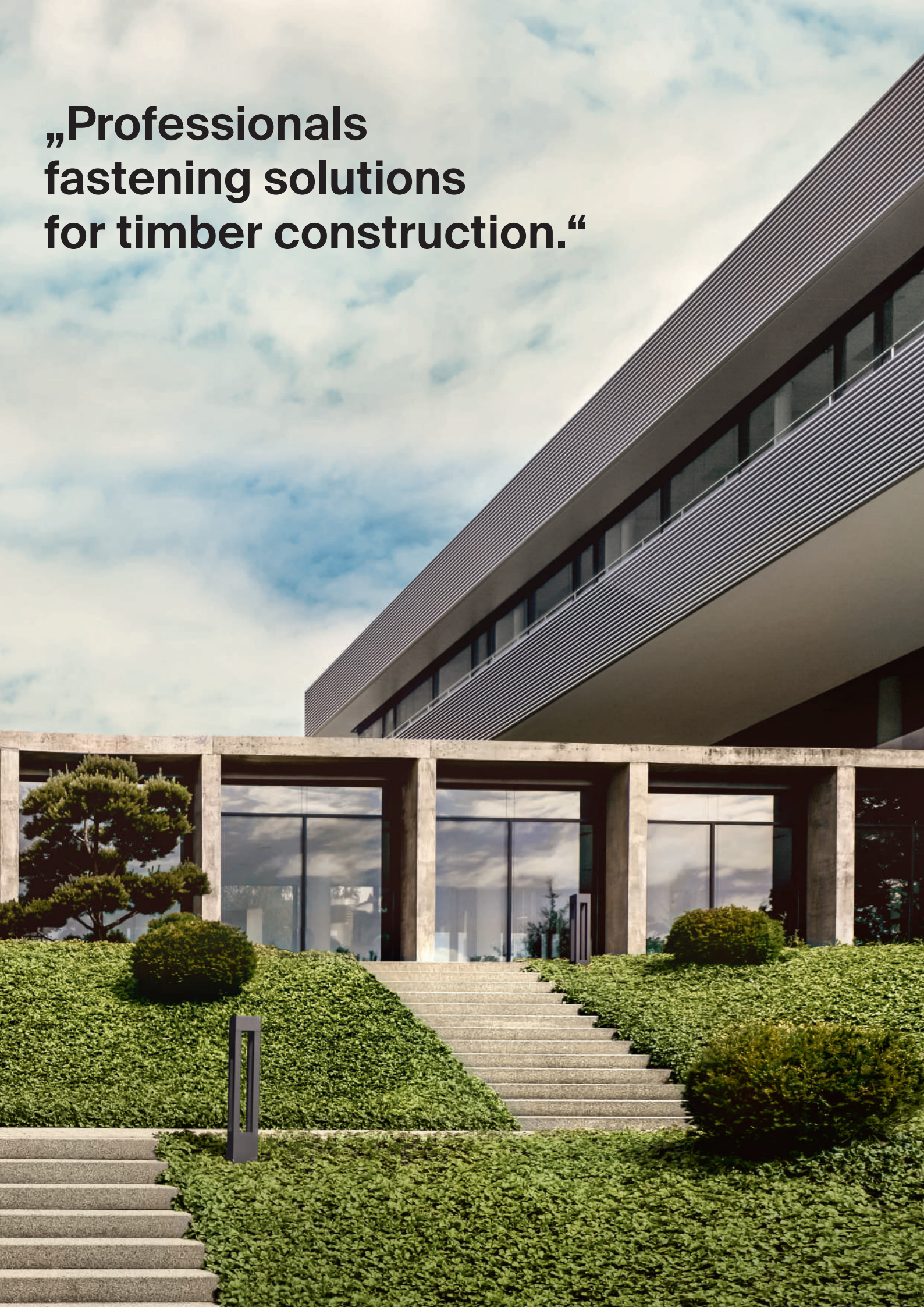




fischer 

**Catalogue
Screws**

**„Professionals
fastening solutions
for timber construction.“**



Foreword

Dear Partners,

the fischer group of companies has stood for innovative and technologically pioneering fixing solutions for over 70 years. Our wide range includes plastic plugs, steel anchors and chemical systems as well as a comprehensive assortment of screws.

With the new Power-Fast II chipboard screw, we have further expanded our product range. It can be used for all wood-wood and wood-metal connections as well as with tested loads in fischer nylon plugs. It convinces with its high load-bearing capacity and simple and quick installation.

Our partial and fully threaded screws (fischer Power-Fast and fischer Power-Full) and other product groups cover all applications of carpenters, joiners and woodworkers and other trades. The special screw tip and thread geometry ensures fast bite and screw-in progress. Different head shapes and the special technology enable the near-edge, gap- and splinter-free screwing. The European Technical Assessment confirms the high load capacity of our screws. This now also covers assembly without pre-drilling in softwood and hardwood as well as application with tangential impact wrenches.

To help you find the right screw even faster, we have further optimised our catalogue for the range. Thanks to the clear structure, you will immediately find the desired solution. In addition, our "Screw Navigator" leads you via the respective application to the suitable product. Examples, pictures, graphics and details of the products offer plenty of illustrative material and depth of information. The design with our

module WOOD-FIX as part of our design software FIXPERIENCE is also explained in a practical way.

We hope you enjoy discovering and using our new products for the material wood!

Marc-Sven Mengis

*Chairman of the management board
of the fischer group of companies*



Power-Fast II.
„The new chipboard screw
for fast and flexible
applications.“

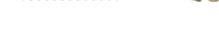


reddot winner 2020
innovative product

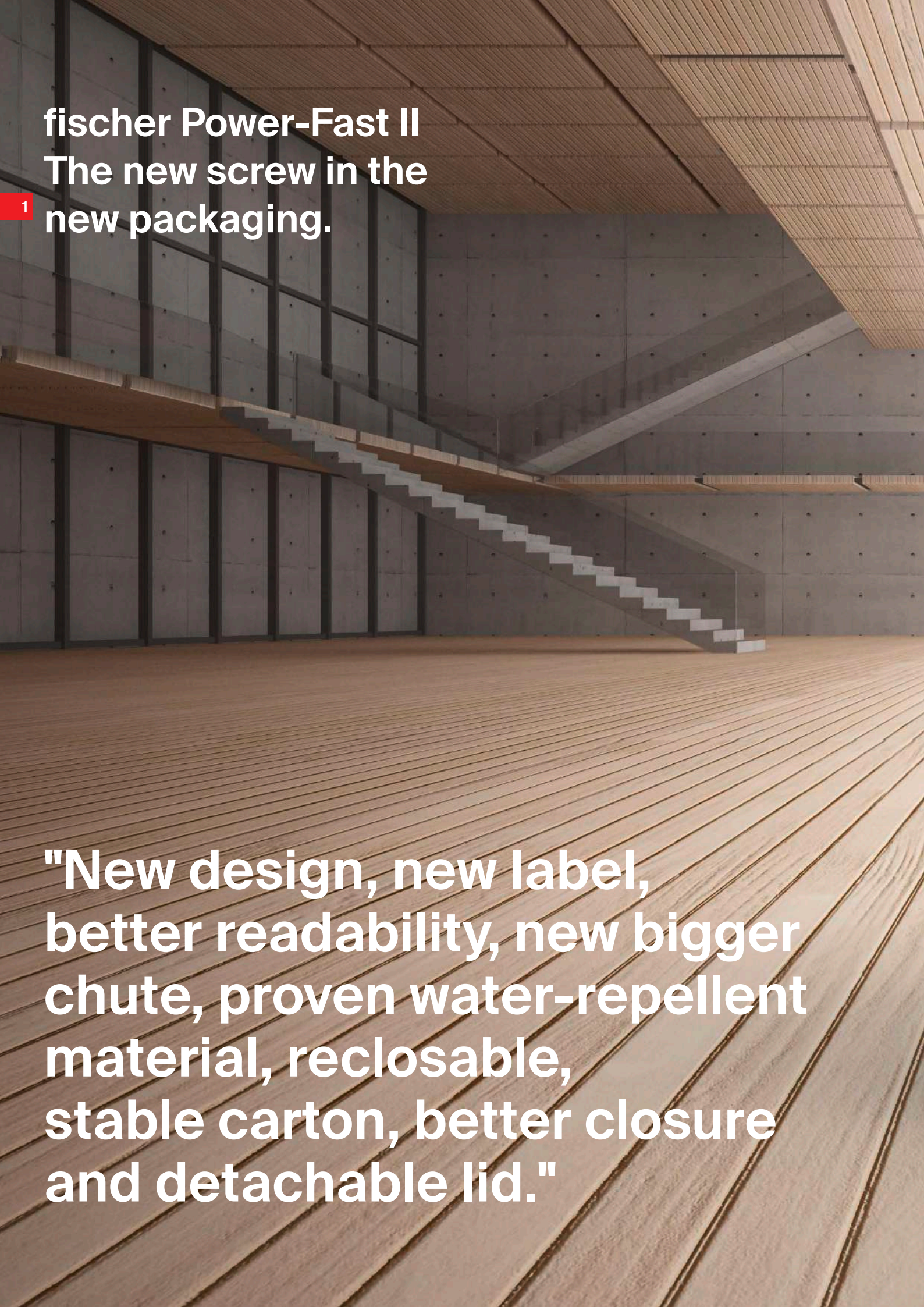
Innovations to inspire professionals.

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NEW. Chipboard screw Power-Fast II	25	2
Chipboard screw Classic-Fast FSP II	51	3
Wood construction screw Power-Fast	61	4
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Designation/ Quality	Illustration	Short designation	Dimensions		Head shape	Thread					Drive		Material		Coating				Ap- proval		Page		
			Diameter	Lengths [mm]		Head shape	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	Phosphated		Bonus-zinc	ETA
NEW. Chipboard screw Power-Fast II		FPF II CTP BC	3,0 – 6,0	35 – 300	Countersunk head	•						•		•		•				•	•		28
		FPF II CT25P BC	5,0	50 – 120	Countersunk head	•						•		•		•					•	•	32
		FPF II CTF BC	3,0 – 6,0	12 – 60	Countersunk head		•					•		•		•					•	•	33
		FPF II CTP BZ (Bonus-zinc)	3,5 – 6,0	30 – 220	Countersunk head	•						•		•						•	•	•	36
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		FPF II CTF BZ (Bonus-zinc)	3,5 – 4,5	20 – 25	Countersunk head		•					•		•						•	•	•	39
		FPF II CZP BC	3,0 – 6,0	35 – 300	Countersunk head	•						•		•		•					•	•	40
		FPF II CZF BC	3,0 – 6,0	12 – 60	Countersunk head		•					•		•		•					•	•	43
		FPF-II PTP BC	6,0	80 – 100	Pan Head	•						•		•		•					•	•	46
		FPF-II PTF BC	3,0 – 6,0	12 – 70	Pan Head		•					•		•		•					•	•	47
		FPF II PZF BC	3,0 – 6,0	12 – 70	Pan Head		•					•		•		•					•	•	48
		FPF II RZF BC	3,0 – 4,0	16 – 45	Raised countersunk head		•					•		•		•					•	•	49
Chipboard screw FSP II		FSP II CTP BC	3,5 – 6,0	30 – 200	Countersunk head	•						•		•		•					•	•	54
		FSP II CTF BC	3,0 – 6,0	16 – 50	Countersunk head		•					•		•		•					•	•	55
		FSP II CZP BC	3,0 – 6,0	30 – 200	Countersunk head	•						•		•		•					•	•	56
		FSP II CZF BC	3,0 – 6,0	12 – 60	Countersunk head		•					•		•		•					•	•	57
		FSP II CZP YC	3,0 – 6,0	45 – 200	Countersunk head	•						•		•			•				•	•	58
		FSP II CZF YC	3,0 – 6,0	16 – 60	Countersunk head		•					•		•			•				•	•	59
Wood construction screw Power-Fast		FPF-ST ZPP	8,0 – 10,0	80 – 50	Countersunk head	•						•		•		•					•	•	64
		FPF-ST A2P	6,0 – 8,0	80 – 300	Countersunk head	•						•		•							•	•	65
		FPF-ST A4P	6,0 – 8,0	100 – 200	Countersunk head	•						•		•							•	•	66
		FPF-WT ZPP	6,0 – 10,0	60 – 500	Flange head	•						•		•		•					•	•	67
		FPF-WT A2P	6,0 – 8,0	40 – 200	Flange head	•						•		•							•	•	69
		FPF-HT ZPP	8,0 – 12,0	80 – 140	Hex head	•						•		•		•					•	•	70
		FPF-HT BZP	8,0 – 12,0	80 – 140	Hex head	•						•		•		•					•	•	71
Washer		FWC-CS ZP	6,0 – 12,0		For counter-sunk head								•		•					•	•	72	
Full threat screw Power-Full		FPF-ZTN ZPF	6,5 – 10,0	120 – 600	Cylinder head		•					•		•		•					•	•	78
		FPF-ST ZPF	8,0 – 10,0	120 – 300	Countersunk head		•					•		•		•					•	•	79
		FIF-ZT ZPF	8,0	210 – 480	Cylinder head		•					•		•		•					•	•	80

Designation/ Quality	Illustration	Short designation	Dimensions		Head shape	Thread					Drive	Material			Coating			Ap- proval		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		Phosphated
Chipboard screw Power-Fast stainless steel		FPF-SZ A2P	3,5 – 6,0	35 – 160	Countersunk head	●					●		●						●	●	86
		FPF-SZ A2F	3,0 – 5,0	20 – 35	Countersunk head		●				●		●						●	●	87
		FPF-ST A2P	3,5 – 6,0	35 – 200	Countersunk head	●					●		●						●	●	88
		FPF-ST A2F	3,0 – 5,0	12 – 35	Countersunk head		●				●		●						●	●	89
		FPF-ST A4P	4,0 – 6,0	35 – 120	Countersunk head	●					●			●					●	●	90
		FPF-ST A4F	3,0 – 5,0	16 – 35	Countersunk head		●				●			●					●	●	91
		FPF-PT A2F	3,0 – 6,0	12 – 60	Pan Head		●				●			●					●	●	92
		FPF-LZ A2F	3,0 – 5,0	16 – 60	Raised countersunk head		●				●			●					●	●	93
Special screw zinc-plated		FHT-SZ ZPF	3,0	16 – 30	Small countersunk head		●				●		●			●					98
		FDF-ST YZP	3,5 – 4,5	40 – 50	Countersunk head 75°	●					●		●				●				99
		FTF-ST YZP	3,5	35 – 55	Small countersunk head 60°	●					●		●				●				100
		FPF-PT ZPF	5,0	35 – 50	Pan Head		●				●		●			●			●	●	101
Special screw stainless steel		FFSII RT-6 A2	4,5 – 5,0	40 – 80	Countersunk head 60°	●					●			●							106
		FTS-ST A2P	5,0	40 – 80	Flat counter-sunk head D 8.2	●					●			●							107
		FPF-ST A2P	5,5	40 – 80	Flat counter-sunk head D 7.5	●					●			●							108
		FJS-LT A2F	7,0	40 – 50	Round head with centring D 13.5		●				●			●							109
Drywall screw		FSN-TPR/TPRM	3,9	25 – 55	Trumpet shape head		●	●				●	●				●		●	●	114
		FSN-TP/TPM	3,5 – 3,9	25 – 70	Trumpet shape head		●	●				●	●				●		●	●	115
		FSN-TPD/TPDM	3,5 – 3,9	25 – 55	Trumpet shape head		●	●				●	●				●		●	●	116
		FSN-TPB/TPBM	3,5	25 – 55	Trumpet shape head		●	●				●	●				●		●	●	117
		FSN-TPG/TPGM	3,9	19 – 55	Countersunk head		●		●			●	●				●		●	●	118
		FSN-TPGM	3,9	32 – 41	Trumpet shape head		●		●			●	●				●		●	●	119
		FPS-FP ZPF	4,2	13	Flat round head		●					●	●				●		●	●	120
		FPS-FPB ZPF	4,2	13	Flat round head		●					●	●				●		●	●	120

Load tables see page 140



fischer Power-Fast II
The new screw in the
new packaging.

**"New design, new label,
better readability, new bigger
chute, proven water-repellent
material, reclosable,
stable carton, better closure
and detachable lid."**



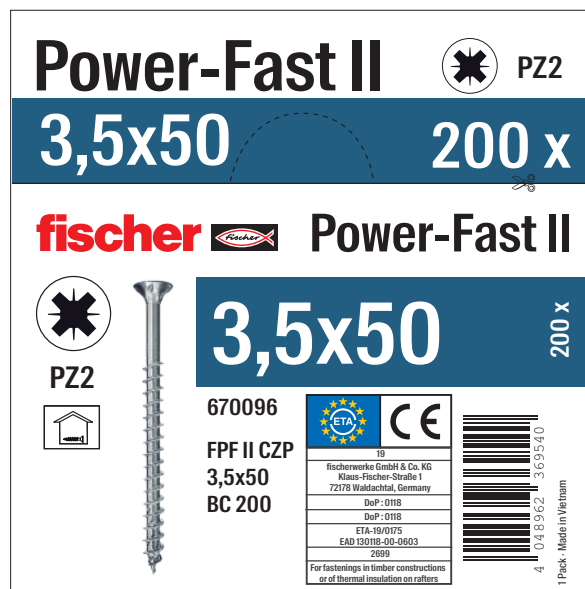
The existing fischer screw box

1





The fischer screw labels



The label colour means

- Chipboard screw Power-Fast II
- Wood construction screw Power-Fast und Power-Full
- Chipboard screw stainless steel
- Special screw zinc-plated and stainless steel
- Drywall screw



Available in the following drive shapes



TX star recess



PZ cross-slot



PH cross-slot

The material code designates the surface coating or the material



Blue zinc-plated*



Yellow zinc-plated*



Phosphated



Bonus-zinc

Stainless steel
A2** or A4***

The usage symbols recommend the areas of use

For use
indoorsFor protected
use outdoorsFor use
outdoors

* ≥ 5 µm / ** = Corrosion resistance class 2 / *** = Corrosion resistance class 3

The meaning of the screw designations

1

Abbreviation explanation

FPF ST 3,0 x 30 ZPF 200

FPF = fischer Power-Fast
 FSP = fischer Classic-Fast
 FPF = fischer Wood construction screw
 FPF = fischer Power-Full
 FWC = fischer Washer for FPF
 FHT = fischer Hinge tape screw
 FDF = fischer MDF Plate screw
 FTF = fischer Floorboard screw
 FFS = fischer Wood façade screw
 FTS = fischer Terrace screw
 FJS = fischer Jamb screw
 FSN = fischer Drywall screw
 FPS = fischer Profile connecting screw

FPF ST 3,0 x 30 ZPF 200

ST = Countersunk head with TX star recess
 SZ = Countersunk head PZ cross-slot
 PT = Pan Head with TX star recess
 PZ = Pan Head with PZ cross-slot
 LT/RT = Raised countersunk head with TX star recess
 LZ = Raised countersunk head with PZ cross-slot
 SH = Small countersunk head
 HH = Countersunk head with head hole
 HT = Hex head with TX star recess
 WT = Flange head with TX star recess
 ZT = Cylinder head with TX star recess
 FP = Flat round head with PH cross-slot
 TPD = Trumpet shape head with fine thread
 TPR = Trumpet shape head with coarse thread
 TPB = Trumpet shape head with fine thread and drill tip
 FPB = Flat round head with PH cross-slot and drill tip
 TPG = Trumpet shape head with HiLo thread

FPF ST 3,0 x 30 ZPF 200

Screw diameter & screw length

FPF ST 3,0 x 30 ZPF 200

ZPF = Blue zinc-plated with Full thread
 ZPP = Blue zinc-plated with Partial thread
 YZF = Yellow zinc-plated with Full thread
 YZP = Yellow zinc-plated with Partial thread
 A2 = A2 stainless steel
 A4 = A4 stainless steel

FPF ST 3,0 x 30 ZPF 200

Number of screws in the packaging

Abbreviation explanation

FPF II CTF 3,0 x 30 BC 200

FPF II = fischer Power-Fast II

FPF II CTF 3,0 x 30 BC 200

CTF = Countersunk head with TX star recess & Full thread
 CTP = Countersunk head with TX star recess & Partial thread
 CZF = Countersunk head with PZ cross-slot & Full thread
 CZP = Countersunk head with PZ cross-slot & Partial thread
 PTF = Pan Head with TX star recess & Full thread
 PZF = Pan Head with PZ cross-slot & Full thread
 PTP = Pan Head with TX star recess & Partial thread
 RZF = Raised countersunk head with PZ cross-slot & Full thread

FPF II CTF 3,0 x 30 BC 200

Screw diameter & screw length

FPF II CTF 3,0 x 30 BC 200

BC = Blue zinc-plated
 BZ = Bonus-zinc

FPF II CTF 3,0 x 30 BC 200

Number of screws in the packaging

NEW.

fischer Power-Fast II Chipboard screw



reddot winner 2020
innovative product

Outstanding: Winner of the German Design Award 2020
and the Red Dot Award 2020.



Special tip geometry

The three ribs on the tip, ensure a quick bite and pre-drilling. For a **fast bite** and **reduced splitting**.

Core cutter geometry

The innovative core-miller geometry enables precise milling and perfect swarf removal. This makes **small edge** and **spacing distances** possible.

Thread lead

The increased thread pitch significantly reduces the installation time. For **fast assembly**.

Additional shank ribs

The shank-miller in combination with the core-miller geometry is designed to reduce the installation torque. This means that more screws can be installed with the **same battery** and **less effort**.

Adapted screw geometry

The new Power-Fast II with its unique screw geometry combines the highest **technical know-how** with **excellent design**.

Underhead geometry

The special underhead geometry with optimized double cone and milling pockets ensure less cracking in timber and less damage to metal components. For **better finished surfaces**.

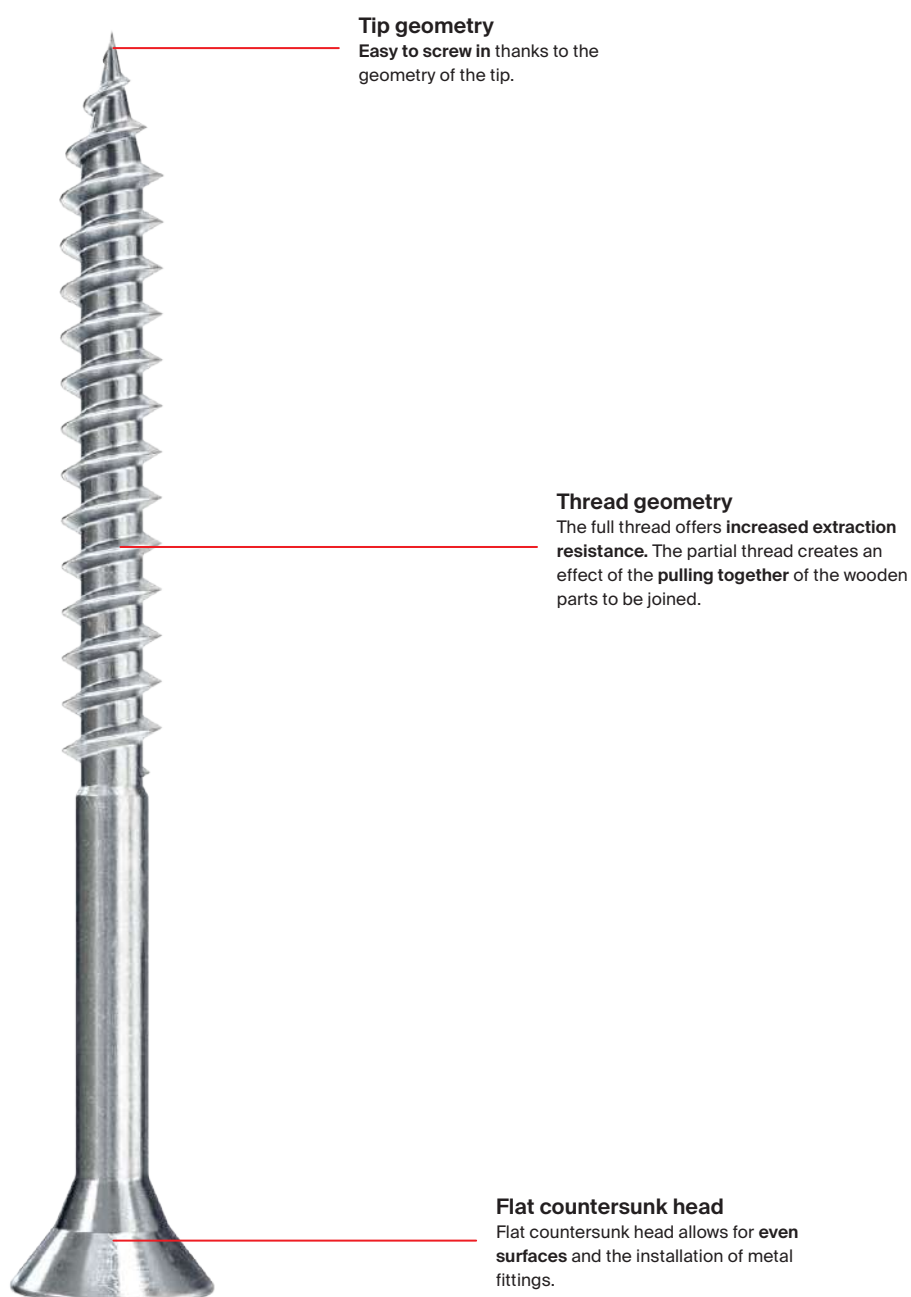
Approval



fischer Classic-Fast FSP II

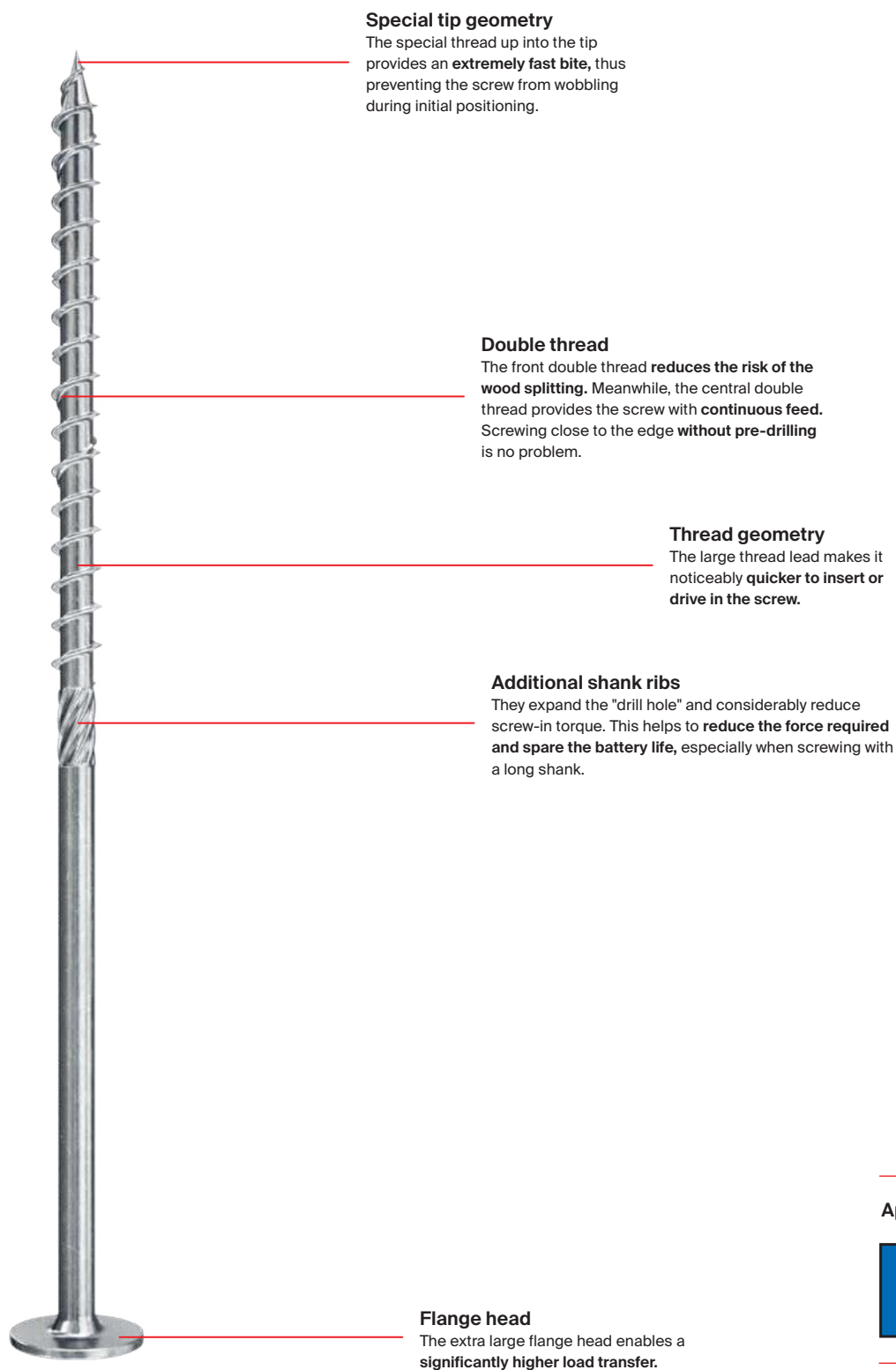
Chipboard screw

1



fischer Power-Fast Wood construction screw

1



Approval



fischer Power-Full

Full thread screw

1



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**.

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**.

Small cylinder head

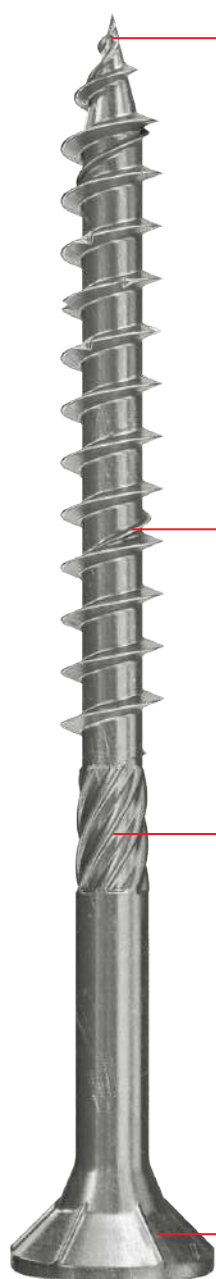
The small cylinder head is hardly visible and massively reduces the expansion pressure in wood. The head can be easily sunk deep into the wood with the **minimum risk of splitting**. Also available as countersunk head version.

Approval



fischer Power-Fast Chipboard screw stainless steel

1



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.

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.

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.

Underhead milling ribs

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

Approval



fischer special screw

Wood floor screw

1

**Cut notch in the thread tip**

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

Double thread

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

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 **hidden screwing** in the tongues of floor boards.

fischer

Terrace screw

1



Special tip geometry

The special thread up into the tip provides an **extremely fast bite**, as well as precise setting, thus **preventing 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**.

Locking thread

The additional underhead thread provides a **stable and lasting fixing** for the coating on the sub-structure. As such, it also prevents squeeking 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 façade screw

1



Cut notch in the thread tip

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

Double thread

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

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 60° countersunk head with underhead milling ribs makes it **easy to sink** the head and creates a **neat finish**.

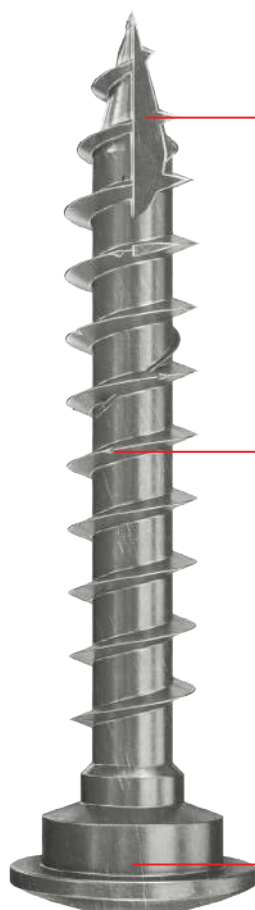
Approval



fischer

Jamb screw

1



Cut notch in the thread tip

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

Thread geometry

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

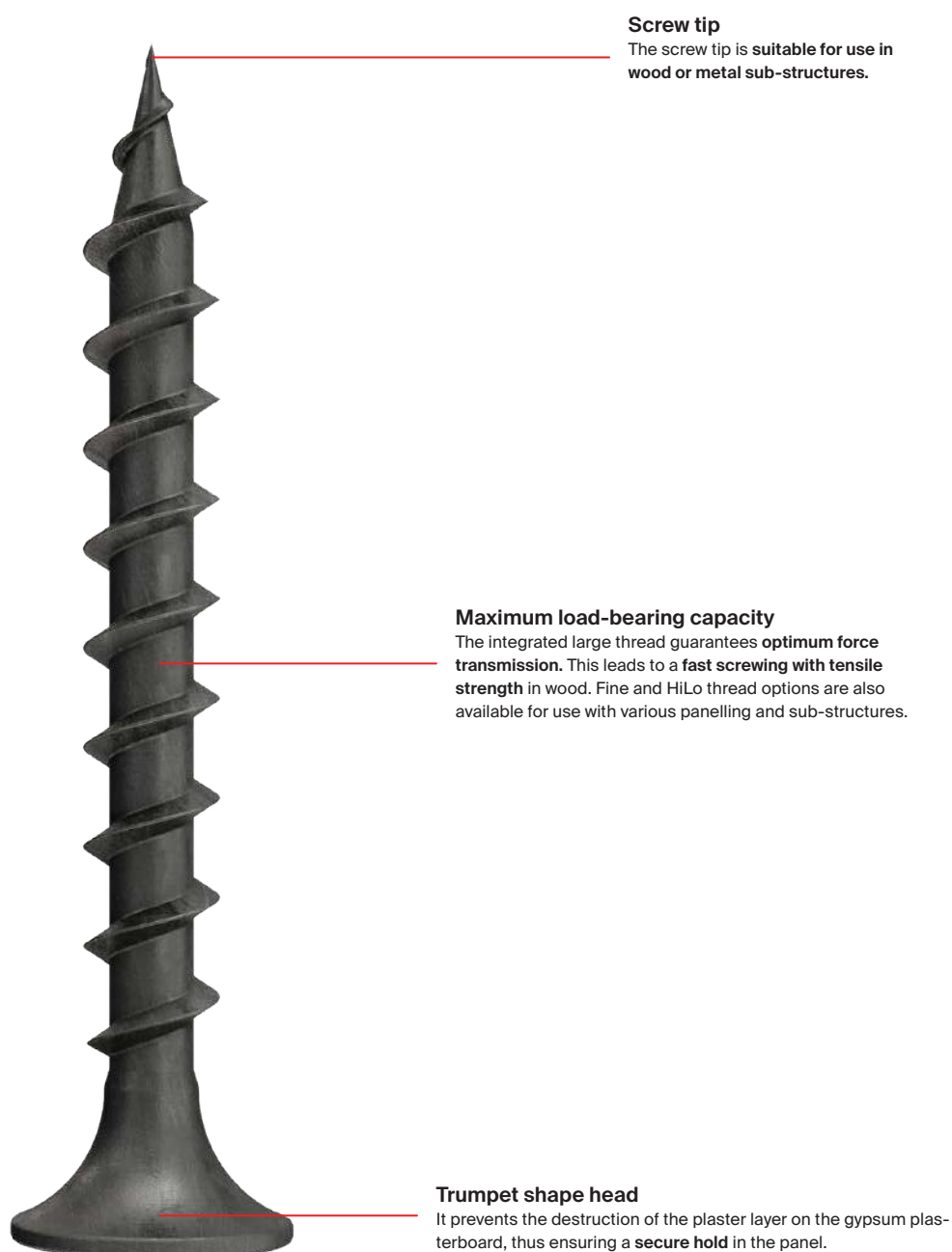
Optimised head shape

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

1





2

NEW.

Chipboard screw Power-Fast II

WITH COUNTERSUNK HEAD, CROSS DRIVE PH

FPF II CTP BC	28	
FPF II CT25P BC	32	
FPF II CTF BC	33	
FPF II CTP BZ (Bonus-zinc)	36	
FPF II CT25P BZ (Bonus-zinc)	38	
FPF II CTF BZ (Bonus-zinc)	39	

WITH COUNTERSUNK HEAD, CROSS DRIVE PZ

FPF II CZP BC	40	
FPF II CZF BC	43	

WITH PANHEAD, TX STAR RECESS

FPF II PTP BC	46	
FPF II PTF BC	47	

WITH PANHEAD, CROSS DRIVE PZ

FPF II PZF BC	48	
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WITH RAISED COUNTERSUNK HEAD, CROSS DRIVE PZ

FPF II RZF BC	49	
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Your benefits:

- The screw geometry of the new Power-Fast II ensures for fast, convenient and flexible installation
- The chipboard screw has a significantly reduced fission behaviour
- The Power-Fast II with high-performance wax coating reduces the screw-in torque and allows a screwing close to the edge without any problems
- The blue zinc plated coating contains no chromium VI content and is therefore very environmentally friendly
- The new drive sizes reduce the number of bit change in the range from D3-D6 to only 2 changes (D3,0 → D3,5 & D5,0 → D6,0) and thus ensure time-saving work

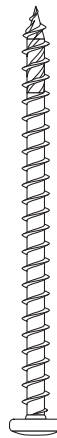
For fast and flexible processing.



