

TTZNFS Träskruv Försänkt Impreg®+

TTZNFS Försänkta träskruvar i Impreg®+ utförande för applikationer i trä. Skruvarna har en tandad gänga för att reducera indrivningsmomentet och en skärande spets som reducerar risken för flis- och sprickbildning. Skruvlängder från 80 mm har en stamfräs som reducerar indrivningsmomentet ytterligare.

OBS säljs i sverige under varumärket Gunnebo Fastening. För mer info besök gunnebofastening.se

Egenskaper

Material

- Impreg+ ytbehandling (C4)

Egenskaper

- Försänkt huvud med rillor under huvudet som skapar en snygg försänkning
- Skärande spets för snabb indrivning och minimal risk för flis- och sprickbildning
- Stamfräs reducerar indrivningsmomentet

Användning

Applikationer

- Anslutning av virkesdelar i trä

Use on

-



TTZNFS
Träskruv Försänkt Impreg®+

Teknisk data

TTZNFS Träskruv Försänkt Impreg®+

Mått



Art. nr.	Art. nr.	Dimensioner [mm]							Box Quantity
		d	l	d _h	d ₁	l _g	bit	Thread	
TTZNFS3.0X16	76562	3	16	6	-	11	T-10	FT	200
TTZNFS3.0X20	76568		20	6	-	15	T-10	FT	200
TTZNFS3.0X25	76569		25	6	-	20	T-10	FT	200
TTZNFS3.0X30	76570		30	6	-	25	T-10	FT	200
TTZNFS3.5X16*	74476	3.5	16	7	2.2	10	T-15	FT	200
TTZNFS3.5X20*	74477		20	7	2.2	14	T-15	FT	200
TTZNFS3.5X25	76571		25	7	2.2	20	T-15	FT	200
TTZNFS3.5X30*	74478		30	7	2.2	24	T-15	FT	200
TTZNFS3.5X35	76572		35	7	2.2	30	T-15	FT	200
TTZNFS3.5X40	76573		40	7	2.2	35	T-15	FT	200
TTZNFS3.5X50	76574		50	7	2.2	30	T-15	PT	200
TTZNFS4.0X20*	74479	4	20	8	2.5	10	T-20	FT	200
TTZNFS4.0X25	76575		25	8	2.5	20	T-20	FT	200
TTZNFS4.0X30*	74480		30	8	2.5	20	T-20	FT	200
TTZNFS4.0X35	76576		35	8	2.5	30	T-20	FT	200
TTZNFS4.0X40	76577		40	8	2.5	35	T-20	FT	200
TTZNFS4.0X45	76578		45	8	2.5	29	T-20	PT	200
TTZNFS4.0X50	76579		50	8	2.5	30	T-20	PT	200
TTZNFS4.0X60	76580		60	8	2.5	35	T-20	PT	200
TTZNFS4.0X70	76581		70	8	2.5	40	T-20	PT	100
TTZNFS4.5X25	74481		4.5	25	8.4	2.8	20	T-20	FT
TTZNFS4.5X30	74482	30		8.4	2.8	25	T-20	FT	200
TTZNFS4.5X35	76582	35		8.4	2.8	30	T-20	FT	200
TTZNFS4.5X40	74483	40		8.4	2.8	35	T-20	PT	200
TTZNFS4.5X45	76561	45		8.4	2.8	29	T-20	PT	200
TTZNFS4.5X50	74484	50		8.4	2.8	30	T-20	PT	200
TTZNFS4.5X60	74485	60		8.4	2.8	35	T-20	PT	200
TTZNFS4.5X70	74486	70		8.4	2.8	40	T-20	PT	100
TTZNFS4.5X80	76563	80		8.4	2.8	50	T-20	PTM	100
TTZNFS5.0X30	76564	5		30	9.5	3.2	25	T-25	FT
TTZNFS5.0X30-T20	76535		30	9.5	3.2	25	T-20	FT	200
TTZNFS5.0X40	76565		40	8.5	3.2	35	T-25	FT	200
TTZNFS5.0X40-T20	76536		40	9.5	3.2	35	T-20	FT	200
TTZNFS5.0X50	74489		50	9.5	3.2	30	T-25	PT	200
TTZNFS5.0X50-T20	76537		50	9.5	3.2	30	T-20	PT	200
TTZNFS5.0X60	74490		60	9.5	3.2	35	T-25	PT	200
TTZNFS5.0X60-T20	76538		60	9.5	3.2	35	T-20	PT	200
TTZNFS5.0X70	74491		70	9.5	3.2	40	T-25	PT	100
TTZNFS5.0X70-750	74492		70	9.5	3.2	40	T-25	PT	750
TTZNFS5.0X70-T20	76539		70	9.5	3.2	40	T-20	PT	100
TTZNFS5.0X80	74493		80	9.5	3.2	40	T-25	PTM	100
TTZNFS5.0X80-650	74494		80	9.5	3.2	40	T-25	PTM	650
TTZNFS5.0X80-T20	76540		80	9.5	3.2	40	T-20	PTM	100
TTZNFS5.0X90	74495		90	9.5	3.2	45	T-25	PTM	100

