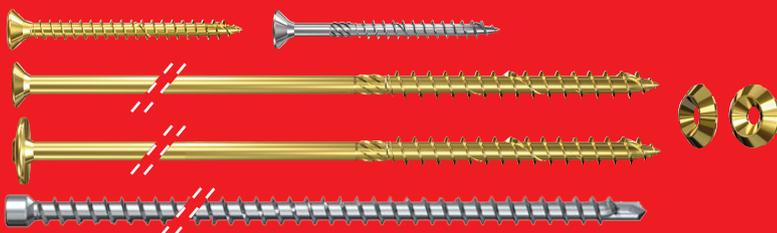




# fischer Power-Fast

Screws for a wide range of timber constructions



# fischer Power-Fast Wood Screw

**fischer Power-Fast** is a unique range of wood screw that packs the same level of innovation that the market has come to expect from the fischer brand. Power-Fast is a premium screw which delivers a vast number of user benefits, and with which fischer has set out to combine the features that were already good about screws and resolve the points which were not.

The combination of distinctive design points has produced an effortlessly, quick to install screw which saves on time, money materials. The extra small screw point guarantees a fast 'bite' as the screw can easily penetrate the wood at the first attempt and there is no need for a pilot hole even in hard wood.

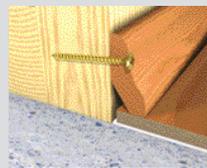
The head recess is designed with extra depth to reduce screwdriver 'cam-out' and drive-in pressure which acts to prevent surface scratches and risk of possible injury. The double countersunk design is calculated to protect against the head twisting off, while the ribs underneath facilitate easier countersink and flush fitting of the screw into wood. When fastening metal fittings the ribs stop excessive turning when they come in contact with the metal.

A double thread positioned at the screw tip and middle quickly removes drilling dust which helps prevent timber splitting, this opens up new construction possibilities as the screws can be set much closer to the edge than has previously been possible.

Meanwhile the water-repellent fischer-branded packs can be opened in one of two ways, either as a chute from the front or from above, differentiating the fischer screw range from that of competitors. The packs also feature a large viewing window, so that the product can be seen externally, and they benefit from full product details printed on the pack.

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## Wood Screw Power-Fast



Countersunk head

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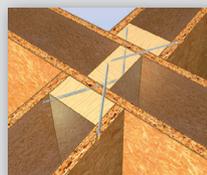
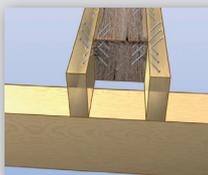
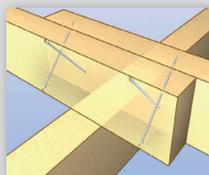
## Construction screws



Countersunk head  
Washer  
Flange head

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## Powerful screws



Fully threaded screw  
Cylinder head

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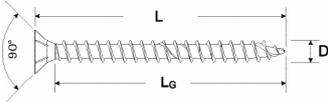
# fischer Power-Fast Wood Screw



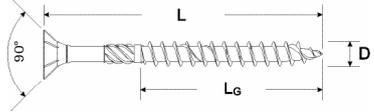
## fischer Wood screws

- Yellow zinc plated
- Countersunk head
- Cross drive PZ
- High performance wax coating

### Full thread

Thread- Ø D [mm]	Length L [mm]	Thread Length L <sub>G</sub> [mm]	Actuation 	Content pcs.	Art. No.	Type
 						
<b>3,5</b>	16	12	PZ2	200	<b>653852</b>	FPF-SZ 3,5 x 16 YZF 200
	20	16	PZ2	200	<b>653853</b>	FPF-SZ 3,5 x 20 YZF 200
	25	21	PZ2	200	<b>653854</b>	FPF-SZ 3,5 x 25 YZF 200
	30	26	PZ2	200	<b>653855</b>	FPF-SZ 3,5 x 30 YZF 200
	35	31	PZ2	300	<b>653096</b>	FPF-SZ 3,5 x 35 YZF 300
<b>4,0</b>	20	15	PZ2	200	<b>653858</b>	FPF-SZ 4,0 x 20 YZF 200
	25	20	PZ2	200	<b>653859</b>	FPF-SZ 4,0 x 25 YZF 200
	30	25	PZ2	200	<b>653860</b>	FPF-SZ 4,0 x 30 YZF 200

### Partial thread

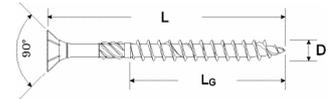
Thread- Ø D [mm]	Length L [mm]	Thread Length at Partial Thread L <sub>G</sub> [mm]	Actuation 	Content pcs.	Art. No.	Type
 						
<b>4,0</b>	35	24	PZ2	200	<b>653861</b>	FPF-SZ 4,0 x 35 YZP 200
	40	24	PZ2	200	<b>653862</b>	FPF-SZ 4,0 x 40 YZP 200
	45	30	PZ2	200	<b>653863</b>	FPF-SZ 4,0 x 45 YZP 200
	50	30	PZ2	200	<b>653176</b>	FPF-SZ 4,0 x 50 YZP 200
	60	36	PZ2	200	<b>653182</b>	FPF-SZ 4,0 x 60 YZP 200
	70	42	PZ2	200	<b>653186</b>	FPF-SZ 4,0 x 70 YZP 200
<b>4,5</b>	50	30	PZ2	200	<b>653230</b>	FPF-SZ 4,5 x 50 YZP 200
	60	36	PZ2	200	<b>653237</b>	FPF-SZ 4,5 x 60 YZP 200
	70	42	PZ2	200	<b>653241</b>	FPF-SZ 4,5 x 70 YZP 200
	80	50	PZ2	200	<b>653246</b>	FPF-SZ 4,5 x 80 YZP 200