Head shape variants

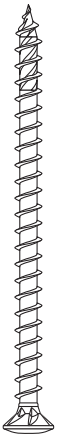
Countersunk head

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



Pan Head

- For metal and timber connections
- Full-surface layer for maximum clamping force



Raised countersunk head

- Countersunk head with concavity
- 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

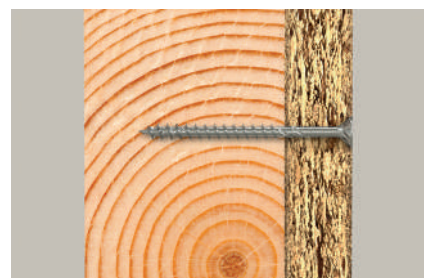
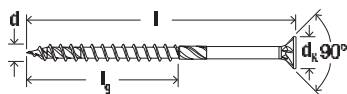
- Typically used for timber-timber connections
- The partial thread screws allow for a contraction effect
- With additional shank ribs from a screw length of 50 mm



FPF II CTP BC


NEW

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Partial thread

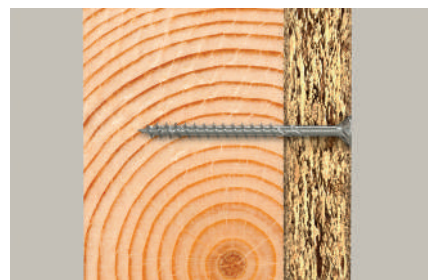
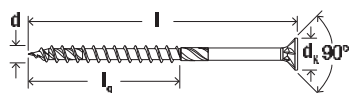
Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	35	FPF II CTP 3,0 x 35 BC 200	670016	24	6.0	TX10	200	4048962368741
	35	FPF II CTP 3,0 x 35 BC 500	670017	24	6.0	TX10	500	4048962368758
	40	FPF II CTP 3,0 x 40 BC 200	670018	28	6.0	TX10	200	4048962368765
	40	FPF II CTP 3,0 x 40 BC 500	670019	28	6.0	TX10	500	4048962368772
	45	FPF II CTP 3,0 x 45 BC 200	670020	30	6.0	TX10	200	4048962368789
	45	FPF II CTP 3,0 x 45 BC 500	670021	30	6.0	TX10	500	4048962368796
3.5	25	FPF II CTP 3,5 x 25 BC 200	670622	18	7.0	TX20	200	4048962374803
	25	FPF II CTP 3,5 x 25 BC 300	670108	18	7.0	TX20	300	4048962369663
	25	FPF II CTP 3,5 x 25 BC 1000	670135	18	7.0	TX20	1000	4048962369939
	30	FPF II CTP 3,5 x 30 BC 200	670080	18	7.0	TX20	200	4048962369380
	30	FPF II CTP 3,5 x 30 BC 300	670109	18	7.0	TX20	300	4048962369670
	30	FPF II CTP 3,5 x 30 BC 500	670123	18	7.0	TX20	500	4048962369816
	35	FPF II CTP 3,5 x 35 BC 200	670081	24	7.0	TX20	200	4048962369397
	35	FPF II CTP 3,5 x 35 BC 500	670124	24	7.0	TX20	500	4048962369823
	35	FPF II CTP 3,5 x 35 BC 1000	670136	24	7.0	TX20	1000	4048962369946
	40	FPF II CTP 3,5 x 40 BC 200	670082	28	7.0	TX20	200	4048962369403
	40	FPF II CTP 3,5 x 40 BC 1000	670137	28	7.0	TX20	1000	4048962369953
	45	FPF II CTP 3,5 x 45 BC 200	670083	30	7.0	TX20	200	4048962369410
	45	FPF II CTP 3,5 x 45 BC 500	670125	30	7.0	TX20	500	4048962369830
	50	FPF II CTP 3,5 x 50 BC 200	670084	30	7.0	TX20	200	4048962369427
	50	FPF II CTP 3,5 x 50 BC 500	670126	30	7.0	TX20	500	4048962369847
4.0	30	FPF II CTP 4,0 x 30 BC 50	670649	18	8.0	TX20	50	4048962375077
	30	FPF II CTP 4,0 x 30 BC 200	670164	18	8.0	TX20	200	4048962370225
	30	FPF II CTP 4,0 x 30 BC 500	670165	18	8.0	TX20	500	4048962370232
	30	FPF II CTP 4,0 x 30 BC 1000	670626	18	8.0	TX20	1000	4048962374841
	35	FPF II CTP 4,0 x 35 BC 50	670651	24	8.0	TX20	50	4048962375091
	35	FPF II CTP 4,0 x 35 BC 200	670167	24	8.0	TX20	200	4048962370256
	35	FPF II CTP 4,0 x 35 BC 500	670168	24	8.0	TX20	500	4048962370263
	35	FPF II CTP 4,0 x 35 BC 1000	670166	24	8.0	TX20	1000	4048962370249
	40	FPF II CTP 4,0 x 40 BC 50	670653	28	8.0	TX20	50	4048962375114
	40	FPF II CTP 4,0 x 40 BC 200	670170	28	8.0	TX20	200	4048962370287
	40	FPF II CTP 4,0 x 40 BC 1000	670169	28	8.0	TX20	1000	4048962370270
	45	FPF II CTP 4,0 x 45 BC 50	670655	30	8.0	TX20	50	4048962375138
	45	FPF II CTP 4,0 x 45 BC 200	670171	30	8.0	TX20	200	4048962370294
	45	FPF II CTP 4,0 x 45 BC 500	670172	30	8.0	TX20	500	4048962370300
	50	FPF II CTP 4,0 x 50 BC 50	670657	30	8.0	TX20	50	4048962375152
	50	FPF II CTP 4,0 x 50 BC 200	670173	30	8.0	TX20	200	4048962370317
	50	FPF II CTP 4,0 x 50 BC 500	670174	30	8.0	TX20	500	4048962370324
	60	FPF II CTP 4,0 x 60 BC 50	670658	36	8.0	TX20	50	4048962375169
	60	FPF II CTP 4,0 x 60 BC 100	670175	36	8.0	TX20	100	4048962370331
	60	FPF II CTP 4,0 x 60 BC 200	670176	36	8.0	TX20	200	4048962370348
	60	FPF II CTP 4,0 x 60 BC 500	670177	36	8.0	TX20	500	4048962370355

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Partial thread

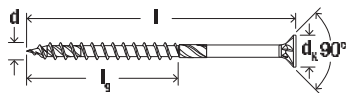
Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.0	70	FPF II CTP 4,0 x 70 BC 50	670659	42	8.0	TX20	50	4048962375176
	70	FPF II CTP 4,0 x 70 BC 100	670178	42	8.0	TX20	100	4048962370362
	70	FPF II CTP 4,0 x 70 BC 200	670179	42	8.0	TX20	200	4048962370379
	70	FPF II CTP 4,0 x 70 BC 500	670180	42	8.0	TX20	500	4048962370386
4.5	35	FPF II CTP 4,5 x 35 BC 50	670662	24	9.0	TX20	50	4048962375206
	35	FPF II CTP 4,5 x 35 BC 200	670266	24	9.0	TX20	200	4048962371246
	35	FPF II CTP 4,5 x 35 BC 500	670267	24	9.0	TX20	500	4048962371253
	40	FPF II CTP 4,5 x 40 BC 50	670664	28	9.0	TX20	50	4048962375220
	40	FPF II CTP 4,5 x 40 BC 200	670268	28	9.0	TX20	200	4048962371260
	40	FPF II CTP 4,5 x 40 BC 500	670269	28	9.0	TX20	500	4048962371277
	45	FPF II CTP 4,5 x 45 BC 50	670666	30	9.0	TX20	50	4048962375244
	45	FPF II CTP 4,5 x 45 BC 200	670270	30	9.0	TX20	200	4048962371284
	45	FPF II CTP 4,5 x 45 BC 500	670271	30	9.0	TX20	500	4048962371291
	50	FPF II CTP 4,5 x 50 BC 50	670668	30	9.0	TX20	50	4048962375268
	50	FPF II CTP 4,5 x 50 BC 200	670272	30	9.0	TX20	200	4048962371307
	50	FPF II CTP 4,5 x 50 BC 500	670273	30	9.0	TX20	500	4048962371314
	60	FPF II CTP 4,5 x 60 BC 50	670669	36	9.0	TX20	50	4048962375275
	60	FPF II CTP 4,5 x 60 BC 100	670274	36	9.0	TX20	100	4048962371321
	60	FPF II CTP 4,5 x 60 BC 200	670632	36	9.0	TX20	200	4048962374902
	60	FPF II CTP 4,5 x 60 BC 500	670275	36	9.0	TX20	500	4048962371338
	70	FPF II CTP 4,5 x 70 BC 50	670670	42	9.0	TX20	50	4048962375282
	70	FPF II CTP 4,5 x 70 BC 100	670276	42	9.0	TX20	100	4048962371345
	70	FPF II CTP 4,5 x 70 BC 200	670633	42	9.0	TX20	200	4048962374919
	70	FPF II CTP 4,5 x 70 BC 500	670277	42	9.0	TX20	500	4048962371352
	80	FPF II CTP 4,5 x 80 BC 50	670671	45	9.0	TX20	50	4048962375299
	80	FPF II CTP 4,5 x 80 BC 100	670278	45	9.0	TX20	100	4048962371369
	80	FPF II CTP 4,5 x 80 BC 200	670279	45	9.0	TX20	100	4048962371376
	80	FPF II CTP 4,5 x 80 BC 500	670280	45	9.0	TX20	500	4048962371383
5.0	35	FPF II CTP 5,0 x 35 BC 50	670676	24	10.0	TX20	50	4048962375343
	35	FPF II CTP 5,0 x 35 BC 200	670370	24	10.0	TX20	200	4048962372281
	35	FPF II CTP 5,0 x 35 BC 500	670371	24	10.0	TX20	500	4048962372298
	40	FPF II CTP 5,0 x 40 BC 50	670677	28	10.0	TX20	50	4048962375350
	40	FPF II CTP 5,0 x 40 BC 200	670372	28	10.0	TX20	200	4048962372304
	40	FPF II CTP 5,0 x 40 BC 500	670373	28	10.0	TX20	500	4048962372311
	45	FPF II CTP 5,0 x 45 BC 50	670679	30	10.0	TX20	50	4048962375374
	45	FPF II CTP 5,0 x 45 BC 200	670374	30	10.0	TX20	200	4048962372328
	45	FPF II CTP 5,0 x 45 BC 500	670375	30	10.0	TX20	500	4048962372335
	50	FPF II CTP 5,0 x 50 BC 50	670681	30	10.0	TX20	50	4048962375398
	50	FPF II CTP 5,0 x 50 BC 200	670376	30	10.0	TX20	200	4048962372342
	50	FPF II CTP 5,0 x 50 BC 500	670377	30	10.0	TX20	500	4048962372359
	60	FPF II CTP 5,0 x 60 BC 50	670683	36	10.0	TX20	50	4048962375411
	60	FPF II CTP 5,0 x 60 BC 100	670378	36	10.0	TX20	100	4048962372366
	60	FPF II CTP 5,0 x 60 BC 200	670642	36	10.0	TX20	200	4048962375008
	60	FPF II CTP 5,0 x 60 BC 500	670379	36	10.0	TX20	500	4048962372373
	70	FPF II CTP 5,0 x 70 BC 50	670685	42	10.0	TX20	50	4048962375435
	70	FPF II CTP 5,0 x 70 BC 100	670380	42	10.0	TX20	100	4048962372380

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Partial thread

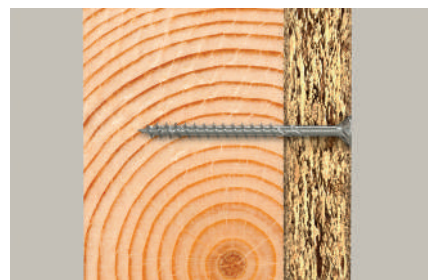
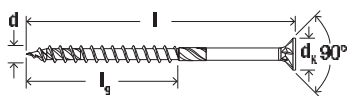
Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
5.0	70	FPF II CTP 5,0 x 70 BC 200	670381	42	10.0	TX20	200	4048962372397
	80	FPF II CTP 5,0 x 80 BC 50	670686	45	10.0	TX20	50	4048962375442
	80	FPF II CTP 5,0 x 80 BC 100	670382	45	10.0	TX20	100	4048962372403
	80	FPF II CTP 5,0 x 80 BC 200	670383	45	10.0	TX20	200	4048962372410
	90	FPF II CTP 5,0 x 90 BC 50	670687	54	10.0	TX20	50	4048962375459
	90	FPF II CTP 5,0 x 90 BC 100	670384	54	10.0	TX20	100	4048962372427
	90	FPF II CTP 5,0 x 90 BC 200	670385	54	10.0	TX20	200	4048962372434
	100	FPF II CTP 5,0 x 100 BC 50	670672	60	10.0	TX20	50	4048962375305
	100	FPF II CTP 5,0 x 100 BC 100	670364	60	10.0	TX20	100	4048962372229
	100	FPF II CTP 5,0 x 100 BC 200	670365	60	10.0	TX20	200	4048962372236
	110	FPF II CTP 5,0 x 110 BC 50	670673	70	10.0	TX20	50	4048962375312
	110	FPF II CTP 5,0 x 110 BC 100	670366	70	10.0	TX20	100	4048962372243
	110	FPF II CTP 5,0 x 110 BC 200	670367	70	10.0	TX20	200	4048962372250
	120	FPF II CTP 5,0 x 120 BC 50	670674	70	10.0	TX20	50	4048962375329
	120	FPF II CTP 5,0 x 120 BC 100	670368	70	10.0	TX20	100	4048962372267
	120	FPF II CTP 5,0 x 120 BC 200	670369	70	10.0	TX20	200	4048962372274
6.0	40	FPF II CTP 6,0 x 40 BC 200	670476	28	12.0	TX30	200	4048962373349
	40	FPF II CTP 6,0 x 40 BC 500	670477	28	12.0	TX30	500	4048962373356
	50	FPF II CTP 6,0 x 50 BC 100	670478	30	12.0	TX30	100	4048962373363
	50	FPF II CTP 6,0 x 50 BC 200	670479	30	12.0	TX30	200	4048962373370
	50	FPF II CTP 6,0 x 50 BC 400	670480	30	12.0	TX30	400	4048962373387
	60	FPF II CTP 6,0 x 60 BC 100	670481	36	12.0	TX30	100	4048962373394
	60	FPF II CTP 6,0 x 60 BC 200	670482	36	12.0	TX30	200	4048962373400
	70	FPF II CTP 6,0 x 70 BC 100	670483	42	12.0	TX30	100	4048962373417
	70	FPF II CTP 6,0 x 70 BC 200	670484	42	12.0	TX30	200	4048962373424
	80	FPF II CTP 6,0 x 80 BC 100	670485	45	12.0	TX30	100	4048962373431
	80	FPF II CTP 6,0 x 80 BC 200	670486	45	12.0	TX30	200	4048962373448
	90	FPF II CTP 6,0 x 90 BC 100	670487	54	12.0	TX30	100	4048962373455
	90	FPF II CTP 6,0 x 90 BC 200	670647	54	12.0	TX30	200	4048962375053
	100	FPF II CTP 6,0 x 100 BC 25	670458	60	12.0	TX30	25	4048962373165
	100	FPF II CTP 6,0 x 100 BC 50	670688	60	12.0	TX30	50	4048962375466
	100	FPF II CTP 6,0 x 100 BC 100	670457	60	12.0	TX30	100	4048962373158
	110	FPF II CTP 6,0 x 110 BC 50	670689	70	12.0	TX30	50	4048962375473
	110	FPF II CTP 6,0 x 110 BC 100	670459	70	12.0	TX30	100	4048962373172
	120	FPF II CTP 6,0 x 120 BC 50	670690	70	12.0	TX30	50	4048962375480
	120	FPF II CTP 6,0 x 120 BC 100	670460	70	12.0	TX30	100	4048962373189
	130	FPF II CTP 6,0 x 130 BC 50	670691	70	12.0	TX30	50	4048962375497
	130	FPF II CTP 6,0 x 130 BC 100	670461	70	12.0	TX30	100	4048962373196
	140	FPF II CTP 6,0 x 140 BC 50	670692	70	12.0	TX30	50	4048962375503
	140	FPF II CTP 6,0 x 140 BC 100	670462	70	12.0	TX30	100	4048962373202
	150	FPF II CTP 6,0 x 150 BC 50	670693	70	12.0	TX30	50	4048962375510
	150	FPF II CTP 6,0 x 150 BC 100	670463	70	12.0	TX30	100	4048962373219
	160	FPF II CTP 6,0 x 160 BC 50	670694	70	12.0	TX30	50	4048962375527
	160	FPF II CTP 6,0 x 160 BC 100	670464	70	12.0	TX30	100	4048962373226
	180	FPF II CTP 6,0 x 180 BC 50	670695	70	12.0	TX30	50	4048962375534
	180	FPF II CTP 6,0 x 180 BC 100	670465	70	12.0	TX30	100	4048962373233

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Partial thread

Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



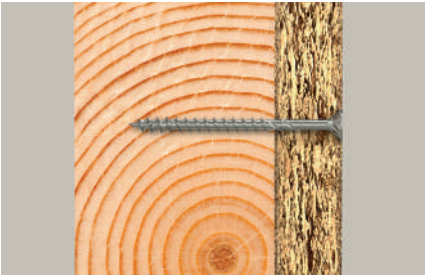
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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
6.0	200	FPF II CTP 6,0 x 200 BC 50	670696	70	12.0	TX30	50	4048962375541
	200	FPF II CTP 6,0 x 200 BC 100	670466	70	12.0	TX30	100	4048962373240
	220	FPF II CTP 6,0 x 220 BC 50	670467	70	12.0	TX30	50	4048962373257
	240	FPF II CTP 6,0 x 240 BC 25	670468	70	12.0	TX30	25	4048962373264
	240	FPF II CTP 6,0 x 240 BC 50	670469	70	12.0	TX30	50	4048962373271
	260	FPF II CTP 6,0 x 260 BC 25	670470	70	12.0	TX30	25	4048962373288
	260	FPF II CTP 6,0 x 260 BC 50	670471	70	12.0	TX30	50	4048962373295
	280	FPF II CTP 6,0 x 280 BC 25	670472	70	12.0	TX30	25	4048962373301
	260	FPF II CTP 6,0 x 280 BC 50	670473	70	12.0	TX30	50	4048962373318
	300	FPF II CTP 6,0 x 300 BC 25	670474	70	12.0	TX30	25	4048962373325
	300	FPF II CTP 6,0 x 300 BC 50	670475	70	12.0	TX30	50	4048962373332

FPF II CT25P BC

NEW

Technical data



Material: Steel
Coating: blue zinc plated
Drive: TX-Star recess
Thread: Partial thread
Screw head: Countersunk head
Approval: ETA-19/0175 - Screws for use in timber constructions

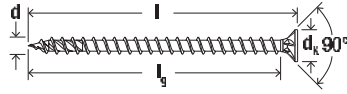


Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
5.0	50	FPF II CT25P 5,0 x 50 BC 200	670343	30	10.0	TX25	200	4048962372014
	60	FPF II CT25P 5,0 x 60 BC 200	670344	36	10.0	TX25	200	4048962372021
	70	FPF II CT25P 5,0 x 70 BC 200	670345	42	10.0	TX25	200	4048962372038
	80	FPF II CT25P 5,0 x 80 BC 200	670346	45	10.0	TX25	200	4048962372045
	90	FPF II CT25P 5,0 x 90 BC 200	670347	54	10.0	TX25	200	4048962372052
	100	FPF II CT25P 5,0 x 100 BC 100	670341	60	10.0	TX25	100	4048962371994
	120	FPF II CT25P 5,0 x 120 BC 100	670342	70	10.0	TX25	100	4048962372007

FPF II CTF BC


NEW

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Full thread

Screw head: Countersunk head

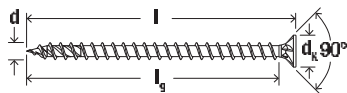
Approval: ETA-19/0175 - Screws for use in timber constructions



2

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	12	FPF II CTF 3,0 x 12 BC 200	670001	8	6.0	TX10	200	4048962368598
	12	FPF II CTF 3,0 x 12 BC 1000	670000	8	6.0	TX10	1000	4048962368581
	16	FPF II CTF 3,0 x 16 BC 200	670003	12	6.0	TX10	200	4048962368611
	16	FPF II CTF 3,0 x 16 BC 500	670004	12	6.0	TX10	500	4048962368628
	16	FPF II CTF 3,0 x 16 BC 1000	670002	12	6.0	TX10	1000	4048962368604
	20	FPF II CTF 3,0 x 20 BC 200	670006	16	6.0	TX10	200	4048962368642
	20	FPF II CTF 3,0 x 20 BC 500	670007	16	6.0	TX10	500	4048962368659
	20	FPF II CTF 3,0 x 20 BC 1000	670005	16	6.0	TX10	1000	4048962368635
	25	FPF II CTF 3,0 x 25 BC 200	670009	21	6.0	TX10	200	4048962368673
	25	FPF II CTF 3,0 x 25 BC 500	670010	21	6.0	TX10	500	4048962368680
	25	FPF II CTF 3,0 x 25 BC 1000	670008	21	6.0	TX10	1000	4048962368666
	30	FPF II CTF 3,0 x 30 BC 200	670012	26	6.0	TX10	200	4048962368703
	30	FPF II CTF 3,0 x 30 BC 500	670013	26	6.0	TX10	500	4048962368710
	30	FPF II CTF 3,0 x 30 BC 1000	670011	26	6.0	TX10	1000	4048962368697
	35	FPF II CTF 3,0 x 35 BC 200	670015	31	6.0	TX10	200	4048962368734
	35	FPF II CTF 3,0 x 35 BC 500	670621	31	6.0	TX10	500	4048962374797
	35	FPF II CTF 3,0 x 35 BC 1000	670014	31	6.0	TX10	1000	4048962368727
3.5	16	FPF II CTF 3,5 x 16 BC 200	670073	12	7.0	TX20	200	4048962369311
	16	FPF II CTF 3,5 x 16 BC 1000	670130	12	7.0	TX20	1000	4048962369885
	20	FPF II CTF 3,5 x 20 BC 200	670074	16	7.0	TX20	200	4048962369328
	20	FPF II CTF 3,5 x 20 BC 1000	670131	16	7.0	TX20	1000	4048962369892
	25	FPF II CTF 3,5 x 25 BC 200	670075	21	7.0	TX20	200	4048962369335
	25	FPF II CTF 3,5 x 25 BC 1000	670132	21	7.0	TX20	1000	4048962369908
	30	FPF II CTF 3,5 x 30 BC 200	670076	26	7.0	TX20	200	4048962369342
	30	FPF II CTF 3,5 x 30 BC 500	670120	26	7.0	TX20	500	4048962369786
	30	FPF II CTF 3,5 x 30 BC 1000	670133	26	7.0	TX20	1000	4048962369915
	35	FPF II CTF 3,5 x 35 BC 200	670077	31	7.0	TX20	200	4048962369359
	35	FPF II CTF 3,5 x 35 BC 300	670106	31	7.0	TX20	300	4048962369649
	35	FPF II CTF 3,5 x 35 BC 1000	670134	31	7.0	TX20	1000	4048962369922
	40	FPF II CTF 3,5 x 40 BC 200	670078	36	7.0	TX20	200	4048962369366
	40	FPF II CTF 3,5 x 40 BC 300	670107	36	7.0	TX20	300	4048962369656
	40	FPF II CTF 3,5 x 40 BC 500	670121	36	7.0	TX20	500	4048962369793
	45	FPF II CTF 3,5 x 45 BC 200	670079	41	7.0	TX20	200	4048962369373
	45	FPF II CTF 3,5 x 45 BC 500	670122	41	7.0	TX20	500	4048962369809
4.0	16	FPF II CTF 4,0 x 16 BC 200	670147	11	8.0	TX20	200	4048962370058
	16	FPF II CTF 4,0 x 16 BC 500	670148	11	8.0	TX20	500	4048962370065
	20	FPF II CTF 4,0 x 20 BC 200	670150	15	8.0	TX20	200	4048962370089
	20	FPF II CTF 4,0 x 20 BC 500	670151	15	8.0	TX20	500	4048962370096
	20	FPF II CTF 4,0 x 20 BC 1000	670149	15	8.0	TX20	1000	4048962370072
	25	FPF II CTF 4,0 x 25 BC 200	670152	20	8.0	TX20	200	4048962370102
	25	FPF II CTF 4,0 x 25 BC 500	670153	20	8.0	TX20	500	4048962370119
	25	FPF II CTF 4,0 x 25 BC 1000	670624	20	8.0	TX20	1000	4048962374827

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Full thread

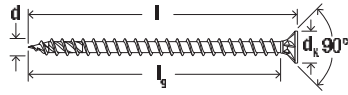
Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.0	30	FPF II CTF 4,0 x 30 BC 50	670648	25	8.0	TX20	50	4048962375060
	30	FPF II CTF 4,0 x 30 BC 200	670155	25	8.0	TX20	200	4048962370133
	30	FPF II CTF 4,0 x 30 BC 1000	670154	25	8.0	TX20	1000	4048962370126
	35	FPF II CTF 4,0 x 35 BC 50	670650	30	8.0	TX20	50	4048962375084
	35	FPF II CTF 4,0 x 35 BC 200	670156	30	8.0	TX20	200	4048962370140
	35	FPF II CTF 4,0 x 35 BC 500	670157	30	8.0	TX20	500	4048962370157
	35	FPF II CTF 4,0 x 35 BC 1000	670625	30	8.0	TX20	1000	4048962374834
	40	FPF II CTF 4,0 x 40 BC 50	670652	35	8.0	TX20	50	4048962375107
	40	FPF II CTF 4,0 x 40 BC 200	670159	35	8.0	TX20	200	4048962370171
	45	FPF II CTF 4,0 x 40 BC 1000	670158	35	8.0	TX20	1000	4048962370164
	45	FPF II CTF 4,0 x 45 BC 50	670654	40	8.0	TX20	50	4048962375121
	45	FPF II CTF 4,0 x 45 BC 200	670160	40	8.0	TX20	200	4048962370188
	45	FPF II CTF 4,0 x 45 BC 500	670161	40	8.0	TX20	500	4048962370195
	50	FPF II CTF 4,0 x 50 BC 50	670656	45	8.0	TX20	50	4048962375145
	50	FPF II CTF 4,0 x 50 BC 200	670162	45	8.0	TX20	200	4048962370201
	50	FPF II CTF 4,0 x 50 BC 500	670163	45	8.0	TX20	500	4048962370218
4.5	20	FPF II CTF 4,5 x 20 BC 200	670253	15	9.0	TX20	200	4048962371116
	20	FPF II CTF 4,5 x 20 BC 500	670630	15	9.0	TX20	500	4048962374889
	25	FPF II CTF 4,5 x 25 BC 200	670254	20	9.0	TX20	200	4048962371123
	25	FPF II CTF 4,5 x 25 BC 500	670255	20	9.0	TX20	500	4048962371130
	30	FPF II CTF 4,5 x 30 BC 50	670660	25	9.0	TX20	50	4048962375183
	30	FPF II CTF 4,5 x 30 BC 200	670256	25	9.0	TX20	200	4048962371147
	30	FPF II CTF 4,5 x 30 BC 500	670257	25	9.0	TX20	500	4048962371154
	35	FPF II CTF 4,5 x 35 BC 50	670661	30	9.0	TX20	50	4048962375190
	35	FPF II CTF 4,5 x 35 BC 200	670258	30	9.0	TX20	200	4048962371161
	35	FPF II CTF 4,5 x 35 BC 500	670259	30	9.0	TX20	500	4048962371178
	40	FPF II CTF 4,5 x 40 BC 50	670663	35	9.0	TX20	50	4048962375213
	40	FPF II CTF 4,5 x 40 BC 200	670260	35	9.0	TX20	200	4048962371185
	40	FPF II CTF 4,5 x 40 BC 500	670261	35	9.0	TX20	500	4048962371192
	45	FPF II CTF 4,5 x 45 BC 50	670665	40	9.0	TX20	50	4048962375237
	45	FPF II CTF 4,5 x 45 BC 200	670262	40	9.0	TX20	200	4048962371208
	45	FPF II CTF 4,5 x 45 BC 500	670263	40	9.0	TX20	500	4048962371215
	50	FPF II CTF 4,5 x 50 BC 50	670667	45	9.0	TX20	50	4048962375251
	50	FPF II CTF 4,5 x 50 BC 200	670264	45	9.0	TX20	200	4048962371222
	50	FPF II CTF 4,5 x 50 BC 500	670265	45	9.0	TX20	500	4048962371239
5.0	20	FPF II CTF 5,0 x 20 BC 200	670348	14	10.0	TX20	200	4048962372069
	25	FPF II CTF 5,0 x 25 BC 200	670349	19	10.0	TX20	200	4048962372076
	25	FPF II CTF 5,0 x 25 BC 500	670639	19	10.0	TX20	500	4048962374971
	30	FPF II CTF 5,0 x 30 BC 200	670350	24	10.0	TX20	200	4048962372083
	30	FPF II CTF 5,0 x 30 BC 500	670351	24	10.0	TX20	500	4048962372090
	35	FPF II CTF 5,0 x 35 BC 50	670675	29	10.0	TX20	50	4048962375336
	35	FPF II CTF 5,0 x 35 BC 200	670352	29	10.0	TX20	200	4048962372106
	35	FPF II CTF 5,0 x 35 BC 500	670353	29	10.0	TX20	500	4048962372113
	40	FPF II CTF 5,0 x 40 BC 200	670354	34	10.0	TX20	200	4048962372120
	40	FPF II CTF 5,0 x 40 BC 500	670355	34	10.0	TX20	500	4048962372137
	45	FPF II CTF 5,0 x 45 BC 50	670678	39	10.0	TX20	50	4048962375367

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Full thread

Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



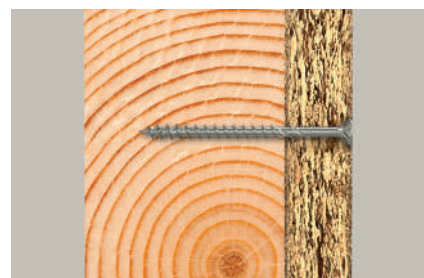
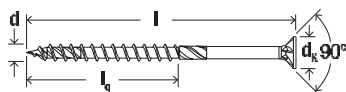
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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
5.0	45	FPF II CTF 5,0 x 45 BC 200	670356	39	10.0	TX20	200	4048962372144
	45	FPF II CTF 5,0 x 45 BC 500	670357	39	10.0	TX20	500	4048962372151
	50	FPF II CTF 5,0 x 50 BC 50	670680	44	10.0	TX20	50	4048962375381
	50	FPF II CTF 5,0 x 50 BC 200	670358	44	10.0	TX20	200	4048962372168
	50	FPF II CTF 5,0 x 50 BC 500	670359	44	10.0	TX20	500	4048962372175
	60	FPF II CTF 5,0 x 60 BC 50	670682	54	10.0	TX20	50	4048962375404
	60	FPF II CTF 5,0 x 60 BC 100	670360	54	10.0	TX20	100	4048962372182
	60	FPF II CTF 5,0 x 60 BC 200	670640	54	10.0	TX20	200	4048962374988
	60	FPF II CTF 5,0 x 60 BC 500	670361	54	10.0	TX20	500	4048962372199
	70	FPF II CTF 5,0 x 70 BC 50	670684	64	10.0	TX20	50	4048962375428
	70	FPF II CTF 5,0 x 70 BC 100	670362	64	10.0	TX20	100	4048962372205
	70	FPF II CTF 5,0 x 70 BC 200	670363	64	10.0	TX20	200	4048962372212
6.0	40	FPF II CTF 6,0 x 40 BC 200	670450	33	12.0	TX30	200	4048962373080
	40	FPF II CTF 6,0 x 40 BC 500	670451	33	12.0	TX30	500	4048962373097
	50	FPF II CTF 6,0 x 50 BC 100	670452	43	12.0	TX30	100	4048962373103
	50	FPF II CTF 6,0 x 50 BC 200	670453	43	12.0	TX30	200	4048962373110
	50	FPF II CTF 6,0 x 50 BC 400	670454	43	12.0	TX30	400	4048962373127
	60	FPF II CTF 6,0 x 60 BC 100	670455	53	12.0	TX30	100	4048962373134
	60	FPF II CTF 6,0 x 60 BC 200	670456	53	12.0	TX30	200	4048962373141

FPF II CTP BZ


NEW

Technical data



Material: Steel

Coating: Zinc flake coating

Drive: TX-Star recess

Thread: Partial thread

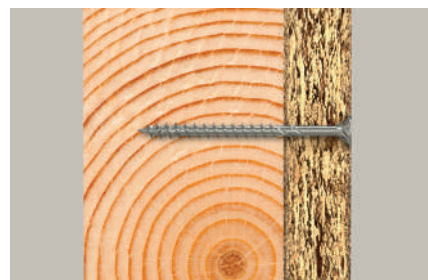
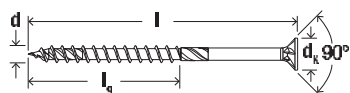
Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	30	FPF II CTP 3,5 x 30 BZ 200	670540	18	7.0	TX20	200	4048962373981
	35	FPF II CTP 3,5 x 35 BZ 200	670541	24	7.0	TX20	200	4048962373998
	35	FPF II CTP 3,5 x 35 BZ 500	670542	24	7.0	TX20	500	4048962374001
	40	FPF II CTP 3,5 x 40 BZ 200	670543	28	7.0	TX20	200	4048962374018
	50	FPF II CTP 3,5 x 50 BZ 200	670544	30	7.0	TX20	200	4048962374025
4.0	30	FPF II CTP 4,0 x 30 BZ 200	670551	18	8.0	TX20	200	4048962374094
	30	FPF II CTP 4,0 x 30 BZ 500	670552	18	8.0	TX20	500	4048962374100
	35	FPF II CTP 4,0 x 35 BZ 200	670553	24	8.0	TX20	200	4048962374117
	35	FPF II CTP 4,0 x 35 BZ 500	670554	24	8.0	TX20	500	4048962374124
	40	FPF II CTP 4,0 x 40 BZ 200	670555	28	8.0	TX20	200	4048962374131
	40	FPF II CTP 4,0 x 40 BZ 500	670556	28	8.0	TX20	500	4048962374148
	45	FPF II CTP 4,0 x 45 BZ 200	670557	30	8.0	TX20	200	4048962374155
	45	FPF II CTP 4,0 x 45 BZ 500	670558	30	8.0	TX20	500	4048962374162
	50	FPF II CTP 4,0 x 50 BZ 200	670559	30	8.0	TX20	200	4048962374179
	50	FPF II CTP 4,0 x 50 BZ 500	670560	30	8.0	TX20	500	4048962374186
	60	FPF II CTP 4,0 x 60 BZ 200	670561	36	8.0	TX20	200	4048962374193
	60	FPF II CTP 4,0 x 60 BZ 500	670627	36	8.0	TX20	500	4048962374858
	70	FPF II CTP 4,0 x 70 BZ 200	670562	42	8.0	TX20	200	4048962374209
	70	FPF II CTP 4,0 x 70 BZ 500	670628	42	8.0	TX20	500	4048962374865
4.5	30	FPF II CTP 4,5 x 30 BZ 200	670571	18	9.0	TX20	200	4048962374292
	35	FPF II CTP 4,5 x 35 BZ 100	670572	24	9.0	TX20	100	4048962374308
	35	FPF II CTP 4,5 x 35 BZ 200	670631	24	9.0	TX20	200	4048962374896
	40	FPF II CTP 4,5 x 40 BZ 200	670573	28	9.0	TX20	200	4048962374315
	50	FPF II CTP 4,5 x 50 BZ 200	670574	30	9.0	TX20	200	4048962374322
	60	FPF II CTP 4,5 x 60 BZ 200	670575	36	9.0	TX20	200	4048962374339
	70	FPF II CTP 4,5 x 70 BZ 200	670576	42	9.0	TX20	200	4048962374346
	80	FPF II CTP 4,5 x 80 BZ 200	670577	45	9.0	TX20	200	4048962374353
5.0	30	FPF II CTP 5,0 x 30 BZ 200	670592	18	10.0	TX20	200	4048962374506
	40	FPF II CTP 5,0 x 40 BZ 200	670593	28	10.0	TX20	200	4048962374513
	45	FPF II CTP 5,0 x 45 BZ 200	670594	30	10.0	TX20	200	4048962374520
	50	FPF II CTP 5,0 x 50 BZ 200	670595	30	10.0	TX20	200	4048962374537
	60	FPF II CTP 5,0 x 60 BZ 200	670596	36	10.0	TX20	200	4048962374544
	70	FPF II CTP 5,0 x 70 BZ 200	670597	42	10.0	TX20	200	4048962374551
	80	FPF II CTP 5,0 x 80 BZ 200	670598	45	10.0	TX20	200	4048962374568
	90	FPF II CTP 5,0 x 90 BZ 200	670599	54	10.0	TX20	200	4048962374575
	100	FPF II CTP 5,0 x 100 BZ 100	670589	60	10.0	TX20	100	4048962374476
	100	FPF II CTP 5,0 x 100 BZ 200	670590	60	10.0	TX20	200	4048962374483
	120	FPF II CTP 5,0 x 120 BZ 100	670591	70	10.0	TX20	100	4048962374490
	120	FPF II CTP 5,0 x 120 BZ 200	670641	70	10.0	TX20	200	4048962374995
6.0	50	FPF II CTP 6,0 x 50 BZ 200	670615	30	12.0	TX30	200	4048962374735
	60	FPF II CTP 6,0 x 60 BZ 200	670616	36	12.0	TX30	200	4048962374742
	70	FPF II CTP 6,0 x 70 BZ 200	670617	42	12.0	TX30	200	4048962374759

Technical data



Material: Steel

Coating: Zinc flake coating

Drive: TX-Star recess

Thread: Partial thread

Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



2

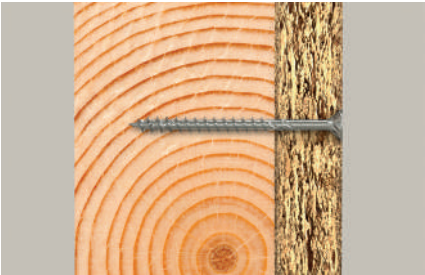
Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
6.0	80	FPF II CTP 6,0 x 80 BZ 200	670618	45	12.0	TX30	200	4048962374766
	90	FPF II CTP 6,0 x 90 BZ 200	670619	54	12.0	TX30	200	4048962374773
	100	FPF II CTP 6,0 x 100 BZ 100	670608	60	12.0	TX30	100	4048962374667
	120	FPF II CTP 6,0 x 120 BZ 100	670609	70	12.0	TX30	100	4048962374674
	150	FPF II CTP 6,0 x 150 BZ 100	670610	70	12.0	TX30	100	4048962374681
	160	FPF II CTP 6,0 x 160 BZ 100	670611	70	12.0	TX30	100	4048962374698
	180	FPF II CTP 6,0 x 180 BZ 100	670612	70	12.0	TX30	100	4048962374704
	200	FPF II CTP 6,0 x 200 BZ 100	670613	70	12.0	TX30	100	4048962374711
	220	FPF II CTP 6,0 x 220 BZ 50	670614	70	12.0	TX30	50	4048962374728

FPF II CT25P BZ

NEW

Technical data

2



Material: Steel
Coating: Zinc flake coating
Drive: TX-Star recess
Thread: Partial thread
Screw head: Countersunk head
Approval: ETA-19/0175 - Screws for use in timber constructions

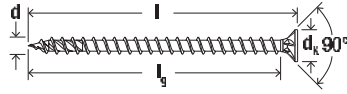


Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
5.0	50	FPF II CT25P 5,0 x 50 BZ 200	670584	30	10.0	TX25	200	4048962374421
	60	FPF II CT25P 5,0 x 60 BZ 200	670585	36	10.0	TX25	200	4048962374438
	70	FPF II CT25P 5,0 x 70 BZ 200	670586	42	10.0	TX25	200	4048962374445
	80	FPF II CT25P 5,0 x 80 BZ 200	670587	45	10.0	TX25	200	4048962374452
	90	FPF II CT25P 5,0 x 90 BZ 200	670588	54	10.0	TX25	200	4048962374469
	100	FPF II CT25P 5,0 x 100 BZ 100	670582	60	10.0	TX25	100	4048962374407
	100	FPF II CT25P 5,0 x 100 BZ 200	670637	60	10.0	TX25	200	4048962374957
	120	FPF II CT25P 5,0 x 120 BZ 100	670583	70	10.0	TX25	100	4048962374414
	120	FPF II CT25P 5,0 x 120 BZ 200	670638	70	10.0	TX25	200	4048962374964

FPF II CTF BZ

NEW

Technical data



Material: Steel

Coating: Zinc flake coating

Drive: TX-Star recess

Thread: Full thread

Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



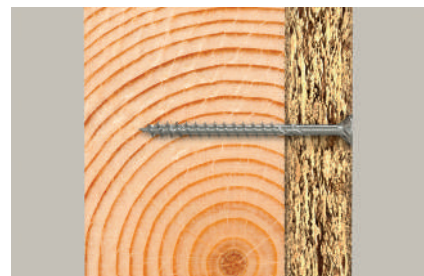
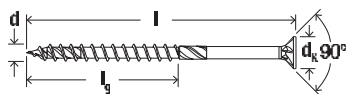
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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	25	FPF II CTF 3,5 x 25 BZ 200	670539	21	7.0	TX20	200	4048962373974
4.0	20	FPF II CTF 4,0 x 20 BZ 200	670547	15	8.0	TX20	200	4048962374056
	20	FPF II CTF 4,0 x 20 BZ 500	670548	15	8.0	TX20	500	4048962374063
	25	FPF II CTF 4,0 x 25 BZ 200	670549	20	8.0	TX20	200	4048962374070
	25	FPF II CTF 4,0 x 25 BZ 500	670550	20	8.0	TX20	500	4048962374087
4.5	20	FPF II CTF 4,5 x 20 BZ 200	670569	15	8.0	TX20	200	4048962374278
	25	FPF II CTF 4,5 x 25 BZ 200	670570	20	8.0	TX20	200	4048962374285

FPF II CZP BC


NEW

Technical data



Material: Steel

Coating: blue zinc plated

Drive: Cross drive PZ

Thread: Partial thread

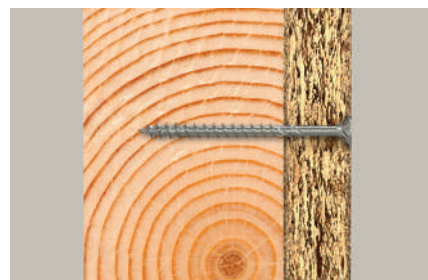
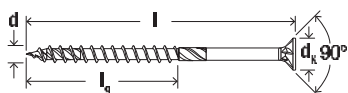
Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	35	FPF II CZP 3,0 x 35 BC 100	670044	24	6.0	PZ1	100	4048962369021
	35	FPF II CZP 3,0 x 35 BC 200	670046	24	6.0	PZ1	200	4048962369045
	35	FPF II CZP 3,0 x 35 BC 300	670047	24	6.0	PZ1	300	4048962369052
	35	FPF II CZP 3,0 x 35 BC 1000	670045	24	6.0	PZ1	1000	4048962369038
	40	FPF II CZP 3,0 x 40 BC 100	670048	28	6.0	PZ1	100	4048962369069
	40	FPF II CZP 3,0 x 40 BC 200	670050	28	6.0	PZ1	200	4048962369083
	40	FPF II CZP 3,0 x 40 BC 300	670051	28	6.0	PZ1	300	4048962369090
	40	FPF II CZP 3,0 x 40 BC 1000	670049	28	6.0	PZ1	1000	4048962369076
	45	FPF II CZP 3,0 x 45 BC 100	670052	30	6.0	PZ1	100	4048962369106
	45	FPF II CZP 3,0 x 45 BC 200	670054	30	6.0	PZ1	200	4048962369120
	45	FPF II CZP 3,0 x 45 BC 300	670055	30	6.0	PZ1	300	4048962369137
	45	FPF II CZP 3,0 x 45 BC 1000	670053	30	6.0	PZ1	1000	4048962369113
3.5	30	FPF II CZP 3,5 x 30 BC 200	670092	18	7.0	PZ2	200	4048962369502
	35	FPF II CZP 3,5 x 35 BC 100	670069	24	7.0	PZ2	100	4048962369274
	35	FPF II CZP 3,5 x 35 BC 200	670093	24	7.0	PZ2	200	4048962369519
	35	FPF II CZP 3,5 x 35 BC 300	670116	24	7.0	PZ2	300	4048962369748
	35	FPF II CZP 3,5 x 35 BC 1000	670145	24	7.0	PZ2	1000	4048962370034
	40	FPF II CZP 3,5 x 40 BC 100	670070	28	7.0	PZ2	100	4048962369281
	40	FPF II CZP 3,5 x 40 BC 200	670094	28	7.0	PZ2	200	4048962369526
	40	FPF II CZP 3,5 x 40 BC 300	670117	28	7.0	PZ2	300	4048962369755
	40	FPF II CZP 3,5 x 40 BC 1000	670146	28	7.0	PZ2	1000	4048962370041
	45	FPF II CZP 3,5 x 45 BC 100	670071	30	7.0	PZ2	100	4048962369298
	45	FPF II CZP 3,5 x 45 BC 200	670095	30	7.0	PZ2	200	4048962369533
	45	FPF II CZP 3,5 x 45 BC 300	670118	30	7.0	PZ2	300	4048962369762
	45	FPF II CZP 3,5 x 45 BC 500	670128	30	7.0	PZ2	500	4048962369861
	50	FPF II CZP 3,5 x 50 BC 100	670072	30	7.0	PZ2	100	4048962369304
	50	FPF II CZP 3,5 x 50 BC 200	670096	30	7.0	PZ2	200	4048962369540
	50	FPF II CZP 3,5 x 50 BC 300	670119	30	7.0	PZ2	300	4048962369779
4.0	30	FPF II CZP 4,0 x 30 BC 200	670210	18	8.0	PZ2	200	4048962370683
	30	FPF II CZP 4,0 x 30 BC 1000	670209	18	8.0	PZ2	1000	4048962370676
	35	FPF II CZP 4,0 x 35 BC 100	670211	24	8.0	PZ2	100	4048962370690
	35	FPF II CZP 4,0 x 35 BC 200	670213	24	8.0	PZ2	200	4048962370713
	35	FPF II CZP 4,0 x 35 BC 300	670214	24	8.0	PZ2	300	4048962370720
	35	FPF II CZP 4,0 x 35 BC 1000	670212	24	8.0	PZ2	1000	4048962370706
	40	FPF II CZP 4,0 x 40 BC 100	670215	28	8.0	PZ2	100	4048962370737
	40	FPF II CZP 4,0 x 40 BC 200	670217	28	8.0	PZ2	200	4048962370751
	40	FPF II CZP 4,0 x 40 BC 300	670218	28	8.0	PZ2	300	4048962370768
	40	FPF II CZP 4,0 x 40 BC 1000	670216	28	8.0	PZ2	1000	4048962370744
	45	FPF II CZP 4,0 x 45 BC 100	670219	30	8.0	PZ2	100	4048962370775
	45	FPF II CZP 4,0 x 45 BC 200	670220	30	8.0	PZ2	200	4048962370782
	45	FPF II CZP 4,0 x 45 BC 300	670221	30	8.0	PZ2	300	4048962370799
	45	FPF II CZP 4,0 x 45 BC 500	670222	30	8.0	PZ2	500	4048962370805