* not covered by CE marking

TTZNFS Träskruv Försänkt Impreg®+

Art. nr.	Art. nr.	d	Dimensioner [mm]						Box Quantity
			l	d _h	d ₁	l _g	bit	Thread	
TTZNFS5.0X90-450	74496	5	90	9.5	3.2	45	T-25	PTM	450
TTZNFS5.0X90-T20	76541		90	9.5	3.2	45	T-20	PTM	100
TTZNFS5.0X100	74487		100	9.5	3.2	60	T-25	PTM	100
TTZNFS5.0X100-450	74510		100	9.5	3.2	60	T-25	PTM	450
TTZNFS5.0X100-T20	76542		100	9.5	3.2	60	T-20	PTM	100
TTZNFS5.0X120	74488		120	9.5	3.2	60	T-25	PTM	100
TTZNFS5.0X120-T20	76543		120	9.5	3.2	60	T-20	PTM	100
TTZNFS6.0X40	76566		6	40	11.6	3.8	34	T-30	FT
TTZNFS6.0X50	76567	50		11.6	3.8	30	T-30	PT	200
TTZNFS6.0X60	74504	60		11.6	3.8	35	T-30	PT	200
TTZNFS6.0X70	74505	70		11.6	3.8	40	T-30	PT	100
TTZNFS6.0X80	74506	80		11.6	3.8	40	T-30	PTM	100
TTZNFS6.0X80-450	74507	80		11.6	3.8	40	T-30	PTM	450
TTZNFS6.0X90	74508	90		11.6	3.8	45	T-30	PTM	100
TTZNFS6.0X90-450	74509	90		11.6	3.8	45	T-30	PTM	450
TTZNFS6.0X100	74497	100		11.6	3.8	60	T-30	PTM	100
TTZNFS6.0X100-300	74498	100		11.6	3.8	60	T-30	PTM	300
TTZNFS6.0X120	74499	120		11.6	3.8	70	T-30	PTM	100
TTZNFS6.0X120-250	74500	120		11.6	3.8	70	T-30	PTM	250
TTZNFS6.0X140	74501	140		11.6	3.8	70	T-30	PTM	100
TTZNFS6.0X160	74502	160		11.6	3.8	70	T-30	PTM	100
TTZNFS6.0X180	74503	180		11.6	3.8	70	T-30	PTM	100

* not covered by CE marking

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Träskruv Försänkt Impreg®+

Produktkaraktäristiska egenskaper

Art. nr.	Karaktäristisk böjmoment - $M_{y,k}$ [$M_{y,k}$] [Nmm]	Karaktäristisk extrahering parameter - $f_{ax,k,90^\circ}$ [$f_{ax,k,90^\circ}$] [N/mm ²]	Karaktäristisk genomdragshållfasthets parameter - $f_{head,k}$ [$f_{head,k}$] [N/mm ²]	Karaktäristisk dragkraftstyrke - $f_{tens,k}$ [$f_{tens,k}$] [kN]
TTZNFS4.5X25	4660	14.7	15.6	7.8
TTZNFS4.5X30	4660	14.7	15.6	7.8
TTZNFS4.5X35	4660	14.7	15.6	7.8
TTZNFS4.5X40	4660	14.7	15.6	7.8
TTZNFS4.5X45	4660	14.7	15.6	7.8
TTZNFS4.5X50	4660	14.7	15.6	7.8
TTZNFS4.5X60	4660	14.7	15.6	7.8
TTZNFS4.5X70	4660	14.7	15.6	7.8
TTZNFS4.5X80	4660	14.7	15.6	7.8
TTZNFS5.0X30	6720	15	17.1	7.9
TTZNFS5.0X30- T20	6720	15	17.1	7.9
TTZNFS5.0X40	6720	15	17.1	7.9
TTZNFS5.0X40- T20	6720	15	17.1	7.9
TTZNFS5.0X50	6720	15	17.1	7.9
TTZNFS5.0X50- T20	6720	15	17.1	7.9
TTZNFS5.0X60	6720	15	17.1	7.9
TTZNFS5.0X60- T20	6720	15	17.1	7.9
TTZNFS5.0X70	6720	15	17.1	7.9
TTZNFS5.0X70- 750	6720	15	17.1	7.9
TTZNFS5.0X70- T20	6720	15	17.1	7.9
TTZNFS5.0X80	6720	15	17.1	7.9
TTZNFS5.0X80- 650	6720	15	17.1	7.9
TTZNFS5.0X80- T20	6720	15	17.1	7.9
TTZNFS5.0X90	6720	15	17.1	7.9
TTZNFS5.0X90- 450	6720	15	17.1	7.9
TTZNFS5.0X90- T20	6720	15	17.1	7.9
TTZNFS5.0X100	6720	15	17.1	7.9
TTZNFS5.0X100- 450	6720	15	17.1	7.9
TTZNFS5.0X100- T20	6720	15	17.1	7.9
TTZNFS5.0X120	6720	15	17.1	7.9
TTZNFS5.0X120- T20	6720	15	17.1	7.9
TTZNFS6.0X40	9500	12.5	16.6	11.1
TTZNFS6.0X50	9500	12.5	16.6	11.1
TTZNFS6.0X60	9500	12.5	16.6	11.1