# fischer Power-Fast

## Wood screw



### Partial thread



Thread-Ø D [mm]	Length L [mm]	Thread Length (at partial thread) L <sub>G</sub> [mm]	Actuation 	Content pcs.	Art. No.	Type
<b>5,0</b>						
	40	24	PZ2	200	<b>653269</b>	FPF-SZ 5,0 x 40 YZP 200
	50	30	PZ2	200	<b>653281</b>	FPF-SZ 5,0 x 50 YZP 200
	60	36	PZ2	100	<b>653864</b>	FPF-SZ 5,0 x 60 YZP 100
	70	42	PZ2	100	<b>653294</b>	FPF-SZ 5,0 x 70 YZP 100
	80	50	PZ2	100	<b>653298</b>	FPF-SZ 5,0 x 80 YZP 100
	90	60	PZ2	100	<b>653301</b>	FPF-SZ 5,0 x 90 YZP 100
	100	60	PZ2	100	<b>653305</b>	FPF-SZ 5,0 x 100 YZP 100
	120	70	PZ2	100	<b>653312</b>	FPF-SZ 5,0 x 120 YZP 100
<b>6,0</b>						
	50	30	PZ3	100	<b>653337</b>	FPF-SZ 6,0 x 50 YZP 100
	60	36	PZ3	100	<b>653344</b>	FPF-SZ 6,0 x 60 YZP 100
	80	50	PZ3	100	<b>653352</b>	FPF-SZ 6,0 x 80 YZP 100
	100	60	PZ3	100	<b>653360</b>	FPF-SZ 6,0 x 100 YZP 100
	120	70	PZ3	100	<b>653367</b>	FPF-SZ 6,0 x 120 YZP 100
	140	70	PZ3	50	<b>653373</b>	FPF-SZ 6,0 x 140 YZP 50
	150	70	PZ3	50	<b>653375</b>	FPF-SZ 6,0 x 150 YZP 50
	160	70	PZ3	25	<b>653380</b>	FPF-SZ 6,0 x 160 YZP 25

### FPF - Assortment Boxes



Thread-Ø D [mm]	Length sizes [mm]	Min order qty	Content [Pcs]	Art. No.	Type
Assorted		1			
	Assorted	1	2300 screws	667001	FPF M 2300 1)
	Assorted	1	1350 screws	667002	FPF M 1350 2)
	Assorted	1	975 screws & 450 plugs	667003	FPF WP/M 975 3)
	Assorted	1	245 screws	667004	FPF P 245 4)

**Note:** Boxes 1 to 3 made of metal, box 4 made of durable plastic. For screw sizes please refer to the table below

#### Assortment screw & plug sizes

FPF M 2300	3.5x16, 3.5x20, 3.5x25, 3.5x30, 3.5x40, 3.5x50, 4.0x25, 4.0x30, 4.0x35, 4.0x40, 4.5x50, 5.0x50, 5.0x60, 5.0x70, 6.0x60, 6.0x100
FPF M 1350	3.5x25, 3.5x30, 3.5x40, 4.0x25, 4.0x30, 4.0x40, 4.0x50, 5.0x40, 5.0x50, 5.0x60, 5.0x80
FPF WP/M 975	Screws: 4.0x25, 4.0x30, 4.0x40, 4.0x50, 5.0x40, 5.0x60, 5.0x80. Plugs: UX5, UX6, UX8
FPF P 245	3.5x16, 3.5x30, 4.0x30, 4.0x35, 4.0x40, 4.5x50, 5.0x60

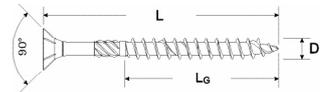
# fischer Power-Fast Wood screw A2



## fischer Power-Fast Screw A2

- Stainless steel A2
- Countersunk head
- Cross drive PZ
- Partial thread
- High performance wax coating