Technical data



Material: Steel

Coating: blue zinc plated

Drive: Cross drive PZ

Thread: Partial thread

Screw head: Countersunk head

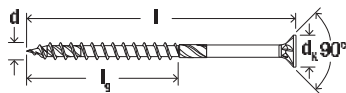
Approval: ETA-19/0175 - Screws for use in timber constructions



2

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.0	50	FPF II CZIP 4,0 x 50 BC 75	670225	30	8.0	PZ2	75	4048962370836
	50	FPF II CZIP 4,0 x 50 BC 200	670223	30	8.0	PZ2	200	4048962370812
	50	FPF II CZIP 4,0 x 50 BC 500	670224	30	8.0	PZ2	500	4048962370829
	60	FPF II CZIP 4,0 x 60 BC 50	670227	36	8.0	PZ2	50	4048962370850
	60	FPF II CZIP 4,0 x 60 BC 200	670226	36	8.0	PZ2	200	4048962370843
	60	FPF II CZIP 4,0 x 60 BC 500	670228	36	8.0	PZ2	500	4048962370867
	70	FPF II CZIP 4,0 x 70 BC 50	670231	42	8.0	PZ2	50	4048962370898
	70	FPF II CZIP 4,0 x 70 BC 100	670229	42	8.0	PZ2	100	4048962370874
	70	FPF II CZIP 4,0 x 70 BC 200	670230	42	8.0	PZ2	200	4048962370881
	70	FPF II CZIP 4,0 x 70 BC 500	670232	42	8.0	PZ2	500	4048962370904
4.5	35	FPF II CZIP 4,5 x 35 BC 100	670306	24	9.0	PZ2	100	4048962371642
	35	FPF II CZIP 4,5 x 35 BC 200	670307	24	9.0	PZ2	200	4048962371659
	35	FPF II CZIP 4,5 x 35 BC 500	670308	24	9.0	PZ2	500	4048962371666
	40	FPF II CZIP 4,5 x 40 BC 50	670310	28	9.0	PZ2	50	4048962371680
	40	FPF II CZIP 4,5 x 40 BC 200	670309	28	9.0	PZ2	200	4048962371673
	40	FPF II CZIP 4,5 x 40 BC 500	670311	28	9.0	PZ2	500	4048962371697
	45	FPF II CZIP 4,5 x 45 BC 50	670313	30	9.0	PZ2	50	4048962371710
	45	FPF II CZIP 4,5 x 45 BC 200	670312	30	9.0	PZ2	200	4048962371703
	45	FPF II CZIP 4,5 x 45 BC 500	670314	30	9.0	PZ2	500	4048962371727
	50	FPF II CZIP 4,5 x 50 BC 50	670316	30	9.0	PZ2	50	4048962371741
	50	FPF II CZIP 4,5 x 50 BC 200	670315	30	9.0	PZ2	200	4048962371734
	50	FPF II CZIP 4,5 x 50 BC 500	670317	30	9.0	PZ2	500	4048962371758
	60	FPF II CZIP 4,5 x 60 BC 50	670320	36	9.0	PZ2	50	4048962371789
	60	FPF II CZIP 4,5 x 60 BC 100	670318	36	9.0	PZ2	100	4048962371765
	60	FPF II CZIP 4,5 x 60 BC 200	670319	36	9.0	PZ2	200	4048962371772
	60	FPF II CZIP 4,5 x 60 BC 500	670321	36	9.0	PZ2	500	4048962371796
	70	FPF II CZIP 4,5 x 70 BC 50	670324	42	9.0	PZ2	50	4048962371826
	70	FPF II CZIP 4,5 x 70 BC 100	670322	42	9.0	PZ2	100	4048962371802
	70	FPF II CZIP 4,5 x 70 BC 200	670323	42	9.0	PZ2	200	4048962371819
	70	FPF II CZIP 4,5 x 70 BC 500	670634	42	9.0	PZ2	500	4048962374926
	80	FPF II CZIP 4,5 x 80 BC 50	670326	45	9.0	PZ2	50	4048962371840
	80	FPF II CZIP 4,5 x 80 BC 200	670325	45	9.0	PZ2	200	4048962371833
	80	FPF II CZIP 4,5 x 80 BC 500	670635	45	9.0	PZ2	500	4048962374933
5.0	40	FPF II CZIP 5,0 x 40 BC 100	670643	28	10.0	PZ2	100	4048962375015
	40	FPF II CZIP 5,0 x 40 BC 200	670413	28	10.0	PZ2	200	4048962372717
	40	FPF II CZIP 5,0 x 40 BC 500	670414	28	10.0	PZ2	500	4048962372724
	45	FPF II CZIP 5,0 x 45 BC 50	670416	30	10.0	PZ2	50	4048962372748
	45	FPF II CZIP 5,0 x 45 BC 100	670644	30	10.0	PZ2	100	4048962375022
	45	FPF II CZIP 5,0 x 45 BC 200	670415	30	10.0	PZ2	200	4048962372731
	45	FPF II CZIP 5,0 x 45 BC 500	670417	30	10.0	PZ2	500	4048962372755
	50	FPF II CZIP 5,0 x 50 BC 50	670419	30	10.0	PZ2	50	4048962372779
	50	FPF II CZIP 5,0 x 50 BC 100	670645	30	10.0	PZ2	100	4048962375039
	50	FPF II CZIP 5,0 x 50 BC 200	670418	30	10.0	PZ2	200	4048962372762
	50	FPF II CZIP 5,0 x 50 BC 500	670420	30	10.0	PZ2	500	4048962372786
	60	FPF II CZIP 5,0 x 60 BC 50	670423	36	10.0	PZ2	50	4048962372816
	60	FPF II CZIP 5,0 x 60 BC 100	670421	36	10.0	PZ2	100	4048962372793

Technical data



Material: Steel

Coating: blue zinc plated

Drive: Cross drive PZ

Thread: Partial thread

Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions

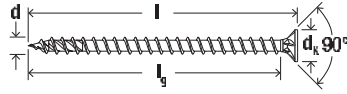


Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
5.0	60	FPF II CZP 5,0 x 60 BC 200	670422	36	10.0	PZ2	200	4048962372809
	60	FPF II CZP 5,0 x 60 BC 500	670424	36	10.0	PZ2	500	4048962372823
	70	FPF II CZP 5,0 x 70 BC 30	670427	42	10.0	PZ2	30	4048962372854
	70	FPF II CZP 5,0 x 70 BC 100	670425	42	10.0	PZ2	100	4048962372830
	70	FPF II CZP 5,0 x 70 BC 200	670426	42	10.0	PZ2	200	4048962372847
	80	FPF II CZP 5,0 x 80 BC 30	670430	45	10.0	PZ2	30	4048962372885
	80	FPF II CZP 5,0 x 80 BC 100	670428	45	10.0	PZ2	100	4048962372861
	80	FPF II CZP 5,0 x 80 BC 200	670429	45	10.0	PZ2	200	4048962372878
	90	FPF II CZP 5,0 x 90 BC 30	670433	54	10.0	PZ2	30	4048962372915
	90	FPF II CZP 5,0 x 90 BC 100	670431	54	10.0	PZ2	100	4048962372892
	90	FPF II CZP 5,0 x 90 BC 200	670432	54	10.0	PZ2	200	4048962372908
	100	FPF II CZP 5,0 x 100 BC 30	670409	60	10.0	PZ2	30	4048962372670
	100	FPF II CZP 5,0 x 100 BC 100	670407	60	10.0	PZ2	100	4048962372656
	100	FPF II CZP 5,0 x 100 BC 200	670408	60	10.0	PZ2	200	4048962372663
	120	FPF II CZP 5,0 x 120 BC 30	670412	70	10.0	PZ2	30	4048962372700
	120	FPF II CZP 5,0 x 120 BC 100	670410	70	10.0	PZ2	100	4048962372687
	120	FPF II CZP 5,0 x 120 BC 200	670411	70	10.0	PZ2	200	4048962372694
6.0	40	FPF II CZP 6,0 x 40 BC 50	670514	28	12.0	PZ3	50	4048962373721
	40	FPF II CZP 6,0 x 40 BC 200	670513	28	12.0	PZ3	200	4048962373714
	40	FPF II CZP 6,0 x 40 BC 500	670515	28	12.0	PZ3	500	4048962373738
	50	FPF II CZP 6,0 x 50 BC 30	670518	30	12.0	PZ3	30	4048962373769
	50	FPF II CZP 6,0 x 50 BC 100	670516	30	12.0	PZ3	100	4048962373745
	50	FPF II CZP 6,0 x 50 BC 200	670517	30	12.0	PZ3	200	4048962373752
	60	FPF II CZP 6,0 x 60 BC 30	670521	36	12.0	PZ3	30	4048962373790
	60	FPF II CZP 6,0 x 60 BC 100	670519	36	12.0	PZ3	100	4048962373776
	60	FPF II CZP 6,0 x 60 BC 200	670520	36	12.0	PZ3	200	4048962373783
	70	FPF II CZP 6,0 x 70 BC 30	670524	42	12.0	PZ3	30	4048962373820
	70	FPF II CZP 6,0 x 70 BC 100	670522	42	12.0	PZ3	100	4048962373806
	70	FPF II CZP 6,0 x 70 BC 200	670523	42	12.0	PZ3	200	4048962373813
	80	FPF II CZP 6,0 x 80 BC 30	670527	45	12.0	PZ3	30	4048962373851
	80	FPF II CZP 6,0 x 80 BC 100	670525	45	12.0	PZ3	100	4048962373837
	80	FPF II CZP 6,0 x 80 BC 200	670526	45	12.0	PZ3	200	4048962373844
	90	FPF II CZP 6,0 x 90 BC 100	670528	54	12.0	PZ3	100	4048962373868
	90	FPF II CZP 6,0 x 90 BC 200	670529	54	12.0	PZ3	200	4048962373875
	100	FPF II CZP 6,0 x 100 BC 25	670501	60	12.0	PZ3	25	4048962373592
	100	FPF II CZP 6,0 x 100 BC 100	670500	60	12.0	PZ3	100	4048962373585
	120	FPF II CZP 6,0 x 120 BC 25	670503	70	12.0	PZ3	25	4048962373615
	120	FPF II CZP 6,0 x 120 BC 100	670502	70	12.0	PZ3	100	4048962373608
	140	FPF II CZP 6,0 x 140 BC 25	670505	70	12.0	PZ3	25	4048962373639
	140	FPF II CZP 6,0 x 140 BC 100	670504	70	12.0	PZ3	100	4048962373622
	160	FPF II CZP 6,0 x 160 BC 100	670506	70	12.0	PZ3	100	4048962373646
	180	FPF II CZP 6,0 x 180 BC 25	670508	70	12.0	PZ3	25	4048962373660
	180	FPF II CZP 6,0 x 180 BC 100	670507	70	12.0	PZ3	100	4048962373653
	200	FPF II CZP 6,0 x 200 BC 25	670510	70	12.0	PZ3	25	4048962373684
	200	FPF II CZP 6,0 x 200 BC 100	670509	70	12.0	PZ3	100	4048962373677
	300	FPF II CZP 6,0 x 300 BC 25	670511	70	12.0	PZ3	25	4048962373691
	300	FPF II CZP 6,0 x 300 BC 50	670512	70	12.0	PZ3	50	4048962373707

FPF II CZF BC

NEW

Technical data



Material: Steel

Coating: blue zinc plated

Drive: Cross drive PZ

Thread: Full thread

Screw head: Countersunk head

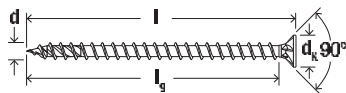
Approval: ETA-19/0175 - Screws for use in timber constructions



2

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	12	FPF II CZF 3,0 x 12 BC 200	670023	8	6.0	PZ1	200	4048962368819
	12	FPF II CZF 3,0 x 12 BC 300	670024	8	6.0	PZ1	300	4048962368826
	12	FPF II CZF 3,0 x 12 BC 500	670025	8	6.0	PZ1	500	4048962368833
	12	FPF II CZF 3,0 x 12 BC 1000	670022	8	6.0	PZ1	1000	4048962368802
	16	FPF II CZF 3,0 x 16 BC 200	670027	12	6.0	PZ1	200	4048962368857
	16	FPF II CZF 3,0 x 16 BC 300	670028	12	6.0	PZ1	300	4048962368864
	16	FPF II CZF 3,0 x 16 BC 1000	670026	12	6.0	PZ1	1000	4048962368840
	20	FPF II CZF 3,0 x 20 BC 200	670030	16	6.0	PZ1	200	4048962368888
	20	FPF II CZF 3,0 x 20 BC 300	670031	16	6.0	PZ1	300	4048962368895
	20	FPF II CZF 3,0 x 20 BC 1000	670029	16	6.0	PZ1	1000	4048962368871
	25	FPF II CZF 3,0 x 25 BC 100	670032	21	6.0	PZ1	100	4048962368901
	25	FPF II CZF 3,0 x 25 BC 200	670034	21	6.0	PZ1	200	4048962368925
	25	FPF II CZF 3,0 x 25 BC 300	670035	21	6.0	PZ1	300	4048962368932
	25	FPF II CZF 3,0 x 25 BC 1000	670033	21	6.0	PZ1	1000	4048962368918
	30	FPF II CZF 3,0 x 30 BC 100	670036	26	6.0	PZ1	100	4048962368949
	30	FPF II CZF 3,0 x 30 BC 200	670038	26	6.0	PZ1	200	4048962368963
	30	FPF II CZF 3,0 x 30 BC 300	670039	26	6.0	PZ1	300	4048962368970
	30	FPF II CZF 3,0 x 30 BC 1000	670037	26	6.0	PZ1	1000	4048962368956
	35	FPF II CZF 3,0 x 35 BC 100	670040	31	6.0	PZ1	100	4048962368987
	35	FPF II CZF 3,0 x 35 BC 200	670042	31	6.0	PZ1	200	4048962369007
	35	FPF II CZF 3,0 x 35 BC 300	670043	31	6.0	PZ1	300	4048962369014
	35	FPF II CZF 3,0 x 35 BC 1000	670041	31	6.0	PZ1	1000	4048962368994
3.5	12	FPF II CZF 3,5 x 12 BC 200	670085	8	7.0	PZ2	200	4048962369434
	12	FPF II CZF 3,5 x 12 BC 1000	670138	8	7.0	PZ2	1000	4048962369960
	16	FPF II CZF 3,5 x 16 BC 200	670086	12	7.0	PZ2	200	4048962369441
	16	FPF II CZF 3,5 x 16 BC 300	670110	12	7.0	PZ2	300	4048962369687
	16	FPF II CZF 3,5 x 16 BC 1000	670139	12	7.0	PZ2	1000	4048962369977
	18	FPF II CZF 3,5 x 18 BC 200	670623	14	7.0	PZ2	200	4048962374810
	18	FPF II CZF 3,5 x 18 BC 500	670127	14	7.0	PZ2	500	4048962369854
	20	FPF II CZF 3,5 x 20 BC 200	670087	16	7.0	PZ2	200	4048962369458
	20	FPF II CZF 3,5 x 20 BC 300	670111	16	7.0	PZ2	300	4048962369694
	20	FPF II CZF 3,5 x 20 BC 1000	670140	16	7.0	PZ2	1000	4048962369984
	25	FPF II CZF 3,5 x 25 BC 100	670065	21	7.0	PZ2	100	4048962369236
	25	FPF II CZF 3,5 x 25 BC 200	670088	21	7.0	PZ2	200	4048962369465
	25	FPF II CZF 3,5 x 25 BC 300	670112	21	7.0	PZ2	300	4048962369700
	25	FPF II CZF 3,5 x 25 BC 1000	670141	21	7.0	PZ2	1000	4048962369991
	30	FPF II CZF 3,5 x 30 BC 100	670066	26	7.0	PZ2	100	4048962369243
	30	FPF II CZF 3,5 x 30 BC 200	670089	26	7.0	PZ2	200	4048962369472
	30	FPF II CZF 3,5 x 30 BC 300	670113	26	7.0	PZ2	300	4048962369717
	30	FPF II CZF 3,5 x 30 BC 1000	670142	26	7.0	PZ2	1000	4048962370003
	35	FPF II CZF 3,5 x 35 BC 100	670067	31	7.0	PZ2	100	4048962369250
	35	FPF II CZF 3,5 x 35 BC 200	670090	31	7.0	PZ2	200	4048962369489

Technical data



Material: Steel

Coating: blue zinc plated

Drive: Cross drive PZ

Thread: Full thread

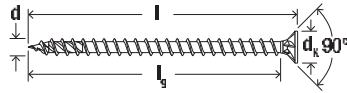
Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	35	FPF II CZF 3,5 x 35 BC 300	670114	31	7.0	PZ2	300	4048962369724
	35	FPF II CZF 3,5 x 35 BC 1000	670143	31	7.0	PZ2	1000	4048962370010
	40	FPF II CZF 3,5 x 40 BC 100	670068	36	7.0	PZ2	100	4048962369267
	40	FPF II CZF 3,5 x 40 BC 200	670091	36	7.0	PZ2	200	4048962369496
	40	FPF II CZF 3,5 x 40 BC 300	670115	36	7.0	PZ2	300	4048962369731
	40	FPF II CZF 3,5 x 40 BC 1000	670144	36	7.0	PZ2	1000	4048962370027
4.0	12	FPF II CZF 4,0 x 12 BC 200	670629	7	8.0	PZ2	200	4048962374872
	12	FPF II CZF 4,0 x 12 BC 300	670181	7	8.0	PZ2	300	4048962370393
	16	FPF II CZF 4,0 x 16 BC 200	670183	11	8.0	PZ2	200	4048962370416
	16	FPF II CZF 4,0 x 16 BC 300	670184	11	8.0	PZ2	300	4048962370423
	16	FPF II CZF 4,0 x 16 BC 1000	670182	11	8.0	PZ2	1000	4048962370409
	20	FPF II CZF 4,0 x 20 BC 100	670185	15	8.0	PZ2	100	4048962370430
	20	FPF II CZF 4,0 x 20 BC 200	670187	15	8.0	PZ2	200	4048962370454
	20	FPF II CZF 4,0 x 20 BC 300	670188	15	8.0	PZ2	300	4048962370461
	20	FPF II CZF 4,0 x 20 BC 1000	670186	15	8.0	PZ2	1000	4048962370447
	25	FPF II CZF 4,0 x 25 BC 100	670189	20	8.0	PZ2	100	4048962370478
	25	FPF II CZF 4,0 x 25 BC 200	670191	20	8.0	PZ2	200	4048962370492
	25	FPF II CZF 4,0 x 25 BC 300	670192	20	8.0	PZ2	300	4048962370508
	25	FPF II CZF 4,0 x 25 BC 1000	670190	20	8.0	PZ2	1000	4048962370485
	30	FPF II CZF 4,0 x 30 BC 100	670193	25	8.0	PZ2	100	4048962370515
	30	FPF II CZF 4,0 x 30 BC 200	670195	25	8.0	PZ2	200	4048962370539
	30	FPF II CZF 4,0 x 30 BC 300	670196	25	8.0	PZ2	300	4048962370546
	30	FPF II CZF 4,0 x 30 BC 1000	670194	25	8.0	PZ2	1000	4048962370522
	35	FPF II CZF 4,0 x 35 BC 100	670197	30	8.0	PZ2	100	4048962370553
	35	FPF II CZF 4,0 x 35 BC 200	670199	30	8.0	PZ2	200	4048962370577
	35	FPF II CZF 4,0 x 35 BC 300	670200	30	8.0	PZ2	300	4048962370584
	35	FPF II CZF 4,0 x 35 BC 1000	670198	30	8.0	PZ2	1000	4048962370560
	40	FPF II CZF 4,0 x 40 BC 100	670201	35	8.0	PZ2	100	4048962370591
	40	FPF II CZF 4,0 x 40 BC 200	670203	35	8.0	PZ2	200	4048962370614
	40	FPF II CZF 4,0 x 40 BC 300	670204	35	8.0	PZ2	300	4048962370621
	40	FPF II CZF 4,0 x 40 BC 1000	670202	35	8.0	PZ2	1000	4048962370607
	45	FPF II CZF 4,0 x 45 BC 200	670205	40	8.0	PZ2	200	4048962370638
	45	FPF II CZF 4,0 x 45 BC 500	670206	40	8.0	PZ2	500	4048962370645
	50	FPF II CZF 4,0 x 50 BC 200	670207	45	8.0	PZ2	200	4048962370652
	50	FPF II CZF 4,0 x 50 BC 500	670208	45	8.0	PZ2	500	4048962370669
4.5	16	FPF II CZF 4,5 x 16 BC 100	670281	11	9.0	PZ2	100	4048962371390
	16	FPF II CZF 4,5 x 16 BC 200	670283	11	9.0	PZ2	200	4048962371413
	16	FPF II CZF 4,5 x 16 BC 300	670284	11	9.0	PZ2	300	4048962371420
	16	FPF II CZF 4,5 x 16 BC 1000	670282	11	9.0	PZ2	1000	4048962371406
	20	FPF II CZF 4,5 x 20 BC 100	670285	15	9.0	PZ2	100	4048962371437
	20	FPF II CZF 4,5 x 20 BC 200	670287	15	9.0	PZ2	200	4048962371451
	20	FPF II CZF 4,5 x 20 BC 300	670288	15	9.0	PZ2	300	4048962371468
	20	FPF II CZF 4,5 x 20 BC 1000	670286	15	9.0	PZ2	1000	4048962371444
	25	FPF II CZF 4,5 x 25 BC 100	670289	20	9.0	PZ2	100	4048962371475
	25	FPF II CZF 4,5 x 25 BC 200	670291	20	9.0	PZ2	200	4048962371499
	25	FPF II CZF 4,5 x 25 BC 300	670292	20	9.0	PZ2	300	4048962371505

Technical data



Material: Steel

Coating: blue zinc plated

Drive: Cross drive PZ

Thread: Full thread

Screw head: Countersunk head

Approval: ETA-19/0175 - Screws for use in timber constructions



2

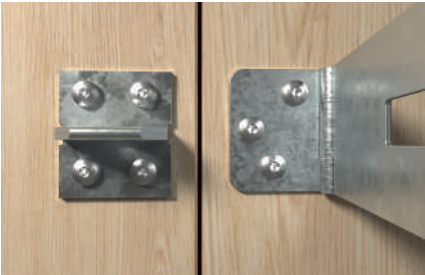
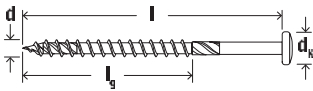
Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.5	25	FPF II CZF 4,5 x 25 BC 1000	670290	20	9.0	PZ2	1000	4048962371482
	30	FPF II CZF 4,5 x 30 BC 100	670293	25	9.0	PZ2	100	4048962371512
	30	FPF II CZF 4,5 x 30 BC 200	670295	25	9.0	PZ2	200	4048962371536
	30	FPF II CZF 4,5 x 30 BC 300	670296	25	9.0	PZ2	300	4048962371543
	30	FPF II CZF 4,5 x 30 BC 1000	670294	25	9.0	PZ2	1000	4048962371529
	35	FPF II CZF 4,5 x 35 BC 100	670297	30	9.0	PZ2	100	4048962371550
	35	FPF II CZF 4,5 x 35 BC 200	670298	30	9.0	PZ2	100	4048962371567
	35	FPF II CZF 4,5 x 35 BC 500	670299	30	9.0	PZ2	500	4048962371574
	40	FPF II CZF 4,5 x 40 BC 200	670300	35	9.0	PZ2	100	4048962371581
	40	FPF II CZF 4,5 x 40 BC 500	670301	35	9.0	PZ2	500	4048962371598
	45	FPF II CZF 4,5 x 45 BC 200	670302	40	9.0	PZ2	100	4048962371604
	45	FPF II CZF 4,5 x 45 BC 500	670303	40	9.0	PZ2	500	4048962371611
	50	FPF II CZF 4,5 x 50 BC 200	670304	45	9.0	PZ2	100	4048962371628
	50	FPF II CZF 4,5 x 50 BC 500	670305	45	9.0	PZ2	500	4048962371635
5.0	20	FPF II CZF 5,0 x 20 BC 50	670387	14	10.0	PZ2	50	4048962372458
	20	FPF II CZF 5,0 x 20 BC 200	670386	14	10.0	PZ2	200	4048962372441
	20	FPF II CZF 5,0 x 20 BC 500	670388	14	10.0	PZ2	500	4048962372465
	25	FPF II CZF 5,0 x 25 BC 50	670390	19	10.0	PZ2	50	4048962372489
	25	FPF II CZF 5,0 x 25 BC 200	670389	19	10.0	PZ2	200	4048962372472
	25	FPF II CZF 5,0 x 25 BC 500	670391	19	10.0	PZ2	500	4048962372496
	30	FPF II CZF 5,0 x 30 BC 50	670393	24	10.0	PZ2	50	4048962372519
	30	FPF II CZF 5,0 x 30 BC 200	670392	24	10.0	PZ2	200	4048962372502
	30	FPF II CZF 5,0 x 30 BC 500	670394	24	10.0	PZ2	500	4048962372526
	35	FPF II CZF 5,0 x 35 BC 50	670396	29	10.0	PZ2	50	4048962372540
	35	FPF II CZF 5,0 x 35 BC 200	670395	24	10.0	PZ2	200	4048962372533
	35	FPF II CZF 5,0 x 35 BC 500	670397	29	10.0	PZ2	500	4048962372557
	40	FPF II CZF 5,0 x 40 BC 50	670399	34	10.0	PZ2	50	4048962372571
	40	FPF II CZF 5,0 x 40 BC 200	670398	34	10.0	PZ2	200	4048962372564
	40	FPF II CZF 5,0 x 40 BC 500	670400	34	10.0	PZ2	500	4048962372588
	45	FPF II CZF 5,0 x 45 BC 200	670401	39	10.0	PZ2	200	4048962372595
	45	FPF II CZF 5,0 x 45 BC 500	670402	39	10.0	PZ2	500	4048962372601
	50	FPF II CZF 5,0 x 50 BC 200	670403	44	10.0	PZ2	200	4048962372618
	60	FPF II CZF 5,0 x 60 BC 100	670404	54	10.0	PZ2	100	4048962372625
	60	FPF II CZF 5,0 x 60 BC 200	670405	54	10.0	PZ2	200	4048962372632
	60	FPF II CZF 5,0 x 60 BC 500	670406	54	10.0	PZ2	500	4048962372649
6.0	30	FPF II CZF 6,0 x 30 BC 50	670489	23	12.0	PZ3	50	4048962373479
	30	FPF II CZF 6,0 x 30 BC 200	670488	23	12.0	PZ3	200	4048962373462
	30	FPF II CZF 6,0 x 30 BC 500	670490	23	12.0	PZ3	500	4048962373486
	35	FPF II CZF 6,0 x 35 BC 50	670492	28	12.0	PZ3	50	4048962373509
	35	FPF II CZF 6,0 x 35 BC 200	670491	28	12.0	PZ3	200	4048962373493
	35	FPF II CZF 6,0 x 35 BC 500	670493	28	12.0	PZ3	500	4048962373516
	40	FPF II CZF 6,0 x 40 BC 200	670494	33	12.0	PZ3	200	4048962373523
	40	FPF II CZF 6,0 x 40 BC 500	670495	33	12.0	PZ3	500	4048962373530
	50	FPF II CZF 6,0 x 50 BC 100	670496	43	12.0	PZ3	100	4048962373547
	50	FPF II CZF 6,0 x 50 BC 400	670497	43	12.0	PZ3	400	4048962373554
	60	FPF II CZF 6,0 x 60 BC 100	670498	53	12.0	PZ3	100	4048962373561
	60	FPF II CZF 6,0 x 60 BC 200	670499	53	12.0	PZ3	200	4048962373578

FPF II PTP BC



Technical data

2



Material: Steel
Coating: blue zinc plated
Drive: TX-Star recess
Thread: Partial thread
Screw head: Pan Head
Approval: ETA-19/0175 - Screws for use in timber constructions

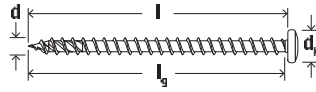


Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
6.0	80	FPF II PTP 6,0 x 80 BC 50	670534	45	12.0	TX30	50	4048962373929
	100	FPF II PTP 6,0 x 100 BC 25	670533	60	12.0	TX30	50	4048962373912

FPF II PTF BC

NEW

Technical data



Material: Steel

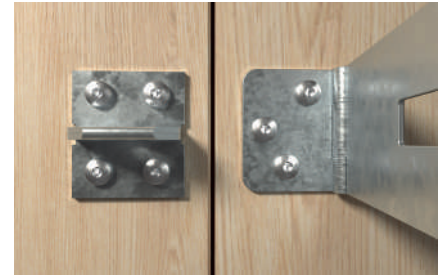
Coating: blue zinc plated

Drive: TX-Star recess

Thread: Full thread

Screw head: Pan Head

Approval: ETA-19/0175 - Screws for use in timber constructions



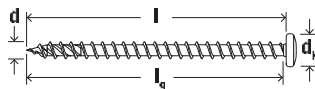
2

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	12	FPF II PTF 3,0 x 12 BC 200	670056	8	6.0	TX10	200	4048962369144
	16	FPF II PTF 3,0 x 16 BC 200	670057	12	6.0	TX10	200	4048962369151
	20	FPF II PTF 3,0 x 20 BC 200	670058	16	6.0	TX10	200	4048962369168
	25	FPF II PTF 3,0 x 25 BC 200	670059	21	6.0	TX10	200	4048962369175
	30	FPF II PTF 3,0 x 30 BC 200	670060	26	6.0	TX10	200	4048962369182
3.5	12	FPF II PTF 3,5 x 12 BC 200	670097	8	7.0	TX20	200	4048962369557
	15	FPF II PTF 3,5 x 15 BC 200	670098	11	7.0	TX20	200	4048962369564
	16	FPF II PTF 3,5 x 16 BC 200	670099	12	7.0	TX20	200	4048962369571
	20	FPF II PTF 3,5 x 20 BC 200	670100	16	7.0	TX20	200	4048962369588
	25	FPF II PTF 3,5 x 25 BC 200	670101	21	7.0	TX20	200	4048962369595
	30	FPF II PTF 3,5 x 30 BC 200	670102	26	7.0	TX20	200	4048962369601
	35	FPF II PTF 3,5 x 35 BC 200	670103	31	7.0	TX20	200	4048962369618
4.0	15	FPF II PTF 4,0 x 15 BC 200	670233	10	8.0	TX20	200	4048962370911
	16	FPF II PTF 4,0 x 16 BC 200	670234	11	8.0	TX20	200	4048962370928
	20	FPF II PTF 4,0 x 20 BC 200	670235	15	8.0	TX20	200	4048962370935
	25	FPF II PTF 4,0 x 25 BC 200	670236	20	8.0	TX20	200	4048962370942
	30	FPF II PTF 4,0 x 30 BC 200	670237	25	8.0	TX20	200	4048962370959
	35	FPF II PTF 4,0 x 35 BC 200	670238	30	8.0	TX20	200	4048962370966
	40	FPF II PTF 4,0 x 40 BC 200	670239	35	8.0	TX20	200	4048962370973
4.5	50	FPF II PTF 4,0 x 50 BC 200	670240	45	8.0	TX20	200	4048962370980
	16	FPF II PTF 4,5 x 16 BC 200	670327	11	9.0	TX20	200	4048962371857
	20	FPF II PTF 4,5 x 20 BC 200	670328	15	9.0	TX20	200	4048962371864
	25	FPF II PTF 4,5 x 25 BC 200	670329	20	9.0	TX20	200	4048962371871
	30	FPF II PTF 4,5 x 30 BC 200	670330	25	9.0	TX20	200	4048962371888
	35	FPF II PTF 4,5 x 35 BC 200	670331	30	9.0	TX20	200	4048962371895
	40	FPF II PTF 4,5 x 50 BC 200	670636	45	9.0	TX20	200	4048962374940
	40	FPF II PTF 4,5 x 40 BC 200	670332	35	9.0	TX20	200	4048962371901
5.0	50	FPF II PTF 4,5 x 50 BC 300	670333	45	9.0	TX20	300	4048962371918
	16	FPF II PTF 5,0 x 16 BC 200	670434	10	10.0	TX20	200	4048962372922
	20	FPF II PTF 5,0 x 20 BC 200	670435	14	10.0	TX20	200	4048962372939
	25	FPF II PTF 5,0 x 25 BC 200	670436	19	10.0	TX20	200	4048962372946
	30	FPF II PTF 5,0 x 30 BC 200	670437	24	10.0	TX20	200	4048962372953
	40	FPF II PTF 5,0 x 40 BC 100	670438	34	10.0	TX20	100	4048962372960
	50	FPF II PTF 5,0 x 50 BC 100	670439	44	10.0	TX20	100	4048962372977
	60	FPF II PTF 5,0 x 60 BC 100	670440	54	10.0	TX20	100	4048962372984
6.0	70	FPF II PTF 5,0 x 70 BC 100	670646	64	10.0	TX20	100	4048962375046
	70	FPF II PTF 5,0 x 70 BC 50	670441	64	10.0	TX20	50	4048962372991
	40	FPF II PTF 6,0 x 40 BC 100	670530	33	12.0	TX30	100	4048962373882
	50	FPF II PTF 6,0 x 50 BC 50	670531	43	12.0	TX30	50	4048962373899
	60	FPF II PTF 6,0 x 60 BC 50	670532	53	12.0	TX30	50	4048962373905

FPF II PZF BC


NEW

Technical data



Material: Steel

Coating: blue zinc plated

Screw head: Pan Head

Thread: Full thread

Drive: Cross drive PZ

Approval: ETA-19/0175 - Screws for use in timber constructions

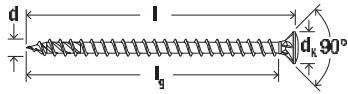


Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	12	FPF II PZF 3,0 x 12 BC 200	670061	8	6.0	PZ1	200	4048962369199
	16	FPF II PZF 3,0 x 16 BC 200	670062	12	6.0	PZ1	200	4048962369205
	25	FPF II PZF 3,0 x 25 BC 200	670063	21	6.0	PZ1	200	4048962369212
	30	FPF II PZF 3,0 x 30 BC 200	670064	26	6.0	PZ1	200	4048962369229
3.5	16	FPF II PZF 3,5 x 16 BC 200	670104	12	7.0	PZ1	200	4048962369625
	20	FPF II PZF 3,5 x 20 BC 200	670105	16	7.0	PZ1	200	4048962369632
4.0	16	FPF II PZF 4,0 x 16 BC 200	670241	11	8.0	PZ2	200	4048962370997
	20	FPF II PZF 4,0 x 20 BC 200	670242	15	8.0	PZ2	200	4048962371000
	25	FPF II PZF 4,0 x 25 BC 200	670243	20	8.0	PZ2	200	4048962371017
	30	FPF II PZF 4,0 x 30 BC 200	670244	25	8.0	PZ2	200	4048962371024
	35	FPF II PZF 4,0 x 35 BC 200	670245	30	8.0	PZ2	200	4048962371031
	40	FPF II PZF 4,0 x 40 BC 200	670246	35	8.0	PZ2	200	4048962371048
	45	FPF II PZF 4,0 x 45 BC 200	670247	40	8.0	PZ2	200	4048962371055
	50	FPF II PZF 4,0 x 50 BC 200	670248	45	8.0	PZ2	200	4048962371062
4.5	16	FPF II PZF 4,5 x 16 BC 200	670334	11	9.0	PZ2	200	4048962371925
	20	FPF II PZF 4,5 x 20 BC 200	670335	15	9.0	PZ2	200	4048962371932
	25	FPF II PZF 4,5 x 25 BC 200	670336	20	9.0	PZ2	200	4048962371949
	30	FPF II PZF 4,5 x 30 BC 200	670337	25	9.0	PZ2	200	4048962371956
	35	FPF II PZF 4,5 x 35 BC 200	670338	30	9.0	PZ2	200	4048962371963
	40	FPF II PZF 4,5 x 40 BC 200	670339	35	9.0	PZ2	200	4048962371970
	50	FPF II PZF 4,5 x 50 BC 200	670340	45	9.0	PZ2	200	4048962371987
5.0	16	FPF II PZF 5,0 x 16 BC 200	670442	10	10.0	PZ2	200	4048962373004
	20	FPF II PZF 5,0 x 20 BC 200	670443	14	10.0	PZ2	200	4048962373011
	25	FPF II PZF 5,0 x 25 BC 200	670444	19	10.0	PZ2	200	4048962373028
	30	FPF II PZF 5,0 x 30 BC 200	670445	24	10.0	PZ2	200	4048962373035
	40	FPF II PZF 5,0 x 40 BC 100	670446	34	10.0	PZ2	100	4048962373042
	50	FPF II PZF 5,0 x 50 BC 100	670447	44	10.0	PZ2	100	4048962373059
	60	FPF II PZF 5,0 x 60 BC 100	670448	54	10.0	PZ2	100	4048962373066
6.0	70	FPF II PZF 5,0 x 70 BC 100	670449	64	10.0	PZ2	100	4048962373073
	40	FPF II PZF 6,0 x 40 BC 100	670535	33	12.0	PZ3	100	4048962373936
	50	FPF II PZF 6,0 x 50 BC 100	670536	43	12.0	PZ3	100	4048962373943
	60	FPF II PZF 6,0 x 60 BC 100	670537	53	12.0	PZ3	100	4048962373950
	70	FPF II PZF 6,0 x 70 BC 50	670538	63	12.0	PZ3	50	4048962373967

FPF II RZF BC



Technical data



2

Material: Steel
Coating: blue zinc plated
Drive: Cross drive PZ
Thread: Full thread
Screw head: Raised countersunk head
Approval: ETA-19/0175 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dK [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	16	FPF II RZF 3,5 x 16 BC 500	670129	12	7.0	PZ2	500	4048962369878
4.0	30	FPF II RZF 4,0 x 30 BC 500	670249	25	8.0	PZ2	500	4048962371079
	35	FPF II RZF 4,0 x 35 BC 500	670250	30	8.0	PZ2	500	4048962371086
	40	FPF II RZF 4,0 x 40 BC 500	670251	35	8.0	PZ2	500	4048962371093
	45	FPF II RZF 4,0 x 45 BC 500	670252	40	8.0	PZ2	500	4048962371109



3

Chipboard screw Classic Fast FSP II

WITH COUNTERSUNK HEAD, CROSS DRIVE PH

FSP II CTP BC	54	
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FSP II CTF BC	55	
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WITH COUNTERSUNK HEAD, CROSS DRIVE PZ

FSP II CZP BC	56	
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FSP II CZF BC	57	
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FSP II CZP YC	58	
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FSP II CZF YC	59	
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Your benefits:

- Due to its CE conformity, the screw offers durable security
- The countersunk head ensures an attractive surface appearance
- The partial thread creates a contraction effect on the wooden parts to be joined due to the longer thread
- The full thread offers a increased pull-out resistance
- Smooth gliding coating reduces the screwing effort

The economic solution for numerous applications.