Refer to relevant ITTR or ETA for more details

TTZNFS Träskruv Försänkt Impreg®+

Art. nr.	Karakteristisk böjmoment - $M_{y,k}$ [$M_{y,k}$] [Nmm]	Karakteristisk extrahering parameter - $f_{ax,k,90^\circ}$ [$f_{ax,k,90^\circ}$] [N/mm ²]	Karakteristisk genomdragshållfasthets parameter - $f_{head,k}$ [$f_{head,k}$] [N/mm ²]	Karakteristisk dragkraftstyrke - $f_{tens,k}$ [$f_{tens,k}$] [kN]
TTZNFS6.0X70	9500	12.5	16.6	11.1
TTZNFS6.0X80	9500	12.5	16.6	11.1
TTZNFS6.0X80-450	9500	12.5	16.6	11.1
TTZNFS6.0X90	9500	12.5	16.6	11.1
TTZNFS6.0X90-450	9500	12.5	16.6	11.1
TTZNFS6.0X100	9500	12.5	16.6	11.1
TTZNFS6.0X100-300	9500	12.5	16.6	11.1
TTZNFS6.0X120	9500	12.5	16.6	11.1
TTZNFS6.0X120-250	9500	12.5	16.6	11.1
TTZNFS6.0X140	9500	12.5	16.6	11.1
TTZNFS6.0X160	9500	12.5	16.6	11.1
TTZNFS6.0X180	9500	12.5	16.6	11.1

Refer to relevant ITTR or ETA for more details

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Montering

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Spacing and Edge distances - Shear loaded screws

Art. nr.	Minimum edge distances and spacing for shear loaded screws [mm]											
	Angle between load and grain = 0°						Angle between load and grain = 90°					
	a _{1.0}	a _{2.0}	a _{3.t.0}	a _{3.c.0}	a _{4.t.0}	a _{4.c.0}	a _{1.90}	a _{2.90}	a _{3.t.90}	a _{3.c.90}	a _{4.t.90}	a _{4.c.90}
TTZNFS4.5X25	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X30	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X35	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X40	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X45	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X50	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X60	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X70	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X80	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X50	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X50-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X60	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X60-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X70	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X70-750	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X70-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X80	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X80-650	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X80-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X90	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X90-450	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X90-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X100	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X100-450	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X100-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X120	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X120-T20	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X40	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X50	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X60	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X70	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X80	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X80-450	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X90	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X90-450	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X100	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X100-300	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X120	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X120-250	-	-	-	-	-	-	-	-	-	-	-	-

a₁ and a₂ can be multiplied by 0.85 for panel/timber assembly, and by 0.7 for steel/timber assembly.

TTZNFS
Träskruv Försänkt Impreg®+

Art. nr.	Minimum edge distances and spacing for shear loaded screws [mm]											
	Angle between load and grain = 0°						Angle between load and grain = 90°					
	a _{1.0}	a _{2.0}	a _{3.t.0}	a _{3.c.0}	a _{4.t.0}	a _{4.c.0}	a _{1.90}	a _{2.90}	a _{3.t.90}	a _{3.c.90}	a _{4.t.90}	a _{4.c.90}
TTZNFS6.0X140	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X160	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X180	-	-	-	-	-	-	-	-	-	-	-	-

a₁ and a₂ can be multiplied by 0.85 for panel/timber assembly, and by 0.7 for steel/timber assembly.