Screws with partial thread, from 50 mm: with milling ribs on shank



Thread- Ø D [mm]	Length L [mm]	Thread Length at Partial Thread L <sub>G</sub> [mm]	Actuation 	Content pcs.	Art. No.	Type
<b>3,5</b>						
	20	16	PZ2	300	<b>657149</b>	FPF-SZ 3,5 x 20 A2F 300
	25	21	PZ2	300	<b>657151</b>	FPF-SZ 3,5 x 25 A2F 300
<b>4,0</b>						
	20	15	PZ2	100	<b>657160</b>	FPF-SZ 4,0 x 20 A2F 100
	25	20	PZ2	300	<b>657163</b>	FPF-SZ 4,0 x 25 A2F 300
	30	25	PZ2	300	<b>657166</b>	FPF-SZ 4,0 x 30 A2F 300
	40	24	PZ2	200	<b>657174</b>	FPF-SZ 4,0 x 40 A2P 200
	50	30	PZ2	200	<b>657180</b>	FPF-SZ 4,0 x 50 A2P 200
	60	36	PZ2	100	<b>657181</b>	FPF-SZ 4,0 x 60 A2P 100
	70	42	PZ2	100	<b>657182</b>	FPF-SZ 4,0 x 70 A2P 100
<b>5,0</b>						
	40	24	PZ2	200	<b>657215</b>	FPF-SZ 5,0 x 40 A2P 100
	50	30	PZ2	200	<b>657221</b>	FPF-SZ 5,0 x 50 A2P 100
	60	36	PZ2	100	<b>657225</b>	FPF-SZ 5,0 x 60 A2P 100
	70	42	PZ2	100	<b>657227</b>	FPF-SZ 5,0 x 70 A2P 50
	80	50	PZ2	100	<b>657230</b>	FPF-SZ 5,0 x 80 A2P 50
	100	60	PZ2	50	<b>657235</b>	FPF-SZ 5,0 x 100 A2P 50
<b>6,0</b>						
	40	24	PZ3	100	<b>657237</b>	FPF-SZ 6,0 x 40 A2P 100
	50	30	PZ3	100	<b>657241</b>	FPF-SZ 6,0 x 50 A2P 100
	60	36	PZ3	100	<b>657244</b>	FPF-SZ 6,0 x 60 A2P 100
	70	42	PZ3	100	<b>657247</b>	FPF-SZ 6,0 x 70 A2P 100
	80	50	PZ3	100	<b>657250</b>	FPF-SZ 6,0 x 80 A2P 100
	100	60	PZ3	100	<b>657255</b>	FPF-SZ 6,0 x 100 A2P 100
	120	70	PZ3	100	<b>657258</b>	FPF-SZ 6,0 x 120 A2P 100

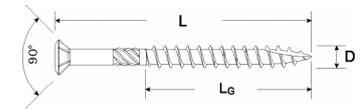
# fischer Power-Fast Decking screw A2



## fischer Decking Screw A2

- Stainless steel A2
- Slim countersunk head
- TX-Star recess
- Partial thread
- High performance wax coating
- Suitable for external use
- Suitable for \*hardwood and softwood decking
- \* Pre-drilling recommended

Screws with partial thread, from 50 mm: with milling ribs on shank



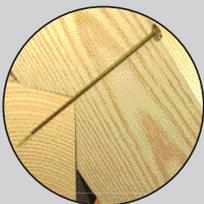
Thread- Ø D [mm]	Length L [mm]	Thread Length at Partial Thread L <sub>G</sub> [mm]	Actuation 	Content pcs.	Art. No.	Type
<b>5,0</b>	40	24	TX20	200	<b>660602</b>	FTS-ST 5,0 x 40 A2P
	50	30	TX20	200	<b>660604</b>	FTS-ST 5,0 x 50 A2P
	60	36	TX20	150	<b>660607</b>	FTS-ST 5,0 x 60 A2P
	70	42	TX20	100	<b>660610</b>	FTS-ST 5,0 x 70 A2P
	80	50	TX20	100	<b>660612</b>	FTS-ST 5,0 x 80 A2P

# fischer Power-Fast Construction Wood Screws



## Countersunk & Flange head, partially threaded screws for a range of timber applications

- Timber frame construction
- Roof insulation systems
- Rafter-purlin connections
- Joining of timber components



### Countersunk head



For timber constructions such as: post construction, timber frames, timber houses, carports, conservatories and playground equipment.



### Flange head



Similar applications to countersunk timber construction screws. High pull-through resistance.

# fischer Power-Fast Construction wood Screws with 'easy glide' coating



## Advantages at a glance:

### Easy on your tools

The deep recess ensures a secure grip of the screwdriver in the inner star TX drive.

### Minimum risk of splitting

The double threads reduce the risk of the wood splitting. Screwing close to the edge without pre-drilling is not a problem.

### High load capacity

The combination of a long thread, countersunk screw and special washer offers the user maximum load bearing capacity.

### Saves valuable time

The fischer Power-Fast high-performance glide coating effectively reduces friction.

### With flange head

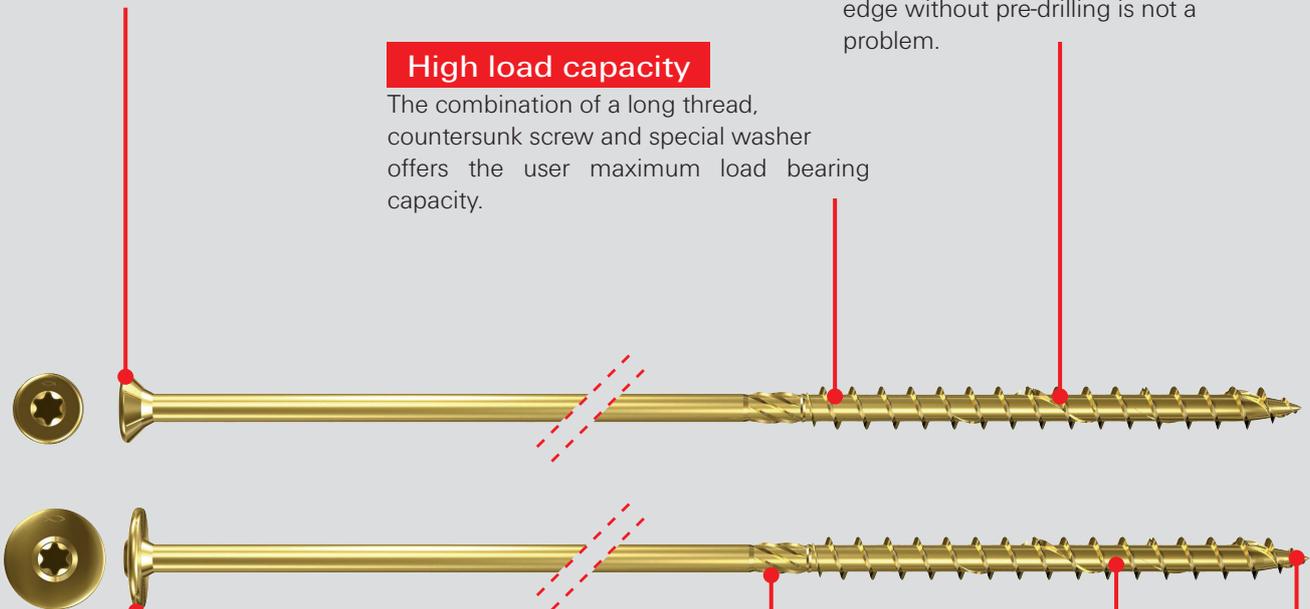
The extra large flanged head enables significantly higher load transfer.