Head shape variants

Flat countersunk head

- For surface-flush screwing
- Can be easily sunk to create a clean surface finish
- Allows for even surfaces

Full thread screws

- Typically used for steel-timber connections
- The chipboard screw with full thread offers a high pull-out resistance thanks to the longer thread

Partial thread screws

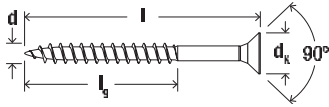
- Typically used for timber-timber connections
- The partial thread screws allow for a contraction effect



FSP II CTP BC

Technical data







3

Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Partial thread

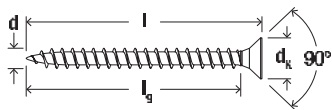
Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	40	FSPII CTP 3,5 x 40 BC	551075	24	7.0	TX10	1000	4048962282467
4.0	30	FSPII CTP 4,0 x 30 BC	551110	18	8.0	TX20	1000	4048962282818
	35	FSPII CTP 4,0 x 35 BC	551111	24	8.0	TX20	1000	4048962282825
	40	FSPII CTP 4,0 x 40 BC	551112	24	8.0	TX20	1000	4048962282832
	45	FSPII CTP 4,0 x 45 BC	551114	30	8.0	TX20	500	4048962282849
	50	FSPII CTP 4,0 x 50 BC	551115	30	8.0	TX20	500	4048962282856
	60	FSPII CTP 4,0 x 60 BC	551116	36	8.0	TX20	200	4048962282863
	70	FSPII CTP 4,0 x 70 BC	551117	42	8.0	TX20	200	4048962282870
4.5	40	FSPII CTP 4,5 x 40 BC	551149	24	9.0	TX20	500	4048962283198
	45	FSPII CTP 4,5 x 45 BC	551150	30	9.0	TX20	500	4048962283204
	50	FSPII CTP 4,5 x 50 BC	551151	30	9.0	TX20	500	4048962283211
	60	FSPII CTP 4,5 x 60 BC	551152	36	9.0	TX20	200	4048962283228
	70	FSPII CTP 4,5 x 70 BC	551153	42	9.0	TX20	200	4048962283235
	80	FSPII CTP 4,5 x 80 BC	551154	50	9.0	TX20	200	4048962283242
5.0	40	FSPII CTP 5,0 x 40 BC	551192	24	10.0	TX25	500	4048962283624
	45	FSPII CTP 5,0 x 45 BC	551193	30	10.0	TX25	500	4048962283631
	50	FSPII CTP 5,0 x 50 BC	551194	30	10.0	TX25	200	4048962283648
	60	FSPII CTP 5,0 x 60 BC	551195	36	10.0	TX25	200	4048962283655
	70	FSPII CTP 5,0 x 70 BC	551196	42	10.0	TX25	200	4048962283662
	80	FSPII CTP 5,0 x 80 BC	551197	50	10.0	TX25	200	4048962283679
	90	FSPII CTP 5,0 x 90 BC	551198	60	10.0	TX25	200	4048962283686
	100	FSPII CTP 5,0 x 100 BC	551199	60	10.0	TX25	100	4048962283693
	120	FSPII CTP 5,0 x 120 BC	551200	72	10.0	TX25	100	4048962283709
6.0	40	FSPII CTP 6,0 x 40 BC	551247	24	12.0	TX30	200	4048962284171
	50	FSPII CTP 6,0 x 50 BC	551248	30	12.0	TX30	200	4048962284188
	60	FSPII CTP 6,0 x 60 BC	551249	36	12.0	TX30	200	4048962284195
	70	FSPII CTP 6,0 x 70 BC	551250	42	12.0	TX30	200	4048962284201
	80	FSPII CTP 6,0 x 80 BC	551251	50	12.0	TX30	200	4048962284218
	90	FSPII CTP 6,0 x 90 BC	551252	60	12.0	TX30	200	4048962284225
	100	FSPII CTP 6,0 x 100 BC	551253	60	12.0	TX30	100	4048962284232
	110	FSPII CTP 6,0 x 110 BC	551254	66	12.0	TX30	100	4048962284249
	120	FSPII CTP 6,0 x 120 BC	551255	72	12.0	TX30	100	4048962284256
	140	FSPII CTP 6,0 x 140 BC	551257	72	12.0	TX30	100	4048962284263
	160	FSPII CTP 6,0 x 160 BC	551262	72	12.0	TX30	100	4048962284270
	180	FSPII CTP 6,0 x 180 BC	551263	72	12.0	TX30	100	4048962284287
	200	FSPII CTP 6,0 x 200 BC	551264	72	12.0	TX30	100	4048962284294

FSP II CTF BC

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Full thread

Screw head: Countersunk head



3

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	16	FSPII CTF 3,0 x 16 BC	551067	12.1	6.0	TX10	1000	4048962282382
	20	FSPII CTF 3,0 x 20 BC	551068	16.1	6.0	TX10	1000	4048962282399
	25	FSPII CTF 3,0 x 25 BC	551069	21.1	6.0	TX10	1000	4048962282405
	30	FSPII CTF 3,0 x 30 BC	551070	26.1	6.0	TX10	1000	4048962282412
3.5	16	FSPII CTF 3,5 x 16 BC	551091	11.7	7.0	TX10	1000	4048962282627
	20	FSPII CTF 3,5 x 20 BC	551092	15.7	7.0	TX10	1000	4048962282634
	25	FSPII CTF 3,5 x 25 BC	551093	20.7	7.0	TX10	1000	4048962282641
	30	FSPII CTF 3,5 x 30 BC	551094	25.7	7.0	TX10	1000	4048962282658
	35	FSPII CTF 3,5 x 35 BC	551095	30.7	7.0	TX10	1000	4048962282665
4.0	16	FSPII CTF 4,0 x 16 BC	551132	10.5	8.0	TX20	1000	4048962283020
	20	FSPII CTF 4,0 x 20 BC	551133	14.5	8.0	TX20	1000	4048962283037
	25	FSPII CTF 4,0 x 25 BC	551134	19.5	8.0	TX20	1000	4048962283044
	30	FSPII CTF 4,0 x 30 BC	551135	24.5	8.0	TX20	1000	4048962283051
	35	FSPII CTF 4,0 x 35 BC	551136	29.5	8.0	TX20	1000	4048962283068
4.5	40	FSPII CTF 4,0 x 40 BC	551137	34.5	8.0	TX20	1000	4048962283075
	20	FSPII CTF 4,5 x 20 BC	551169	14.7	9.0	TX20	1000	4048962283396
	25	FSPII CTF 4,5 x 25 BC	551170	19.7	9.0	TX20	1000	4048962283402
	30	FSPII CTF 4,5 x 30 BC	551171	24.7	9.0	TX20	1000	4048962283419
5.0	35	FSPII CTF 4,5 x 35 BC	551172	29.7	9.0	TX20	500	4048962283426
	20	FSPII CTF 5,0 x 20 BC	551213	14.1	10.0	TX25	500	4048962283839
	25	FSPII CTF 5,0 x 25 BC	551214	19.1	10.0	TX25	500	4048962283846
	30	FSPII CTF 5,0 x 30 BC	551215	24.1	10.0	TX25	500	4048962283853
6.0	35	FSPII CTF 5,0 x 35 BC	551216	29.1	10.0	TX25	500	4048962283860
	40	FSPII CTF 5,0 x 40 BC	551217	34.1	10.0	TX25	500	4048962283877
	40	FSPII CTF 6,0 x 40 BC	551272	32.8	12.0	TX30	200	4048962284362
	50	FSPII CTF 6,0 x 50 BC	551273	42.8	12.0	TX30	200	4048962284379

FSP II CZP BC

Technical data



3

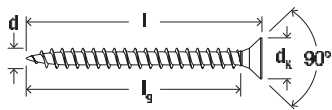
Material: Steel
Coating: blue zinc plated
Drive: Cross drive PZ
Thread: Partial thread
Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	40	FSPII CZP 3,5 x 40 BC	551071	24	7.0	PZ2	1000	4048962282429
4.0	30	FSPII CZP 4,0 x 30 BC	551096	18	8.0	PZ2	1000	4048962282672
	35	FSPII CZP 4,0 x 35 BC	551097	24	8.0	PZ2	1000	4048962282689
	40	FSPII CZP 4,0 x 40 BC	551098	24	8.0	PZ2	1000	4048962282696
	45	FSPII CZP 4,0 x 45 BC	551099	30	8.0	PZ2	500	4048962282702
	50	FSPII CZP 4,0 x 50 BC	551100	30	8.0	PZ2	500	4048962282719
	60	FSPII CZP 4,0 x 60 BC	551101	36	8.0	PZ2	200	4048962282726
	70	FSPII CZP 4,0 x 70 BC	551102	42	8.0	PZ2	200	4048962282733
4.5	40	FSPII CZP 4,5 x 40 BC	551138	24	9.0	PZ2	500	4048962283082
	45	FSPII CZP 4,5 x 45 BC	551139	30	9.0	PZ2	500	4048962283099
	50	FSPII CZP 4,5 x 50 BC	551140	30	9.0	PZ2	500	4048962283105
	60	FSPII CZP 4,5 x 60 BC	551141	36	9.0	PZ2	200	4048962283112
	70	FSPII CZP 4,5 x 70 BC	551142	42	9.0	PZ2	200	4048962283129
5.0	40	FSPII CZP 5,0 x 40 BC	551173	24	10.0	PZ2	500	4048962283433
	45	FSPII CZP 5,0 x 45 BC	551174	30	10.0	PZ2	500	4048962283440
	50	FSPII CZP 5,0 x 50 BC	551175	30	10.0	PZ2	200	4048962283457
	60	FSPII CZP 5,0 x 60 BC	551176	36	10.0	PZ2	200	4048962283464
	70	FSPII CZP 5,0 x 70 BC	551177	42	10.0	PZ2	200	4048962283471
	80	FSPII CZP 5,0 x 80 BC	551178	50	10.0	PZ2	200	4048962283488
	90	FSPII CZP 5,0 x 90 BC	551179	60	10.0	PZ2	200	4048962283495
	100	FSPII CZP 5,0 x 100 BC	551180	60	10.0	PZ2	100	4048962283501
6.0	120	FSPII CZP 5,0 x 120 BC	551181	72	10.0	PZ2	100	4048962283518
	50	FSPII CZP 6,0 x 50 BC	551218	30	12.0	PZ3	200	4048962283884
	60	FSPII CZP 6,0 x 60 BC	551219	36	12.0	PZ3	200	4048962283891
	70	FSPII CZP 6,0 x 70 BC	551220	42	12.0	PZ3	200	4048962283907
	80	FSPII CZP 6,0 x 80 BC	551221	50	12.0	PZ3	200	4048962283914
	90	FSPII CZP 6,0 x 90 BC	551222	60	12.0	PZ3	200	4048962283921
	100	FSPII CZP 6,0 x 100 BC	551223	60	12.0	PZ3	100	4048962283938
	110	FSPII CZP 6,0 x 110 BC	551224	66	12.0	PZ3	100	4048962283945
	120	FSPII CZP 6,0 x 120 BC	551225	72	12.0	PZ3	100	4048962283952
	130	FSPII CZP 6,0 x 130 BC	551226	72	12.0	PZ3	100	4048962283969
	140	FSPII CZP 6,0 x 140 BC	551227	72	12.0	PZ3	100	4048962283976
	150	FSPII CZP 6,0 x 150 BC	551228	72	12.0	PZ3	100	4048962283983
	160	FSPII CZP 6,0 x 160 BC	551229	72	12.0	PZ3	100	4048962283990
	180	FSPII CZP 6,0 x 180 BC	551230	72	12.0	PZ3	100	4048962284003
	200	FSPII CZP 6,0 x 200 BC	551231	72	12.0	PZ3	100	4048962284010

FSP II CZF BC

Technical data



Material: Steel

Coating: blue zinc plated

Drive: Cross drive PZ

Thread: Full thread

Screw head: Countersunk head

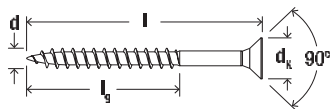


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	12	FSPII CZF 3,0 x 12 BC	551055	8.1	6.0	PZ1	1000	4048962282269
	16	FSPII CZF 3,0 x 16 BC	551056	12.1	6.0	PZ1	1000	4048962282276
	20	FSPII CZF 3,0 x 20 BC	551057	16.1	6.0	PZ1	1000	4048962282283
	25	FSPII CZF 3,0 x 25 BC	551058	21.1	6.0	PZ1	1000	4048962282290
	30	FSPII CZF 3,0 x 30 BC	551059	26.1	6.0	PZ1	1000	4048962282306
	35	FSPII CZF 3,0 x 35 BC	551060	31.1	6.0	PZ1	1000	4048962282313
	40	FSPII CZF 3,0 x 40 BC	551061	36.1	6.0	PZ1	1000	4048962282320
3.5	12	FSPII CZF 3,5 x 12 BC	551076	7.7	7.0	PZ2	1000	4048962282474
	16	FSPII CZF 3,5 x 16 BC	551077	11.7	7.0	PZ2	1000	4048962282481
	20	FSPII CZF 3,5 x 20 BC	551078	15.7	7.0	PZ2	1000	4048962282498
	25	FSPII CZF 3,5 x 25 BC	551079	20.7	7.0	PZ2	1000	4048962282504
	30	FSPII CZF 3,5 x 30 BC	551080	25.7	7.0	PZ2	1000	4048962282511
	35	FSPII CZF 3,5 x 35 BC	551081	30.7	7.0	PZ2	1000	4048962282528
	40	FSPII CZF 3,5 x 40 BC	551082	35.7	7.0	PZ2	1000	4048962282535
4.0	16	FSPII CZF 4,0 x 16 BC	551118	10.5	8.0	PZ2	1000	4048962282887
	20	FSPII CZF 4,0 x 20 BC	551119	14.5	8.0	PZ2	1000	4048962282894
	25	FSPII CZF 4,0 x 25 BC	551120	19.5	8.0	PZ2	1000	4048962282900
	30	FSPII CZF 4,0 x 30 BC	551121	24.5	8.0	PZ2	1000	4048962282917
	35	FSPII CZF 4,0 x 35 BC	551122	29.5	8.0	PZ2	1000	4048962282924
	40	FSPII CZF 4,0 x 40 BC	551123	34.5	8.0	PZ2	1000	4048962282931
4.5	20	FSPII CZF 4,5 x 20 BC	551155	14.7	9.0	PZ2	1000	4048962283259
	25	FSPII CZF 4,5 x 25 BC	551156	19.7	9.0	PZ2	1000	4048962283266
	30	FSPII CZF 4,5 x 30 BC	551157	24.7	9.0	PZ2	1000	4048962283273
	35	FSPII CZF 4,5 x 35 BC	551158	29.7	9.0	PZ2	500	4048962283280
	40	FSPII CZF 4,5 x 40 BC	551159	34.7	9.0	PZ2	500	4048962283297
	45	FSPII CZF 4,5 x 45 BC	551160	39.7	9.0	PZ2	500	4048962283303
5.0	20	FSPII CZF 5,0 x 20 BC	551201	14.1	10.0	PZ2	500	4048962283716
	25	FSPII CZF 5,0 x 25 BC	551202	19.1	10.0	PZ2	500	4048962283723
	30	FSPII CZF 5,0 x 30 BC	551203	24.1	10.0	PZ2	500	4048962283730
	35	FSPII CZF 5,0 x 35 BC	551204	29.1	10.0	PZ2	500	4048962283747
	40	FSPII CZF 5,0 x 40 BC	551205	34.1	10.0	PZ2	500	4048962283754
	45	FSPII CZF 5,0 x 45 BC	551206	39.1	10.0	PZ2	500	4048962283761
6.0	40	FSPII CZF 6,0 x 40 BC	551265	32.8	12.0	PZ3	200	4048962284300
	50	FSPII CZF 6,0 x 50 BC	551266	42.8	12.0	PZ3	200	4048962284317
	60	FSPII CZF 6,0 x 60 BC	551268	52.8	12.0	PZ3	200	4048962284324

FSP II CZP YC

Technical data



3

Material: Steel

Coating: yellow zinc plated

Drive: Cross drive PZ

Thread: Partial thread

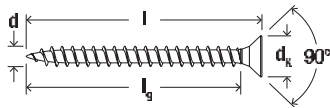
Screw head: Countersunk head



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	40	FSPII CZP 3,0 x 40 YC	551054	24	6.0	PZ1	1000	4048962282252
3.5	35	FSPII CZP 3,5 x 35 YC	551072	24	7.0	PZ2	1000	4048962282436
	40	FSPII CZP 3,5 x 40 YC	551073	24	7.0	PZ2	1000	4048962282443
	45	FSPII CZP 3,5 x 45 YC	551074	30	7.0	PZ2	1000	4048962282450
4.0	35	FSPII CZP 4,0 x 35 YC	551103	24	8.0	PZ2	1000	4048962282740
	40	FSPII CZP 4,0 x 40 YC	551104	24	8.0	PZ2	1000	4048962282757
	45	FSPII CZP 4,0 x 45 YC	551105	30	8.0	PZ2	500	4048962282764
	50	FSPII CZP 4,0 x 50 YC	551106	30	8.0	PZ2	200	4048962282771
	55	FSPII CZP 4,0 x 55 YC	551107	36	8.0	PZ2	200	4048962282788
	60	FSPII CZP 4,0 x 60 YC	551108	36	8.0	PZ2	200	4048962282795
	70	FSPII CZP 4,0 x 70 YC	551109	42	8.0	PZ2	200	4048962282801
4.5	40	FSPII CZP 4,5 x 40 YC	551143	24	9.0	PZ2	500	4048962283136
	45	FSPII CZP 4,5 x 45 YC	551144	30	9.0	PZ2	500	4048962283143
	50	FSPII CZP 4,5 x 50 YC	551145	30	9.0	PZ2	500	4048962283150
	60	FSPII CZP 4,5 x 60 YC	551146	36	9.0	PZ2	200	4048962283167
	70	FSPII CZP 4,5 x 70 YC	551147	42	9.0	PZ2	200	4048962283174
	80	FSPII CZP 4,5 x 80 YC	551148	50	9.0	PZ2	200	4048962283181
5.0	35	FSPII CZP 5,0 x 35 YC	551182	24	10.0	PZ2	500	4048962283525
	40	FSPII CZP 5,0 x 40 YC	551183	24	10.0	PZ2	500	4048962283532
	45	FSPII CZP 5,0 x 45 YC	551184	30	10.0	PZ2	500	4048962283549
	50	FSPII CZP 5,0 x 50 YC	551185	30	10.0	PZ2	200	4048962283556
	60	FSPII CZP 5,0 x 60 YC	551186	36	10.0	PZ2	200	4048962283563
	70	FSPII CZP 5,0 x 70 YC	551187	42	10.0	PZ2	200	4048962283570
	80	FSPII CZP 5,0 x 80 YC	551188	50	10.0	PZ2	200	4048962283587
	90	FSPII CZP 5,0 x 90 YC	551189	60	10.0	PZ2	200	4048962283594
	100	FSPII CZP 5,0 x 100 YC	551190	60	10.0	PZ2	100	4048962283600
	120	FSPII CZP 5,0 x 120 YC	551191	72	10.0	PZ2	100	4048962283617
6.0	40	FSPII CZP 6,0 x 40 YC	551232	24	12.0	PZ3	200	4048962284027
	45	FSPII CZP 6,0 x 45 YC	551233	30	12.0	PZ3	200	4048962284034
	50	FSPII CZP 6,0 x 50 YC	551234	30	12.0	PZ3	200	4048962284041
	60	FSPII CZP 6,0 x 60 YC	551235	36	12.0	PZ3	200	4048962284058
	70	FSPII CZP 6,0 x 70 YC	551236	42	12.0	PZ3	200	4048962284065
	80	FSPII CZP 6,0 x 80 YC	551237	50	12.0	PZ3	200	4048962284072
	100	FSPII CZP 6,0 x 100 YC	551238	60	12.0	PZ3	100	4048962284089
	110	FSPII CZP 6,0 x 110 YC	551239	66	12.0	PZ3	100	4048962284096
	120	FSPII CZP 6,0 x 120 YC	551240	72	12.0	PZ3	100	4048962284102
	130	FSPII CZP 6,0 x 130 YC	551241	72	12.0	PZ3	100	4048962284119
	140	FSPII CZP 6,0 x 140 YC	551242	72	12.0	PZ3	100	4048962284126
	150	FSPII CZP 6,0 x 150 YC	551243	72	12.0	PZ3	100	4048962284133
	160	FSPII CZP 6,0 x 160 YC	551244	72	12.0	PZ3	100	4048962284140
	180	FSPII CZP 6,0 x 180 YC	551245	72	12.0	PZ3	100	4048962284157
	200	FSPII CZP 6,0 x 200 YC	551246	72	12.0	PZ3	100	4048962284164

FSP II CZF YC

Technical data



Material: Steel

Coating: yellow zinc plated

Drive: Cross drive PZ

Thread: Full thread

Screw head: Countersunk head



3

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	16	FSPII CZF 3,0 x 16 YC	551062	12.1	6.0	PZ1	1000	4048962282337
	20	FSPII CZF 3,0 x 20 YC	551063	16.1	6.0	PZ1	1000	4048962282344
	25	FSPII CZF 3,0 x 25 YC	551064	21.1	6.0	PZ1	1000	4048962282351
	30	FSPII CZF 3,0 x 30 YC	551065	26.1	6.0	PZ1	1000	4048962282368
	35	FSPII CZF 3,0 x 35 YC	551066	31.1	6.0	PZ1	1000	4048962282375
3.5	12	FSPII CZF 3,5 x 12 YC	551083	7.7	7.0	PZ2	1000	4048962282542
	16	FSPII CZF 3,5 x 16 YC	551084	11.7	7.0	PZ2	1000	4048962282559
	20	FSPII CZF 3,5 x 20 YC	551085	15.7	7.0	PZ2	1000	4048962282566
	25	FSPII CZF 3,5 x 25 YC	551086	20.7	7.0	PZ2	1000	4048962282573
	30	FSPII CZF 3,5 x 30 YC	551087	25.7	7.0	PZ2	1000	4048962282580
	35	FSPII CZF 3,5 x 35 YC	551088	30.7	7.0	PZ2	1000	4048962282597
	40	FSPII CZF 3,5 x 40 YC	551089	35.7	7.0	PZ2	1000	4048962282603
	45	FSPII CZF 3,5 x 45 YC	551090	40.7	7.0	PZ2	1000	4048962282610
4.0	16	FSPII CZF 4,0 x 16 YC	551124	10.5	8.0	PZ2	1000	4048962282948
	20	FSPII CZF 4,0 x 20 YC	551125	14.5	8.0	PZ2	1000	4048962282955
	25	FSPII CZF 4,0 x 25 YC	551126	19.5	8.0	PZ2	1000	4048962282962
	30	FSPII CZF 4,0 x 30 YC	551127	24.5	8.0	PZ2	1000	4048962282979
	35	FSPII CZF 4,0 x 35 YC	551128	29.5	8.0	PZ2	1000	4048962282986
	40	FSPII CZF 4,0 x 40 YC	551129	34.5	8.0	PZ2	1000	4048962282993
	45	FSPII CZF 4,0 x 45 YC	551130	39.5	8.0	PZ2	500	4048962283006
	50	FSPII CZF 4,0 x 50 YC	551131	44.5	8.0	PZ2	500	4048962283013
4.5	16	FSPII CZF 4,5 x 16 YC	551161	10.7	9.0	PZ2	1000	4048962283310
	20	FSPII CZF 4,5 x 20 YC	551162	14.7	9.0	PZ2	1000	4048962283327
	25	FSPII CZF 4,5 x 25 YC	551163	19.7	9.0	PZ2	1000	4048962283334
	30	FSPII CZF 4,5 x 30 YC	551164	24.7	9.0	PZ2	1000	4048962283341
	35	FSPII CZF 4,5 x 35 YC	551165	29.7	9.0	PZ2	500	4048962283358
	40	FSPII CZF 4,5 x 40 YC	551166	34.7	9.0	PZ2	500	4048962283365
	45	FSPII CZF 4,5 x 45 YC	551167	39.7	9.0	PZ2	500	4048962283372
	50	FSPII CZF 4,5 x 50 YC	551168	44.7	9.0	PZ2	500	4048962283389
5.0	20	FSPII CZF 5,0 x 20 YC	551207	14.1	10.0	PZ2	500	4048962283778
	25	FSPII CZF 5,0 x 25 YC	551208	19.1	10.0	PZ2	500	4048962283785
	30	FSPII CZF 5,0 x 30 YC	551209	24.1	10.0	PZ2	500	4048962283792
	35	FSPII CZF 5,0 x 35 YC	551210	29.1	10.0	PZ2	500	4048962283808
	40	FSPII CZF 5,0 x 40 YC	551211	34.1	10.0	PZ2	500	4048962283815
	60	FSPII CZF 5,0 x 60 YC	551212	54.1	10.0	PZ2	200	4048962283822
6.0	40	FSPII CZF 6,0 x 40 YC	551269	32.8	12.0	PZ3	200	4048962284331
	50	FSPII CZF 6,0 x 50 YC	551270	42.8	12.0	PZ3	200	4048962284348
	60	FSPII CZF 6,0 x 60 YC	551271	52.8	12.0	PZ3	200	4048962284355



4

Wood construction screw Power-Fast

WITH COUNTERSUNK HEAD, TX STAR RECESS

FPF-ST ZPP	64	
FPF-ST A2P	65	
FPF-ST A4P	66	

WITH FLANGE HEAD, TX STAR RECESS

FPF-WT ZPP	67	
FPF-WT A2P	69	

HEX HEAD, TX STAR RECESS

FPF-HT ZPP	70	
FPF-HT BZP	71	

WASHER FOR WOOD CONSTRUCTION SCREW

FWC-CS ZP	72	
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Your benefits:

- Easy processing through innovative Power-Fast geometry
- Smooth wooden surfaces thanks to under-head milling ribs
- No pre-drilling necessary
- With countersunk, flange and hex head
- Safety through ETA conformity

Maximum reliability, simple processing.



Head shape variants

Countersunk head

- With countersunk head for easy sinking
- 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



Hex head

- Replaces the DIN 571 screw
- Pre-drilling not required
- Low axial and edge distances
- Higher pull-out resistance
- TX star recess for use with battery-operated screwdrivers
- Available in sizes Ø 8/10/12
- Pressed washer for use with a socket
- For the fixing of metal components on wood

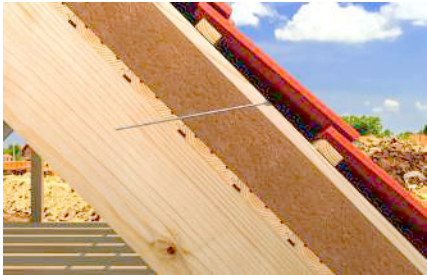
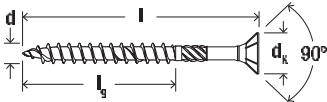
The wood construction screws for professionals

- 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 hex 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



FPF-ST ZPP

Technical data



4

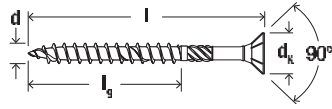
- Material: Steel
- Coating: blue zinc plated
- Drive: TX-Star recess
- Thread: Partial thread
- Screw head: Countersunk head
- Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
8.0	80	FPF-ST 8,0 x 80 ZPP 50	696768	50	14.7	TX40	50	4048962334234
	100	FPF-ST 8,0 x 100 ZPP 50	696769	50	14.7	TX40	50	4048962334241
	120	FPF-ST 8,0 x 120 ZPP 50	696770	75	14.7	TX40	50	4048962334258
	140	FPF-ST 8,0 x 140 ZPP 50	696771	75	14.7	TX40	50	4048962334265
	160	FPF-ST 8,0 x 160 ZPP 50	545223	75	14.7	TX40	50	4048962321265
	180	FPF-ST 8,0 x 180 ZPP 50	545224	75	14.7	TX40	50	4048962321272
	200	FPF-ST 8,0 x 200 ZPP 50	545225	100	14.7	TX40	50	4048962321289
	220	FPF-ST 8,0 x 220 ZPP 50	545226	100	14.7	TX40	50	4048962321296
	240	FPF-ST 8,0 x 240 ZPP 50	545227	100	14.7	TX40	50	4048962321302
	260	FPF-ST 8,0 x 260 ZPP 50	545228	100	14.7	TX40	50	4048962321319
	280	FPF-ST 8,0 x 280 ZPP 50	545229	100	14.7	TX40	50	4048962321326
	300	FPF-ST 8,0 x 300 ZPP 50	545230	100	14.7	TX40	50	4048962321333
	320	FPF-ST 8,0 x 320 ZPP 50	545231	100	14.7	TX40	50	4048962321340
	340	FPF-ST 8,0 x 340 ZPP 50	545232	100	14.7	TX40	50	4048962321357
	360	FPF-ST 8,0 x 360 ZPP 50	545233	100	14.7	TX40	50	4048962321364
	380	FPF-ST 8,0 x 380 ZPP 50	545234	100	14.7	TX40	50	4048962321371
	400	FPF-ST 8,0 x 400 ZPP 50	545235	100	14.7	TX40	50	4048962321388
10.0	80	FPF-ST 10,0 x 80 ZPP 50	696772	52	18.5	TX40	50	4048962334272
	100	FPF-ST 10,0 x 100 ZPP 50	696773	52	18.5	TX40	50	4048962334289
	120	FPF-ST 10,0 x 120 ZPP 50	696774	80	18.5	TX40	50	4048962334296
	140	FPF-ST 10,0 x 140 ZPP 50	696775	80	18.5	TX40	50	4048962334302
	160	FPF-ST 10,0 x 160 ZPP 50	545240	80	18.5	TX40	50	4048962321432
	180	FPF-ST 10,0 x 180 ZPP 50	545241	100	18.5	TX40	50	4048962321449
	200	FPF-ST 10,0 x 200 ZPP 50	545242	100	18.5	TX40	50	4048962321456
	220	FPF-ST 10,0 x 220 ZPP 50	545243	100	18.5	TX40	50	4048962321463
	240	FPF-ST 10,0 x 240 ZPP 50	545244	100	18.5	TX40	50	4048962321470
	260	FPF-ST 10,0 x 260 ZPP 50	545245	100	18.5	TX40	50	4048962321487
	280	FPF-ST 10,0 x 280 ZPP 50	545246	115	18.5	TX40	50	4048962321494
	300	FPF-ST 10,0 x 300 ZPP 50	545247	115	18.5	TX40	50	4048962321500
	320	FPF-ST 10,0 x 320 ZPP 50	545248	115	18.5	TX40	50	4048962321517
	340	FPF-ST 10,0 x 340 ZPP 50	545249	115	18.5	TX40	50	4048962321524
	360	FPF-ST 10,0 x 360 ZPP 50	545250	115	18.5	TX40	50	4048962321531
	380	FPF-ST 10,0 x 380 ZPP 50	545251	115	18.5	TX40	50	4048962321548
	400	FPF-ST 10,0 x 400 ZPP 50	545252	115	18.5	TX40	50	4048962321555

FPF-ST A2P

Technical data



Material: Stainless steel A2

Drive: TX-Star recess

Thread: Partial thread

Screw head: Countersunk head

Approval: ETA-11/0027 - Screws for use in timber constructions

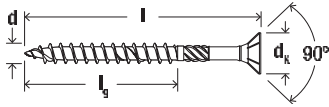


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
8.0	80	FPF-ST 8,0 x 80 A2P 50	657514	50	14.8	TX40	50	4048962249668
	100	FPF-ST 8,0 x 100 A2P 50	657515	50	14.8	TX40	50	4048962249675
	120	FPF-ST 8,0 x 120 A2P 50	657516	75	14.8	TX40	50	4048962249682
	140	FPF-ST 8,0 x 140 A2P 50	657517	75	14.8	TX40	50	4048962249699
	160	FPF-ST 8,0 x 160 A2P 50	657518	75	14.8	TX40	50	4048962249705
	180	FPF-ST 8,0 x 180 A2P 50	657519	75	14.8	TX40	50	4048962249712
	200	FPF-ST 8,0 x 200 A2P 50	657520	100	14.8	TX40	50	4048962249729
	220	FPF-ST 8,0 x 220 A2P 50	657524	100	14.8	TX40	50	4048962264074
	240	FPF-ST 8,0 x 240 A2P 50	657521	100	14.8	TX40	50	4048962249736
	260	FPF-ST 8,0 x 260 A2P 50	657525	100	14.8	TX40	50	4048962264081
	280	FPF-ST 8,0 x 280 A2P 50	657522	100	14.8	TX40	50	4048962249743
	300	FPF-ST 8,0 x 300 A2P 50	657523	100	14.8	TX40	50	4048962249750

FPF-ST A4P

Technical data



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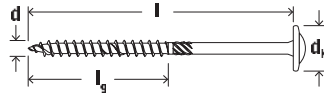
Material: Stainless steel A4
Drive: TX-Star recess
Thread: Partial thread
Screw head: Countersunk head
Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
8.0	100	FPF-ST 8,0 x 100 A4P 50	657508	50	14.8	TX40	50	4048962249606
	120	FPF-ST 8,0 x 120 A4P 50	657509	75	14.8	TX40	50	4048962249613
	140	FPF-ST 8,0 x 140 A4P 50	657510	75	14.8	TX40	50	4048962249620
	160	FPF-ST 8,0 x 160 A4P 50	657511	75	14.8	TX40	50	4048962249637
	180	FPF-ST 8,0 x 180 A4P 50	657512	75	14.8	TX40	50	4048962249644
	200	FPF-ST 8,0 x 200 A4P 50	657513	100	14.8	TX40	50	4048962249651

FPF-WT ZPP

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Partial thread

Screw head: Flange head

Approval: ETA-11/0027 - Screws for use in timber constructions



4

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
6.0	60	FPF-WT 6,0 x 60 ZPP 100	551955	30	14.5	TX30	100	4048962355888
	80	FPF-WT 6,0 x 80 ZPP 100	551956	50	14.5	TX30	100	4048962355895
	100	FPF-WT 6,0 x 100 ZPP 100	551957	50	14.5	TX30	100	4048962355901
	120	FPF-WT 6,0 x 120 ZPP 100	551958	50	14.5	TX30	100	4048962355918
	140	FPF-WT 6,0 x 140 ZPP 100	551959	70	14.5	TX30	100	4048962355925
	160	FPF-WT 6,0 x 160 ZPP 100	551960	70	14.5	TX30	100	4048962355932
	180	FPF-WT 6,0 x 180 ZPP 100	551961	70	14.5	TX30	100	4048962355949
	200	FPF-WT 6,0 x 200 ZPP 100	551962	70	14.5	TX30	100	4048962355956
	220	FPF-WT 6,0 x 220 ZPP 100	551963	70	14.5	TX30	100	4048962355963
	240	FPF-WT 6,0 x 240 ZPP 100	551964	70	14.5	TX30	100	4048962355970
	260	FPF-WT 6,0 x 260 ZPP 100	551965	70	14.5	TX30	100	4048962355987
	280	FPF-WT 6,0 x 280 ZPP 100	551966	70	14.5	TX30	100	4048962355994
	300	FPF-WT 6,0 x 300 ZPP 100	551967	70	14.5	TX30	100	4048962356007
8.0	80	FPF-WT 8,0 x 80 ZPP 50	696776	50	22	TX40	50	4048962334319
	100	FPF-WT 8,0 x 100 ZPP 50	696777	50	22	TX40	50	4048962334326
	120	FPF-WT 8,0 x 120 ZPP 50	696778	75	22	TX40	50	4048962334333
	140	FPF-WT 8,0 x 140 ZPP 50	696779	75	22	TX40	50	4048962334357
	160	FPF-WT 8,0 x 160 ZPP 50	545257	75	22	TX40	50	4048962321609
	180	FPF-WT 8,0 x 180 ZPP 50	545258	75	22	TX40	50	4048962321616
	200	FPF-WT 8,0 x 200 ZPP 50	545259	100	22	TX40	50	4048962321623
	220	FPF-WT 8,0 x 220 ZPP 50	545260	100	22	TX40	50	4048962321630
	240	FPF-WT 8,0 x 240 ZPP 50	545261	100	22	TX40	50	4048962321647
	260	FPF-WT 8,0 x 260 ZPP 50	545262	100	22	TX40	50	4048962321654
	280	FPF-WT 8,0 x 280 ZPP 50	545266	100	22	TX40	50	4048962321661
	300	FPF-WT 8,0 x 300 ZPP 50	545267	100	22	TX40	50	4048962321678
	320	FPF-WT 8,0 x 320 ZPP 50	545268	100	22	TX40	50	4048962321685
	340	FPF-WT 8,0 x 340 ZPP 50	545269	100	22	TX40	50	4048962321692
	360	FPF-WT 8,0 x 360 ZPP 50	545270	100	22	TX40	50	4048962321708
	380	FPF-WT 8,0 x 380 ZPP 50	545271	100	22	TX40	50	4048962321715
	400	FPF-WT 8,0 x 400 ZPP 50	545272	100	22	TX40	50	4048962321722
10.0	80	FPF-WT 10,0 x 80 ZPP 50	696780	52	27	TX40	50	4048962334364
	100	FPF-WT 10,0 x 100 ZPP 50	696781	52	27	TX40	50	4048962334371
	120	FPF-WT 10,0 x 120 ZPP 50	696782	80	27	TX40	50	4048962334388
	140	FPF-WT 10,0 x 140 ZPP 50	696783	80	27	TX40	50	4048962334395
	160	FPF-WT 10,0 x 160 ZPP 50	548905	80	27	TX40	50	4048962351132
	180	FPF-WT 10,0 x 180 ZPP 50	548906	100	27	TX40	50	4048962351149
	200	FPF-WT 10,0 x 200 ZPP 50	548907	100	27	TX40	50	4048962351156
	220	FPF-WT 10,0 x 220 ZPP 50	548908	100	27	TX40	50	4048962351163
	240	FPF-WT 10,0 x 240 ZPP 50	548909	100	27	TX40	50	4048962351170
	260	FPF-WT 10,0 x 260 ZPP 50	548911	100	27	TX40	50	4048962351187
	280	FPF-WT 10,0 x 280 ZPP 50	548912	115	27	TX40	50	4048962351194
	300	FPF-WT 10,0 x 300 ZPP 50	548913	115	27	TX40	50	4048962351200

Technical data



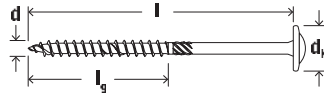
Material: Steel
Coating: blue zinc plated
Drive: TX-Star recess
Thread: Partial thread
Screw head: Flange head
Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
10.0	320	FPF-WT 10,0 x 320 ZPP 50	548914	115	27	TX40	50	4048962351217
	340	FPF-WT 10,0 x 340 ZPP 50	548915	115	27	TX40	50	4048962351224
	360	FPF-WT 10,0 x 360 ZPP 50	548916	115	27	TX40	50	4048962351231
	380	FPF-WT 10,0 x 380 ZPP 50	548917	115	27	TX40	50	4048962351248
	400	FPF-WT 10,0 x 400 ZPP 50	548918	115	27	TX40	50	4048962351255

FPF-WT A2P

Technical data



Material: Stainless steel A2

Drive: TX-Star recess

Thread: Partial thread

Screw head: Flange head

Approval: ETA-11/0027 - Screws for use in timber constructions

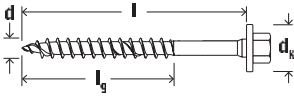


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
6.0	60	FPF-WT 6,0 x 60 A2P 200	657433	30	14.5	TX30	200	4048962125757
	80	FPF-WT 6,0 x 80 A2P 200	657434	50	14.5	TX30	200	4048962125764
	100	FPF-WT 6,0 x 100 A2P 100	657435	50	14.5	TX30	100	4048962125771
	120	FPF-WT 6,0 x 120 A2P 100	657436	50	14.5	TX30	100	4048962125788
	140	FPF-WT 6,0 x 140 A2P 100	657437	70	14.5	TX30	100	4048962125795
	160	FPF-WT 6,0 x 160 A2P 100	657438	70	14.5	TX30	100	4048962125801
	180	FPF-WT 6,0 x 180 A2P 100	657439	70	14.5	TX30	100	4048962125818
	200	FPF-WT 6,0 x 200 A2P 100	657440	70	14.5	TX30	100	4048962125825
8.0	40	FPF-WT 8,0 x 40 A2F 50	657526	35	22	TX40	50	4048962264098
	60	FPF-WT 8,0 x 60 A2F 50	657527	50	22	TX40	50	4048962264104
	80	FPF-WT 8,0 x 80 A2P 50	657442	50	22	TX40	50	4048962125849
	100	FPF-WT 8,0 x 100 A2P 50	657443	50	22	TX40	50	4048962125856
	120	FPF-WT 8,0 x 120 A2P 50	657444	75	22	TX40	50	4048962125863
	140	FPF-WT 8,0 x 140 A2P 50	657445	75	22	TX40	50	4048962125870
	160	FPF-WT 8,0 x 160 A2P 50	657446	75	22	TX40	50	4048962125887
	180	FPF-WT 8,0 x 180 A2P 50	657447	75	22	TX40	50	4048962125894
	200	FPF-WT 8,0 x 200 A2P 50	657448	100	22	TX40	50	4048962125900
	220	FPF-WT 8,0 x 220 A2P 50	657449	100	22	TX40	50	4048962125917
	240	FPF-WT 8,0 x 240 A2P 50	657450	100	22	TX40	50	4048962125924

FPF-HT ZPP

Technical data



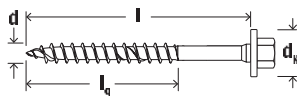
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- Material: Steel
 - Coating: blue zinc plated
 - Drive: TX-Star recess
 - Thread: Partial thread
 - Screw head: Hex head with Torx
 - Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
8.0	80	FPF-HT 8,0 x 80 ZPP 50	659407	75	19	SW 13 / TX 40	50	4048962263374
	100	FPF-HT 8,0 x 100 ZPP 50	659408	75	19	SW 13 / TX 40	50	4048962263411
	120	FPF-HT 8,0 x 120 ZPP 50	659409	100	19	SW 13 / TX 40	50	4048962263527
	140	FPF-HT 8,0 x 140 ZPP 50	659410	100	19	SW 13 / TX 40	50	4048962263510
10.0	80	FPF-HT 10,0 x 80 ZPP 50	659411	75	22.4	SW 15 / TX 40	50	4048962263534
	100	FPF-HT 10,0 x 100 ZPP 50	659412	75	22.4	SW 15 / TX 40	50	4048962263541
	120	FPF-HT 10,0 x 120 ZPP 50	659413	115	22.4	SW 15 / TX 40	50	4048962263558
	140	FPF-HT 10,0 x 140 ZPP 50	659414	115	22.4	SW 15 / TX 40	50	4048962263565
12.0	100	FPF-HT 12,0 x 100 ZPP 25	659415	80	24.5	SW 17 / TX 50	25	4048962263572
	120	FPF-HT 12,0 x 120 ZPP 25	659416	100	24.5	SW 17 / TX 50	25	4048962263589
	140	FPF-HT 12,0 x 140 ZPP 25	659417	120	24.5	SW 17 / TX 50	25	4048962263596

FPF-HT BZP

Technical data



Material: Steel

Coating: Zinc flake coating

Drive: TX-Star recess

Thread: Partial thread

Screw head: Hex head with Torx

Approval: ETA-11/0027 - Screws for use in timber constructions

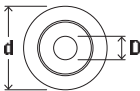
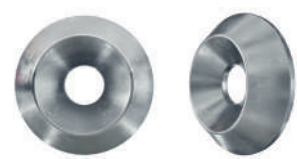


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
8.0	80	FPF-HT 8,0 x 80 BZP 50	659335	75	19	SW 13 / TX 40	50	4048962249361
	100	FPF-HT 8,0 x 100 BZP 50	659336	75	19	SW 13 / TX 40	50	4048962249378
	120	FPF-HT 8,0 x 120 BZP 50	659337	100	19	SW 13 / TX 40	50	4048962249385
	140	FPF-HT 8,0 x 140 BZP 50	659338	100	19	SW 13 / TX 40	50	4048962249392
10.0	80	FPF-HT 10,0 x 80 BZP 50	659339	75	22.4	SW 15 / TX 40	50	4048962249408
	100	FPF-HT 10,0 x 100 BZP 50	659340	75	22.4	SW 15 / TX 40	50	4048962249415
	120	FPF-HT 10,0 x 120 BZP 50	659341	115	22.4	SW 15 / TX 40	50	4048962249422
	140	FPF-HT 10,0 x 140 BZP 50	659342	115	22.4	SW 15 / TX 40	50	4048962249439
12.0	100	FPF-HT 12,0 x 100 BZP 25	659343	80	24.5	SW 17 / TX 50	25	4048962249446
	120	FPF-HT 12,0 x 120 BZP 25	659344	100	24.5	SW 17 / TX 50	25	4048962249453
	140	FPF-HT 12,0 x 140 BZP 25	659345	120	24.5	SW 17 / TX 50	25	4048962249460

FWC-CS ZP

Technical data



- 4
- Coating: blue zinc plated
 - For countersunk head
 - For a higher head pull-through resistance
 - Plain support
 - Approval: ETA-11/0027 - Screws for use in timber constructions



Item	Item No.	Internal diameter D [mm]	External-Ø d [mm]	Sales unit [pcs]	GTIN (EAN Code)
FWC-CS 8,0 x 30 ZP 50	548919	8,7	30	50	4048962351262
FWC-CS 10,0 x 35 ZP 50	548920	11,2	35	50	4048962351279



5

Full thread screw Power-Full

WITH CYLINDER HEAD, TX STAR RECESS

FPF-ZTN ZPF 78 

WITH COUNTERSUNK HEAD, TX STAR RECESS

FPF-ST ZPF 79 

DOUBLE THREAD SCREW. TX STAR RECESS

FIF-ZT ZPF 80 

Your benefits:

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

Highly resilient, time and effort saving.