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Träskruv Försänkt Impreg®+

Spacing and edge distances - Axially loaded screws

Art. nr.	Minimum edge distances and spacing for axially loaded screws [mm]			
	a ₁	a ₂	a _{3,c}	a _{4,c}
TTZNFS4.5X25	-	-	-	-
TTZNFS4.5X30	-	-	-	-
TTZNFS4.5X35	-	-	-	-
TTZNFS4.5X40	-	-	-	-
TTZNFS4.5X45	-	-	-	-
TTZNFS4.5X50	-	-	-	-
TTZNFS4.5X60	-	-	-	-
TTZNFS4.5X70	-	-	-	-
TTZNFS4.5X80	-	-	-	-
TTZNFS5.0X30	-	-	-	-
TTZNFS5.0X30-T20	-	-	-	-
TTZNFS5.0X40	-	-	-	-
TTZNFS5.0X40-T20	-	-	-	-
TTZNFS5.0X50	-	-	-	-
TTZNFS5.0X50-T20	-	-	-	-
TTZNFS5.0X60	-	-	-	-
TTZNFS5.0X60-T20	-	-	-	-
TTZNFS5.0X70	-	-	-	-
TTZNFS5.0X70-750	-	-	-	-
TTZNFS5.0X70-T20	-	-	-	-
TTZNFS5.0X80	-	-	-	-
TTZNFS5.0X80-650	-	-	-	-
TTZNFS5.0X80-T20	-	-	-	-
TTZNFS5.0X90	-	-	-	-
TTZNFS5.0X90-450	-	-	-	-
TTZNFS5.0X90-T20	-	-	-	-
TTZNFS5.0X100	-	-	-	-
TTZNFS5.0X100-450	-	-	-	-
TTZNFS5.0X100-T20	-	-	-	-
TTZNFS5.0X120	-	-	-	-
TTZNFS5.0X120-T20	-	-	-	-
TTZNFS6.0X40	-	-	-	-
TTZNFS6.0X50	-	-	-	-
TTZNFS6.0X60	-	-	-	-
TTZNFS6.0X70	-	-	-	-
TTZNFS6.0X80	-	-	-	-
TTZNFS6.0X80-450	-	-	-	-
TTZNFS6.0X90	-	-	-	-
TTZNFS6.0X90-450	-	-	-	-
TTZNFS6.0X100	-	-	-	-
TTZNFS6.0X100-300	-	-	-	-
TTZNFS6.0X120	-	-	-	-
TTZNFS6.0X120-250	-	-	-	-
TTZNFS6.0X140	-	-	-	-
TTZNFS6.0X160	-	-	-	-
TTZNFS6.0X180	-	-	-	-

TTZNFS

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TTZNFS
Träskruv Försänkt Impreg®+

Bärförmåga

TTZNFS Träskruv Försänkt Impreg®+

Timber to Timber characteristic capacities

Art. nr.	Product characteristic capacities - Timber to Timber C24															
	Axial resistance		Shear resistance parallel to the grain depending of t_1 [Rv.0.k] [kN]							Shear resistance perpendicular to the grain depending of t_1 [Rv.90.k] [kN]						
	t_1 [mm]	$R_{ax,k}$ [kN]	35 [mm]	40 [mm]	45 [mm]	60 [mm]	75 [mm]	80 [mm]	≥100 [mm]	35 [mm]	40 [mm]	45 [mm]	60 [mm]	75 [mm]	80 [mm]	≥100 [mm]
TTZNFS4.5X25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X30	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X40	5	1.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X50	20	1.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X60	25	1.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X70	30	1.19	1.41	-	-	-	-	-	-	1.41	-	-	-	-	-	-
TTZNFS4.5X80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30-T20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40-T20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X50	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X50-T20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X60	25	1.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X60-T20	25	1.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X70	30	1.64	1.81	-	-	-	-	-	-	1.81	-	-	-	-	-	-
TTZNFS5.0X70-750	30	1.64	1.81	-	-	-	-	-	-	1.81	-	-	-	-	-	-
TTZNFS5.0X70-T20	30	1.64	1.81	-	-	-	-	-	-	1.81	-	-	-	-	-	-
TTZNFS5.0X80	40	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X80-650	40	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X80-T20	40	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X90	45	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X90-450	45	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X90-T20	45	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X100	40	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-

These capacities are valid for:

- Timber element under the head with thickness $\leq t_1$ disclosed in adjacent column
- Screw axis between 45° and 90° from timber grain for ESCR(XXX), and 90° from timber grain for all other screws.

For tightening screws (partially threaded), t_1 dimension is the maximum thickness of the under-head timber member for which the thread is fully in the pointside timber member, for an optimum installation and tightening.

The shear capacities are given for several timber thicknesses t_1 of the under-head member under the following configurations:

- Load axis at 0° from both timber grains Rv.0°.k
- Load axis at 90° from both timber grains Rv.90°.k

These capacities are valid for C24 timber grades or higher

The pre-drilled hypothesis for capacity and distances calculation is fulfilled.

For partial threaded screws, capacities are only given for configurations where the thread is less than 5mm in under-head timber member, in order to achieve optimum installation and tightening.

Clause (2) in 8.3.1.2 from EN1995-1-1:2004+A2:2014 about embedment length is ignored in these calculations.