### Glides in easily

The shank ribs considerably reduce drive-in resistance. For energy saving, force-free work.

### Fast Bite

A thread right up into the tip provides a fast bite and prevents the screw from wobbling during positioning.



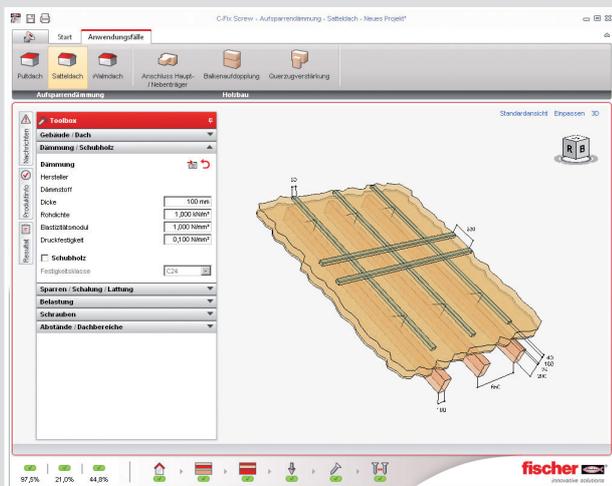
# fischer Power-Fast Construction wood screws with extra safety



## The self-tapping construction screw with European Technical Approval...

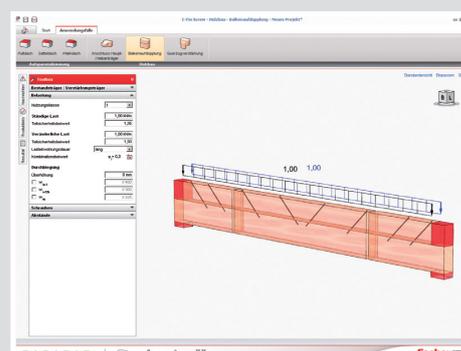
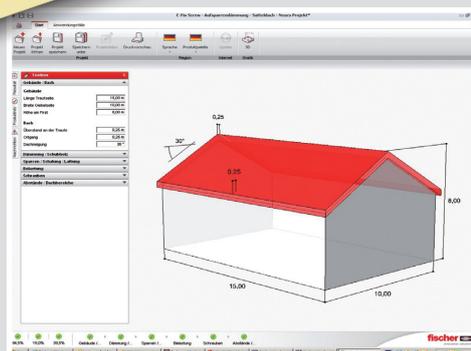
- For partially threaded screws with a diameter of 8.0 mm and 10.0 mm
- The approval also regulates the screw fitting in pre-drilled holes.
- The approval allows a screw-in angle against the grain of the wood between 0 to 90 degrees.
- Low edge and axial spacing also without pre-drilling.

## ...and the fischer calculation programme.

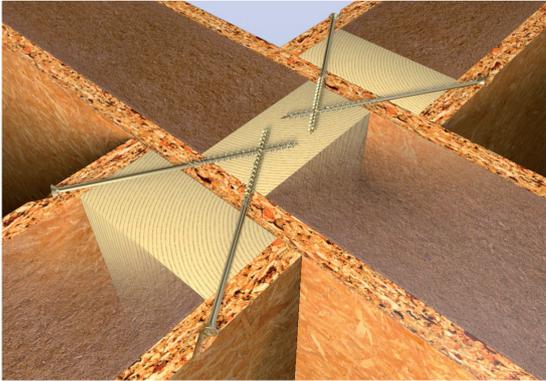


- **Fast and precise** conclusion of the size and number of screws required.
- **Calculations show potential savings** compared with the usual method of working - see for yourself!
- **For calculating fastenings** of roof insulation systems,
  - main and secondary beam connections
  - cladding / carrier reinforcements
  - crosscut securing.
- Configurations according to ETA and Eurocode 5
- Download now free of charge from: [www.fischer.co.uk](http://www.fischer.co.uk) ( Home >> Support >> Software )

FREE Download:  
[www.fischer.co.uk](http://www.fischer.co.uk)