Head shape variants

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

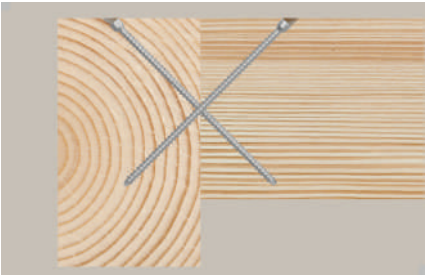
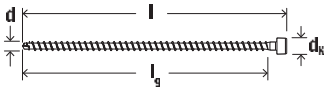
The wood construction screws for professionals

- 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



FPF-ZTN ZPF

Technical data



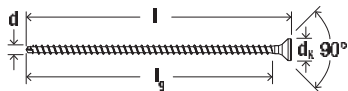
Material: Steel
Coating: blue zinc plated
Drive: TX-Star recess
Thread: Full thread
Screw head: Cylinder head
Approval: ETA-12/0073 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
6.5	120	FPF-ZTN 6,5 x 120 ZPF 100	659430	107	8.0	TX30	100	4048962273267
	140	FPF-ZTN 6,5 x 140 ZPF 100	659431	127	8.0	TX30	100	4048962273274
	160	FPF-ZTN 6,5 x 160 ZPF 100	659432	147	8.0	TX30	100	4048962273281
	195	FPF-ZTN 6,5 x 195 ZPF 100	659433	182	8.0	TX30	100	4048962273298
8.0	155	FPF-ZTN 8,0 x 155 ZPF 50	659434	140	10.0	TX40	50	4048962273304
	195	FPF-ZTN 8,0 x 195 ZPF 50	659435	180	10.0	TX40	50	4048962273311
	220	FPF-ZTN 8,0 x 220 ZPF 50	659436	205	10.0	TX40	50	4048962273328
	245	FPF-ZTN 8,0 x 245 ZPF 50	659437	230	10.0	TX40	50	4048962273335
	295	FPF-ZTN 8,0 x 295 ZPF 50	659438	280	10.0	TX40	50	4048962273342
	330	FPF-ZTN 8,0 x 330 ZPF 50	659439	315	10.0	TX40	50	4048962273359
	375	FPF-ZTN 8,0 x 375 ZPF 50	659440	360	10.0	TX40	50	4048962273366
	400	FPF-ZTN 8,0 x 400 ZPF 50	659441	385	10.0	TX40	50	4048962273373
10.0	300	FPF-ZTN 10,0 x 300 ZPF 25	659442	282	13.0	TX50	25	4048962273380
	330	FPF-ZTN 10,0 x 330 ZPF 25	659443	312	13.0	TX50	25	4048962273403
	360	FPF-ZTN 10,0 x 360 ZPF 25	659444	342	13.0	TX50	25	4048962273410
	400	FPF-ZTN 10,0 x 400 ZPF 25	659445	382	13.0	TX50	25	4048962273427
	450	FPF-ZTN 10,0 x 450 ZPF 25	659446	432	13.0	TX50	25	4048962273441
	500	FPF-ZTN 10,0 x 500 ZPF 25	659447	482	13.0	TX50	25	4048962273458
	550	FPF-ZTN 10,0 x 550 ZPF 25	659448	532	13.0	TX50	25	4048962273465
	600	FPF-ZTN 10,0 x 600 ZPF 25	659449	582	13.0	TX50	25	4048962273472

FPF-ST ZPF

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Full thread

Screw head: Countersunk head

Approval: ETA-12/0073 - Screws for use in timber constructions

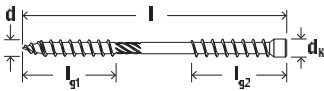


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
8.0	95	FPF-ST 8,0 x 95 ZPF 50	659385	80	14.5	TX40	50	4048962250022
	125	FPF-ST 8,0 x 125 ZPF 50	659386	110	14.5	TX40	50	4048962250039
	155	FPF-ST 8,0 x 155 ZPF 50	659387	140	14.5	TX40	50	4048962250046
	195	FPF-ST 8,0 x 195 ZPF 50	659388	180	14.5	TX40	50	4048962250053
	220	FPF-ST 8,0 x 220 ZPF 50	659389	205	14.5	TX40	50	4048962250060
	245	FPF-ST 8,0 x 245 ZPF 50	659390	230	14.5	TX40	50	4048962250084
	270	FPF-ST 8,0 x 270 ZPF 50	659418	255	14.5	TX40	50	4048962264111
	295	FPF-ST 8,0 x 295 ZPF 50	659419	280	14.5	TX40	50	4048962264128
	330	FPF-ST 8,0 x 330 ZPF 50	659420	315	14.5	TX40	50	4048962264135
	375	FPF-ST 8,0 x 375 ZPF 50	659421	360	14.5	TX40	50	4048962264142
	400	FPF-ST 8,0 x 400 ZPF 50	659422	385	14.5	TX40	50	4048962264159
10.0	125	FPF-ST 10,0 x 125 ZPF 50	659423	110	17.8	TX50	50	4048962264166
	155	FPF-ST 10,0 x 155 ZPF 50	659424	140	17.8	TX50	50	4048962264173
	195	FPF-ST 10,0 x 195 ZPF 50	659425	180	17.8	TX50	50	4048962264180
	220	FPF-ST 10,0 x 220 ZPF 50	659426	205	17.8	TX50	50	4048962264197
	245	FPF-ST 10,0 x 245 ZPF 50	659427	230	17.8	TX50	50	4048962264203
	270	FPF-ST 10,0 x 270 ZPF 50	659428	255	17.8	TX50	50	4048962264210
	300	FPF-ST 10,0 x 300 ZPF 50	659429	285	17.8	TX50	50	4048962264227

FIF-ZT ZPF

Technical data



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
Approval: ETA-12/0073 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Full thread length l _{g2} / l _{g1} [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
8.0	225	FIF-ZT 8,0 x 225 ZPF 50	659397	60/100	10.0	TX40	50	4048962250152
	235	FIF-ZT 8,0 x 235 ZPF 50	659398	60/100	10.0	TX40	50	4048962250169
	255	FIF-ZT 8,0 x 255 ZPF 50	659399	60/100	10.0	TX40	50	4048962250176
	275	FIF-ZT 8,0 x 275 ZPF 50	659400	60/100	10.0	TX40	50	4048962250183
	302	FIF-ZT 8,0 x 302 ZPF 50	659401	60/100	10.0	TX40	50	4048962250190
	335	FIF-ZT 8,0 x 335 ZPF 50	659402	60/100	10.0	TX40	50	4048962250206
	365	FIF-ZT 8,0 x 365 ZPF 50	659403	60/100	10.0	TX40	50	4048962250213
	397	FIF-ZT 8,0 x 397 ZPF 50	659404	60/100	10.0	TX40	50	4048962250220
	435	FIF-ZT 8,0 x 435 ZPF 50	659405	60/100	10.0	TX40	50	4048962250237



6

Chipboard screw stainless steel

WITH COUNTERSUNK HEAD, CROSS DRIVE PZ

FPF-SZ A2P	86	
FPF-SZ A2F	87	

WITH COUNTERSUNK HEAD, TX STAR RECESS

FPF-ST A2P	88	
FPF-ST A2F	89	
FPF-ST A4P	90	
FPF-ST A4F	91	

WITH PAN HEAD, TX STAR RECESS

FPF-PT A2F	92	
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WITH RAISED COUNTERSUNK HEAD, CROSS DRIVE PZ

FPF-LZ A2F	93	
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Your benefits:

- 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

Stainless steel for safe connections in the outdoor area.



Head shape variants

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



Raised countersunk head

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

Chipboard screw stainless steel A2

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

Chipboard screw stainless steel A4

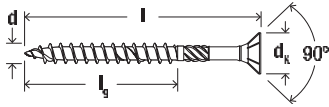
- Especially for use with wood with high levels of tannic acid
- Well-suited to highly corrosive environments, e.g. close to the sea, for façade sub-structures or in the chemical and food industries
- Pre-drilling recommended



FPF-SZ A2P

Technical data







Material: Stainless steel A2

Drive: Cross drive PZ

Thread: Partial thread

Screw head: Countersunk head

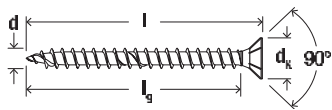
Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	35	FPF-SZ 3,5 x 35 A2P 100	657156	24	7.0	PZ2	100	4048962040760
	40	FPF-SZ 3,5 x 40 A2P 100	657158	24	7.0	PZ2	100	4048962040784
4.0	35	FPF-SZ 4,0 x 35 A2P 300	657171	24	8.0	PZ2	300	4048962040913
	40	FPF-SZ 4,0 x 40 A2P 200	657174	24	8.0	PZ2	200	4048962040944
	45	FPF-SZ 4,0 x 45 A2P 200	657177	30	8.0	PZ2	200	4048962040975
	50	FPF-SZ 4,0 x 50 A2P 200	657180	30	8.0	PZ2	200	4048962041002
	60	FPF-SZ 4,0 x 60 A2P 100	657181	36	8.0	PZ2	100	4048962041019
	70	FPF-SZ 4,0 x 70 A2P 100	657182	42	8.0	PZ2	100	4048962041026
4.5	40	FPF-SZ 4,5 x 40 A2P 300	657192	24	9.0	PZ2	300	4048962041125
	45	FPF-SZ 4,5 x 45 A2P 200	657195	30	9.0	PZ2	200	4048962041156
	50	FPF-SZ 4,5 x 50 A2P 200	657198	30	9.0	PZ2	200	4048962041187
	60	FPF-SZ 4,5 x 60 A2P 100	657200	36	9.0	PZ2	100	4048962041200
	70	FPF-SZ 4,5 x 70 A2P 100	657203	42	9.0	PZ2	100	4048962041231
5.0	40	FPF-SZ 5,0 x 40 A2P 200	657216	24	10.0	PZ2	200	4048962041361
	45	FPF-SZ 5,0 x 45 A2P 200	657219	30	10.0	PZ2	200	4048962041392
	50	FPF-SZ 5,0 x 50 A2P 200	657222	30	10.0	PZ2	200	4048962041422
	60	FPF-SZ 5,0 x 60 A2P 100	657225	36	10.0	PZ2	100	4048962041453
	70	FPF-SZ 5,0 x 70 A2P 100	657228	42	10.0	PZ2	100	4048962041484
	80	FPF-SZ 5,0 x 80 A2P 100	657231	50	10.0	PZ2	100	4048962041514
	100	FPF-SZ 5,0 x 100 A2P 50	657235	60	10.0	PZ2	50	4048962041552
6.0	40	FPF-SZ 6,0 x 40 A2P 100	657237	24	12.0	PZ3	100	4048962041576
	50	FPF-SZ 6,0 x 50 A2P 100	657241	30	12.0	PZ3	100	4048962041613
	60	FPF-SZ 6,0 x 60 A2P 100	657244	36	12.0	PZ3	100	4048962041644
	70	FPF-SZ 6,0 x 70 A2P 100	657247	42	12.0	PZ3	100	4048962041675
	80	FPF-SZ 6,0 x 80 A2P 100	657250	50	12.0	PZ3	100	4048962041705
	90	FPF-SZ 6,0 x 90 A2P 50	657252	60	12.0	PZ3	50	4048962041729
	100	FPF-SZ 6,0 x 100 A2P 100	657255	60	12.0	PZ3	100	4048962041750
	120	FPF-SZ 6,0 x 120 A2P 100	657258	70	12.0	PZ3	100	4048962041781
	140	FPF-SZ 6,0 x 140 A2P 50	657260	70	12.0	PZ3	50	4048962041804
	160	FPF-SZ 6,0 x 160 A2P 50	657262	70	12.0	PZ3	50	4048962041828

FPF-SZ A2F

Technical data



Material: Stainless steel A2

Drive: Cross drive PZ

Thread: Full thread

Screw head: Countersunk head

Approval: ETA-11/0027 - Screws for use in timber constructions

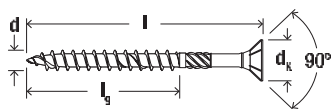


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	25	FPF-SZ 3,0 x 25 A2F 100	657138	21	6.0	PZ1	100	4048962040586
	30	FPF-SZ 3,0 x 30 A2F 100	657140	26	6.0	PZ1	100	4048962040609
	35	FPF-SZ 3,0 x 35 A2F 100	657142	31	6.0	PZ1	100	4048962040623
3.5	20	FPF-SZ 3,5 x 20 A2F 300	657149	16	7.0	PZ2	300	4048962040692
	25	FPF-SZ 3,5 x 25 A2F 300	657151	21	7.0	PZ2	300	4048962040715
	30	FPF-SZ 3,5 x 30 A2F 100	657152	26	7.0	PZ2	100	4048962040722
	35	FPF-SZ 3,5 x 35 A2F 100	657154	31	7.0	PZ2	100	4048962040746
4.0	20	FPF-SZ 4,0 x 20 A2F 100	657160	15	8.0	PZ2	100	4048962040807
	25	FPF-SZ 4,0 x 25 A2F 300	657163	20	8.0	PZ2	300	4048962040838
	30	FPF-SZ 4,0 x 30 A2F 300	657166	25	8.0	PZ2	300	4048962040869
4.5	30	FPF-SZ 4,5 x 30 A2F 100	657183	25	9.0	PZ2	100	4048962041033
	35	FPF-SZ 4,5 x 35 A2F 100	657185	30	9.0	PZ2	100	4048962041057
	40	FPF-SZ 4,5 x 40 A2F 300	657189	35	9.0	PZ2	300	4048962041095
5.0	30	FPF-SZ 5,0 x 30 A2F 200	657210	24	10.0	PZ2	200	4048962041309
	35	FPF-SZ 5,0 x 35 A2F 200	657213	29	10.0	PZ2	200	4048962041330

FPF-ST A2P

Technical data



Material: Stainless steel A2

Drive: TX-Star recess

Thread: Partial thread

Screw head: Countersunk head

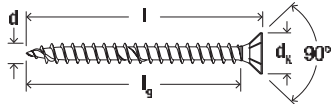
Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	35	FPF-ST 3,5 x 35 A2P 200	657024	24	7.0	TX10	200	4048962039443
	40	FPF-ST 3,5 x 40 A2P 200	657026	24	7.0	TX10	200	4048962039467
4.0	40	FPF-ST 4,0 x 40 A2P 200	657040	24	8.0	TX20	200	4048962039603
	45	FPF-ST 4,0 x 45 A2P 200	657042	30	8.0	TX20	200	4048962039627
	50	FPF-ST 4,0 x 50 A2P 200	657044	30	8.0	TX20	200	4048962039641
	60	FPF-ST 4,0 x 60 A2P 200	657046	36	8.0	TX20	200	4048962039665
4.5	35	FPF-ST 4,5 x 35 A2P 200	657052	24	9.0	TX20	200	4048962039726
	40	FPF-ST 4,5 x 40 A2P 200	657057	24	9.0	TX20	200	4048962039771
	45	FPF-ST 4,5 x 45 A2P 200	657060	30	9.0	TX20	200	4048962039801
	50	FPF-ST 4,5 x 50 A2P 200	657063	30	9.0	TX20	200	4048962039832
	60	FPF-ST 4,5 x 60 A2P 100	657065	36	9.0	TX20	100	4048962039856
	70	FPF-ST 4,5 x 70 A2P 100	657067	42	9.0	TX20	100	4048962039870
5.0	40	FPF-ST 5,0 x 40 A2P 200	657079	24	10.0	TX20	200	4048962039993
	45	FPF-ST 5,0 x 45 A2P 200	657082	30	10.0	TX20	200	4048962040029
	50	FPF-ST 5,0 x 50 A2P 200	657085	30	10.0	TX20	200	4048962040050
	60	FPF-ST 5,0 x 60 A2P 100	657088	36	10.0	TX20	100	4048962040081
	70	FPF-ST 5,0 x 70 A2P 100	657091	42	10.0	TX20	100	4048962040111
	80	FPF-ST 5,0 x 80 A2P 100	657094	50	10.0	TX20	100	4048962040142
	100	FPF-ST 5,0 x 100 A2P 100	657097	60	10.0	TX20	100	4048962040173
	120	FPF-ST 5,0 x 120 A2P 100	657100	70	10.0	TX20	100	4048962040203
6.0	40	FPF-ST 6,0 x 40 A2P 200	657103	24	12.0	TX30	200	4048962040234
	50	FPF-ST 6,0 x 50 A2P 200	657109	30	12.0	TX30	200	4048962040296
	60	FPF-ST 6,0 x 60 A2P 100	657112	36	12.0	TX30	100	4048962040326
	70	FPF-ST 6,0 x 70 A2P 100	657115	42	12.0	TX30	100	4048962040357
	80	FPF-ST 6,0 x 80 A2P 100	657118	50	12.0	TX30	100	4048962040388
	90	FPF-ST 6,0 x 90 A2P 100	657121	60	12.0	TX30	100	4048962040418
	100	FPF-ST 6,0 x 100 A2P 100	657124	60	12.0	TX30	100	4048962040449
	120	FPF-ST 6,0 x 120 A2P 100	657127	70	12.0	TX30	100	4048962040470
	140	FPF-ST 6,0 x 140 A2P 100	657129	70	12.0	TX30	100	4048962040494
	160	FPF-ST 6,0 x 160 A2P 100	657131	70	12.0	TX30	100	4048962040517
	180	FPF-ST 6,0 x 180 A2P 100	657409	70	12.0	TX30	100	4048962124965
	200	FPF-ST 6,0 x 200 A2P 100	657410	70	12.0	TX30	100	4048962124972

FPF-ST A2F

Technical data



Material: Stainless steel A2

Drive: TX-Star recess

Thread: Full thread

Screw head: Countersunk head

Approval: ETA-11/0027 - Screws for use in timber constructions

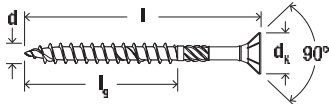


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	12	FPF-ST 3,0 x 12 A2F 300	657002	8	6.0	TX10	300	4048962039221
	16	FPF-ST 3,0 x 16 A2F 300	657004	12	6.0	TX10	300	4048962039245
	20	FPF-ST 3,0 x 20 A2F 300	657006	16	6.0	TX10	300	4048962039269
	25	FPF-ST 3,0 x 25 A2F 300	657008	21	6.0	TX10	300	4048962039283
	30	FPF-ST 3,0 x 30 A2F 300	657010	26	6.0	TX10	300	4048962039306
	35	FPF-ST 3,0 x 35 A2F 200	657012	31	6.0	TX10	200	4048962039320
3.5	16	FPF-ST 3,5 x 16 A2F 300	657014	12	7.0	TX10	300	4048962039344
	20	FPF-ST 3,5 x 20 A2F 300	657016	16	7.0	TX10	300	4048962039368
	25	FPF-ST 3,5 x 25 A2F 300	657018	21	7.0	TX10	300	4048962039382
	30	FPF-ST 3,5 x 30 A2F 200	657020	26	7.0	TX10	200	4048962039405
	35	FPF-ST 3,5 x 35 A2F 200	657022	31	7.0	TX10	200	4048962039429
4.0	20	FPF-ST 4,0 x 20 A2F 200	657028	15	8.0	TX20	200	4048962039481
	25	FPF-ST 4,0 x 25 A2F 200	657030	20	8.0	TX20	200	4048962039504
	30	FPF-ST 4,0 x 30 A2F 200	657032	25	8.0	TX20	200	4048962039528
	35	FPF-ST 4,0 x 35 A2F 200	657036	30	8.0	TX20	200	4048962039566
4.5	30	FPF-ST 4,5 x 30 A2F 200	657048	25	9.0	TX20	200	4048962039689
	35	FPF-ST 4,5 x 35 A2F 200	657050	30	9.0	TX20	200	4048962039702
5.0	30	FPF-ST 5,0 x 30 A2F 200	657070	24	10.0	TX20	200	4048962039900
	35	FPF-ST 5,0 x 35 A2F 200	657073	29	10.0	TX20	200	4048962039931

FPF-ST A4P

Technical data



Material: Stainless steel A4

Drive: TX-Star recess

Thread: Partial thread

Screw head: Countersunk head

Approval: ETA-11/0027 - Screws for use in timber constructions

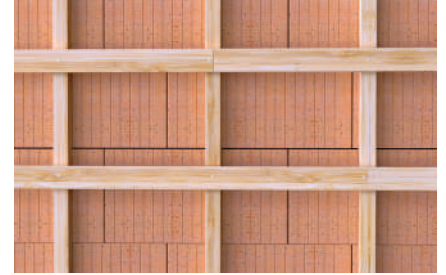
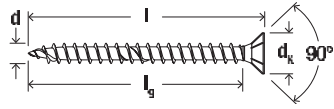




Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.0	35	FPF-ST 4,0 x 35 A4P 200	657280	24	8.0	TX20	200	4048962042009
	40	FPF-ST 4,0 x 40 A4P 200	040562	24	8.0	TX20	200	4006209405628
	45	FPF-ST 4,0 x 45 A4P 200	657283	30	8.0	TX20	200	4048962042030
	50	FPF-ST 4,0 x 50 A4P 200	657285	30	8.0	TX20	200	4048962042054
4.5	40	FPF-ST 4,5 x 40 A4P 200	657291	24	9.0	TX20	200	4048962042115
	45	FPF-ST 4,5 x 45 A4P 200	657293	30	9.0	TX20	200	4048962042139
	50	FPF-ST 4,5 x 50 A4P 200	040563	30	9.0	TX20	200	4006209405635
	70	FPF-ST 4,5 x 70 A4P 200	040504	42	9.0	TX20	200	4006209405048
	80	FPF-ST 4,5 x 80 A4P 200	040505	50	9.0	TX20	200	4006209405055
5.0	40	FPF-ST 5,0 x 40 A4P 200	657300	24	10.0	TX20	200	4048962042207
	50	FPF-ST 5,0 x 50 A4P 200	040565	30	10.0	TX20	200	4006209405659
	60	FPF-ST 5,0 x 60 A4P 200	040566	36	10.0	TX20	200	4006209405666
	70	FPF-ST 5,0 x 70 A4P 100	040567	42	10.0	TX20	100	4006209405673
	80	FPF-ST 5,0 x 80 A4P 100	040568	50	10.0	TX20	100	4006209405680
6.0	40	FPF-ST 6,0 x 40 A4P 200	657306	24	12.0	TX30	200	4048962042269
	50	FPF-ST 6,0 x 50 A4P 100	657308	30	12.0	TX30	100	4048962042283
	60	FPF-ST 6,0 x 60 A4P 100	657310	36	12.0	TX30	100	4048962042306
	80	FPF-ST 6,0 x 80 A4P 100	657312	50	12.0	TX30	100	4048962042320
	100	FPF-ST 6,0 x 100 A4P 100	040569	60	12.0	TX30	100	4006209405697
	120	FPF-ST 6,0 x 120 A4P 100	040570	70	12.0	TX30	100	4006209405703
	140	FPF-ST 6,0 x 140 A4P 100	657404	70	12.0	TX30	100	4048962124910
	160	FPF-ST 6,0 x 160 A4P 100	657405	70	12.0	TX30	100	4048962124927
	180	FPF-ST 6,0 x 180 A4P 100	657406	70	12.0	TX30	100	4048962124934
	200	FPF-ST 6,0 x 200 A4P 100	657407	70	12.0	TX30	100	4048962124941

FPF-ST A4F

Technical data



Material: Stainless steel A4

Drive: TX-Star recess

Thread: Full thread

Screw head: Countersunk head

Approval: ETA-11/0027 - Screws for use in timber constructions

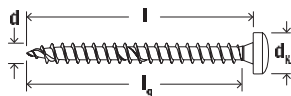


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	16	FPF-ST 3,0 x 16 A4F 200	657264	12	6.0	TX10	200	4048962041842
	20	FPF-ST 3,0 x 20 A4F 200	657266	16	6.0	TX10	200	4048962041866
	25	FPF-ST 3,0 x 25 A4F 200	657268	21	6.0	TX10	200	4048962041880
	30	FPF-ST 3,0 x 30 A4F 200	657270	26	6.0	TX10	200	4048962041903
3.5	20	FPF-ST 3,5 x 20 A4F 200	657272	16	7.0	TX10	200	4048962041927
	30	FPF-ST 3,5 x 30 A4F 200	657274	26	7.0	TX10	200	4048962041941
4.0	20	FPF-ST 4,0 x 20 A4F 200	657276	15	8.0	TX20	200	4048962041965
	30	FPF-ST 4,0 x 30 A4F 200	657278	25	8.0	TX20	200	4048962041989
4.5	30	FPF-ST 4,5 x 30 A4F 200	657287	25	9.0	TX20	200	4048962042078
	35	FPF-ST 4,5 x 35 A4F 200	657289	30	9.0	TX20	200	4048962042092
5.0	30	FPF-ST 5,0 x 30 A4F 200	657298	24	10.0	TX20	200	4048962042184

FPF-PT A2F

Technical data



Material: Stainless steel A2

Drive: TX-Star recess

Thread: Full thread

Screw head: Pan Head

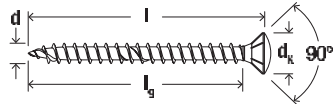
Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	16	FPF-PT 3,0 x 16 A2F 200	657353	14	6.0	TX10	200	4048962050462
	20	FPF-PT 3,0 x 20 A2F 200	657355	18	6.0	TX10	200	4048962050486
3.5	12	FPF-PT 3,5 x 12 A2F 200	657357	10	7.0	TX10	200	4048962050509
	16	FPF-PT 3,5 x 16 A2F 200	657359	14	7.0	TX10	200	4048962050523
	20	FPF-PT 3,5 x 20 A2F 200	657361	18	7.0	TX10	200	4048962050547
	30	FPF-PT 3,5 x 30 A2F 200	657363	28	7.0	TX10	200	4048962050561
4.0	16	FPF-PT 4,0 x 16 A2F 200	657365	13	8.0	TX20	200	4048962050585
	20	FPF-PT 4,0 x 20 A2F 200	657367	17	8.0	TX20	200	4048962050608
	30	FPF-PT 4,0 x 30 A2F 200	657369	27	8.0	TX20	200	4048962050622
	40	FPF-PT 4,0 x 40 A2F 100	657371	37	8.0	TX20	100	4048962050646
4.5	30	FPF-PT 4,5 x 30 A2F 200	657373	27	9.0	TX20	200	4048962050660
	35	FPF-PT 4,5 x 35 A2F 100	657375	32	9.0	TX20	100	4048962050684
	40	FPF-PT 4,5 x 40 A2F 100	657377	37	9.0	TX20	100	4048962050707
5.0	30	FPF-PT 5,0 x 30 A2F 200	657379	26	10.0	TX20	200	4048962050721
	40	FPF-PT 5,0 x 40 A2F 100	657381	36	10.0	TX20	100	4048962050745
	50	FPF-PT 5,0 x 50 A2F 50	657383	46	10.0	TX20	50	4048962050769
	60	FPF-PT 5,0 x 60 A2F 50	657385	56	10.0	TX20	50	4048962050783
6.0	40	FPF-PT 6,0 x 40 A2F 50	657387	36	12.0	TX30	50	4048962050806
	50	FPF-PT 6,0 x 50 A2F 50	657389	46	12.0	TX30	50	4048962050820
	60	FPF-PT 6,0 x 60 A2F 50	657391	56	12.0	TX30	50	4048962050844

FPF-LZ A2F

Technical data



Material: Stainless steel A2

Drive: Cross drive PZ

Thread: Full thread

Screw head: Raised countersunk head

Approval: ETA-11/0027 - Screws for use in timber constructions



6

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	16	FPF-LZ 3,5 x 16 A2F 200	657331	12	7.0	PZ2	200	4048962045390
	20	FPF-LZ 3,5 x 20 A2F 200	657333	16	7.0	PZ2	200	4048962045413
	30	FPF-LZ 3,5 x 30 A2F 200	657335	26	7.0	PZ2	200	4048962045437
	40	FPF-LZ 3,5 x 40 A2F 200	657337	36	7.0	PZ2	200	4048962045451
4.0	30	FPF-LZ 4,0 x 30 A2F 200	657339	25	8.0	PZ2	200	4048962045475
	40	FPF-LZ 4,0 x 40 A2F 200	657341	35	8.0	PZ2	200	4048962045499
	50	FPF-LZ 4,0 x 50 A2F 200	657343	45	8.0	PZ2	200	4048962045512
4.5	40	FPF-LZ 4,5 x 40 A2F 200	657345	35	9.0	PZ2	200	4048962045536
	50	FPF-LZ 4,5 x 50 A2F 200	657347	45	9.0	PZ2	200	4048962045550
5.0	50	FPF-LZ 5,0 x 50 A2F 200	657349	44	10.0	PZ2	200	4048962045574
	60	FPF-LZ 5,0 x 60 A2F 200	657351	54	10.0	PZ2	200	4048962045598



7

Special screw zinc plated

HINGE TAPE SCREW, CROSS DRIVE PZ

FHT-SZ ZPF 98 

MDF-PLATE SCREW, TX STAR RECESS

FDF-ST YZP 99 

WOOD FLOOR SCREW, TX STAR RECESS

FTF-ST YZP 100 

WITH PAN HEAD, TX STAR RECESS

FPF-PT ZPF 101 

Your benefits:

Hinge tape screw

- Flush fit with the hinge thanks to the small head

MDF plate screw

- Quick and easy sinking
- 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

For special applications, flexible and unobtrusive.

Head shape variants

Hinge tape screw

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



Wood floor screw

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



MDF plate screw

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



Wood Connector Screw

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



Special screws for special applications

- Screw geometry specially designed for the application
- 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

Technical data



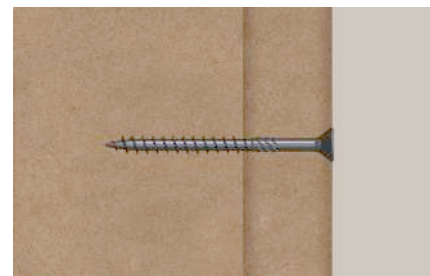
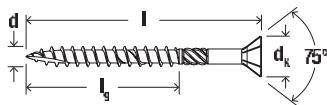
Material: Steel
Coating: blue zinc plated
Drive: Cross drive PZ
Thread: Full thread
Screw head: Small countersunk head 5



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	20	FHT-SZ 3,0 x 20 ZPF 200	660306	15	5.0	PZ1	200	4048962043600
	25	FHT-SZ 3,0 x 25 ZPF 200	660307	20	5.0	PZ1	200	4048962043617
	30	FHT-SZ 3,0 x 30 ZPF 200	660308	25	5.0	PZ1	200	4048962043624

FDF-ST YZP

Technical data



Material: Steel

Coating: yellow zinc plated

Drive: TX-Star recess

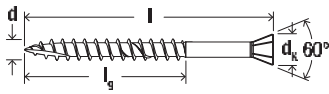
Thread: Partial thread

Screw head: Small countersunk head 75°

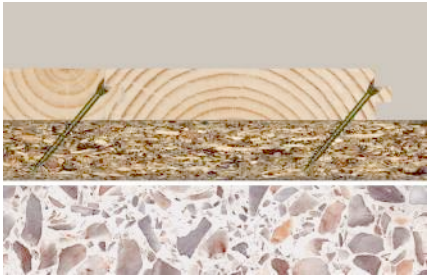
Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	40	FDF-ST 3,5 x 40 YZP 200	660201	24	7.0	TX10	200	4048962043464
	45	FDF-ST 3,5 x 45 YZP 200	660202	30	7.0	TX10	200	4048962043471
	50	FDF-ST 3,5 x 50 YZP 200	660203	30	7.0	TX10	200	4048962043488
4.0	40	FDF-ST 4,0 x 40 YZP 200	660204	24	8.0	TX20	200	4048962043495
	45	FDF-ST 4,0 x 45 YZP 200	660205	30	8.0	TX20	200	4048962043501
	50	FDF-ST 4,0 x 50 YZP 200	660206	30	8.0	TX20	200	4048962043518
	60	FDF-ST 4,0 x 60 YZP 100	660207	36	8.0	TX20	100	4048962043525
4.5	45	FDF-ST 4,5 x 45 YZP 200	660208	30	9.0	TX20	200	4048962043532
	50	FDF-ST 4,5 x 50 YZP 200	660209	30	9.0	TX20	200	4048962043549

FTF-ST YZP

Technical data



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

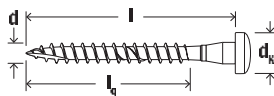


7

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	35	FTF-ST 3,5 x 35 YZP 200	660101	24	6.0	TX10	200	4048962043402
	45	FTF-ST 3,5 x 45 YZP 200	660103	30	6.0	TX10	200	4048962043426
	55	FTF-ST 3,5 x 55 YZP 200	660105	36	6.0	TX10	200	4048962043440

FPF-PT ZPF

Technical data



Material: Steel

Coating: blue zinc plated

Drive: TX-Star recess

Thread: Full thread

Screw head: Pan Head

Approval: ETA-11/0027 - Screws for use in timber constructions



7

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
5.0	35	FPF-PT 5,0 x 35 ZPF 200	652879	30	8.5	TX20	200	4048962254013
	40	FPF-PT 5,0 x 40 ZPF 200	652880	35	8.5	TX20	200	4048962254020
	50	FPF-PT 5,0 x 50 ZPF 200	652881	45	8.5	TX20	200	4048962254037



8

Special screw stainless steel

WITH COUNTERSUNK HEAD, TX STAR RECESS

FFS II RT-6 A2	106	
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TERRACE SCREW, TX STAR RECESS

FTS-ST A2P	107	
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WITH COUNTERSUNK HEAD, TX STAR RECESS

PPF-ST A2P	108	
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JAMB SCREW, TX STAR RECESS

FJS-LT A2F	109	
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Your benefits:

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 façade screw

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

Jamb screw

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

For outdoor applications, safe and durable.

8

Head shape variants



Wood façade screw

- For visible wooden façades with wooden sub-structures
- With 60° countersunk head for an unobtrusive and secure connection



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



Terrace screw

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



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)

Predrilling 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 II RT-6 A2

Technical data



Material: Stainless steel A2
Drive: TX-Star recess
Thread: Partial thread
Screw head: Countersunk head
Approval: ETA-11/0027 - Screws for use in timber constructions



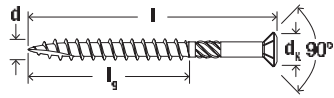


8

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.5	40	FFSII-RT6 4,5 x 40 A2	548559	24	6.9	TX20	300	4048962347340
	45	FFSII-RT6 4,5 x 45 A2	548560	30	6.9	TX20	300	4048962347357
	50	FFSII-RT6 4,5 x 50 A2	548561	30	6.9	TX20	300	4048962347364
	60	FFSII-RT6 4,5 x 60 A2	548562	36	6.9	TX20	200	4048962347371
	70	FFSII-RT6 4,5 x 70 A2	548563	42	6.9	TX20	200	4048962347388
5.0	60	FFSII-RT6 5,0 x 60 A2	548565	36	7.8	TX20	200	4048962347401
	70	FFSII-RT6 5,0 x 70 A2	548566	42	7.8	TX20	100	4048962347425
	80	FFSII-RT6 5,0 x 80 A2	548567	50	7.8	TX20	100	4048962347432

FTS-ST A2P

Technical data

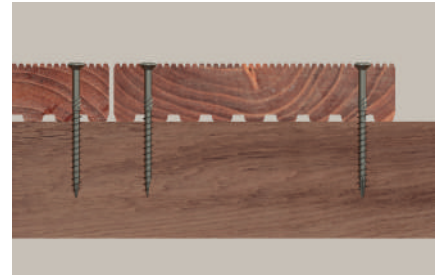


Material: Stainless steel A2

Drive: TX-Star recess

Thread: Partial thread

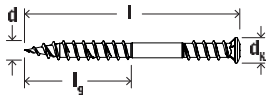
Screw head: Flat countersunk head 8,2, 90°



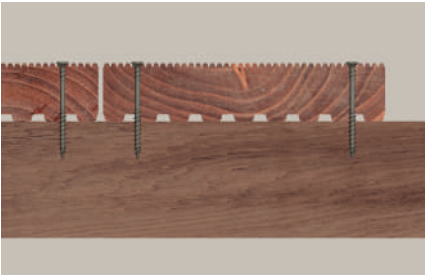
Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
5.0	40	FTS-ST 5,0 x 40 A2P 200	660602	24	8.2	TX20	200	4048962050868
	50	FTS-ST 5,0 x 50 A2P 200	660604	30	8.2	TX20	200	4048962050882
	50	FTS-ST 5,0 x 50 A2P 500	660605	30	8.2	TX20	500	4048962050899
	60	FTS-ST 5,0 x 60 A2P 150	660607	36	8.2	TX20	150	4048962050912
	60	FTS-ST 5,0 x 60 A2P 500	660608	36	8.2	TX20	500	4048962050929
	70	FTS-ST 5,0 x 70 A2P 100	660610	42	8.2	TX20	100	4048962050943
	80	FTS-ST 5,0 x 80 A2P 100	660612	50	8.2	TX20	100	4048962050967

FPF-ST A2P

Technical data



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

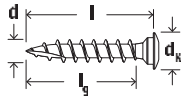
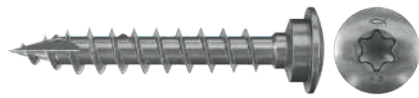


8

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
5.5	40	FPF-ST 5,5 x 40 A2P 200	660614	22	7.5	TX20	200	4048962126594
	50	FPF-ST 5,5 x 50 A2P 200	660615	25	7.5	TX20	200	4048962126600
	60	FPF-ST 5,5 x 60 A2P 200	660616	30	7.5	TX20	200	4048962126617
	70	FPF-ST 5,5 x 70 A2P 200	660617	35	7.5	TX20	200	4048962126624
	80	FPF-ST 5,5 x 80 A2P 200	660618	40	7.5	TX20	200	4048962126631

FJS-LT A2F

Technical data



Material: Stainless steel A2

Drive: TX-Star recess

Thread: Full thread

Screw head: Special round head with centering 13,5



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
7.0	40	FJS-LT 7,0 x 40 A2F 50	660702	30	13.6	TX30	50	4048962050981
	50	FJS-LT 7,0 x 50 A2F 50	660704	40	13.6	TX30	50	4048962051001



9

Drywall screw

WITH TRUMPET SHAPE HEAD, CROSS DRIVE PH

FSN-TPR / TPRM	114	
FSN-TP / TPM	115	
FSN-TPD / TPDM	116	
FSN-TPB / TPBM	117	

WITH COUNTERSUNK HEAD, CROSS DRIVE PH

FSN-TPG / TPGM (fermacell)	118	
FSN-TPGM	119	

WITH PAN HEAD, CROSS DRIVE PH

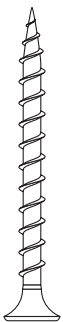
FPS-FP / FPB	120	
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Your benefits:

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

Fast, reliable and simply in the application.