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Product characteristic capacities - Timber to Timber C24

Art. nr.	Axial resistance		Shear resistance parallel to the grain depending of t_1 [Rv.0.k] [kN]							Shear resistance perpendicular to the grain depending of t_1 [Rv.90.k] [kN]						
	t_1 [mm]	$R_{ax.k}$ [kN]	35	40	45	60	75	80	≥100	35	40	45	60	75	80	≥100
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
TTZNFS5.0X100-450	40	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X100-T20	40	1.64	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X120	60	1.64	1.81	1.81	1.81	1.81	-	-	-	1.81	1.81	1.81	1.81	-	-	-
TTZNFS5.0X120-T20	60	1.64	1.81	1.81	1.81	1.81	-	-	-	1.81	1.81	1.81	1.81	-	-	-
TTZNFS6.0X40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X60	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X70	30	2.73	2.35	-	-	-	-	-	-	2.35	-	-	-	-	-	-
TTZNFS6.0X80	40	2.73	2.44	2.59	2.44	-	-	-	-	2.44	2.59	2.44	-	-	-	-
TTZNFS6.0X80-450	40	2.73	2.44	2.59	2.44	-	-	-	-	2.44	2.59	2.44	-	-	-	-
TTZNFS6.0X90	45	2.73	2.44	2.6	2.62	-	-	-	-	2.44	2.6	2.62	-	-	-	-
TTZNFS6.0X90-450	45	2.73	2.44	2.6	2.62	-	-	-	-	2.44	2.6	2.62	-	-	-	-
TTZNFS6.0X100	40	2.73	2.44	2.6	2.62	-	-	-	-	2.44	2.6	2.62	-	-	-	-
TTZNFS6.0X100-300	40	2.73	2.44	2.6	2.62	-	-	-	-	2.44	2.6	2.62	-	-	-	-
TTZNFS6.0X120	50	2.73	2.44	2.6	2.62	-	-	-	-	2.44	2.6	2.62	-	-	-	-
TTZNFS6.0X120-250	50	2.73	2.44	2.6	2.62	-	-	-	-	2.44	2.6	2.62	-	-	-	-
TTZNFS6.0X140	70	2.73	2.44	2.6	2.62	2.62	2.62	-	-	2.44	2.6	2.62	2.62	2.62	-	-
TTZNFS6.0X160	90	2.73	2.44	2.6	2.62	2.62	2.62	2.62	-	2.44	2.6	2.62	2.62	2.62	2.62	-
TTZNFS6.0X180	110	2.73	2.44	2.6	2.62	2.62	2.62	2.62	2.62	2.44	2.6	2.62	2.62	2.62	2.62	2.62

These capacities are valid for:

- Timber element under the head with thickness $\leq t_1$ disclosed in adjacent column
- Screw axis between 45° and 90° from timber grain for ESCR(XXX), and 90° from timber grain for all other screws.

For tightening screws (partially threaded), t_1 dimension is the maximum thickness of the under-head timber member for which the thread is fully in the pointside timber member, for an optimum installation and tightening.

The shear capacities are given for several timber thicknesses t_1 of the under-head member under the following configurations:

- Load axis at 0° from both timber grains Rv.0°.k
- Load axis at 90° from both timber grains Rv.90°.k

These capacities are valid for C24 timber grades or higher

The pre-drilled hypothesis for capacity and distances calculation is fulfilled.

For partial threaded screws, capacities are only given for configurations where the thread is less than 5mm in under-head timber member, in order to achieve optimum installation and tightening.

Clause (2) in 8.3.1.2 from EN1995-1-1:2004+A2:2014 about embedment length is ignored in these calculations.

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Steel to Timber characteristic capacities