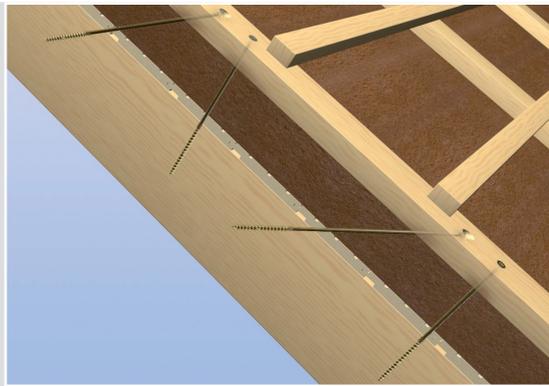


# A variety of potential applications in timber construction.



## Timber frame construction

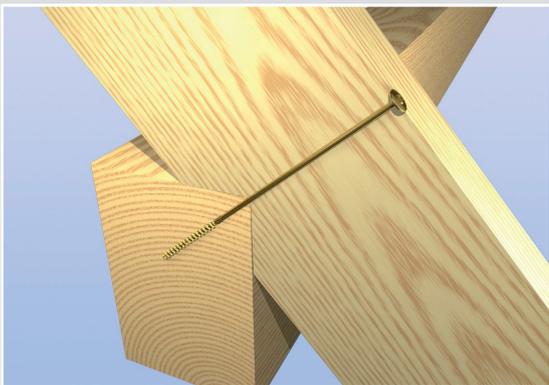
Effective joining in timber frame construction of wall elements, timber panelling or finished construction. Pre-drilling is not necessary – but permissible according to the ETA.



## Roof insulation systems

Fastening of counter battens and counter plates according to the European Technical Approval.

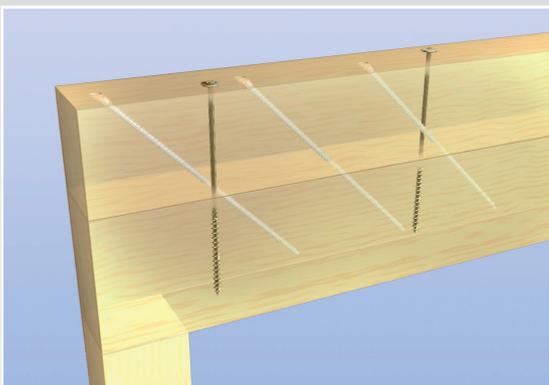
A corresponding module for determining the distances and number of screws is included in the dimensioning software.



## Rafter-purlin connections

When using the flange head screws, high wind loads can be accommodated and distorted timbers drawn in.

Time-intensive joint nail plates can be omitted.



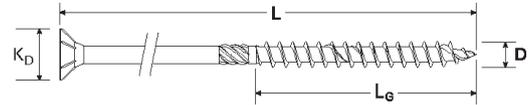
## Joining timber components

Flexible interlocked components such as carrier reinforcements/ doublers and fully threaded screws are often used for connections because they provide very powerful, strong joints. Before the components are connected to each other, they must be drawn together to eliminate unwanted gaps, preventing additional deformation. Nail plates, clamps or bracing underneath may be omitted if tightening the joint is performed using powerful partially threaded flange head screws.

# fischer Power-Fast Construction Wood Screws - The range



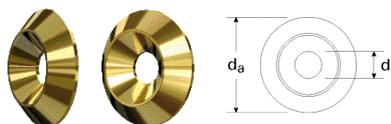
FPF-ST YZP



Thread- Ø D [mm]	Length L [mm]	Thread length L <sub>G</sub> [mm]	Head-Ø K <sub>D</sub> [mm]	Drive	Art. no.	Pack content [pcs.]
<b>8.0</b>						
	80	50	14.8	TX40	<b>659189</b>	75
	100	50	14.8	TX40	<b>659190</b>	75
	120	75	14.8	TX40	<b>659191</b>	75
	140	75	14.8	TX40	<b>659192</b>	75
	160	75	14.8	TX40	<b>659193</b>	75
	180	75	14.8	TX40	<b>659194</b>	75
	200	100	14.8	TX40	<b>659195</b>	75
	220	100	14.8	TX40	<b>659196</b>	75
	240	100	14.8	TX40	<b>659197</b>	75
	260	100	14.8	TX40	<b>659198</b>	75
	280	100	14.8	TX40	<b>659199</b>	75
	300	100	14.8	TX40	<b>659200</b>	75
	320	100	14.8	TX40	<b>659201</b>	50
	340	100	14.8	TX40	<b>659202</b>	50
	360	100	14.8	TX40	<b>659203</b>	50
	380	100	14.8	TX40	<b>659204</b>	50
	400	100	14.8	TX40	<b>659205</b>	50
<b>10.0</b>						
	80	52	18.6	TX40	<b>659208</b>	50
	100	52	18.6	TX40	<b>659209</b>	50
	120	80	18.6	TX40	<b>659210</b>	50
	140	80	18.6	TX40	<b>659211</b>	50
	160	80	18.6	TX40	<b>659212</b>	50
	180	80	18.6	TX40	<b>659213</b>	50
	200	80	18.6	TX40	<b>659214</b>	50
	220	80	18.6	TX40	<b>659215</b>	50
	240	80	18.6	TX40	<b>659216</b>	50
	260	80	18.6	TX40	<b>659217</b>	50
	280	80	18.6	TX40	<b>659218</b>	50
	300	80	18.6	TX40	<b>659219</b>	50
	320	80	18.6	TX40	<b>659220</b>	50
	340	80	18.6	TX40	<b>659221</b>	50
	360	80	18.6	TX40	<b>659222</b>	50
	380	80	18.6	TX40	<b>659223</b>	50
	400	80	18.6	TX40	<b>659224</b>	50

## Washers for countersunk heads

- Galvanised, yellow zinc-plated
- For higher pulling forces

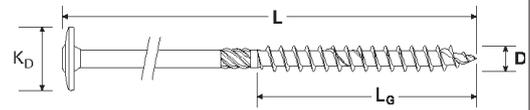


Inner Ø d <sub>i</sub> [mm]	Outer Ø d <sub>a</sub> [mm]	Art. no.	Content [pcs.]
8.7	25.5	<b>666169</b>	50
11.2	25.5	<b>666170</b>	50