9



Head shape variants

Drywall screw with coarse thread

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



Drywall 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



Drywall screw with fine thread

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



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 2.0 mm in thickness. Pre-drilling not required

Drywall screws

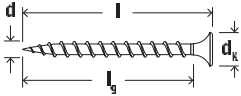
- Suitable for the fixing of gypsum plasterboard, gypsum fibreboard and metal profile stands
- The special drill bit tips allow for reliable seating. Pre-drilling not required

- Various screw head versions available to suit the application in question



FSN-TPR

Technical data



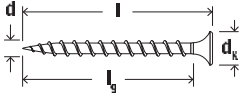
Material: Steel
Coating: phosphated
Drive: Cross drive PH
Thread: Coarse thread
Screw head: Trumpet shape head
Suitability: For connection to wooden substructures



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.9	25	FSN-TPR 3,9 x 25 F 1000	665045	19	8.3	PH 2	1000	4048962052473
	30	FSN-TPR 3,9 x 30 F 1000	665046	24	8.3	PH 2	1000	4048962052480
	35	FSN-TPR 3,9 x 35 F 1000	665049	29	8.3	PH 2	1000	4048962052510
	45	FSN-TPR 3,9 x 45 F 1000	665052	39	8.3	PH 2	1000	4048962052541
	55	FSN-TPR 3,9 x 55 F 500	665055	49	8.3	PH 2	500	4048962052572

FSN-TPRM

Technical data



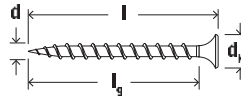
Material: Steel
Coating: phosphated
Drive: Cross drive PH
Thread: Coarse thread
Screw head: Trumpet shape head
Suitability: For connection to wooden substructures
Specially: collated, belt system for strip screws



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	35	FSN-TPRM 3,5 x 35 F 1000	665090	29	8.3	PH 2	1000	4048962052923
	45	FSN-TPRM 3,5 x 45 F 1000	665091	39	8.3	PH 2	1000	4048962052930
	55	FSN-TPRM 3,5 x 55 F 1000	665092	49	8.3	PH 2	1000	4048962052947

FSN-TP

Technical data

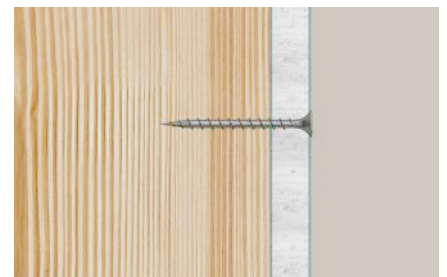
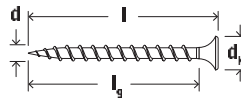


Material: Steel
 Coating: blue zinc plated
 Drive: Cross drive PH
 Thread: Coarse thread
 Screw head: Trumpet shape head
 Suitability: For connection to wooden substructures

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	25	FSN-TP 3,5 x 25 ZPF 1000	040594	20	8.3	PH 2	1000	4006209405949
	32	FSN-TP 3,5 x 32 ZPF 200	040591	27	8.3	PH 2	200	4006209405918
	32	FSN-TP 3,5 x 32 ZPF 1000	040595	27	8.3	PH 2	1000	4006209405956
	45	FSN-TP 3,5 x 45 ZPF 200	040592	40	8.3	PH 2	200	4006209405925
	45	FSN-TP 3,5 x 45 ZPF 500	040596	40	8.3	PH 2	500	4006209405963
	55	FSN-TP 3,5 x 55 ZPF 100	040593	50	8.3	PH 2	100	4006209405932
	55	FSN-TP 3,5 x 55 ZPF 500	040597	50	8.3	PH 2	500	4006209405970
3.9	70	FSN-TP 3,9 x 70 ZPF 250	040598	50	8.3	PH 2	250	4006209405987

FSN-TPM

Technical data

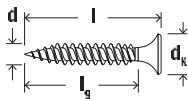


Material: Steel
 Coating: blue zinc plated
 Drive: Cross drive PH
 Thread: Coarse thread
 Screw head: Trumpet shape head
 Suitability: For connection to wooden substructures
 Specially: collated, belt system for strip screws

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	25	FSN-TPM 3,5 x 25 ZPF 1000	040606	20	8.3	PH 2	1000	4006209406069
	32	FSN-TPM 3,5 x 32 ZPF 1000	040607	27	8.3	PH 2	1000	4006209406076
	45	FSN-TPM 3,5 x 45 ZPF 1000	040608	40	8.3	PH 2	1000	4006209406083
	41	FSN-TPM 3,5 x 41 ZPF 1000	040609	36	8.3	PH 2	1000	4006209406090
	55	FSN-TPM 3,5 x 55 ZPF 1000	040610	50	8.3	PH 2	1000	4006209406106

FSN-TPD

Technical data



Material: Steel

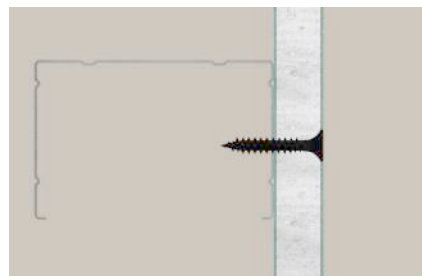
Coating: blue zinc plated

Drive: Cross drive PH

Thread: Fine thread

Screw head: Trumpet shape head

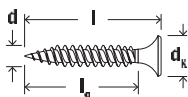
Suitability: Thick metal profiles up to 0,7 mm without pre-drilling



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	25	FSN-TPD 3,5 x 25 F 1000	040512	19	8.3	PH 2	1000	4006209405123
	35	FSN-TPD 3,5 x 35 F 1000	665001	29	8.3	PH 2	1000	4048962052039
	45	FSN-TPD 3,5 x 45 F 1000	665002	39	8.3	PH 2	1000	4048962052046
	55	FSN-TPD 3,5 x 55 F 1000	665003	49	8.3	PH 2	1000	4048962052053
3.9	25	FSN-TPD 3,9 x 25 F 1000	665007	19	8.3	PH 2	1000	4048962052091
	30	FSN-TPD 3,9 x 30 F 1000	665011	24	8.3	PH 2	1000	4048962052138
	35	FSN-TPD 3,9 x 35 F 1000	665015	29	8.3	PH 2	1000	4048962052176
	45	FSN-TPD 3,9 x 45 F 1000	665019	39	8.3	PH 2	1000	4048962052213
	55	FSN-TPD 3,9 x 55 F 600	665022	49	8.3	PH 2	600	4048962052244

FSN-TPM

Technical data



Material: Steel

Coating: blue zinc plated

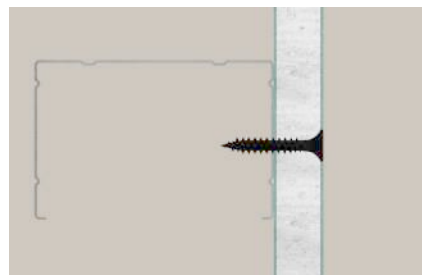
Drive: Cross drive PH

Thread: Fine thread

Screw head: Trumpet shape head

Suitability: Thick metal profiles up to 0,7 mm without pre-drilling

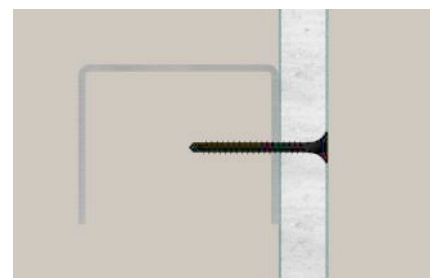
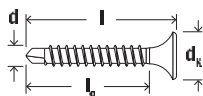
Specially: collated, belt system for strip screws



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	25	FSN-TPDM 3,5 x 25 F 1000	040603	19	8.3	PH 2	1000	4006209406038
	35	FSN-TPDM 3,5 x 35 F 1000	665088	29	8.3	PH 2	1000	4048962052909
	45	FSN-TPDM 3,5 x 45 F 1000	665089	39	8.3	PH 2	1000	4048962052916

FSN-TPB

Technical data



Material: Steel

Coating: phosphated

Drive: Cross drive PH

Thread: Fine thread

Screw head: Trumpet shape head

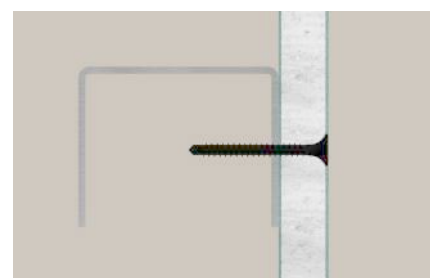
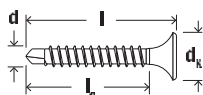
Suitability: Thick metal profiles up to 2 mm without pre-drilling

Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	25	FSN-TPB 3,5 x 25 F 1000	040599	21	8.3	PH 2	1000	4006209405994
	35	FSN-TPB 3,5 x 35 F 1000	665071	31	8.3	PH 2	1000	4048962052732
	45	FSN-TPB 3,5 x 45 F 1000	665074	41	8.3	PH 2	1000	4048962052763
	55	FSN-TPB 3,5 x 55 F 500	665077	51	8.3	PH 2	500	4048962052794

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FSN-TPBM

Technical data



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

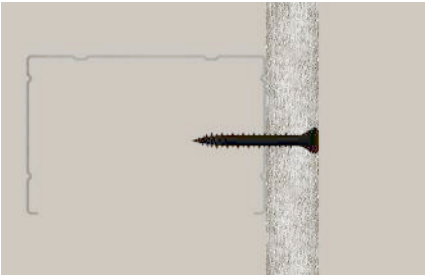
Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	25	FSN-TPBM 3,5 x 25 F 1000	040613	21	8.3	PH 2	1000	4006209406137
	35	FSN-TPBM 3,5 x 35 F 1000	665093	31	8.3	PH 2	1000	4048962052954
	45	FSN-TPBM 3,5 x 45 F 1000	665094	41	8.3	PH 2	1000	4048962052961

FSN-TPG (fermacell)

Technical data



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



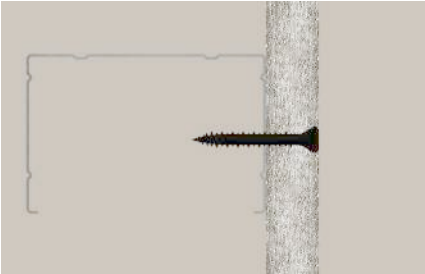
Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.9	19	FSN-TPG 3,9 x 19 F 1000	665095	13	6.8	PH 2	1000	4048962055184
	22	FSN-TPG 3,9 x 22 F 1000	665081	16	6.8	PH 2	1000	4048962052831
	30	FSN-TPG 3,9 x 30 F 1000	665098	24	6.8	PH 2	1000	4048962055214
	35	FSN-TPG 3,9 x 35 F 1000	665084	29	6.8	PH 2	1000	4048962052862
	45	FSN-TPG 3,9 x 45 F 1000	665101	39	6.8	PH 2	1000	4048962055245
	55	FSN-TPG 3,9 x 55 F 600	665087	49	6.8	PH 2	600	4048962052893

FSN-TPGM (fermacell)

Technical data



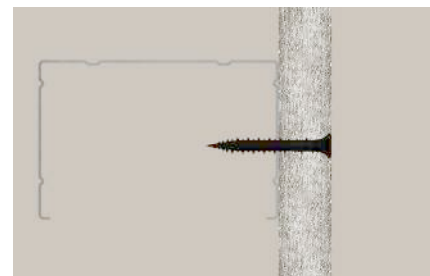
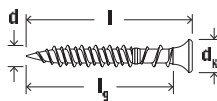
Material: Steel
Coating: phosphated
Drive: Cross drive PH
Thread: HiLo thread
Screw head: Small countersunk head 60°
Suitability: For gypsum fibreboard (fermacell boards) on metal profiles up to 0,7 mm in thickness without pre-drilling
Specially: collated, belt system for strip screws



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length lg [mm]	Head-Ø dk [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.9	30	FSN-TPGM 3,9 x 30 PHF 1000	665103	24	6.8	PH 2	1000	4048962196665
	45	FSN-TPGM 3,9 x 45 PHF 1000	665104	39	6.8	PH 2	1000	4048962196672

FSN-TPGM

Technical data



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 d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.9	32	FSN-TPGM 3,9 x 32 PHF 1000	040611	27	6.8	PH 2	1000	4006209406113
	41	FSN-TPGM 3,9 x 41 PHF 1000	040612	35	6.8	PH 2	1000	4006209406120

FPS-FP ZPF

Technical data



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



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.2	13	FPS-FP 4,2 x 13 ZPF 1000	040456	13	9.6	PH 2	1000	4006209404560

FPS-FPB ZPF

Technical data



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



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.2	13	FPS-FPB 4,2 x 13 ZPF 1000	040457	13	9.6	PH 2	1000	4006209404577



10

DIY programme

SCREW ASSORTMENT BOXES

various assortment boxes

124



FPF-SZ YZP

126



FPF-SZ YZF

127



FPF-PZ ZPF

128



FPF-SZ A2P

129



FPF-SZ A2F

130



Your benefits:

- Basic screw assortment for the handyman
- Blue zinc-plated and stainless steel screws with PZ cross-slot
- Screw boxes with a compilation of the most common screw sizes
- Hard boxes with transparent lid and hanger for shelf curtain

Power-Fast assortment box, 245 pieces, German

Technical data

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



Item	Item No.	Set consisting of	Drive	Sales unit [pcs]	GTIN (EAN Code)
FAB FPF ST YZ 245 P	667005	3.5 x 16 per 50 pieces, 3.5 x 30 per 30 pieces, 4.0 x 30 per 50 pieces, 4.0 x 35 per 40 pieces, 4.0 x 40 per 30 pieces, 4.5 x 50 per 25 pieces, 5.0 x 60 per 20 pieces, TX 10 Bit per 1 piece, TX 20 Bit per 1 piece	TX10 / TX20	1	4048962100983

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Power-Fast assortment box, 245 pieces, non-verbal

Technical data

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



Item	Item No.	Set consisting of	Drive	Sales unit [pcs]	GTIN (EAN Code)
Power-Fast Box	542318	3.5 x 16 per 50 pieces, 3.5 x 30 per 30 pieces, 4.0 x 30 per 50 pieces, 4.0 x 35 per 40 pieces, 4.0 x 40 per 30 pieces, 4.5 x 50 per 25 pieces, 5.0 x 60 per 20 pieces, TX 10 Bit per 1 piece, TX 20 Bit per 1 piece	TX10 / TX20	1	4048962296464

Profi - Box FSP II

Technical data

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



Item	Item No.	Set consisting of	Drive	Sales unit [pcs]	GTIN (EAN Code)
PROFI-BOX FSP II	542596	3.5 x 16 per 50 pieces, 3.5 x 30 per 30 pieces, 4.0 x 30 per 50 pieces, 4.0 x 35 per 40 pieces, 4.0 x 40 per 30 pieces, 4.5 x 50 per 25 pieces, 5.0 x 60 per 20 pieces, TX 10 Bit per 1 piece, TX 20 Bit per 1 piece	TX10 / TX20	—	4048962298932

10

Terrace screw A2, box incl. bit

Technical data

Material: Stainless steel A2
 Screw head: Flat countersunk head 8,2, 90°
 Drive: TX-Star recess
 Thread: Partial thread
 High performance wax



Item	Item No.	Set consisting of	Drive	Sales unit [pcs]	GTIN (EAN Code)
FTS-ST 5,0 x 60 A2P B200BIT	660613	245 Power-Fast screws, Ø 3,5 to Ø 5, 1 bit TX 10, 1 bit TX 20	TX20	1	4048962115529

FPF-SZ YZP

Technical data



Material: Steel
Coating: yellow zinc plated
Drive: Cross drive PZ
Thread: Partial thread
Screw head: Countersunk head
Approval: ETA-11/0027 - Screws for use in timber constructions

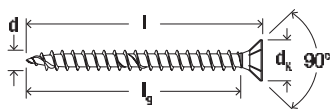


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Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.0	35	FPF-SZ 3,0 x 35 YZP 50 B	653926	24	6.0	PZ1	1	4048962127157
	40	FPF-SZ 3,0 x 40 YZP 25 B	653927	24	6.0	PZ1	1	4048962127164
3.5	35	FPF-SZ 3,5 x 35 YZP 50 B	653935	24	7.0	PZ2	1	4048962127249
	40	FPF-SZ 3,5 x 40 YZP 50 B	653936	24	7.0	PZ2	1	4048962127256
	45	FPF-SZ 3,5 x 45 YZP 25 B	653937	30	7.0	PZ2	25	4048962127263
	50	FPF-SZ 3,5 x 50 YZP 25 B	653938	30	7.0	PZ2	1	4048962127270
4.0	40	FPF-SZ 4,0x40 YZP 25 B	653946	24	8.0	PZ2	1	4048962127355
	40	FPF-SZ 4,0x40 YZP 50 B	653947	24	8.0	PZ2	50	4048962127362
	45	FPF-SZ 4,0 x 45 YZP 30 B	653948	30	8.0	PZ2	1	4048962127379
	50	FPF-SZ 4,0 x 50 YZP 30 B	653949	30	8.0	PZ2	1	4048962127386
	60	FPF-SZ 4,0 x 60 YZP 10 B	653950	36	8.0	PZ2	1	4048962127393
	70	FPF-SZ 4,0 x 70 YZP 10 B	653951	42	8.0	PZ2	1	4048962127409
4.5	35	FPF-SZ 4,5 x 35 YZP 30 B	653956	24	9.0	PZ2	1	4048962127454
	40	FPF-SZ 4,5 x 40 YZP 30 B	653957	24	9.0	PZ2	1	4048962127461
	45	FPF-SZ 4,5 x 45 YZP 30 B	653958	30	9.0	PZ2	1	4048962127478
	50	FPF-SZ 4,5 x 50 YZP 30 B	653959	30	9.0	PZ2	1	4048962127485
	60	FPF-SZ 4,5 x 60 YZP 30 B	653960	36	9.0	PZ2	1	4048962127492
	70	FPF-SZ 4,5 x 70 YZP 20 B	653961	42	9.0	PZ2	1	4048962127508
	80	FPF-SZ 4,5 x 80 YZP 20 B	653962	50	9.0	PZ2	1	4048962127515
5.0	40	FPF-SZ 5,0 x 40 YZP 20 B	653967	24	10.0	PZ2	1	4048962127560
	45	FPF-SZ 5,0 x 45 YZP 20 B	653968	30	10.0	PZ2	1	4048962127577
	50	FPF-SZ 5,0 x 50 YZP 20 B	653969	30	10.0	PZ2	1	4048962127584
	60	FPF-SZ 5,0 x 60 YZP 10 B	653970	36	10.0	PZ2	1	4048962127591
	70	FPF-SZ 5,0 x 70 YZP 10 B	653971	42	10.0	PZ2	1	4048962127607
	80	FPF-SZ 5,0 x 80 YZP 10 B	653972	50	10.0	PZ2	1	4048962127614
	90	FPF-SZ 5,0 x 90 YZP 10 B	653973	60	10.0	PZ2	1	4048962127621
	100	FPF-SZ 5,0 x 100 YZP 10 B	653974	60	10.0	PZ2	1	4048962127638
6.0	120	FPF-SZ 5,0 x 120 YZP 10 B	653975	70	10.0	PZ2	1	4048962127645
	40	FPF-SZ 6,0 x 40 YZP 10 B	653976	24	12.0	PZ3	1	4048962127652
	50	FPF-SZ 6,0 x 50 YZP 10 B	653977	30	12.0	PZ3	1	4048962127669
	60	FPF-SZ 6,0 x 60 YZP 10 B	653978	36	12.0	PZ3	1	4048962127676
	70	FPF-SZ 6,0 x 70 YZP 10 B	653979	42	12.0	PZ3	1	4048962127683
	80	FPF-SZ 6,0 x 80 YZP 10 B	653980	50	12.0	PZ3	1	4048962127690
	100	FPF-SZ 6,0 x 100 YZP 10 B	653981	60	12.0	PZ3	1	4048962127706
	120	FPF-SZ 6,0 x 120 YZP 10 B	653982	70	12.0	PZ3	1	4048962127713
	140	FPF-SZ 6,0 x 140 YZP 5 K	653983	70	12.0	PZ3	1	4048962127720
	160	FPF-SZ 6,0 x 160 YZP 5 K	653984	70	12.0	PZ3	1	4048962127737
	180	FPF-SZ 6,0 x 180 YZP 5 K	653985	70	12.0	PZ3	1	4048962127744

FPF-SZ YZF

Technical data



Material: Steel

Coating: yellow zinc plated

Drive: Cross drive PZ

Thread: Full thread

Screw head: Countersunk head

Approval: ETA-11/0027 - Screws for use in timber constructions

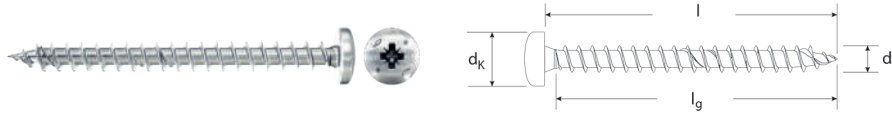


Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
2.0	12	FPF-SZ 2,0 x 12 YZF 50 B	653915	6	4.0	PZ1	50	4048962127041
	16	FPF-SZ 2,0 x 16 YZF 50 B	653916	12	4.0	PZ1	1	4048962127058
2.5	12	FPF-SZ 2,5 x 12 YZF 50 B	653917	6	5.0	PZ1	1	4048962127065
	16	FPF-SZ 2,5 x 16 YZF 50 B	653918	12	5.0	PZ1	1	4048962127072
	20	FPF-SZ 2,5 x 20 YZF 50 B	653919	15	5.0	PZ1	1	4048962127089
3.0	12	FPF-SZ 3,0 x 12 YZF 50 B	653920	6	6.0	PZ1	1	4048962127096
	16	FPF-SZ 3,0 x 16 YZF 50 B	653921	12	6.0	PZ1	1	4048962127102
	16	FPF-SZ 3,0 x 16 YZF 100 B	653922	12	6.0	PZ1	100	4048962127119
	20	FPF-SZ 3,0 x 20 YZF 50 B	653923	15	6.0	PZ1	1	4048962127126
	25	FPF-SZ 3,0 x 25 YZF 50 B	653924	20	6.0	PZ1	1	4048962127133
	30	FPF-SZ 3,0 x 30 YZF 50 B	653925	25	6.0	PZ1	1	4048962127140
3.5	12	FPF-SZ 3,5 x 12 YZF 50 B	653928	6	7.0	PZ2	1	4048962127171
	16	FPF-SZ 3,5 x 16 YZF 50 B	653929	12	7.0	PZ2	1	4048962127188
	16	FPF-SZ 3,5 x 16 YZF 100 B	653930	12	7.0	PZ2	100	4048962127195
	20	FPF-SZ 3,5 x 20 YZF 50 B	653931	15	7.0	PZ2	1	4048962127201
	20	FPF-SZ 3,5 x 20 YZF 100 B	653932	15	7.0	PZ2	1	4048962127218
	25	FPF-SZ 3,5 x 25 YZF 50 B	653933	20	7.0	PZ2	1	4048962127225
	30	FPF-SZ 3,5 x 30 YZF 50 B	653934	25	7.0	PZ2	1	4048962127232
	30	FPF-SZ 3,5 x 30 YZF 100 B	653935	25	7.0	PZ2	100	4048962127249
4.0	12	FPF-SZ 4,0 x 12 YZF 50 B	653939	6	8.0	PZ2	50	4048962127287
	16	FPF-SZ 4,0 x 16 YZF 50 B	653940	12	8.0	PZ2	1	4048962127294
	16	FPF-SZ 4,0 x 16 YZF 100 B	653941	12	8.0	PZ2	100	4048962127300
	20	FPF-SZ 4,0 x 20 YZF 50 B	653942	15	8.0	PZ2	1	4048962127317
	25	FPF-SZ 4,0 x 25 YZF 50 B	653943	20	8.0	PZ2	1	4048962127324
	30	FPF-SZ 4,0 x 30 YZF 50 B	653944	25	8.0	PZ2	1	4048962127331
	35	FPF-SZ 4,0 x 35 YZF 50 B	653945	30	8.0	PZ2	1	4048962127348
4.5	16	FPF-SZ 4,5 x 16 YZF 30 B	653952	12	9.0	PZ2	1	4048962127416
	20	FPF-SZ 4,5 x 20 YZF 30 B	653953	15	9.0	PZ2	1	4048962127423
	25	FPF-SZ 4,5 x 25 YZF 30 B	653954	20	9.0	PZ2	1	4048962127430
	30	FPF-SZ 4,5 x 30 YZF 30 B	653955	25	9.0	PZ2	1	4048962127447
5.0	20	FPF-SZ 5,0 x 20 YZF 20 B	653963	15	10.0	PZ2	1	4048962127522
	25	FPF-SZ 5,0 x 25 YZF 20 B	653964	20	10.0	PZ2	1	4048962127539
	30	FPF-SZ 5,0 x 30 YZF 20 B	653965	25	10.0	PZ2	1	4048962127546

10

FPF-PZ ZPF

Technical data



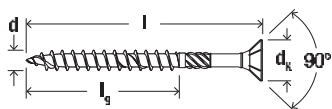
Material: Steel
 Coating: blue zinc plated
 Drive: Cross drive PZ
 Thread: Full thread
 Screw head: Pan Head
 Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	16	FPF-PZ 3,5 x 16 ZPF 100 B	652850	12	7.0	PZ2	100	4048962126815
4.5	16	FPF-PZ 4,5 x 16 ZPF 25 B	652855	12	9.0	PZ2	25	4048962126860
5.0	25	FPF-PZ 5,0 x 25 ZPF 25 B	652858	20	10.0	PZ2	25	4048962126891
	40	FPF-PZ 5,0 x 40 ZPF 15 B	652860	35	10.0	PZ2	15	4048962126914

FPF-SZ A2P

Technical data



Material: Stainless steel A2

Drive: Cross drive PZ

Thread: Partial thread

Screw head: Countersunk head

Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _k [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
4.0	35	FPF-SZ 4,0 x 35 A2P 25 B	657463	24	8.0	PZ2	1	4048962126969
	40	FPF-SZ 4,0 x 40 A2P 25 B	657464	24	8.0	PZ2	1	4048962126976
4.5	45	FPF-SZ 4,5 x 40 A2P 25 B	657465	24	9.0	PZ2	1	4048962126983
	45	FPF-SZ 4,5 x 45 A2P 25 B	657466	30	9.0	PZ2	1	4048962126990
	50	FPF-SZ 4,5 x 50 A2P 25 B	657467	30	9.0	PZ2	1	4048962127003
5.0	50	FPF-SZ 5,0 x 50 A2P 25 B	657469	30	10.0	PZ2	1	4048962127027
	60	FPF-SZ 5,0 x 60 A2P 25 B	657470	36	10.0	PZ2	1	4048962127034

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FPF-SZ A2F

Technical data



Material: Stainless steel A2
Drive: Cross drive PZ
Thread: Full thread
Screw head: Countersunk head
Approval: ETA-11/0027 - Screws for use in timber constructions



Diameter d [mm]	Length l [mm]	Item	Item No.	Thread length l _g [mm]	Head-Ø d _K [mm]	Drive	Sales unit [pcs]	GTIN (EAN Code)
3.5	16	FPF-SZ 3,5 x 16 A2F 25 B	657459	12	7.0	PZ2	1	4048962126921
	20	FPF-SZ 3,5 x 20 A2F 25 B	657460	15	7.0	PZ2	1	4048962126938
	25	FPF-SZ 3,5 x 25 A2F 25 B	657461	20	7.0	PZ2	1	4048962126945
4.0	30	FPF-SZ 4,0 x 30 A2F 25 B	657462	25	8.0	PZ2	1	4048962126952



11

Bits

BITS

Maxx-bit FMB	135	
Profi-bit FPB	136	
Diamond-bit FDB	137	
Bit holder FBH	138	
Bit-Set	139	

11

Your benefits:

- Significantly reduced extraction force due to diamond coating
- Very long life span
- Safe transmission of high torques
- Optimal drive
- Ideal power transmission
- Clean work results

Reduces your costs, saves time & increases your efficiency.

11

Bit-variants



Maxx-bit FMB

- High performance
- Long life span



Diamant-bit FDB

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



Profi-bit FPB

- For extremely high torque values

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

Effects due to wrong tool

- Messy screw connections
- Damaged surfaces
- Risk of injury

Maxx-bit FMB

The ultimate torsion-bit



Advantages

- The ultimate solution for extreme installation torques. Ideal for usage in high-performance power-and impact-tools.
- Optimal geometry of the profile guarantees unique performance and durability for sophisticated applications and users.
- The elastic torsion zone releases at extreme loads to ensure a gentle working and maximum operating efficiency.
- The high dimensional accuracy allows for an ideal fit. For clean results and a long life span.
- Also available as clearly arranged bit-set with 8pcs including bit-holder.

Applications

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

- TX star recess
- Suitable for ¼" drives

Technical data



Maxx-bit FMB T

Item	Item No.	Drive	Length l [mm]	Contents	Sales unit [pcs]
FMB T10 Maxx Bit W 5	533154	TX10	29	5 Bit	1
FMB T15 Maxx Bit W 5	533155	TX15	29	5 Bit	1
FMB T20 Maxx Bit W 5	533156	TX20	29	5 Bit	1
FMB T25 Maxx Bit W 5	533157	TX25	29	5 Bit	1
FMB T30 Maxx Bit W 5	533158	TX30	29	5 Bit	1
FMB T40 Maxx Bit W 5	533159	TX40	29	5 Bit	1

Profi-bit FPB

The all-rounding bit within convincing quality



Advantages

- The bits 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 31pcs including bit-holder.

Applications

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

- PH, PZ cross-slot
- TX star recess
- Suitable for ¼" drives

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Technical data



Profi-bit FPB T W



Profi-bit FPB PZ W



FPB PH 2 DRYWALL W 1

Item	Item No.	Drive	Length l [mm]	Contents	Sales unit [pcs]
FPB T 30 90 mm PROFi Bit W 1	542369	TX30	90	1 Bit	1
FPB T 30 150 mm PROFi Bit W 1	542372	TX30	150	1 Bit	1
FPB T 40 90 mm PROFi Bit W 1	542370	TX40	90	1 Bit	1
FPB T 40 150 mm PROFi Bit W 1	542373	TX40	150	1 Bit	1
FPB T 50 PROFi Bit W 1	533085	TX50	25	1 Bit	1
FPB T 50 90 mm PROFi Bit W 1	542371	TX50	90	1 Bit	1
FPB PH 2 50MM PROFi Bit W 1	533105	PH 2	50	1 Bit	10
FPB PH 2 DRYWALL W 1	533090	PH 2	25	1 Bit	10
FPB PZ 2 50MM PROFi Bit W 1	533109	PZ2	50	1 Bit	10
FPB PZ 4 PROFi Bit W 1	533099	PZ 4	32	1 Bit	10
FPB T 10 PROFi Bit W 10	533112	TX10	25	10 Bit	1
FPB T 15 PROFi Bit W 10	533113	TX15	25	10 Bit	1
FPB T 20 PROFi Bit W 10	533114	TX20	25	10 Bit	1
FPB T 25 PROFi Bit W 10	533115	TX25	25	10 Bit	1
FPB T 30 PROFi Bit W 10	533116	TX30	25	10 Bit	1
FPB T 40 PROFi Bit W 10	533117	TX40	25	10 Bit	1
FPB PH 1 PROFi Bit W 10	533118	PH1	25	10 Bit	1
FPB PH 2 PROFi Bit W 10	533119	PH 2	25	10 Bit	1
FPB PH 3 PROFi Bit W 10	533120	PH3	25	10 Bit	1
FPB PZ 1 PROFi Bit W 10	533121	PZ1	25	10 Bit	1
FPB PZ 2 PROFi Bit W 10	533122	PZ2	25	10 Bit	1
FPB PZ 3 PROFi Bit W 10	533123	PZ3	25	10 Bit	1

Diamond-bit FDB

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 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 ¼" drives

11

Technical data



Diamond-bit FDB T W

Item	Item No.	Drive	Length l [mm]	Contents	Sales unit [pcs]
FDB T 10 DIAMANT Bit W 10	533136	TX10	25	10 Bit	1
FDB T 15 DIAMANT Bit W 10	533137	TX15	25	10 Bit	1
FDB T 20 DIAMANT Bit W 10	533138	TX20	25	10 Bit	1
FDB T 25 DIAMANT Bit W 10	533139	TX25	25	10 Bit	1
FDB T 30 DIAMANT Bit W 10	533140	TX30	25	10 Bit	1
FDB T 40 DIAMANT Bit W 10	533141	TX40	25	10 Bit	1
FDB PH 1 DIAMANT Bit W 10	533142	PH1	25	10 Bit	1
FDB PH 2 DIAMANT Bit W 10	533143	PH 2	25	10 Bit	1
FDB PH 3 DIAMANT Bit W 10	533144	PH3	25	10 Bit	1
FDB PZ 1 DIAMANT Bit W 10	533145	PZ1	25	10 Bit	1
FDB PZ 2 DIAMANT Bit W 10	533146	PZ2	25	10 Bit	1
FDB PZ 3 DIAMANT Bit W 10	533147	PZ3	25	10 Bit	1

Bit holder FBH

The bit holder for rapid bit exchange



Advantages

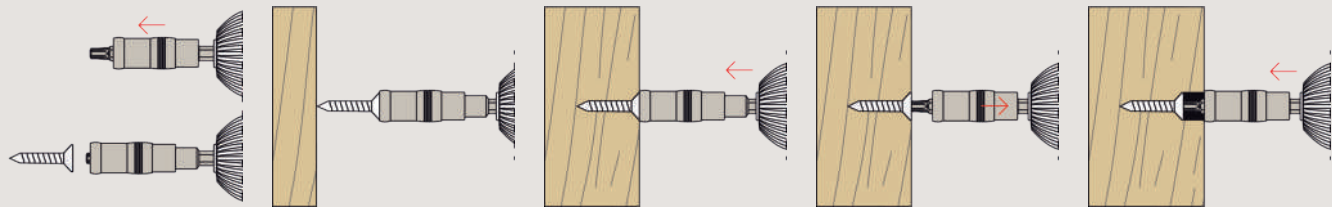
- The bit holder family for 1/4" bits with magnetic insert hold the bit securely in the drill chuck and offers a smooth installation procedure.
- Robust and slim bit holder for an easy bit exchange.
- Ideal for direct machine connection or enlargement of the bits to reach difficult areas.
- With the FBH Quick Bit Slim the Bit automatically locked when plugged in and provides a secure hold. By pulling back the sleeve the bit can be easily taken out.

Applications

- The bit holders for use in cylinder drill chucks

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Using the bit holder



Technical data



Bit holder FBH W 1



Bit holder FBH Quick Bit Slim W 1

Item	Item No.	Drive	Length l [mm]	Contents [pcs]	Sales unit [pcs]
FBH Bit Holder W 1	533148	1/4"	50	1	1
FBH Quick Bit Slim W 1	533150	1/4"	50	1	1

Bit-Set

Useful bit sets for a multitude of applications



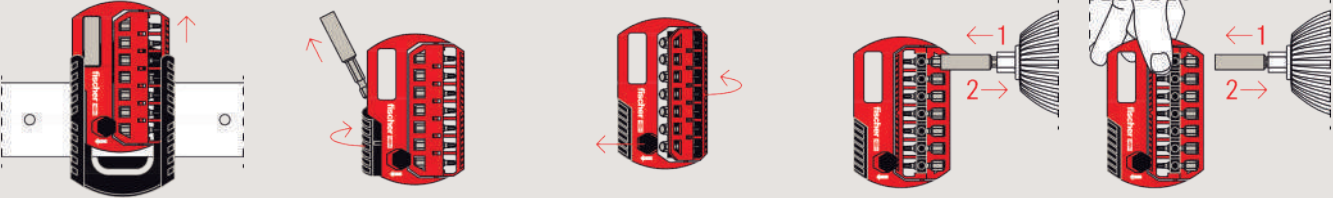
Advantages

- Safe and clearly arranged keeping of the content assuring a reliable usage day by day.
- The robust and durable construction fulfilling even hardest requirements.
- The bit sets combining compact dimensions with easy handling and containing the most common bits as well as the bit holder.

Applications

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

Using the bit set



Technical data



Bit Set FPB Profi W 31 with belt clip



Bit Set FPB Profi W 11

Item	Item No.	Contents	Sales unit [pcs]
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
FPB Bit Set Profi W 11	533153	each 1x PZ1, PZ3, 2x PZ2, each 1x TX10, TX15, TX20, TX25, TX30, TX40, 1x Universal bit holder	1

Load tables

Load table for chipboard screws **Power-Fast II countersunk head**

Dimensions					Characteristic / permissible thread pull-out resistance ETA-19/0175 DIN EN 1995-1-1 + NA		Characteristic / permissible head pull-through resistance ETA-19/0175 DIN EN 1995-1-1 + NA	
					Screw-in angle to the grain α_{AT} and $\alpha_{ET} = 90^\circ$		Screw-in angle to the grain α_{AT} and $\alpha_{ET} = 90^\circ$	
Countersunk head					$F_{ax,90,Rk}$	zul. $F_{ax,90}$	$F_{ax,90,Rk}$	zul. $F_{ax,90}$
d [mm]	l [mm]	d _k [mm]	AT [mm]	ET [mm]	$F_{ax,90,Rk}$ [kN]	zul. $F_{ax,90}$ [kN]	$F_{ax,90,Rk}$ [kN]	zul. $F_{ax,90}$ [kN]
5,0	50	9,8	20 ¹⁾	30	2,07	1,02	1,29	0,64
5,0	60	9,8	24	36	2,48	1,23	1,29	0,64
5,0	70	9,8	28	42	2,90	1,43	1,29	0,64
5,0	80	9,8	35	45	3,11	1,54	1,29	0,64
5,0	90	9,8	36	54	3,73	1,84	1,29	0,64
5,0	100	9,8	40	60	4,14	2,05	1,29	0,64
5,0	110	9,8	40	70	4,83	2,39	1,29	0,64
5,0	120	9,8	50	70	4,83	2,39	1,29	0,64
6,0	50	11,8	20 ¹⁾	30	2,32	1,15	1,81	0,90
6,0	60	11,8	24	36	2,79	1,38	1,81	0,90
6,0	70	11,8	28	42	3,25	1,61	1,81	0,90
6,0	80	11,8	35	45	3,48	1,72	1,81	0,90
6,0	90	11,8	36	54	4,18	2,07	1,81	0,90
6,0	100	11,8	40	60	4,64	2,30	1,81	0,90
6,0	110	11,8	40	70	5,42	2,68	1,81	0,90
6,0	120	11,8	50	70	5,42	2,68	1,81	0,90
...	...	...	...	...	...	...	...	...
6,0	300	11,8	230	70	5,42	2,68	1,81	0,90

For screws 6,0 x 140 to 6,0 x 300 mm the same values apply as for 6,0 x 120 mm, provided that the thickness of the attachment part AD = at least 50 mm.

Minimum screw-in depth ET = at least 70 mm.

- Values and dimensioning outside the approval, as the minimum thickness of the timber components according to the approval for thread outside diameter 5 and 6 mm is at least 24 mm must be.
- Tolerance of the hole diameter in the sheet steel must be in accordance to DIN EN 1995-1-1 $\leq 0,1 \cdot d$.

In general:

Loads only valid for single screws in line with ETA-19/0175 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} according ETA-19/0175). If tensile and transverse loads act simultaneously, the above-mentioned loads shall be reduced in accordance with ETA.

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. $h_{ef} = 4 \cdot d$.

Characteristic resistance of the shear load / permissible shear load in timber-timber connections

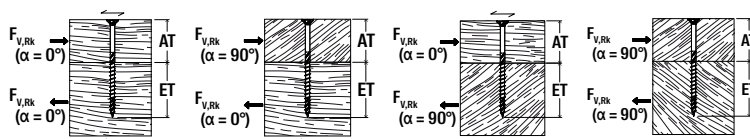
ETA-19/0175

DIN EN 1995-1-1 + NA

Timber-Timber

Screw-in angle to the grain α_{AD} and $\alpha_{ET} = 90^\circ$

Angle between shear load and grain of the wood: 0 - 90°



$F_{v,Rk}$ [kN]	zul. F_v [kN]	t [mm]	ET [mm]	$F_{v,Rk}$ [kN]	zul. F_v [kN]	t [mm]	ET [mm]	$F_{v,Rk}$ [kN]	zul. F_v [kN]
1,07	0,53	2,5	47,5	1,33	0,66	5	45	2,02	1,00
1,16	0,58	2,5	57,5	1,61	0,80	5	55	2,16	1,07
1,23	0,61	2,5	67,5	1,81	0,90	5	65	2,27	1,12
1,36	0,67	2,5	77,5	1,87	0,92	5	75	2,32	1,15
1,38	0,68	2,5	87,5	2,02	1,00	5	85	2,47	1,22
1,41	0,70	2,5	97,5	2,13	1,05	5	95	2,58	1,27
1,41	0,70	2,5	107,5	2,18	1,08	5	105	2,75	1,36
1,41	0,70	2,5	117,5	2,18	1,08	5	115	2,75	1,36
1,31	0,65	3	47	1,50	0,74	6	44	2,36	1,17
1,48	0,73	3	57	1,82	0,90	6	54	2,75	1,36
1,58	0,78	3	67	2,14	1,06	6	64	2,91	1,44
1,72	0,85	3	77	2,35	1,16	6	74	2,96	1,47
1,74	0,86	3	87	2,52	1,25	6	84	3,14	1,55
1,83	0,90	3	97	2,64	1,31	6	94	3,25	1,61
1,83	0,90	3	107	2,83	1,40	6	104	3,45	1,70
1,93	0,96	3	117	2,83	1,40	6	114	3,45	1,70
...	...	...	...	...	...	...	...	...	...
1,93	0,96	3	297	2,83	1,40	6	294	3,45	1,70

Edge and centre distances according to DIN EN 1995-1-1 Table 8.2.