Art. nr.	Product characteristic capacities - Steel to Timber C24				
	Axial resistance [R _{ax.st.k}] [kN]	Shear resistance - Thin plate		Shear Resistance - Thick steel	
		R _{v.0.st.k} [kN]	R _{v.90.st.k} [kN]	R _{v.0.st.k} [kN]	R _{v.90.st.k} [kN]
TTZNFS4.5X25	1.73	0.8	0.8	1.54	1.54
TTZNFS4.5X30	2.16	0.98	0.98	1.77	1.77
TTZNFS4.5X35	-	-	-	-	-
TTZNFS4.5X40	3.02	1.32	1.32	2.27	2.27
TTZNFS4.5X45	-	-	-	-	-
TTZNFS4.5X50	2.59	1.66	1.66	2.22	2.22
TTZNFS4.5X60	3.02	1.87	1.87	2.33	2.33
TTZNFS4.5X70	3.46	1.98	1.98	2.44	2.44
TTZNFS4.5X80	-	-	-	-	-
TTZNFS5.0X30	-	-	-	-	-
TTZNFS5.0X30-T20	-	-	-	-	-
TTZNFS5.0X40	-	-	-	-	-
TTZNFS5.0X40-T20	-	-	-	-	-
TTZNFS5.0X50	1.98	1.88	1.88	2.47	2.47
TTZNFS5.0X50-T20	1.98	1.88	1.88	2.47	2.47
TTZNFS5.0X60	2.31	1.98	1.98	2.56	2.56
TTZNFS5.0X60-T20	2.31	1.98	1.98	2.56	2.56
TTZNFS5.0X70	2.64	2.06	2.06	2.64	2.64
TTZNFS5.0X70-750	2.64	2.06	2.06	2.64	2.64
TTZNFS5.0X70-T20	2.64	2.06	2.06	2.64	2.64
TTZNFS5.0X80	2.64	2.06	2.06	2.64	2.64
TTZNFS5.0X80-650	2.64	2.06	2.06	2.64	2.64
TTZNFS5.0X80-T20	2.64	2.06	2.06	2.64	2.64
TTZNFS5.0X90	2.97	2.14	2.14	2.72	2.72
TTZNFS5.0X90-450	2.97	2.14	2.14	2.72	2.72
TTZNFS5.0X90-T20	2.97	2.14	2.14	2.72	2.72
TTZNFS5.0X100	3.96	2.39	2.39	2.97	2.97
TTZNFS5.0X100-450	3.96	2.39	2.39	2.97	2.97
TTZNFS5.0X100-T20	3.96	2.39	2.39	2.97	2.97
TTZNFS5.0X120	3.96	2.39	2.39	2.97	2.97
TTZNFS5.0X120-T20	3.96	2.39	2.39	2.97	2.97
TTZNFS6.0X40	-	-	-	-	-
TTZNFS6.0X50	-	-	-	-	-
TTZNFS6.0X60	3.61	2.66	2.66	3.64	3.64
TTZNFS6.0X70	4.13	2.96	2.96	3.76	3.76
TTZNFS6.0X80	4.13	2.96	2.96	3.76	3.76
TTZNFS6.0X80-450	4.13	2.96	2.96	3.76	3.76

Shear capacities are given for thick (tst = d) and thin (tst = 0,5xd) steel plates under the following configurations:

- Load axis at 0° from timber grain R_{v.0°}.k
- Load axis at 90° from timber grain R_{v.90°}.k

These capacities are valid for C24 timber grades or higher.

For intermediate steel thicknesses, capacities shall be calculated by linear interpolation between the limiting thin and thick plate values.

The pre-drilled hypothesis for capacity and distances calculation is fulfilled.

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Product characteristic capacities - Steel to Timber C24

Art. nr.	Product characteristic capacities - Steel to Timber C24				
	Axial resistance [R _{ax.st.k}] [kN]	Shear resistance - Thin plate		Shear Resistance - Thick steel	
		R _{v.0.st.k} [kN]	R _{v.90.st.k} [kN]	R _{v.0.st.k} [kN]	R _{v.90.st.k} [kN]
TTZNFS6.0X90	4.64	3.09	3.09	3.89	3.89
TTZNFS6.0X90-450	4.64	3.09	3.09	3.89	3.89
TTZNFS6.0X100	6.19	3.48	3.48	4.28	4.28
TTZNFS6.0X100-300	6.19	3.48	3.48	4.28	4.28
TTZNFS6.0X120	6.19	3.48	3.48	4.28	4.28
TTZNFS6.0X120-250	6.19	3.48	3.48	4.28	4.28
TTZNFS6.0X140	7.22	3.74	3.74	4.54	4.54
TTZNFS6.0X160	7.22	3.74	3.74	4.54	4.54
TTZNFS6.0X180	7.22	3.74	3.74	4.54	4.54

Shear capacities are given for thick (tst = d) and thin (tst = 0,5xd) steel plates under the following configurations:

- Load axis at 0° from timber grain R_{v.0°}.k
- Load axis at 90° from timber grain R_{v.90°}.k

These capacities are valid for C24 timber grades or higher.

For intermediate steel thicknesses, capacities shall be calculated by linear interpolation between the limiting thin and thick plate values.

The pre-drilled hypothesis for capacity and distances calculation is fulfilled.