# fischer Power-Fast Construction Woodscrew - The range



FPF-WT YZP



Thread-Ø D [mm]	Length L [mm]	Thread length L <sub>G</sub> [mm]	Head-Ø K <sub>D</sub> [mm]	Drive	Art. no.	Packaging content [pcs.]
<b>8.0</b>						
	80	50	21.0	TX40	<b>659244</b>	50
	100	50	21.0	TX40	<b>659245</b>	50
	120	75	21.0	TX40	<b>659246</b>	50
	140	75	21.0	TX40	<b>659247</b>	50
	160	75	21.0	TX40	<b>659248</b>	50
	180	75	21.0	TX40	<b>659249</b>	50
	200	100	21.0	TX40	<b>659250</b>	50
	220	100	21.0	TX40	<b>659251</b>	50
	240	100	21.0	TX40	<b>659252</b>	50
	260	100	21.0	TX40	<b>659253</b>	50
	280	100	21.0	TX40	<b>659254</b>	50
	300	100	21.0	TX40	<b>659255</b>	50
	320	100	21.0	TX40	<b>659256</b>	50
	340	100	21.0	TX40	<b>659257</b>	50
	360	100	21.0	TX40	<b>659258</b>	50
	380	100	21.0	TX40	<b>659259</b>	50
	400	100	22.0	TX40	<b>659260</b>	50

Thread-Ø D [mm]	Length L [mm]	Thread length L <sub>G</sub> [mm]	Head-Ø K <sub>D</sub> [mm]	Drive	Art. no.	Packaging content [pcs.]
<b>10.0</b>						
	100	52	27.0	TX40	<b>659264</b>	50
	120	80	27.0	TX40	<b>659265</b>	50
	140	80	27.0	TX40	<b>659266</b>	50
	160	80	27.0	TX40	<b>659267</b>	50
	180	80	27.0	TX40	<b>659268</b>	50
	200	80	27.0	TX40	<b>659269</b>	50
	220	80	27.0	TX40	<b>659270</b>	50
	240	80	27.0	TX40	<b>659271</b>	50
	260	80	27.0	TX40	<b>659272</b>	50
	280	80	27.0	TX40	<b>659273</b>	50
	300	80	27.0	TX40	<b>659274</b>	50
	320	80	27.0	TX40	<b>659275</b>	50
	340	80	27.0	TX40	<b>659276</b>	50
	360	80	27.0	TX40	<b>659277</b>	50
	380	80	27.0	TX40	<b>659278</b>	50
	400	80	27.0	TX40	<b>659279</b>	50

# fischer Power-Full

## Powerful Construction Wood screw



## fischer Power-Full

Full-threaded screw for load-bearing  
timber connections



# The Powerful One!

## For load-bearing timber connections

### For the economical connection and reinforcement of load-bearing timber constructions:

- Cross-tensional reinforcement, e.g. dormer windows
- Cross-pressure reinforcement
- Ring beam/joist
- Main/subframe connections
- Timber refurbishment projects



### Advantages at a glance:

#### Minimum risk of splitting

- The narrow cylinder head is hardly visible and reduces expansion pressure.
- The head can be smoothly embedded with ease.

#### High screw protection

- The special coating safeguards protection against corrosion.
- The special zinc coating prevents hydrogen embrittlement during manufacture.

#### Maximum load-bearing capacity

- The integrated thread, which runs the entire screw length, ensures a maximum transfer of energy.

#### Saves time and materials

- The tip requires no pre-drilling and reduces 'wobble' when screwed in.
- Reduced risk of wood splitting and drive-in resistance.
- Reduced edge and axial spacings are made possible.



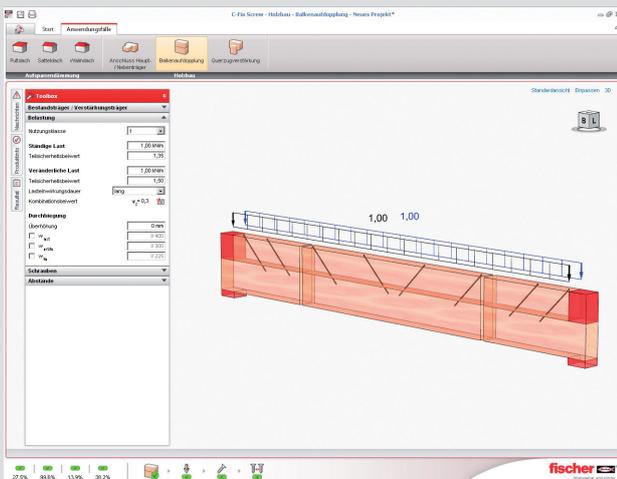
# fischer Power-Full. Safety and service....