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 tables

Load table for wood construction screw **Power-Fast countersunk head**

Dimensions					Characteristic / permissible thread pull-out resistance ETA-11/0027 DIN EN 1995-1-1 + NA		Characteristic / permissible head pull-through resistance ETA-11/0027 DIN EN 1995-1-1 + NA	
					Screw-in angle to the grain α_{AT} and $\alpha_{ET} = 90^\circ$		Screw-in angle to the grain α_{AT} and $\alpha_{ET} = 90^\circ$	
Countersunk head								
d [mm]	l [mm]	d _k [mm]	AT [mm]	ET [mm]	F _{ax,90,Rk} [kN]	zul. F _{ax,90} [kN]	F _{ax,90,Rk} [kN]	zul. F _{ax,90} [kN]
8,0	80	14,4	30	50	4,00	1,98	2,49	1,23
8,0	100	14,4	50	50	4,00	1,98	2,49	1,23
8,0	120	14,4	45	75	6,00	2,97	2,49	1,23
8,0	140	14,4	65	75	6,00	2,97	2,49	1,23
8,0	160	14,4	85	75	6,00	2,97	2,49	1,23
8,0	180	14,4	105	75	6,00	2,97	2,49	1,23
8,0	200	14,4	100	100	8,00	3,96	2,49	1,23
...	...	...	...	...	...	...	...	...
8,0	400	14,4	300	100	8,00	3,96	2,49	1,23
10,0	80	18,4	28 ¹⁾	52	5,20	2,57	4,06	2,01
10,0	100	18,4	48	52	5,20	2,57	4,06	2,01
10,0	120	18,4	40	80	8,00	3,96	4,06	2,01
10,0	140	18,4	60	80	8,00	3,96	4,06	2,01
10,0	160	18,4	80	80	8,00	3,96	4,06	2,01
10,0	180	18,4	80	100	10,00	4,95	4,06	2,01
10,0	200	18,4	100	100	10,00	4,95	4,06	2,01
10,0	220	18,4	120	100	10,00	4,95	4,06	2,01
10,0	240	18,4	140	100	10,00	4,95	4,06	2,01
10,0	260	18,4	160	100	10,00	4,95	4,06	2,01
10,0	280	18,4	165	115	11,50	5,69	4,06	2,01
...	...	...	...	...	...	...	...	...
10,0	400	18,4	285	115	11,50	5,69	4,06	2,01

For screws 8,0 x 220 to 8,0 x 400 mm the same values apply as for 8,0 x 200 mm, provided that the thickness of the attachment part AD = at least 100 mm.

Minimum screw-in depth ET = at least 100 mm.

For screws 10,0 x 300 to 10,0 x 400 mm the same values apply as for 10,0 x 280 mm, provided that the thickness of the attachment part AD = at least 165 mm.

Minimum screw-in depth ET = at least 115 mm.

- Values and dimensioning outside the approval, as the minimum thickness of the timber components according to the approval must be at least 24 mm for thread outside diameters 5 and 6 mm, at least 30 mm for ϕ 8 mm and at least 40 mm for ϕ 10 mm.
- Tolerance of the hole diameter in the sheet steel must be in accordance to DIN EN 1995-1-1 $\leq 0,1 \cdot d$.

In general:

Loads only valid for single screws in line with ETA-19/0175 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} according ETA-11/0027).

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.

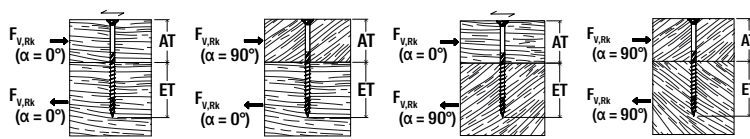
The values relating to the shear load resistance refer to zinc-plated screws. Minimum screw-in depth (ET) for load-bearing connections Min. $h_{ef} = 4 \cdot d$.

Characteristic resistance of the shear load / permissible shear load in timber-timber connections

ETA-11/0027

DIN EN 1995-1-1 + NA

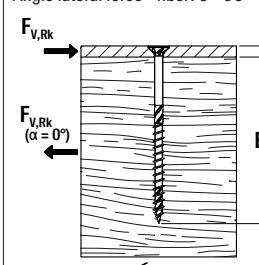
Timber-Timber

Screw-in angle to the grain α_{AD} and $\alpha_{ET} = 90^\circ$ Angle between shear load and grain of the wood: $0 - 90^\circ$ 
Characteristic resistance of the shear load / permissible shear load in steel-timber connections

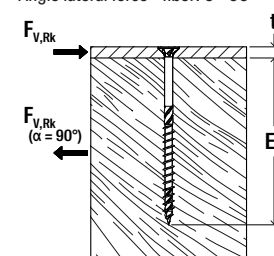
ETA-11/0027

DIN EN 1995-1-1 + NA

Steel-Timber

thin steel sheet $t \leq 0,5 \cdot d$ $\alpha_{ET} = 90^\circ$ Angle lateral force - fiber: $0 - 90^\circ$ 

Steel-Timber

thick steel sheet $t \geq d^2$ $\alpha_{ET} = 90^\circ$ Angle lateral force - fiber: $0 - 90^\circ$ 

$F_{v,Rk}$ [kN]	zul. F_v [kN]	t [mm]	ET [mm]	$F_{v,Rk}$ [kN]	zul. F_v [kN]	t [mm]	ET [mm]	$F_{v,Rk}$ [kN]	zul. F_v [kN]
2,54	1,26	4	76	3,55	1,76	8	72	4,61	2,28
3,17	1,57	4	96	3,55	1,76	8	92	4,61	2,28
3,00	1,48	4	116	4,05	2,01	8	112	5,11	2,53
3,18	1,57	4	136	4,05	2,01	8	132	5,11	2,53
3,18	1,57	4	156	4,05	2,01	8	152	5,11	2,53
3,18	1,57	4	176	4,05	2,01	8	172	5,11	2,53
3,18	1,57	4	196	4,55	2,25	8	192	5,61	2,78
...	...	...	...	...	...	...	...	...	...
3,18	1,57	4	396	4,55	2,25	8	392	5,61	2,78
3,55	1,75	5	75	4,32	2,13	10	70	6,18	3,05
4,00	1,98	5	95	4,99	2,47	10	90	6,52	3,22
3,88	1,92	5	115	5,69	2,81	10	110	7,22	3,57
4,63	2,29	5	135	5,69	2,81	10	130	7,22	3,57
4,71	2,33	5	155	5,69	2,81	10	150	7,22	3,57
4,71	2,33	5	175	6,19	3,06	10	170	7,72	3,82
4,71	2,33	5	195	6,19	3,06	10	190	7,72	3,82
4,71	2,33	5	215	6,19	3,06	10	210	7,72	3,82
4,71	2,33	5	235	6,19	3,06	10	230	7,72	3,82
4,71	2,33	5	255	6,19	3,06	10	250	7,72	3,82
4,71	2,33	5	275	6,57	3,25	10	270	8,10	4,00
...	...	...	...	...	...	...	...	...	...
4,71	2,33	5	395	6,57	3,25	10	390	8,10	4,00

Edge and centre distances according to DIN EN 1995-1-1 Table 8.2.

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 tables

Load table for wood construction screw **Power-Fast flange head**

Dimensions					Characteristic / permissible thread pull-out resistance ETA-11/0027 DIN EN 1995-1-1 + NA		Characteristic / permissible head pull-through resistance ETA-11/0027 DIN EN 1995-1-1 + NA	
					Screw-in angle to the grain α_{AT} and $\alpha_{ET} = 90^\circ$		Screw-in angle to the grain α_{AT} and $\alpha_{ET} = 90^\circ$	
Flange head					$F_{ax,90,Rk}$	zul. $F_{ax,90}$	$F_{ax,90,Rk}$	zul. $F_{ax,90}$
d [mm]	l [mm]	d _k [mm]	AT [mm]	ET [mm]	$F_{ax,90,Rk}$ [kN]	zul. $F_{ax,90}$ [kN]	$F_{ax,90,Rk}$ [kN]	zul. $F_{ax,90}$ [kN]
6,0	60	13,7	24	36	2,51	1,24	2,25	1,11
6,0	80	13,7	30	50	3,48	1,72	2,25	1,11
6,0	100	13,7	40	60	4,18	2,07	2,25	1,11
6,0	120	13,7	50	70	4,87	2,41	2,25	1,11
...	...	...	...	...	...	...	...	...
6,0	300	13,7	230	70	4,87	2,41	2,25	1,11
8,0	80	21,0	30	50	4,00	1,98	5,29	2,62
8,0	100	21,0	50	50	4,00	1,98	5,29	2,62
8,0	120	21,0	45	75	6,00	2,97	5,29	2,62
8,0	140	21,0	65	75	6,00	2,97	5,29	2,62
8,0	160	21,0	85	75	6,00	2,97	5,29	2,62
8,0	180	21,0	105	75	6,00	2,97	5,29	2,62
8,0	200	21,0	100	100	8,00	3,96	5,29	2,62
...	...	...	...	...	...	...	...	...
8,0	400	21,0	300	100	8,00	3,96	5,29	2,62
10,0	80	24,7	28 ¹⁾	52	5,20	2,57	6,10	3,02
10,0	100	24,7	48	52	5,20	2,57	6,10	3,02
10,0	120	24,7	40	80	8,00	3,96	6,10	3,02
10,0	140	24,7	60	80	8,00	3,96	6,10	3,02
10,0	160	24,7	80	80	8,00	3,96	6,10	3,02
10,0	180	24,7	80	100	10,00	4,95	6,10	3,02
10,0	200	24,7	100	100	10,00	4,95	6,10	3,02
10,0	220	24,7	120	100	10,00	4,95	6,10	3,02
10,0	240	24,7	140	100	10,00	4,95	6,10	3,02
10,0	260	24,7	160	100	10,00	4,95	6,10	3,02
10,0	280	24,7	165	115	11,50	5,69	6,10	3,02
...	...	...	...	...	...	...	...	...
10,0	400	24,7	285	115	11,50	5,69	6,10	3,02

For screws 6,0 x 140 to 6,0 x 300 mm the same values apply as for 6,0 x 120 mm, provided that the thickness of the attachment part AD = at least 50 mm.

Minimum screw-in depth ET = at least 70 mm.

For screws 8,0 x 220 to 8,0 x 400 mm the same values apply as for 8,0 x 200 mm, provided that the thickness of the attachment part AD = at least 100 mm.

Minimum screw-in depth ET = at least 100 mm.

For screws 10,0 x 300 to 10,0 x 400 mm the same values apply as for 10,0 x 280 mm, provided that the thickness of the attachment part AD = at least 165 mm.

Minimum screw-in depth ET = at least 115 mm.

- Values and dimensioning outside the approval, as the minimum thickness of the timber components according to the approval must be at least 24 mm for thread outside diameters 5 and 6 mm, at least 30 mm for ϕ 8 mm and at least 40 mm for ϕ 10 mm.

- Tolerance of the hole diameter in the sheet steel must be in accordance to DIN EN 1995-1-1 $\leq 0,1 \cdot d$.

In general:

Loads only valid for single screws in line with ETA-19/0175 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} according to ETA-11/0027).

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.

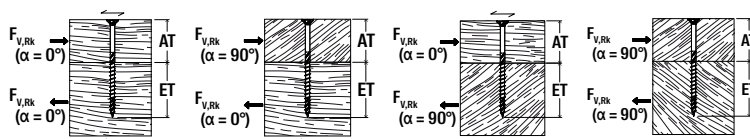
The values relating to the shear load resistance refer to zinc-plated screws. Minimum screw-in depth (ET) for load-bearing connections Min. $h_{ef} = 4 \cdot d$.

Characteristic resistance of the shear load / permissible shear load in timber-timber connections

ETA-11/0027

DIN EN 1995-1-1 + NA

Timber-Timber

Screw-in angle to the grain α_{AD} and $\alpha_{ET} = 90^\circ$ Angle between shear load and grain of the wood: $0 - 90^\circ$ 

$F_{v,Rk}$ [kN]	$zul. F_v$ [kN]	t [mm]	ET [mm]	$F_{v,Rk}$ [kN]	$zul. F_v$ [kN]	t [mm]	ET [mm]	$F_{v,Rk}$ [kN]	$zul. F_v$ [kN]
1,78	0,88	3	57	2,22	1,10	6	54	2,87	1,42
1,93	0,95	3	77	2,46	1,22	6	74	3,12	1,54
2,15	1,06	3	97	2,63	1,30	6	94	3,29	1,63
2,15	1,06	3	117	2,81	1,39	6	114	3,47	1,71
...	...	...	...	...	...	...	...	...	...
2,15	1,06	3	297	2,81	1,39	6	294	3,47	1,71
2,92	1,44	4	76	3,55	1,76	8	72	4,61	2,28
3,55	1,75	4	96	3,55	1,76	8	92	4,61	2,28
3,70	1,83	4	116	4,05	2,01	8	112	5,11	2,53
3,88	1,92	4	136	4,05	2,01	8	132	5,11	2,53
3,88	1,92	4	156	4,05	2,01	8	152	5,11	2,53
3,88	1,92	4	176	4,05	2,01	8	172	5,11	2,53
3,88	1,92	4	196	4,55	2,25	8	192	5,61	2,78
...	...	...	...	...	...	...	...	...	...
3,88	1,92	4	396	4,55	2,25	8	392	5,61	2,78
3,83	1,89	5	75	4,32	2,13	10	70	6,18	3,05
4,28	2,12	5	95	4,99	2,47	10	90	6,52	3,22
4,39	2,17	5	115	5,69	2,81	10	110	7,22	3,57
5,14	2,54	5	135	5,69	2,81	10	130	7,22	3,57
5,22	2,58	5	155	5,69	2,81	10	150	7,22	3,57
5,22	2,58	5	175	6,19	3,06	10	170	7,72	3,82
5,22	2,58	5	195	6,19	3,06	10	190	7,72	3,82
5,22	2,58	5	215	6,19	3,06	10	210	7,72	3,82
5,22	2,58	5	235	6,19	3,06	10	230	7,72	3,82
5,22	2,58	5	255	6,19	3,06	10	250	7,72	3,82
5,22	2,58	5	275	6,57	3,25	10	270	8,10	4,00
...	...	...	...	...	...	...	...	...	...
5,22	2,58	5	395	6,57	3,25	10	390	8,10	4,00

Edge and centre distances according to DIN EN 1995-1-1 Table 8.2.

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 tables

Full thread screw **Power-Full cylinder head**. Screw diameter 6,5 mm.

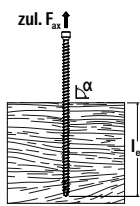
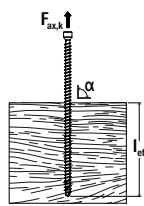
Dimensions

Characteristic tension load $F_{ax, \alpha, Rk}$ [kN] for:
Nominal screw diameter: $d = 6.5$ mm

Characteristic screw tensile load capacity:	$f_{tens, k} =$	17.0	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:	$f_{ax, k} =$	11.4	N/mm ²

Permissible tension load F_{ax} [kN] for:
Nominal screw diameter: $d = 6.5$ mm

Characteristic screw tensile load capacity:	$f_{tens, k} =$	17.0	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:	$f_{ax, k} =$	11.4	N/mm ²



Screw-in angle α [°] to the grain of the wood

Screw-in angle α [°] to the grain of the wood

l_{ef} [mm]	90 to 45	40	35	30	25	20	16	l_{ef} [mm]	90 to 45	40	35	30	25	20	16
26	1,93	1,78	1,63	1,48	1,33	1,18	1,06	26	0,95	0,88	0,80	0,73	0,66	0,58	0,52
30	2,22	2,05	1,88	1,70	1,53	1,36	1,22	30	1,10	1,01	0,93	0,84	0,76	0,67	0,60
35	2,59	2,39	2,19	1,99	1,79	1,58	1,42	35	1,28	1,18	1,08	0,98	0,88	0,78	0,70
40	2,96	2,73	2,50	2,27	2,04	1,81	1,63	40	1,47	1,35	1,24	1,12	1,01	0,90	0,80
45	3,33	3,08	2,82	2,56	2,30	2,04	1,83	45	1,65	1,52	1,39	1,26	1,14	1,01	0,91
50	3,71	3,42	3,13	2,84	2,55	2,26	2,03	50	1,83	1,69	1,55	1,40	1,26	1,12	1,01
55	4,08	3,76	3,44	3,12	2,81	2,49	2,24	55	2,02	1,86	1,70	1,55	1,39	1,23	1,11
60	4,45	4,10	3,75	3,41	3,06	2,72	2,44	60	2,20	2,03	1,86	1,69	1,51	1,34	1,21
65	4,82	4,44	4,07	3,69	3,32	2,94	2,64	65	2,38	2,20	2,01	1,83	1,64	1,46	1,31
70	5,19	4,78	4,38	3,98	3,57	3,17	2,85	70	2,57	2,37	2,17	1,97	1,77	1,57	1,41
75	5,56	5,13	4,69	4,26	3,83	3,40	3,05	75	2,75	2,53	2,32	2,11	1,89	1,68	1,51
80	5,93	5,47	5,01	4,54	4,08	3,62	3,25	80	2,93	2,70	2,48	2,25	2,02	1,79	1,61
85	6,30	5,81	5,32	4,83	4,34	3,85	3,46	85	3,11	2,87	2,63	2,39	2,15	1,90	1,71
90	6,67	6,15	5,63	5,11	4,59	4,08	3,66	90	3,30	3,04	2,78	2,53	2,27	2,02	1,81
95	7,04	6,49	5,94	5,40	4,85	4,30	3,86	95	3,48	3,21	2,94	2,67	2,40	2,13	1,91
100	7,41	6,83	6,26	5,68	5,10	4,53	4,07	100	3,66	3,38	3,09	2,81	2,52	2,24	2,01

Max. screw length: $l = 195$ mm; Head height $h_k = 5,5$ mm; Peak length $l_k = 4,0$ mm; max. eff. thread length $l_{ef} = 185,5$ mm.

Available screw lengths: 120, 140, 160, 195 mm.

$$F_{ax, \alpha, Rk} = n_{ef} \cdot k_{ax} \cdot f_{ax, k} \cdot d \cdot l_{ef} \cdot \left(\frac{\rho_k}{350} \right)^{0,8}; k_{ax} = 1,0 \text{ für } 45^\circ \leq \alpha \leq 90^\circ; k_{ax} = 0,3 + \frac{0,7 \cdot \alpha}{45^\circ} \text{ für } 0^\circ \leq \alpha < 45^\circ \quad \text{zul. } F_{ax, \alpha} = \frac{k_{mod} \cdot F_{ax, \alpha, Rk}}{\gamma_M \cdot \gamma_F}$$

Edge and axle distances according to ETA-12/0073 or DIN EN 1995-1-1 + NA. ETA-12/0073 and DIN EN 1995-1-1 shall be observed in their entirety.

The loads in timbers with other strengths are obtained by the conversion factor: $\left(\frac{\rho_k}{350} \right)^{0,8}$

The indicated loads are only valid for single screws.

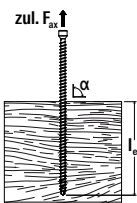
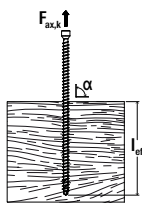
The effective number of bolts with more than one bolt per connection is determined by the formula: $n_{ef} = n^{0,9}$ according to DIN EN 1995-1-1, Section 8.7.2 formula (8.41).

All mechanical values given are to be considered in relation to the assumptions made and are design examples. Attention: This is only a planning aid. Projects are to be dimensioned exclusively by structural engineers or structural engineers! All values are subject to typesetting and printing errors.

Load tables

Full thread screw **Power-Full cylinder head and countersunk head**. Screw diameter 8,0 mm.

Dimensions							
Characteristic tension load $F_{ax,\alpha,Rk}$ [kN] for: Nominal screw diameter: $d = 8.0$ mm				Permissible tension load F_{ax} [kN] for: Nominal screw diameter: $d = 8.0$ mm			
Characteristic screw tensile load capacity:	$f_{tens,k} =$	25.0	kN	Characteristic screw tensile load capacity:	$f_{tens,k} =$	25.0	kN
Wood quality:		C24	[-]	Wood quality:		C24	[-]
Characteristic timber gross density:	$\rho_k =$	350	kg/m ³	Characteristic timber gross density:	$\rho_k =$	350	kg/m ³
Number of screws per connection:	$n =$	1	unit	Number of screws per connection:	$n =$	1	unit
Thread extraction parameter:	$f_{ax,k} =$	11.1	N/mm ²	Usage class:	NKL:	2	[-]
Head pull-through parameters countersunk head				Class of load duration:	KLED:	short	[-]
Timber thickness $t \geq 20$ mm:	$f_{head,k} =$	12.0	N/mm ²	Modification factor:	$k_{mod} =$	0.9	[-]
Head diameter countersunk head:	$d_h =$	14.5	mm	Partial safety factor for resistance:	$\gamma_M =$	1.3	[-]
Permissible head pull-out resistance				Partial safety factor for action:	$\gamma_F =$	1.4	[-]
countersunk head for $\alpha \geq 30^\circ$:	$F_{ax,\alpha,Rk} =$	2.52	kN	Thread extraction parameter:	$f_{ax,k} =$	11.1	N/mm ²
				Head pull-through parameters countersunk head			
				Timber thickness $t \geq 20$ mm:	$f_{head,k} =$	12.0	N/mm ²
				Head diameter countersunk head:	$d_h =$	14.5	mm
				Permissible head pull-out resistance			
				countersunk head for $\alpha \geq 30^\circ$:	$zul. F_{ax,\alpha} =$	1.25	kN



Screw-in angle α [°] to the grain of the wood

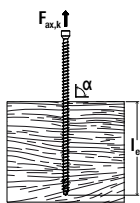
Screw-in angle α [°] to the grain of the wood

l_{ef} [mm]	90 to 45	40	35	30	25	20	16	l_{ef} [mm]	90 to 45	40	35	30	25	20	16
32	2,84	2,62	2,40	2,18	1,96	1,74	1,56	32	1,41	1,30	1,19	1,08	0,97	0,86	0,77
35	3,11	2,87	2,62	2,38	2,14	1,90	1,71	35	1,54	1,42	1,30	1,18	1,06	0,94	0,84
40	3,55	3,28	3,00	2,72	2,45	2,17	1,95	40	1,76	1,62	1,48	1,35	1,21	1,07	0,96
45	4,00	3,69	3,37	3,06	2,75	2,44	2,19	45	1,98	1,82	1,67	1,51	1,36	1,21	1,08
50	4,44	4,09	3,75	3,40	3,06	2,71	2,44	50	2,20	2,02	1,85	1,68	1,51	1,34	1,21
55	4,88	4,50	4,12	3,74	3,36	2,98	2,68	55	2,42	2,23	2,04	1,85	1,66	1,48	1,33
60	5,33	4,91	4,50	4,08	3,67	3,26	2,92	60	2,63	2,43	2,22	2,02	1,82	1,61	1,45
65	5,77	5,32	4,87	4,43	3,98	3,53	3,17	65	2,85	2,63	2,41	2,19	1,97	1,74	1,57
70	6,22	5,73	5,25	4,77	4,28	3,80	3,41	70	3,07	2,83	2,60	2,36	2,12	1,88	1,69
75	6,66	6,14	5,62	5,11	4,59	4,07	3,66	75	3,29	3,04	2,78	2,52	2,27	2,01	1,81
80	7,10	6,55	6,00	5,45	4,89	4,34	3,90	80	3,51	3,24	2,97	2,69	2,42	2,15	1,93
85	7,55	6,96	6,37	5,79	5,20	4,61	4,14	85	3,73	3,44	3,15	2,86	2,57	2,28	2,05
90	7,99	7,37	6,75	6,13	5,51	4,88	4,39	90	3,95	3,64	3,34	3,03	2,72	2,42	2,17
95	8,44	7,78	7,12	6,47	5,81	5,16	4,63	95	4,17	3,85	3,52	3,20	2,87	2,55	2,29
100	8,88	8,19	7,50	6,81	6,12	5,43	4,87	100	4,39	4,05	3,71	3,37	3,03	2,68	2,41
105	9,32	8,60	7,87	7,15	6,42	5,70	5,12	105	4,61	4,25	3,89	3,53	3,18	2,82	2,53
110	9,77	9,01	8,25	7,49	6,73	5,97	5,36	110	4,83	4,45	4,08	3,70	3,33	2,95	2,65
115	10,21	9,42	8,62	7,83	7,03	6,24	5,61	115	5,05	4,66	4,26	3,87	3,48	3,09	2,77
120	10,66	9,83	9,00	8,17	7,34	6,51	5,85	120	5,27	4,86	4,45	4,04	3,63	3,22	2,89
125	11,10	10,24	9,37	8,51	7,65	6,78	6,09	125	5,49	5,06	4,64	4,21	3,78	3,35	3,01
130	11,54	10,65	9,75	8,85	7,95	7,05	6,34	130	5,71	5,26	4,82	4,38	3,93	3,49	3,13
135	11,99	11,06	10,12	9,19	8,26	7,33	6,58	135	5,93	5,47	5,01	4,54	4,08	3,62	3,25
140	12,43	11,47	10,50	9,53	8,56	7,60	6,82	140	6,15	5,67	5,19	4,71	4,24	3,76	3,37
145	12,88	11,87	10,87	9,87	8,87	7,87	7,07	145	6,37	5,87	5,38	4,88	4,39	3,89	3,49
150	13,32	12,28	11,25	10,21	9,18	8,14	7,31	150	6,59	6,07	5,56	5,05	4,54	4,03	3,62
155	13,76	12,69	11,62	10,55	9,48	8,41	7,55	155	6,81	6,28	5,75	5,22	4,69	4,16	3,74
160	14,21	13,10	12,00	10,89	9,79	8,68	7,80	160	7,03	6,48	5,93	5,39	4,84	4,29	3,86
165	14,65	13,51	12,37	11,23	10,09	8,95	8,04	165	7,25	6,68	6,12	5,55	4,99	4,43	3,98
170	15,10	13,92	12,75	11,57	10,40	9,23	8,29	170	7,47	6,88	6,30	5,72	5,14	4,56	4,10
175	15,54	14,33	13,12	11,91	10,71	9,50	8,53	175	7,68	7,09	6,49	5,89	5,29	4,70	4,22
180	15,98	14,74	13,50	12,25	11,01	9,77	8,77	180	7,90	7,29	6,67	6,06	5,45	4,83	4,34
185	16,43	15,15	13,87	12,59	11,32	10,04	9,02	185	8,12	7,49	6,86	6,23	5,60	4,96	4,46

Dimensions

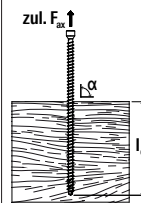
Characteristic tension load $F_{ax,\alpha,Rk}$ [kN] for:
Nominal screw diameter: $d = 8.0$ mm

Characteristic screw tensile load capacity:	$f_{tens,k} =$	25.0	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:	$f_{ax,k} =$	11.1	N/mm ²
Head pull-through parameters countersunk head			
Timber thickness $t \geq 20$ mm:	$f_{head,k} =$	12.0	N/mm ²
Head diameter countersunk head:	$d_h =$	14.5	mm
Permissible head pull-out resistance			
countersunk head for $\alpha \geq 30^\circ$:	$F_{ax,\alpha,Rk} =$	2.52	kN

Screw-in angle α [°] to the grain of the wood

Permissible tension load F_{ax} [kN] for:
Nominal screw diameter: $d = 8.0$ mm

Characteristic screw tensile load capacity:	$f_{tens,k} =$	25.0	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:	$f_{ax,k} =$	11.1	N/mm ²
Head pull-through parameters countersunk head			
Timber thickness $t \geq 20$ mm:	$f_{head,k} =$	12.0	N/mm ²
Head diameter countersunk head:	$d_h =$	14.5	mm
Permissible head pull-out resistance			
countersunk head for $\alpha \geq 30^\circ$:	$zul. F_{ax,\alpha} =$	1.25 kN	

Screw-in angle α [°] to the grain of the wood

l_{eff} [mm]	90 to 45	40	35	30	25	20	16	l_{eff} [mm]	90 to 45	40	35	30	25	20	16
190	16,87	15,56	14,25	12,94	11,62	10,31	9,26	190	8,34	7,69	7,05	6,40	5,75	5,10	4,58
195	17,32	15,97	14,62	13,28	11,93	10,58	9,50	195	8,56	7,90	7,23	6,56	5,90	5,23	4,70
200	17,76	16,38	15,00	13,62	12,23	10,85	9,75	200	8,78	8,10	7,42	6,73	6,05	5,37	4,82
210	18,65	17,20	15,75	14,30	12,85	11,40	10,24	210	9,22	8,50	7,79	7,07	6,35	5,64	5,06
220	19,54	18,02	16,50	14,98	13,46	11,94	10,72	220	9,66	8,91	8,16	7,41	6,66	5,90	5,30
230	20,42	18,84	17,25	15,66	14,07	12,48	11,21	230	10,10	9,31	8,53	7,74	6,96	6,17	5,54
240	21,31	19,65	18,00	16,34	14,68	13,02	11,70	240	10,54	9,72	8,90	8,08	7,26	6,44	5,78
250	22,20	20,47	18,75	17,02	15,29	13,57	12,19	250	10,98	10,12	9,27	8,42	7,56	6,71	6,03
260	23,09	21,29	19,50	17,70	15,91	14,11	12,67	260	11,42	10,53	9,64	8,75	7,87	6,98	6,27
270	23,98	22,11	20,25	18,38	16,52	14,65	13,16	270	11,86	10,93	10,01	9,09	8,17	7,25	6,51
280	24,86	22,93	21,00	19,06	17,13	15,19	13,65	280	12,30	11,34	10,38	9,43	8,47	7,51	6,75
290	25,00	23,75	21,75	19,74	17,74	15,74	14,13	290	12,73	11,74	10,75	9,76	8,77	7,78	6,99
300	25,00	24,57	22,50	20,42	18,35	16,28	14,62	300	13,17	12,15	11,12	10,10	9,08	8,05	7,23
310	25,00	25,00	23,25	21,10	18,96	16,82	15,11	310	13,61	12,55	11,50	10,44	9,38	8,32	7,47
320	25,00	25,00	24,00	21,79	19,58	17,37	15,60	320	13,74	12,96	11,87	10,77	9,68	8,59	7,71
330	25,00	25,00	24,75	22,47	20,19	17,91	16,08	330	13,74	13,36	12,24	11,11	9,98	8,86	7,95
340	25,00	25,00	25,00	23,15	20,80	18,45	16,57	340	13,74	13,74	12,61	11,45	10,29	9,12	8,19
350	25,00	25,00	25,00	23,83	21,41	18,99	17,06	350	13,74	13,74	12,98	11,78	10,59	9,39	8,44
360	25,00	25,00	25,00	24,51	22,02	19,54	17,55	360	13,74	13,74	13,35	12,12	10,89	9,66	8,68
370	25,00	25,00	25,00	25,00	22,63	20,08	18,03	370	13,74	13,74	13,72	12,46	11,19	9,93	8,92
380	25,00	25,00	25,00	25,00	23,25	20,62	18,52	380	13,74	13,74	13,74	12,79	11,50	10,20	9,16

Max. screw length: $l = 400$ mm; Head height: $h_1 = 6,5$ mm (cylinder head); $h_2 = 7,4$ mm (countersunk head); Peak length $l_p = 5,0$ mm; max. eff. thread length $l_{eff} = 388,5$ mm.

Available screw lengths: 95, 125, 155, 195, 220, 245, 270, 295, 330, 375, 400 mm.

$$F_{ax,\alpha,Rk} = n_{ef} \cdot k_{ax} \cdot f_{ax,k} \cdot d \cdot l_{eff} \cdot \left(\frac{\rho_k}{350}\right)^{0,8}; k_{ax} = 1,0 \text{ für } 45^\circ \leq \alpha \leq 90^\circ; k_{ax} = 0,3 + \frac{0,7 \cdot \alpha}{45^\circ} \text{ für } 0^\circ \leq \alpha < 45^\circ \quad \text{zul. } F_{ax,\alpha} = \frac{k_{mod} \cdot F_{ax,\alpha,Rk}}{\gamma_M \cdot \gamma_F}$$

Edge and axle distances according to ETA-12/0073 or DIN EN 1995-1-1 + NA. ETA-12/0073 and DIN EN 1995-1-1 shall be observed in their entirety.

The loads in timbers with other strengths are obtained by the conversion factor: $\left(\frac{\rho_k}{350}\right)^{0,8}$

The indicated loads are only valid for single screws.

The effective number of bolts with more than one bolt per connection is determined by the formula: $n_{ef} = n^{0,9}$ according to DIN EN 1995-1-1, Section 8.7.2 formula (8.41).

All mechanical values given are to be considered in relation to the assumptions made and are design examples. Attention: This is only a planning aid. Projects are to be dimensioned exclusively by structural engineers or structural engineers! All values are subject to typesetting and printing errors.

Load tables

Full thread screw **Power-Full cylinder head and countersunk head**. Screw diameter 10,0 mm.

Dimensions

Characteristic tension load $F_{ax,\alpha,Rk}$ [kN] for:
Nominal screw diameter: $d = 10.0$ mm

Characteristic screw tensile load capacity:

Wood quality:

Characteristic timber gross density:

Number of screws per connection:

Thread extraction parameter:

Head pull-through parameters countersunk head

Timber thickness $t \geq 20$ mm:

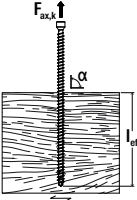
Head diameter countersunk head:

Permissible head pull-out resistance
counterdunk head for $\alpha \geq 30^\circ$:

$f_{tens,k}$
 ρ_k
 n
 $f_{ax,k}$
 $f_{head,k}$
 d_h
 $F_{ax,\alpha,Rk}$

33.0
C24
350
1
10.8
12.0
17.8
3.80

kN
[-]
kg/m³
unit
N/mm²
N/mm²
mm
kN



Screw-in angle α [°] to the grain of the wood

Permissible tension load F_{ax} [kN] for:
Nominal screw diameter: $d = 10.0$ mm

Characteristic screw tensile load capacity:

Wood quality:

Characteristic timber gross density:

Number of screws per connection:

Usage class:

Class of load duration:

Modification factor::

Partial safety factor for resistance:

Partial safety factor for action:

Thread extraction parameter:

Head pull-through parameters countersunk head

Timber thickness $t \geq 20$ mm:

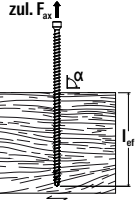
Head diameter countersunk head:

Permissible head pull-out resistance
counterdunk head for $\alpha \geq 30^\circ$:

$f_{tens,k}$
 ρ_k
 n
NKL:
KLED:
 k_{mod}
 γ_M
 γ_F
 $f_{ax,k}$
 $f_{head,k}$
 d_h
 $zul. F_{ax,\alpha}$

30.0
C24
350
1
2
short
0.9
1.3
1.4
10.8
12.0
17.8
1.88 kN

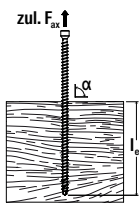
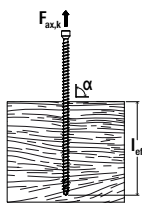
kN
[-]
kg/m³
unit
[-]
[-]
[-]
[-]
N/mm²
N/mm²
mm



Screw-in angle α [°] to the grain of the wood

l_{ef} [mm]	90 to 45	40	35	30	25	20	16
40	4,32	3,98	3,65	3,31	2,98	2,64	2,37
45	4,86	4,48	4,10	3,73	3,35	2,97	2,67
50	5,40	4,98	4,56	4,14	3,72	3,30	2,96
55	5,94	5,48	5,02	4,55	4,09	3,63	3,26
60	6,48	5,98	5,47	4,97	4,46	3,96	3,56
65	7,02	6,47	5,93	5,38	4,84	4,29	3,85
70	7,56	6,97	6,38	5,80	5,21	4,62	4,15
75	8,10	7,47	6,84	6,21	5,58	4,95	4,45
80	8,64	7,97	7,30	6,62	5,95	5,28	4,74
85	9,18	8,47	7,75	7,04	6,32	5,61	5,04
90	9,72	8,96	8,21	7,45	6,70	5,94	5,34
95	10,26	9,46	8,66	7,87	7,07	6,27	5,63
100	10,80	9,96	9,12	8,28	7,44	6,60	5,93
105	11,34	10,46	9,58	8,69	7,81	6,93	6,22
110	11,88	10,96	10,03	9,11	8,18	7,26	6,52
115	12,42	11,45	10,49	9,52	8,56	7,59	6,82
120	12,96	11,95	10,94	9,94	8,93	7,92	7,11
125	13,50	12,45	11,40	10,35	9,30	8,25	7,41
130	14,04	12,95	11,86	10,76	9,67	8,58	7,71
135	14,58	13,45	12,31	11,18	10,04	8,91	8,00
140	15,12	13,94	12,77	11,59	10,42	9,24	8,30
145	15,66	14,44	13,22	12,01	10,79	9,57	8,60
150	16,20	14,94	13,68	12,42	11,16	9,90	8,89
155	16,74	15,44	14,14	12,83	11,53	10,23	9,19
160	17,28	15,94	14,59	13,25	11,90	10,56	9,48
165	17,82	16,43	15,05	13,66	12,28	10,89	9,78
170	18,36	16,93	15,50	14,08	12,65	11,22	10,08
175	18,90	17,43	15,96	14,49	13,02	11,55	10,37
180	19,44	17,93	16,42	14,90	13,39	11,88	10,67
185	19,98	18,43	16,87	15,32	13,76	12,21	10,97
190	20,52	18,92	17,33	15,73	14,14	12,54	11,26
195	21,06	19,42	17,78	16,15	14,51	12,87	11,56

l_{ef} [mm]	90 to 45	40	35	30	25	20	16
40	2,14	1,97	1,80	1,64	1,47	1,31	1,17
45	2,40	2,22	2,03	1,84	1,66	1,47	1,32
50	2,67	2,46	2,25	2,05	1,84	1,63	1,47
55	2,94	2,71	2,48	2,25	2,02	1,80	1,61
60	3,20	2,96	2,71	2,46	2,21	1,96	1,76
65	3,47	3,20	2,93	2,66	2,39	2,12	1,91
70	3,74	3,45	3,16	2,87	2,58	2,28	2,05
75	4,01	3,69	3,38	3,07	2,76	2,45	2,20
80	4,27	3,94	3,61	3,28	2,94	2,61	2,35
85	4,54	4,19	3,83	3,48	3,13	2,77	2,49
90	4,81	4,43	4,06	3,69	3,31	2,94	2,64
95	5,07	4,68	4,28	3,89	3,50	3,10	2,78
100	5,34	4,93	4,51	4,09	3,68	3,26	2,93
105	5,61	5,17	4,74	4,30	3,86	3,43	3,08
110	5,87	5,42	4,96	4,50	4,05	3,59	3,22
115	6,14	5,66	5,19	4,71	4,23	3,75	3,37
120	6,41	5,91	5,41	4,91	4,41	3,92	3,52
125	6,68	6,16	5,64	5,12	4,60	4,08	3,66
130	6,94	6,40	5,86	5,32	4,78	4,24	3,81
135	7,21	6,65	6,09	5,53	4,97	4,41	3,96
140	7,48	6,90	6,31	5,73	5,15	4,57	4,10
145	7,74	7,14	6,54	5,94	5,33	4,73	4,25
150	8,01	7,39	6,76	6,14	5,52	4,90	4,40
155	8,28	7,63	6,99	6,35	5,70	5,06	4,54
160	8,55	7,88	7,22	6,55	5,89	5,22	4,69
165	8,81	8,13	7,44	6,76	6,07	5,39	4,84
170	9,08	8,37	7,67	6,96	6,25	5,55	4,98
175	9,35	8,62	7,89	7,17	6,44	5,71	5,13
180	9,61	8,87	8,12	7,37	6,62	5,87	5,28
185	9,88	9,11	8,34	7,57	6,81	6,04	5,42
190	10,15	9,36	8,57	7,78	6,99	6,20	5,57
195	10,41	9,60	8,79	7,98	7,17	6,36	5,72