TTZNFS Träskruv Försänkt Impreg®+

Ledger on stud characteristic capacities

Art. nr.	Product characteristic capacities - Ledger on stud C24									
	Minimum width of the stud [mm]	Minimum distance to the bottom side of the ledger $a_{4,c}$ [mm]	Shear capacity depending of thickness of ledger t_1 [Rv.90-0.k] [kN]							
			35 [mm]	40 [mm]	45 [mm]	60 [mm]	75 [mm]	80 [mm]	90 [mm]	≥100 [mm]
TTZNFS4.5X25	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X30	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X35	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X40	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X45	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X50	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X60	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X70	27	13.5	1.41	-	-	-	-	-	-	-
TTZNFS4.5X80	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30-T20	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40-T20	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X50	30	15	-	-	-	-	-	-	-	-
TTZNFS5.0X50-T20	30	15	-	-	-	-	-	-	-	-
TTZNFS5.0X60	30	15	-	-	-	-	-	-	-	-
TTZNFS5.0X60-T20	30	15	-	-	-	-	-	-	-	-
TTZNFS5.0X70	30	15	1.81	-	-	-	-	-	-	-
TTZNFS5.0X70-750	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X70-T20	30	15	1.81	-	-	-	-	-	-	-
TTZNFS5.0X80	30	15	1.81	1.81	1.81	-	-	-	-	-
TTZNFS5.0X80-650	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X80-T20	30	15	1.81	1.81	1.81	-	-	-	-	-
TTZNFS5.0X90	30	15	1.81	1.81	1.81	-	-	-	-	-
TTZNFS5.0X90-450	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X90-T20	30	15	1.81	1.81	1.81	-	-	-	-	-
TTZNFS5.0X100	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X100-450	30	15	1.81	1.81	1.81	-	-	-	-	-
TTZNFS5.0X100-T20	30	15	1.81	1.81	1.81	-	-	-	-	-
TTZNFS5.0X120	30	15	1.81	1.81	1.81	1.81	-	-	-	-
TTZNFS5.0X120-T20	30	15	1.81	1.81	1.81	1.81	-	-	-	-
TTZNFS6.0X40	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X50	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X60	36	18	-	-	-	-	-	-	-	-
TTZNFS6.0X70	36	18	2.44	-	-	-	-	-	-	-
TTZNFS6.0X80	36	18	2.62	2.6	2.44	-	-	-	-	-
TTZNFS6.0X80-450	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X90	36	18	2.62	2.62	2.62	-	-	-	-	-
TTZNFS6.0X90-450	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X100	36	18	2.62	2.62	2.62	-	-	-	-	-
TTZNFS6.0X100-300	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X120	36	18	2.62	2.62	2.62	-	-	-	-	-

The pre-drilled hypothesis for capacity and distances calculation is fulfilled.

Product characteristic capacities - Ledger on stud C24

Art. nr.	Minimum width of the stud [mm]	Minimum distance to the bottom side of the ledger $a_{4,c}$ [mm]	Shear capacity depending of thickness of ledger t_1 [Rv.90-0.k] [kN]								
			35 [mm]	40 [mm]	45 [mm]	60 [mm]	75 [mm]	80 [mm]	90 [mm]	≥100 [mm]	
TTZNFS6.0X120-250	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X140	36	18	2.62	2.62	2.62	2.62	2.62	-	-	-	-
TTZNFS6.0X160	36	18	2.62	2.62	2.62	2.62	2.62	2.62	2.62	-	-
TTZNFS6.0X180	36	18	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62

The pre-drilled hypothesis for capacity and distances calculation is fulfilled.

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Panel to Timber characteristic capacities

Art. nr.	Panel (OSB, Fibreboard $\rho_k \geq 380 \text{ kg/m}^3$) on Timber C24 depending on panel thickness t_p														
	13 [mm]			15 [mm]			18 [mm]			22 [mm]			25 [mm]		
	$R_{ax.k.13}$ [kN]	$R_{v.0.k.13}$ [kN]	$R_{v.90.k.13}$ [kN]	$R_{ax.k.15}$ [kN]	$R_{v.0.k.15}$ [kN]	$R_{v.90.k.15}$ [kN]	$R_{ax.k.18}$ [kN]	$R_{v.0.k.18}$ [kN]	$R_{v.90.k.18}$ [kN]	$R_{ax.k.22}$ [kN]	$R_{v.0.k.22}$ [kN]	$R_{v.90.k.22}$ [kN]	$R_{ax.k.25}$ [kN]	$R_{v.0.k.25}$ [kN]	R_v
TTZNFS4.5X25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X40	-	0.85	0.85	-	0.83	0.83	-	0.84	0.84	-	0.88	0.88	-	-	-
TTZNFS4.5X45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X50	1.27	1.16	1.16	1.27	1.21	1.21	1.27	1.3	1.3	-	1.05	1.05	-	1.03	-
TTZNFS4.5X60	1.27	1.16	1.16	1.27	1.21	1.21	1.27	1.3	1.3	1.27	1.43	1.43	1.27	1.53	-
TTZNFS4.5X70	1.27	1.16	1.16	1.27	1.21	1.21	1.27	1.3	1.3	1.27	1.43	1.43	1.27	1.53	-
TTZNFS4.5X80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30-T20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40-T20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X50	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	-	1.15	1.15	-	1.18	-
TTZNFS5.0X50-T20	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	-	1.15	1.15	-	1.18	-
TTZNFS5.0X60	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X60-T20	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X70	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X70-750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X70-T20	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X80	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X80-650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X80-T20	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X90	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X90-450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X90-T20	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X100-450	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X100-T20	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X120	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS5.0X120-T20	1.75	1.44	1.44	1.75	1.49	1.49	1.75	1.57	1.57	1.75	1.69	1.69	1.75	1.8	-
TTZNFS6.0X40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X60	2.92	1.68	1.68	2.92	1.96	1.96	2.92	2.13	2.13	2.92	2.24	2.24	-	1.57	-
TTZNFS6.0X70	2.92	1.68	1.68	2.92	1.96	1.96	2.92	2.13	2.13	2.92	2.24	2.24	2.92	2.34	-