## The self-tapping construction screw with European Technical Approval...

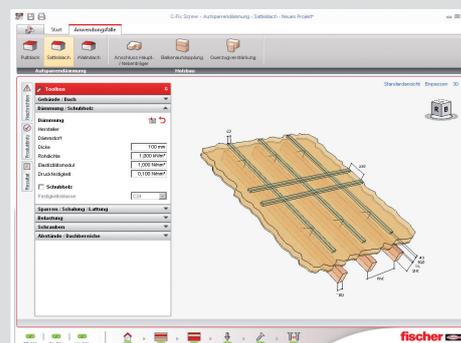
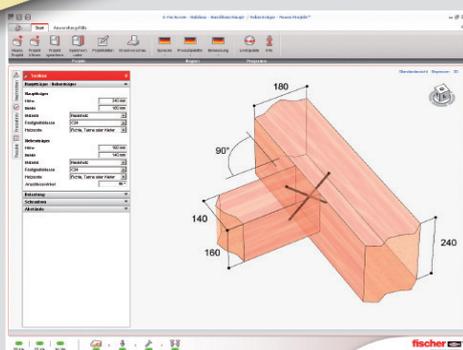
- For fully threaded screws with a diameter of 6.5, 8.0 mm and 10.0 mm
- The approval allows a screw-in angle against the grain of the wood between 0 to 90 degrees.
- The approval also regulates the screw fitting in pre-drilled holes.
- Low edge and axial spacing without pre-drilling.

## ...and the fischer calculation programme.



- **Fast and precise** conclusion of the size and number of screws required.
- **Calculations show potential savings** compared with the usual method of working - see for yourself!
- **For calculating fastenings** of roof insulation systems,
  - main and secondary beam connections
  - cladding / carrier reinforcements
  - crosscut securing.
- Configurations according to ETA and Eurocode 5
- Download now free of charge from: [www.fischer.co.uk](http://www.fischer.co.uk) ( Home >> Support >> Software )

FREE Download:  
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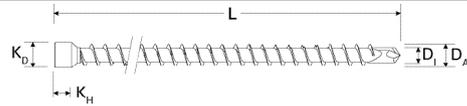


# fischer Power-Full

## The Range



FPF-ZT ZPF



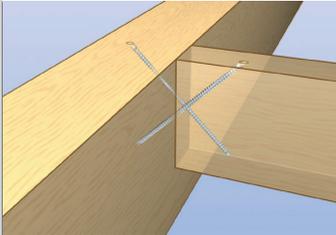
Thread- Ø	Bead wire- Ø	Length	Head diameter	Height of head	Actuation	Art No.	Content	Order quantity	GTIN (EAN-Code)
$D_A$ [mm]	$D_I$ [mm]	L [mm]	$K_D$ [mm]	$K_H$ [mm]			[pieces]	[pieces]	
<b>6,5</b>									
4,5	120	8	5,5	TX30	<b>659 299</b>	100	100	(1 x 100)	40 48962 13506 0
4,5	140	8	5,5	TX30	<b>659 300</b>	100	100	(1 x 100)	40 48962 13507 7
4,5	160	8	5,5	TX30	<b>659 301</b>	100	100	(1 x 100)	40 48962 13508 4
4,5	195	8	5,5	TX30	<b>659 302</b>	100	100	(1 x 100)	40 48962 13509 1
<b>8,0</b>									
5,2	155	10	7	TX40	<b>659 303</b>	50	50	(1 x 50)	40 48962 13510 7
5,2	195	10	7	TX40	<b>659 304</b>	50	50	(1 x 50)	40 48962 13511 4
5,2	220	10	7	TX40	<b>659 305</b>	50	50	(1 x 50)	40 48962 13512 1
5,2	245	10	7	TX40	<b>659 306</b>	50	50	(1 x 50)	40 48962 13513 8
5,2	295	10	7	TX40	<b>659 307</b>	50	50	(1 x 50)	40 48962 13514 5
5,2	330	10	7	TX40	<b>659 308</b>	50	50	(1 x 50)	40 48962 13515 2
5,2	375	10	7	TX40	<b>659 309</b>	50	50	(1 x 50)	40 48962 13516 9
5,2	400	10	7	TX40	<b>659 310</b>	50	50	(1 x 50)	40 48962 13517 6
<b>10,0</b>									
6,0	300	16	6,5	TX50	<b>659 311</b>	25	25	(1 x 25)	40 48962 13518 3
6,0	330	16	6,5	TX50	<b>659 312</b>	25	25	(1 x 25)	40 48962 13519 0
6,0	360	16	6,5	TX50	<b>659 313</b>	25	25	(1 x 25)	40 48962 13520 6
6,0	400	16	6,5	TX50	<b>659 314</b>	25	25	(1 x 25)	40 48962 13521 3
6,0	450	16	6,5	TX50	<b>659 315</b>	25	25	(1 x 25)	40 48962 13522 0
6,0	500	16	6,5	TX50	<b>659 316</b>	25	25	(1 x 25)	40 48962 13523 7
6,0	550	16	6,5	TX50	<b>659 317</b>	25	25	(1 x 25)	40 48962 13524 4
6,0	600	16	6,5	TX50	<b>659 318</b>	25	25	(1 x 25)	40 48962 13525 1

# fischer Power-Full

## For a range of timber constructions

### Standard Application

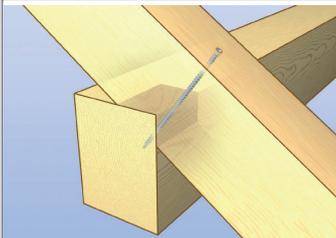
### The Power-full Solution



#### Ring beam / Joist connections

Until now, ring beam and joist connections have been made using joist hangers. This creates a complicated, visible and, in part, unattractive connection.

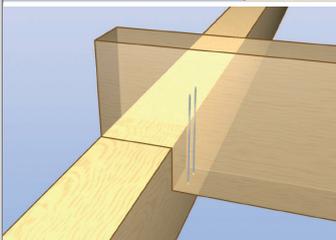
Two fischer Power-Full fully threaded screws are screwed in (and crossed) at a 45° degree angle. The screws now bear the shear load and the ring beams and joists are quickly and invisibly connected.