Screw-in angle α [°] to the grain of the wood

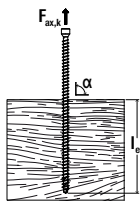
Screw-in angle α [°] to the grain of the wood

l_{ef} [mm]	90 to 45	40	35	30	25	20	16	l_{ef} [mm]	90 to 45	40	35	30	25	20	16
40	4,32	3,98	3,65	3,31	2,98	2,64	2,37	40	2,14	1,97	1,80	1,64	1,47	1,31	1,17
45	4,86	4,48	4,10	3,73	3,35	2,97	2,67	45	2,40	2,22	2,03	1,84	1,66	1,47	1,32
50	5,40	4,98	4,56	4,14	3,72	3,30	2,96	50	2,67	2,46	2,25	2,05	1,84	1,63	1,47
55	5,94	5,48	5,02	4,55	4,09	3,63	3,26	55	2,94	2,71	2,48	2,25	2,02	1,80	1,61
60	6,48	5,98	5,47	4,97	4,46	3,96	3,56	60	3,20	2,96	2,71	2,46	2,21	1,96	1,76
65	7,02	6,47	5,93	5,38	4,84	4,29	3,85	65	3,47	3,20	2,93	2,66	2,39	2,12	1,91
70	7,56	6,97	6,38	5,80	5,21	4,62	4,15	70	3,74	3,45	3,16	2,87	2,58	2,28	2,05
75	8,10	7,47	6,84	6,21	5,58	4,95	4,45	75	4,01	3,69	3,38	3,07	2,76	2,45	2,20
80	8,64	7,97	7,30	6,62	5,95	5,28	4,74	80	4,27	3,94	3,61	3,28	2,94	2,61	2,35
85	9,18	8,47	7,75	7,04	6,32	5,61	5,04	85	4,54	4,19	3,83	3,48	3,13	2,77	2,49
90	9,72	8,96	8,21	7,45	6,70	5,94	5,34	90	4,81	4,43	4,06	3,69	3,31	2,94	2,64
95	10,26	9,46	8,66	7,87	7,07	6,27	5,63	95	5,07	4,68	4,28	3,89	3,50	3,10	2,78
100	10,80	9,96	9,12	8,28	7,44	6,60	5,93	100	5,34	4,93	4,51	4,09	3,68	3,26	2,93
105	11,34	10,46	9,58	8,69	7,81	6,93	6,22	105	5,61	5,17	4,74	4,30	3,86	3,43	3,08
110	11,88	10,96	10,03	9,11	8,18	7,26	6,52	110	5,87	5,42	4,96	4,50	4,05	3,59	3,22
115	12,42	11,45	10,49	9,52	8,56	7,59	6,82	115	6,14	5,66	5,19	4,71	4,23	3,75	3,37
120	12,96	11,95	10,94	9,94	8,93	7,92	7,11	120	6,41	5,91	5,41	4,91	4,41	3,92	3,52
125	13,50	12,45	11,40	10,35	9,30	8,25	7,41	125	6,68	6,16	5,64	5,12	4,60	4,08	3,66
130	14,04	12,95	11,86	10,76	9,67	8,58	7,71	130	6,94	6,40	5,86	5,32	4,78	4,24	3,81
135	14,58	13,45	12,31	11,18	10,04	8,91	8,00	135	7,21	6,65	6,09	5,53	4,97	4,41	3,96
140	15,12	13,94	12,77	11,59	10,42	9,24	8,30	140	7,48	6,90	6,31	5,73	5,15	4,57	4,10
145	15,66	14,44	13,22	12,01	10,79	9,57	8,60	145	7,74	7,14	6,54	5,94	5,33	4,73	4,25
150	16,20	14,94	13,68	12,42	11,16	9,90	8,89	150	8,01	7,39	6,76	6,14	5,52	4,90	4,40
155	16,74	15,44	14,14	12,83	11,53	10,23	9,19	155	8,28	7,63	6,99	6,35	5,70	5,06	4,54
160	17,28	15,94	14,59	13,25	11,90	10,56	9,48	160	8,55	7,88	7,22	6,55	5,89	5,22	4,69
165	17,82	16,43	15,05	13,66	12,28	10,89	9,78	165	8,81	8,13	7,44	6,76	6,07	5,39	4,84
170	18,36	16,93	15,50	14,08	12,65	11,22	10,08	170	9,08	8,37	7,67	6,96	6,25	5,55	4,98
175	18,90	17,43	15,96	14,49	13,02	11,55	10,37	175	9,35	8,62	7,89	7,17	6,44	5,71	5,13
180	19,44	17,93	16,42	14,90	13,39	11,88	10,67	180	9,61	8,87	8,12	7,37	6,62	5,87	5,28
185	19,98	18,43	16,87	15,32	13,76	12,21	10,97	185	9,88	9,11	8,34	7,57	6,81	6,04	5,42
190	20,52	18,92	17,33	15,73	14,14	12,54	11,26	190	10,15	9,36	8,57	7,78	6,99	6,20	5,57
195	21,06	19,42	17,78	16,15	14,51	12,87	11,56	195	10,41	9,60	8,79	7,98	7,17	6,36	5,72

Dimensions

Characteristic tension load $F_{ax,\alpha,Rk}$ [kN] for:
Nominal screw diameter: $d = 10.0$ mm

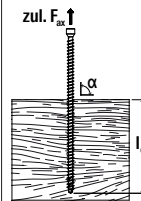
Characteristic screw tensile load capacity:	$f_{tens,k} =$	33.0	kN
Wood quality:		C24	[-]
Characteristic timber gross density:	$\rho_k =$	350	kg/m ³
Number of screws per connection:	$n =$	1	unit
Thread extraction parameter:	$f_{ax,k} =$	10.8	N/mm ²
Head pull-through parameters countersunk head			
Timber thickness $t \geq 20$ mm:	$f_{head,k} =$	12.0	N/mm ²
Head diameter countersunk head:	$d_h =$	17.8	mm
Permissible head pull-out resistance			
countersunk head for $\alpha \geq 30^\circ$:	$F_{ax,\alpha,Rk} =$	3.80	kN

Screw-in angle α [°] to the grain of the wood

l_{eff} [mm]	90 to 45	40	35	30	25	20	16
200	21,60	19,92	18,24	16,56	14,88	13,20	11,86
205	22,14	20,42	18,70	16,97	15,25	13,53	12,15
210	22,68	20,92	19,15	17,39	15,62	13,86	12,45
215	23,22	21,41	19,61	17,80	16,00	14,19	12,75
220	23,76	21,91	20,06	18,22	16,37	14,52	13,04
225	24,30	22,41	20,52	18,63	16,74	14,85	13,34
230	24,84	22,91	20,98	19,04	17,11	15,18	13,63
235	25,38	23,41	21,43	19,46	17,48	15,51	13,93
240	25,92	23,90	21,89	19,87	17,86	15,84	14,23
245	26,46	24,40	22,34	20,29	18,23	16,17	14,52
250	27,00	24,90	22,80	20,70	18,60	16,50	14,82
255	27,54	25,40	23,26	21,11	18,97	16,83	15,12
260	28,08	25,90	23,71	21,53	19,34	17,16	15,41
265	28,62	26,39	24,17	21,94	19,72	17,49	15,71
270	29,16	26,89	24,62	22,36	20,09	17,82	16,01
275	29,70	27,39	25,08	22,77	20,46	18,15	16,30
280	30,24	27,89	25,54	23,18	20,83	18,48	16,60
285	30,78	28,39	25,99	23,60	21,20	18,81	16,89
290	31,32	28,88	26,45	24,01	21,58	19,14	17,19
295	31,86	29,38	26,90	24,43	21,95	19,47	17,49
300	32,40	29,88	27,36	24,84	22,32	19,80	17,78

Permissible tension load F_{ax} [kN] for:
Nominal screw diameter: $d = 10.0$ mm

Characteristic screw tensile load capacity:	$f_{tens,k} =$	30.0	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:	$f_{ax,k} =$	10.8	N/mm ²
Head pull-through parameters countersunk head			
Timber thickness $t \geq 20$ mm:	$f_{head,k} =$	12.0	N/mm ²
Head diameter countersunk head:	$d_h =$	17.8	mm
Permissible head pull-out resistance			
countersunk head for $\alpha \geq 30^\circ$:	$zul. F_{ax,\alpha} =$	1.88 kN	

Screw-in angle α [°] to the grain of the wood

l_{eff} [mm]	90 to 45	40	35	30	25	20	16
200	10,68	9,85	9,02	8,19	7,36	6,53	5,86
205	10,95	10,10	9,25	8,39	7,54	6,69	6,01
210	11,22	10,34	9,47	8,60	7,73	6,85	6,16
215	11,48	10,59	9,70	8,80	7,91	7,02	6,30
220	11,75	10,84	9,92	9,01	8,09	7,18	6,45
225	12,02	11,08	10,15	9,21	8,28	7,34	6,60
230	12,28	11,33	10,37	9,42	8,46	7,51	6,74
235	12,55	11,57	10,60	9,62	8,65	7,67	6,89
240	12,82	11,82	10,82	9,83	8,83	7,83	7,04
245	13,08	12,07	11,05	10,03	9,01	8,00	7,18
250	13,35	12,31	11,27	10,24	9,20	8,16	7,33
255	13,62	12,56	11,50	10,44	9,38	8,32	7,48
260	13,89	12,81	11,73	10,65	9,57	8,49	7,62
265	14,15	13,05	11,95	10,85	9,75	8,65	7,77
270	14,42	13,30	12,18	11,06	9,93	8,81	7,91
275	14,69	13,54	12,40	11,26	10,12	8,98	8,06
280	14,95	13,79	12,63	11,46	10,30	9,14	8,21
285	15,22	14,04	12,85	11,67	10,49	9,30	8,35
290	15,49	14,28	13,08	11,87	10,67	9,46	8,50
295	15,75	14,53	13,30	12,08	10,85	9,63	8,65
300	16,02	14,78	13,53	12,28	11,04	9,79	8,79

Max. screw length: $l = 600$ mm; Head height: $h_1 = 6,5$ mm (cylinder head); $h_2 = 8,7$ mm (countersunk head); Peak length $l_1 = 6,0$ mm; max. eff. thread length $l_{eff} = 587,5$ mm.

Available screw lengths: 125, 155, 195, 220, 245, 270, 300, 330, 360, 400, 450, 500, 550, 600 mm.

$$F_{ax,\alpha,Rk} = n_{ef} \cdot k_{ax} \cdot f_{ax,k} \cdot d \cdot l_{eff} \cdot \left(\frac{\rho_k}{350}\right)^{0,8}; k_{ax} = 1,0 \text{ für } 45^\circ \leq \alpha \leq 90^\circ; k_{ax} = 0,3 + \frac{0,7 \cdot \alpha}{45^\circ} \text{ für } 0^\circ \leq \alpha < 45^\circ \quad \text{zul. } F_{ax,\alpha} = \frac{k_{mod} \cdot F_{ax,\alpha,Rk}}{\gamma_M \cdot \gamma_F}$$

Edge and axle distances according to ETA-12/0073 or DIN EN 1995-1-1 + NA. ETA-12/0073 and DIN EN 1995-1-1 shall be observed in their entirety.

The loads in timbers with other strengths are obtained by the conversion factor: $\left(\frac{\rho_k}{350}\right)^{0,8}$

The indicated loads are only valid for single screws.

The effective number of bolts with more than one bolt per connection is determined by the formula: $n_{ef} = n^{0,9}$ according to DIN EN 1995-1-1, Section 8.7.2 formula (8.41).

All mechanical values given are to be considered in relation to the assumptions made and are design examples. Attention: This is only a planning aid. Projects are to be dimensioned exclusively by structural engineers or structural engineers! All values are subject to typesetting and printing errors.

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13

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- Saddle roof
- Hipped roof
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- Support transverse pressure reinforcement
- Notch
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- Beamhead refurbishment
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- Cross-tension reinforcement
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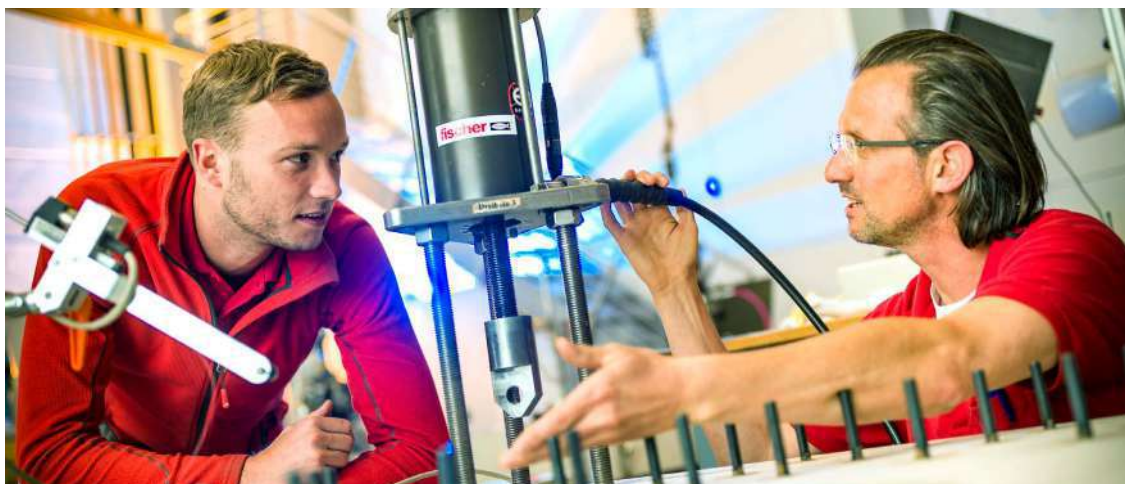
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German Sustainability Award



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670408	42	670471	31	670534	46	670617	36	670681	29
670409	42	670472	31	670535	48	670618	37	670682	35
670410	42	670473	31	670536	48	670619	37	670683	29
670411	42	670474	31	670537	48	670621	33	670684	35
670412	42	670475	31	670538	48	670622	28	670685	29
670413	41	670476	30	670539	39	670623	43	670686	30
670414	41	670477	30	670540	36	670624	33	670687	30
670415	41	670478	30	670541	36	670625	34	670688	30
670416	41	670479	30	670542	36	670626	28	670689	30
670417	41	670480	30	670543	36	670627	36	670690	30
670418	41	670481	30	670544	36	670628	36	670691	30
670419	41	670482	30	670547	39	670629	44	670692	30
670420	41	670483	30	670548	39	670630	34	670693	30
670421	41	670484	30	670549	39	670631	36	670694	30
670422	42	670485	30	670550	39	670632	29	670695	30
670423	41	670486	30	670551	36	670633	29	670696	31
670424	42	670487	30	670552	36	670634	41	696768	64
670425	42	670488	45	670553	36	670635	41	696769	64
670426	42	670489	45	670554	36	670636	47	696770	64
670427	42	670490	45	670555	36	670637	38	696771	64
670428	42	670491	45	670556	36	670638	38	696772	64
670429	42	670492	45	670557	36	670639	34	696773	64
670430	42	670493	45	670558	36	670640	35	696774	64
670431	42	670494	45	670559	36	670641	36	696775	64
670432	42	670495	45	670560	36	670642	29	696776	67
670433	42	670496	45	670561	36	670643	41	696777	67
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670435	47	670498	45	670569	39	670645	41	696779	67
670436	47	670499	45	670570	39	670646	47	696780	67
670437	47	670500	42	670571	36	670647	30	696781	67
670438	47	670501	42	670572	36	670648	34	696782	67
670439	47	670502	42	670573	36	670649	28	696783	67
670440	47	670503	42	670574	36	670650	34		
670441	47	670504	42	670575	36	670651	28		
670442	48	670505	42	670576	36	670652	34		
670443	48	670506	42	670577	36	670653	28		
670444	48	670507	42	670582	38	670654	34		
670445	48	670508	42	670583	38	670655	28		
670446	48	670509	42	670584	38	670656	34		
670447	48	670510	42	670585	38	670657	28		
670448	48	670511	42	670586	38	670658	28		
670449	48	670512	42	670587	38	670659	29		
670450	35	670513	42	670588	38	670660	34		
670451	35	670514	42	670589	36	670661	34		
670452	35	670515	42	670590	36	670662	29		
670453	35	670516	42	670591	36	670663	34		
670454	35	670517	42	670592	36	670664	29		
670455	35	670518	42	670593	36	670665	34		
670456	35	670519	42	670594	36	670666	29		
670457	30	670520	42	670595	36	670667	34		
670458	30	670521	42	670596	36	670668	29		
670459	30	670522	42	670597	36	670669	29		
670460	30	670523	42	670598	36	670670	29		
670461	30	670524	42	670599	36	670671	29		
670462	30	670525	42	670608	37	670672	30		
670463	30	670526	42	670609	37	670673	30		
670464	30	670527	42	670610	37	670674	30		
670465	30	670528	42	670611	37	670675	34		
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FDF-ST 3,5 x 45 YZP 200	660202	99	FPF II CTF 3,5 x 16 BC 1000	670130	33	FPF II CTF 4,5 x 45 BC 500	670263	34
FDF-ST 3,5 x 50 YZP 200	660203	99	FPF II CTF 3,5 x 16 BC 200	670073	33	FPF II CTF 4,5 x 50 BC 50	670667	34
FDF-ST 4,0 x 40 YZP 200	660204	99	FPF II CTF 3,5 x 20 BC 1000	670131	33	FPF II CTF 4,5 x 50 BC 200	670264	34
FDF-ST 4,0 x 45 YZP 200	660205	99	FPF II CTF 3,5 x 20 BC 200	670074	33	FPF II CTF 4,5 x 50 BC 500	670265	34
FDF-ST 4,0 x 50 YZP 200	660206	99	FPF II CTF 3,5 x 25 BC 1000	670132	33	FPF II CTF 5,0 x 20 BC 200	670348	34
FDF-ST 4,0 x 60 YZP 100	660207	99	FPF II CTF 3,5 x 25 BC 200	670075	33	FPF II CTF 5,0 x 25 BC 500	670639	34
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FDF-ST 4,5 x 50 YZP 200	660209	99	FPF II CTF 3,5 x 30 BC 1000	670133	33	FPF II CTF 5,0 x 30 BC 200	670350	34
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FFSII-RT6 4,5 x 45 A2	548560	106	FPF II CTF 3,5 x 30 BC 500	670120	33	FPF II CTF 5,0 x 35 BC 50	670675	34
FFSII-RT6 4,5 x 50 A2	548561	106	FPF II CTF 3,5 x 35 BC 1000	670134	33	FPF II CTF 5,0 x 35 BC 200	670352	34
FFSII-RT6 4,5 x 60 A2	548562	106	FPF II CTF 3,5 x 35 BC 200	670077	33	FPF II CTF 5,0 x 35 BC 500	670353	34
FFSII-RT6 4,5 x 70 A2	548563	106	FPF II CTF 3,5 x 35 BC 300	670106	33	FPF II CTF 5,0 x 40 BC 200	670354	34
FFSII-RT6 5,0 x 60 A2	548565	106	FPF II CTF 3,5 x 40 BC 200	670078	33	FPF II CTF 5,0 x 40 BC 500	670355	34
FFSII-RT6 5,0 x 70 A2	548566	106	FPF II CTF 3,5 x 40 BC 300	670107	33	FPF II CTF 5,0 x 45 BC 50	670678	34
FFSII-RT6 5,0 x 80 A2	548567	106	FPF II CTF 3,5 x 40 BC 500	670121	33	FPF II CTF 5,0 x 45 BC 200	670356	35
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FIF-ZT 8,0 x 235 ZPF 50	659398	80	FPF II CTF 4,0 x 20 BC 1000	670149	33	FPF II CTF 5,0 x 60 BC 200	670640	35
FIF-ZT 8,0 x 255 ZPF 50	659399	80	FPF II CTF 4,0 x 20 BC 200	670150	33	FPF II CTF 5,0 x 60 BC 50	670682	35
FIF-ZT 8,0 x 275 ZPF 50	659400	80	FPF II CTF 4,0 x 20 BC 500	670151	33	FPF II CTF 5,0 x 60 BC 100	670360	35
FIF-ZT 8,0 x 302 ZPF 50	659401	80	FPF II CTF 4,0 x 20 BZ 200	670547	39	FPF II CTF 5,0 x 60 BC 500	670361	35
FIF-ZT 8,0 x 335 ZPF 50	659402	80	FPF II CTF 4,0 x 20 BZ 500	670548	39	FPF II CTF 5,0 x 70 BC 50	670684	35
FIF-ZT 8,0 x 365 ZPF 50	659403	80	FPF II CTF 4,0 x 25 BC 1000	670624	33	FPF II CTF 5,0 x 70 BC 100	670362	35
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FIF-ZT 8,0 x 435 ZPF 50	659405	80	FPF II CTF 4,0 x 25 BC 500	670153	33	FPF II CTF 6,0 x 40 BC 200	670450	35
FJS-LT 7,0 x 40 A2F 50	660702	109	FPF II CTF 4,0 x 25 BZ 200	670549	39	FPF II CTF 6,0 x 40 BC 500	670451	35
FJS-LT 7,0 x 50 A2F 50	660704	109	FPF II CTF 4,0 x 25 BZ 500	670550	39	FPF II CTF 6,0 x 50 BC 100	670452	35
FPF II CT25P 5,0 x 100 BC 100	670341	32	FPF II CTF 4,0 x 30 BC 50	670648	34	FPF II CTF 6,0 x 50 BC 200	670453	35
FPF II CT25P 5,0 x 100 BZ 100	670582	38	FPF II CTF 4,0 x 30 BC 1000	670154	34	FPF II CTF 6,0 x 50 BC 400	670454	35
FPF II CT25P 5,0 x 100 BZ 200	670637	38	FPF II CTF 4,0 x 30 BC 200	670155	34	FPF II CTF 6,0 x 60 BC 100	670455	35
FPF II CT25P 5,0 x 120 BC 100	670342	32	FPF II CTF 4,0 x 35 BC 1000	670625	34	FPF II CTF 6,0 x 60 BC 200	670456	35
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FPF II CT25P 5,0 x 50 BZ 200	670584	38	FPF II CTF 4,0 x 40 BC 50	670652	34	FPF II CTP 3,0 x 40 BC 500	670019	28
FPF II CT25P 5,0 x 60 BC 200	670344	32	FPF II CTF 4,0 x 40 BC 1000	670158	34	FPF II CTP 3,0 x 45 BC 200	670020	28
FPF II CT25P 5,0 x 60 BZ 200	670585	38	FPF II CTF 4,0 x 40 BC 200	670159	34	FPF II CTP 3,0 x 45 BC 500	670021	28
FPF II CT25P 5,0 x 70 BC 200	670345	32	FPF II CTF 4,0 x 45 BC 50	670654	34	FPF II CTP 3,5 x 25 BC 1000	670135	28
FPF II CT25P 5,0 x 70 BZ 200	670586	38	FPF II CTF 4,0 x 45 BC 200	670160	34	FPF II CTP 3,5 x 25 BC 200	670622	28
FPF II CT25P 5,0 x 80 BC 200	670346	32	FPF II CTF 4,0 x 45 BC 500	670161	34	FPF II CTP 3,5 x 25 BC 300	670108	28
FPF II CT25P 5,0 x 80 BZ 200	670587	38	FPF II CTF 4,0 x 50 BC 50	670656	34	FPF II CTP 3,5 x 30 BC 200	670080	28
FPF II CT25P 5,0 x 90 BC 200	670347	32	FPF II CTF 4,0 x 50 BC 200	670162	34	FPF II CTP 3,5 x 30 BC 300	670109	28
FPF II CT25P 5,0 x 90 BZ 200	670588	38	FPF II CTF 4,0 x 50 BC 500	670163	34	FPF II CTP 3,5 x 30 BC 500	670123	28
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FPF II CTF 3,0 x 16 BC 1000	670002	33	FPF II CTF 4,5 x 20 BZ 200	670569	39	FPF II CTP 3,5 x 35 BC 200	670081	28
FPF II CTF 3,0 x 16 BC 200	670003	33	FPF II CTF 4,5 x 25 BC 200	670254	34	FPF II CTP 3,5 x 35 BC 500	670124	28
FPF II CTF 3,0 x 16 BC 500	670004	33	FPF II CTF 4,5 x 25 BC 500	670255	34	FPF II CTP 3,5 x 35 BZ 200	670541	36
FPF II CTF 3,0 x 20 BC 1000	670005	33	FPF II CTF 4,5 x 25 BZ 200	670570	39	FPF II CTP 3,5 x 35 BZ 500	670542	36
FPF II CTF 3,0 x 20 BC 200	670006	33	FPF II CTF 4,5 x 30 BC 50	670660	34	FPF II CTP 3,5 x 40 BC 1000	670137	28
FPF II CTF 3,0 x 20 BC 500	670007	33	FPF II CTF 4,5 x 30 BC 200	670256	34	FPF II CTP 3,5 x 40 BC 200	670082	28
FPF II CTF 3,0 x 25 BC 1000	670008	33	FPF II CTF 4,5 x 30 BC 500	670257	34	FPF II CTP 3,5 x 40 BZ 200	670543	36
FPF II CTF 3,0 x 25 BC 200	670009	33	FPF II CTF 4,5 x 35 BC 50	670661	34	FPF II CTP 3,5 x 45 BC 200	670083	28
FPF II CTF 3,0 x 25 BC 500	670010	33	FPF II CTF 4,5 x 35 BC 200	670258	34	FPF II CTP 3,5 x 45 BC 500	670125	28
FPF II CTF 3,0 x 30 BC 1000	670011	33	FPF II CTF 4,5 x 35 BC 500	670259	34	FPF II CTP 3,5 x 50 BC 200	670084	28
FPF II CTF 3,0 x 30 BC 200	670012	33	FPF II CTF 4,5 x 40 BC 50	670663	34	FPF II CTP 3,5 x 50 BC 500	670126	28
FPF II CTF 3,0 x 30 BC 500	670013	33	FPF II CTF 4,5 x 40 BC 200	670260	34	FPF II CTP 3,5 x 50 BZ 200	670544	36
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FPF II CTP 4,0 x 30 BZ 200	670551	36	FPF II CTP 4,5 x 80 BC 50	670671	29	FPF II CTP 6,0 x 140 BC 50	670692	30
FPF II CTP 4,0 x 30 BZ 500	670552	36	FPF II CTP 4,5 x 80 BC 100	670278	29	FPF II CTP 6,0 x 150 BC 100	670463	30
FPF II CTP 4,0 x 30 BC 1000	670626	28	FPF II CTP 4,5 x 80 BC 200	670279	29	FPF II CTP 6,0 x 150 BC 50	670693	30
FPF II CTP 4,0 x 35 BC 50	670651	28	FPF II CTP 4,5 x 80 BC 500	670280	29	FPF II CTP 6,0 x 150 BZ 100	670610	37
FPF II CTP 4,0 x 35 BC 1000	670166	28	FPF II CTP 4,5 x 80 BZ 200	670577	36	FPF II CTP 6,0 x 160 BC 100	670464	30
FPF II CTP 4,0 x 35 BC 200	670167	28	FPF II CTP 5,0 x 100 BC 100	670364	30	FPF II CTP 6,0 x 160 BC 50	670694	30
FPF II CTP 4,0 x 35 BC 500	670168	28	FPF II CTP 5,0 x 100 BC 200	670365	30	FPF II CTP 6,0 x 160 BZ 100	670611	37
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FPF II CTP 4,0 x 45 BC 200	670171	28	FPF II CTP 5,0 x 120 BC 50	670674	30	FPF II CTP 6,0 x 240 BC 25	670468	31
FPF II CTP 4,0 x 45 BC 500	670172	28	FPF II CTP 5,0 x 120 BZ 100	670591	36	FPF II CTP 6,0 x 240 BC 50	670469	31
FPF II CTP 4,0 x 45 BZ 200	670557	36	FPF II CTP 5,0 x 120 BZ 200	670641	36	FPF II CTP 6,0 x 260 BC 25	670470	31
FPF II CTP 4,0 x 45 BZ 500	670558	36	FPF II CTP 5,0 x 30 BZ 200	670592	36	FPF II CTP 6,0 x 260 BC 50	670471	31
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FPF II CTP 4,0 x 50 BC 500	670174	28	FPF II CTP 5,0 x 35 BC 500	670371	29	FPF II CTP 6,0 x 300 BC 25	670474	31
FPF II CTP 4,0 x 50 BZ 200	670559	36	FPF II CTP 5,0 x 40 BC 50	670677	29	FPF II CTP 6,0 x 300 BC 50	670475	31
FPF II CTP 4,0 x 50 BZ 500	670560	36	FPF II CTP 5,0 x 40 BC 200	670372	29	FPF II CTP 6,0 x 40 BC 200	670476	30
FPF II CTP 4,0 x 60 BC 50	670658	28	FPF II CTP 5,0 x 40 BC 500	670373	29	FPF II CTP 6,0 x 40 BC 500	670477	30
FPF II CTP 4,0 x 60 BZ 500	670627	36	FPF II CTP 5,0 x 40 BZ 200	670593	36	FPF II CTP 6,0 x 50 BC 100	670478	30
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FPF II CTP 4,0 x 60 BZ 200	670561	36	FPF II CTP 5,0 x 45 BZ 200	670594	36	FPF II CTP 6,0 x 60 BC 100	670481	30
FPF II CTP 4,0 x 70 BC 50	670659	29	FPF II CTP 5,0 x 50 BC 50	670681	29	FPF II CTP 6,0 x 60 BC 200	670482	30
FPF II CTP 4,0 x 70 BC 100	670178	29	FPF II CTP 5,0 x 50 BC 200	670376	29	FPF II CTP 6,0 x 60 BZ 200	670616	36
FPF II CTP 4,0 x 70 BC 200	670179	29	FPF II CTP 5,0 x 50 BC 500	670377	29	FPF II CTP 6,0 x 70 BC 100	670483	30
FPF II CTP 4,0 x 70 BC 500	670180	29	FPF II CTP 5,0 x 50 BZ 200	670595	36	FPF II CTP 6,0 x 70 BC 200	670484	30
FPF II CTP 4,0 x 70 BZ 200	670562	36	FPF II CTP 5,0 x 60 BC 200	670642	29	FPF II CTP 6,0 x 70 BZ 200	670617	36
FPF II CTP 4,0 x 70 BZ 500	670628	36	FPF II CTP 5,0 x 60 BC 50	670683	29	FPF II CTP 6,0 x 80 BC 100	670485	30
FPF II CTP 4,5 x 30 BZ 200	670571	36	FPF II CTP 5,0 x 60 BC 100	670378	29	FPF II CTP 6,0 x 80 BC 200	670486	30
FPF II CTP 4,5 x 35 BC 50	670662	29	FPF II CTP 5,0 x 60 BC 500	670379	29	FPF II CTP 6,0 x 80 BZ 200	670618	37
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FPF II CTP 4,5 x 35 BC 500	670267	29	FPF II CTP 5,0 x 70 BC 50	670685	29	FPF II CTP 6,0 x 90 BC 100	670487	30
FPF II CTP 4,5 x 35 BZ 100	670572	36	FPF II CTP 5,0 x 70 BC 100	670380	29	FPF II CTP 6,0 x 90 BZ 200	670619	37
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FPF II CTP 4,5 x 40 BC 200	670268	29	FPF II CTP 5,0 x 80 BC 50	670686	30	FPF II CZF 3,0 x 12 BC 300	670024	43
FPF II CTP 4,5 x 40 BC 500	670269	29	FPF II CTP 5,0 x 80 BC 100	670382	30	FPF II CZF 3,0 x 12 BC 500	670025	43
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FPF-ZTN 8,0 x 220 ZPF 50	659436	78	FSPII CTF 3,5 x 20 BC	551092	55	FSPII CZF 3,0 x 25 YC	551064	59
FPF-ZTN 8,0 x 245 ZPF 50	659437	78	FSPII CTF 3,5 x 25 BC	551093	55	FSPII CZF 3,0 x 30 BC	551059	57
FPF-ZTN 8,0 x 295 ZPF 50	659438	78	FSPII CTF 3,5 x 30 BC	551094	55	FSPII CZF 3,0 x 30 YC	551065	59
FPF-ZTN 8,0 x 330 ZPF 50	659439	78	FSPII CTF 3,5 x 35 BC	551095	55	FSPII CZF 3,0 x 35 BC	551060	57
FPF-ZTN 8,0 x 375 ZPF 50	659440	78	FSPII CTF 4,0 x 16 BC	551132	55	FSPII CZF 3,0 x 35 YC	551066	59
FPF-ZTN 8,0 x 400 ZPF 50	659441	78	FSPII CTF 4,0 x 20 BC	551133	55	FSPII CZF 3,0 x 40 BC	551061	57
FPS-FP 4,2 x 13 ZPF 1000	040456	120	FSPII CTF 4,0 x 25 BC	551134	55	FSPII CZF 3,5 x 12 BC	551076	57
FPS-FPB 4,2 x 13 ZPF 1000	040457	120	FSPII CTF 4,0 x 30 BC	551135	55	FSPII CZF 3,5 x 12 YC	551083	59
FSN-TP 3,5 x 25 ZPF 1000	040594	115	FSPII CTF 4,0 x 35 BC	551136	55	FSPII CZF 3,5 x 16 BC	551077	57
FSN-TP 3,5 x 32 ZPF 1000	040595	115	FSPII CTF 4,0 x 40 BC	551137	55	FSPII CZF 3,5 x 16 YC	551084	59
FSN-TP 3,5 x 32 ZPF 200	040591	115	FSPII CTF 4,5 x 20 BC	551169	55	FSPII CZF 3,5 x 20 BC	551078	57
FSN-TP 3,5 x 45 ZPF 200	040592	115	FSPII CTF 4,5 x 25 BC	551170	55	FSPII CZF 3,5 x 20 YC	551085	59
FSN-TP 3,5 x 45 ZPF 500	040596	115	FSPII CTF 4,5 x 30 BC	551171	55	FSPII CZF 3,5 x 25 BC	551079	57
FSN-TP 3,5 x 55 ZPF 100	040593	115	FSPII CTF 4,5 x 35 BC	551172	55	FSPII CZF 3,5 x 25 YC	551086	59
FSN-TP 3,5 x 55 ZPF 500	040597	115	FSPII CTF 5,0 x 20 BC	551213	55	FSPII CZF 3,5 x 30 BC	551080	57
FSN-TP 3,9 x 70 ZPF 250	040598	115	FSPII CTF 5,0 x 25 BC	551214	55	FSPII CZF 3,5 x 30 YC	551087	59
FSN-TPB 3,5 x 25 F 1000	040599	117	FSPII CTF 5,0 x 30 BC	551215	55	FSPII CZF 3,5 x 35 BC	551081	57
FSN-TPB 3,5 x 35 F 1000	665071	117	FSPII CTF 5,0 x 35 BC	551216	55	FSPII CZF 3,5 x 35 YC	551088	59
FSN-TPB 3,5 x 45 F 1000	665074	117	FSPII CTF 5,0 x 40 BC	551217	55	FSPII CZF 3,5 x 40 BC	551082	57
FSN-TPB 3,5 x 55 F 500	665077	117	FSPII CTF 6,0 x 40 BC	551272	55	FSPII CZF 3,5 x 40 YC	551089	59
FSN-TPBM 3,5 x 25 F 1000	040613	117	FSPII CTF 6,0 x 50 BC	551273	55	FSPII CZF 3,5 x 45 YC	551090	59
FSN-TPBM 3,5 x 35 F 1000	665093	117	FSPII CTP 3,5 x 40 BC	551075	54	FSPII CZF 4,0 x 16 BC	551118	57
FSN-TPBM 3,5 x 45 F 1000	665094	117	FSPII CTP 4,0 x 30 BC	551110	54	FSPII CZF 4,0 x 16 YC	551124	59
FSN-TPD 3,5 x 25 F 1000	040512	116	FSPII CTP 4,0 x 35 BC	551111	54	FSPII CZF 4,0 x 20 BC	551119	57
FSN-TPD 3,5 x 35 F 1000	665001	116	FSPII CTP 4,0 x 40 BC	551112	54	FSPII CZF 4,0 x 20 YC	551125	59
FSN-TPD 3,5 x 45 F 1000	665002	116	FSPII CTP 4,0 x 45 BC	551114	54	FSPII CZF 4,0 x 25 BC	551120	57
FSN-TPD 3,5 x 55 F 1000	665003	116	FSPII CTP 4,0 x 50 BC	551115	54	FSPII CZF 4,0 x 25 YC	551126	59
FSN-TPD 3,9 x 25 F 1000	665007	116	FSPII CTP 4,0 x 60 BC	551116	54	FSPII CZF 4,0 x 30 BC	551121	57
FSN-TPD 3,9 x 30 F 1000	665011	116	FSPII CTP 4,0 x 70 BC	551117	54	FSPII CZF 4,0 x 30 YC	551127	59
FSN-TPD 3,9 x 35 F 1000	665015	116	FSPII CTP 4,5 x 40 BC	551149	54	FSPII CZF 4,0 x 35 BC	551122	57
FSN-TPD 3,9 x 45 F 1000	665019	116	FSPII CTP 4,5 x 45 BC	551150	54	FSPII CZF 4,0 x 35 YC	551128	59
FSN-TPD 3,9 x 55 F 600	665022	116	FSPII CTP 4,5 x 50 BC	551151	54	FSPII CZF 4,0 x 40 BC	551123	57
FSN-TPDM 3,5 x 25 F 1000	040603	116	FSPII CTP 4,5 x 60 BC	551152	54	FSPII CZF 4,0 x 40 YC	551129	59
FSN-TPDM 3,5 x 35 F 1000	665088	116	FSPII CTP 4,5 x 70 BC	551153	54	FSPII CZF 4,0 x 45 YC	551130	59
FSN-TPDM 3,5 x 45 F 1000	665089	116	FSPII CTP 4,5 x 80 BC	551154	54	FSPII CZF 4,0 x 50 YC	551131	59
FSN-TPG 3,9 x 19 F 1000	665095	118	FSPII CTP 5,0 x 100 BC	551199	54	FSPII CZF 4,5 x 16 YC	551161	59
FSN-TPG 3,9 x 22 F 1000	665081	118	FSPII CTP 5,0 x 120 BC	551200	54	FSPII CZF 4,5 x 20 BC	551155	57
FSN-TPG 3,9 x 30 F 1000	665098	118	FSPII CTP 5,0 x 40 BC	551192	54	FSPII CZF 4,5 x 20 YC	551162	59
FSN-TPG 3,9 x 35 F 1000	665084	118	FSPII CTP 5,0 x 45 BC	551193	54	FSPII CZF 4,5 x 25 BC	551156	57
FSN-TPG 3,9 x 45 F 1000	665101	118	FSPII CTP 5,0 x 50 BC	551194	54	FSPII CZF 4,5 x 25 YC	551163	59
FSN-TPG 3,9 x 55 F 600	665087	118	FSPII CTP 5,0 x 60 BC	551195	54	FSPII CZF 4,5 x 30 BC	551157	57
FSN-TPGM 3,9 x 30 PHF 1000	665103	118	FSPII CTP 5,0 x 70 BC	551196	54	FSPII CZF 4,5 x 30 YC	551164	59
FSN-TPGM 3,9 x 32 PHF 1000	040611	119	FSPII CTP 5,0 x 80 BC	551197	54	FSPII CZF 4,5 x 35 BC	551158	57
FSN-TPGM 3,9 x 41 PHF 1000	040612	119	FSPII CTP 5,0 x 90 BC	551198	54	FSPII CZF 4,5 x 35 YC	551165	59
FSN-TPGM 3,9 x 45 PHF 1000	665104	118	FSPII CTP 6,0 x 100 BC	551253	54	FSPII CZF 4,5 x 40 BC	551159	57
FSN-TPM 3,5 x 25 ZPF 1000	040606	115	FSPII CTP 6,0 x 110 BC	551254	54	FSPII CZF 4,5 x 40 YC	551166	59
FSN-TPM 3,5 x 32 ZPF 1000	040607	115	FSPII CTP 6,0 x 120 BC	551255	54	FSPII CZF 4,5 x 45 BC	551160	57
FSN-TPM 3,5 x 41 ZPF 1000	040609	115	FSPII CTP 6,0 x 140 BC	551257	54	FSPII CZF 4,5 x 45 YC	551167	59
FSN-TPM 3,5 x 45 ZPF 1000	040608	115	FSPII CTP 6,0 x 160 BC	551262	54	FSPII CZF 4,5 x 50 YC	551168	59
FSN-TPM 3,5 x 55 ZPF 1000	040610	115	FSPII CTP 6,0 x 180 BC	551263	54	FSPII CZF 5,0 x 20 BC	551201	57
FSN-TPR 3,9 x 25 F 1000	665045	114	FSPII CTP 6,0 x 200 BC	551264	54	FSPII CZF 5,0 x 20 YC	551207	59
FSN-TPR 3,9 x 30 F 1000	665046	114	FSPII CTP 6,0 x 40 BC	551247	54	FSPII CZF 5,0 x 25 BC	551202	57
FSN-TPR 3,9 x 35 F 1000	665049	114	FSPII CTP 6,0 x 50 BC	551248	54	FSPII CZF 5,0 x 25 YC	551208	59
FSN-TPR 3,9 x 45 F 1000	665052	114	FSPII CTP 6,0 x 60 BC	551249	54	FSPII CZF 5,0 x 30 BC	551203	57
FSN-TPR 3,9 x 55 F 500	665055	114	FSPII CTP 6,0 x 70 BC	551250	54	FSPII CZF 5,0 x 30 YC	551209	59
FSN-TPRM 3,5 x 35 F 1000	665090	114	FSPII CTP 6,0 x 80 BC	551251	54	FSPII CZF 5,0 x 35 BC	551204	57
FSN-TPRM 3,5 x 45 F 1000	665091	114	FSPII CTP 6,0 x 90 BC	551252	54	FSPII CZF 5,0 x 35 YC	551210	59
FSN-TPRM 3,5 x 55 F 1000	665092	114	FSPII CZF 3,0 x 12 BC	551055	57	FSPII CZF 5,0 x 40 BC	551205	57
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