TTZNFS
Träskruv Försänkt Impreg®+

Plywood to Timber Characteristic Capacities

Art. nr.	Plywood ($\rho_k \geq 490 \text{ kg/m}^3$) on Timber C24 depending on panel thickness t_p														
	10 [mm]			15 [mm]			18 [mm]			22 [mm]			25 [mm]		
	$R_{ax.k.10}$ [kN]	$R_{v.0.k.10}$ [kN]	$R_{v.90.k.10}$ [kN]	$R_{ax.k.15}$ [kN]	$R_{v.0.k.15}$ [kN]	$R_{v.90.k.15}$ [kN]	$R_{ax.k.18}$ [kN]	$R_{v.0.k.18}$ [kN]	$R_{v.90.k.18}$ [kN]	$R_{ax.k.22}$ [kN]	$R_{v.0.k.22}$ [kN]	$R_{v.90.k.22}$ [kN]	$R_{ax.k.25}$ [kN]	$R_{v.0.k.25}$ [kN]	R_v
TTZNFS4.5X25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X40	-	0.8	0.8	-	0.83	0.83	-	0.83	0.83	-	0.87	0.87	-	-	-
TTZNFS4.5X45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS4.5X50	1.55	1.18	1.18	1.55	1.28	1.28	-	0.97	0.97	-	1.03	1.03	-	1.02	-
TTZNFS4.5X60	1.55	1.18	1.18	1.55	1.28	1.28	1.55	1.36	1.36	1.55	1.47	1.47	-	1.18	-
TTZNFS4.5X70	1.55	1.18	1.18	1.55	1.28	1.28	1.55	1.36	1.36	1.55	1.47	1.47	1.55	1.56	-
TTZNFS4.5X80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X30-T20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X40-T20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X50	1.98	1.3	1.3	-	1.07	1.07	-	1.14	1.14	-	1.15	1.15	-	1.17	-
TTZNFS5.0X50-T20	1.98	1.3	1.3	-	1.07	1.07	-	1.14	1.14	-	1.15	1.15	-	1.17	-
TTZNFS5.0X60	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	-	1.36	-
TTZNFS5.0X60-T20	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	-	1.36	-
TTZNFS5.0X70	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X70-750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X70-T20	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X80	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X80-650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X80-T20	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X90	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X90-450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X90-T20	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS5.0X100-450	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X100-T20	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X120	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS5.0X120-T20	2.15	1.3	1.3	2.15	1.61	1.61	2.15	1.68	1.68	2.15	1.8	1.8	2.15	1.89	-
TTZNFS6.0X40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X60	3.58	1.47	1.47	3.58	2.2	2.2	3.58	2.35	2.35	-	1.57	1.57	-	1.6	-
TTZNFS6.0X70	3.58	1.47	1.47	3.58	2.2	2.2	3.58	2.35	2.35	3.58	2.47	2.47	3.58	2.56	-

TTZNFS

Träskruv Försänkt Impreg®+

Plywood ($\rho_k \geq 490 \text{ kg/m}^3$) on Timber C24 depending on panel thickness t_p

Art. nr.	Plywood ($\rho_k \geq 490 \text{ kg/m}^3$) on Timber C24 depending on panel thickness t_p														
	10 [mm]			15 [mm]			18 [mm]			22 [mm]			25 [mm]		
	$R_{ax.k.10}$ [kN]	$R_{v.0.k.10}$ [kN]	$R_{v.90.k.10}$ [kN]	$R_{ax.k.15}$ [kN]	$R_{v.0.k.15}$ [kN]	$R_{v.90.k.15}$ [kN]	$R_{ax.k.18}$ [kN]	$R_{v.0.k.18}$ [kN]	$R_{v.90.k.18}$ [kN]	$R_{ax.k.22}$ [kN]	$R_{v.0.k.22}$ [kN]	$R_{v.90.k.22}$ [kN]	$R_{ax.k.25}$ [kN]	$R_{v.0.k.25}$ [kN]	$R_{v.90.k.25}$ [kN]
TTZNFS6.0X80	3.58	1.47	1.47	3.58	2.2	2.2	3.58	2.35	2.35	3.58	2.47	2.47	3.58	2.56	2.56
TTZNFS6.0X80-450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X90	3.58	1.47	1.47	3.58	2.2	2.2	3.58	2.35	2.35	3.58	2.47	2.47	3.58	2.56	2.56
TTZNFS6.0X90-450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTZNFS6.0X180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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2024-04-18

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