#### Rafter-purlin connections

Rafters and purlins are often connected with either nails (less capable of bearing loads) or partially threaded screws. Labour intensive joint nail plates are also a popular choice.

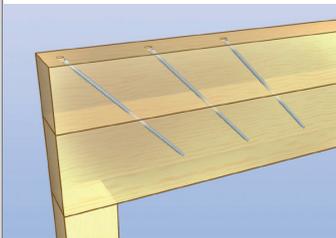
The fischer Power-Full screw, which are screwed into the rafters vertically, significantly increases the load-bearing capacity. A further advantage is represented by the time saved during installations. Labour intensive joint nail plates are not required.



#### Reinforcement notches on joists

Non-reinforced notches carry the risk of cracking /failure at the overlapped bearing. The notches are strengthened with glued wood-based panels or glued in threaded rods.

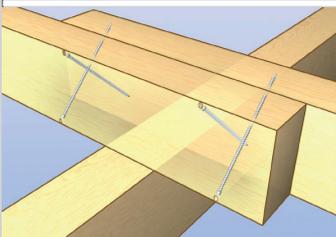
Cross-tensional reinforcement using fischer Power-Full screws significantly increases the load bearing capacity. The small screw heads ensure an attractive flush surface finish that is barely visible.



#### Double joists/ Reinforcements

The retrospective increase to the permanent roof load can lead to serious bowing and increased vibration problems for old timber beam ceilings, particularly in old buildings. This problem is resolved by „anchoring“ the beams to one another, e.g. using cap timber or specially designed anchors.

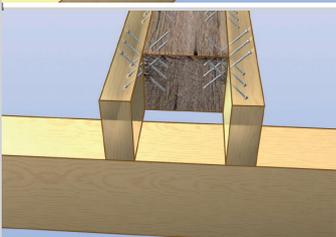
The existing beams are connected to an additional timber beam using Power-Full screws that are screwed in at an angle. This increases the load-bearing capacity and reduces deformation.



#### Coupling Joists & Rafters

Coupling joists for large roofs are often connected to one another in a complex procedure requiring specially designed anchors and threaded bolts.

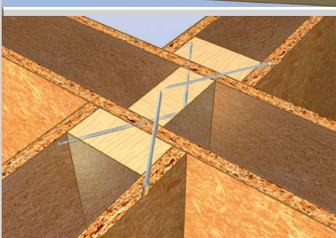
Coupling joists can be connected quickly and easily using Power-Full screws making the joints resistant to bending. Large roofs can now be created in a more cost-effective way.



#### Restoration / Joist repair

In old buildings many of the timber joists / heads of beams become damaged. Whenever possible, harm to the timbers is restored using specially designed anchors although sometimes the timber has to be completely dismantled.

Load-bearing beams are quickly and easily secured with side reinforcement brackets in relation to the nature of the job, there is no need for a costly replacement of the damaged timber.



#### Connecting elements / Timber frame constructions

The elements are tightened and connected using lots of partially threaded screws.

Full-thread screws can be used to transfer higher tension / pressure and shear loads with fewer screws. For the best connection the screws are best set at an angle of 30° – 90° degrees.

# fischer FPB Profi-bit

## Drill bits

### Advantages

- The bit is made from special high grade steel (s2 mod.) which guarantees a long service life with maximum cost-effectiveness.
- The accurate shape provides an exact fit.
- The profile shape ensures ideal transfer of force and prevents damage to the screw head, even with high torque levels.
- They are available in a number of internal drives such as: PH/ PZ / TX star recess
- Also suitable for 1/4" drives



Length L [mm]	Version	Content pcs.	Art. No.	Type
25	FPB TX20/B10	10	<b>508473</b>	TX star recess
25	FPB TX25/B10	10	<b>508474</b>	TX star recess
25	FPB TX 30/B10	10	<b>508476</b>	TX star recess
25	FPB TX 40/B10	10	<b>508477</b>	TX star recess
25	FPB TX 50/B10	10	<b>508478</b>	TX star recess
25	PH1/B10	10	<b>508479</b>	Cross drive PH
25	PH2/B10	10	<b>508480</b>	Cross drive PH
25	PH3/B10	10	<b>508481</b>	Cross drive PH
25	PZ1/B10	10	<b>508482</b>	Cross drive PZ
25	PZ2/B10	10	<b>508483</b>	Cross drive PZ
25	PZ3/B10	10	<b>508484</b>	Cross drive PZ
25	PZ4/B5	5	<b>508485</b>	Cross drive PZ

### General Notice

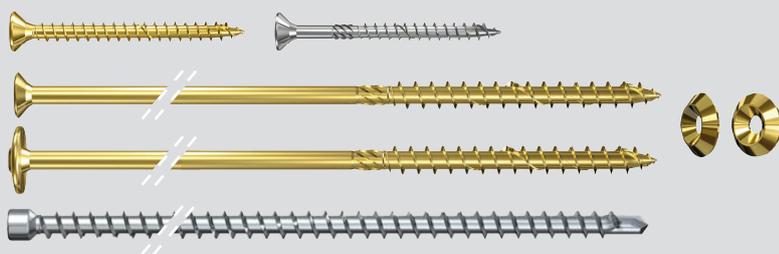
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E-mail: [technical@fischer.co.uk](mailto:technical@fischer.co.uk)

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