

EJOT® SUPER-SAPHIR **self-drilling screw JT3-2-6.5**

Fastening profiled steel and aluminium sheet,
sandwich panels and roofing sheet to timber substructure

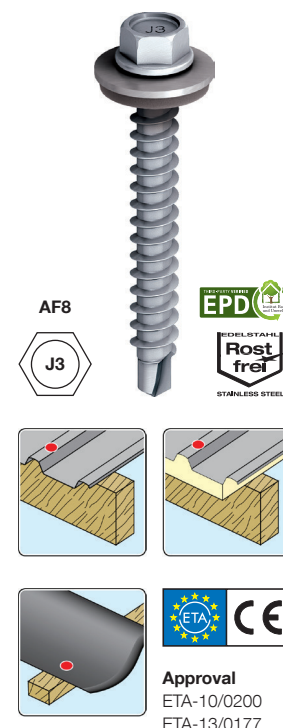
Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point



EJOT® SUPER-SAPHIR self-drilling screw JT3-2-6.5

Length [mm]	For sandwich panels [mm]	Clamp thickness [mm]	PU	Price/100 [EUR]	Order description	Article number
Sealing washer E16, Ø 16 mm						
40	-	-	200		JT3-2-6.5x40-E16	3 594 011 321
50	-	-	250		JT3-2-6.5x50-E16	3 598 811 321
65	-	0 - 15	250		JT3-2-6.5x65-E16	3 598 911 321
80	-	0 - 30	200		JT3-2-6.5x80-E16	3 598 011 321
100	20 - 45	16 - 50	200		JT3-2-6.5x100-E16	3 598 111 321
120	40 - 65	36 - 70	100		JT3-2-6.5x120-E16	3 598 311 321
140	60 - 85	56 - 90	100		JT3-2-6.5x140-E16	3 598 511 321
160	80 - 105	76 - 110	100		JT3-2-6.5x160-E16	3 598 711 321
180	100 - 125	96 - 130	100		JT3-2-6.5x180-E16	3 598 211 321
200	120 - 145	116 - 150	100		JT3-2-6.5x200-E16	3 599 011 321
220	140 - 165	136 - 170	100		JT3-2-6.5x220-E16	3 599 111 321
240	160 - 185	156 - 190	100		JT3-2-6.5x240-E16	3 599 211 321
260	180 - 205	176 - 210	100		JT3-2-6.5x260-E16	3 599 311 321
280	200 - 225	196 - 230	100		JT3-2-6.5x280-E16	3 599 511 321
300	220 - 245	216 - 250	100		JT3-2-6.5x300-E16	3 599 611 321
Sealing washer E22, Ø 22 mm						
40	-	-	250		JT3-2-6.5x40-E22	3 594 013 321
50	-	-	250		JT3-2-6.5x50-E22	3 598 813 321
65	-	0 - 15	250		JT3-2-6.5x65-E22	3 598 913 321
80	-	0 - 30	100		JT3-2-6.5x80-E22	3 598 013 321
100	20 - 45	16 - 50	100		JT3-2-6.5x100-E22	3 598 113 321
120	40 - 65	36 - 70	100		JT3-2-6.5x120-E22	3 598 313 321
140	60 - 85	56 - 90	100		JT3-2-6.5x140-E22	3 598 513 321
160	80 - 105	76 - 110	100		JT3-2-6.5x160-E22	3 598 713 321
180	100 - 125	96 - 130	100		JT3-2-6.5x180-E22	3 598 213 321
200	120 - 145	116 - 150	100		JT3-2-6.5x200-E22	3 599 013 321
220	140 - 165	136 - 170	50		JT3-2-6.5x220-E22	3 599 113 321
240	160 - 185	156 - 190	50		JT3-2-6.5x240-E22	3 599 213 321
260	180 - 205	176 - 210	100		JT3-2-6.5x260-E22	3 599 313 321
280	200 - 225	196 - 230	100		JT3-2-6.5x280-E22	3 599 513 321
300	220 - 245	216 - 250	100		JT3-2-6.5x300-E22	3 599 613 321



Cross reference

- Accessories
- ORKAN storm washers
- Self-tapping screw JA3-6.5
- Metal screwdriver SCS 6.3
- Metal screwdriver SCS 6.3-SH2

Note

See relevant annexes of European technical approvals at the following pages.

Please download complete European technical approvals at our website:

www.ejot.es

Application area

- Fastening profiled steel and aluminium sheet, sandwich panels and roofing sheet to timber substructure

Properties

- A2 stainless steel with hardened drill point
- Stainless steel sealing washer
- Pre-assembled sealing washer

Technical Data

Drilling capacity $t_f + t_{II}$	2.0 mm
Drive	Hexagon AF8
Ø screw	6.5 mm

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Minimum tensile strength		Minimum shear strength	
Ø mm	kN	Ø mm	kN
6.5	13.0	6.5	10.0

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point



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Materials

Fastener: stainless steel (1.4301 / 1.4567) - EN 10088, stainless steel (1.4404 / 1.4578) - EN 10088

Washer: stainless steel (1.4301) - EN 10088

Component I: S280GD - EN 10346

Component II: S235 - EN 10025-1
S280GD, S320GD or S350GD - EN 10346

Drilling capacity $\Sigma t_i \leq 2,00$ mm

Timber substructures
performance determined with

$M_{y,Rk} = 9,742$ Nm
 $f_{ax,k} = 8,575$ N/mm² for $l_{ef} \geq 26,0$ mm

$t_{N,II}$ [mm]	0,63	0,75	0,88	1,00	1,13	1,25	1,50	2,00			
$M_{t,nom}$	3 Nm										
$V_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	1,50	2,00	bearing resistance of component I
	—	—	—	—	—	—	—	—	—	—	
	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	
	1,30	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	
	1,30	1,80	2,60	2,60	2,60	2,60	2,60	2,60	2,60	2,60	
	1,30	1,80	2,60	3,30	3,30	3,30	3,30	3,30	3,30	3,30	
	1,30	1,80	2,60	—	—	—	—	—	—	—	
	1,30	1,80	—	—	—	—	—	—	—	—	
	1,30	1,80	—	—	—	—	—	—	—	—	
	1,30	1,80	—	—	—	—	—	—	—	—	
$N_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	1,50	2,00	pull-through resistance of component I
	0,43	0,54	0,68	0,70	0,86	0,86	0,86	0,86	0,86	0,86	
	—	—	—	—	—	—	—	—	—	—	
	0,80	1,00	1,30	1,30	1,60	1,60	1,60	1,60	1,60	1,60	
	0,80	1,00	1,30	1,30	1,60	1,60	1,60	1,60	1,60	1,60	
	0,80	1,00	1,30	1,30	1,60	1,60	1,60	1,60	1,60	1,60	
	0,80	1,00	1,30	1,30	1,60	1,60	1,60	1,60	1,60	1,60	
	0,80	1,00	1,30	1,30	1,60	1,60	1,60	1,60	1,60	1,60	
	0,80	1,00	1,30	1,30	1,60	1,60	1,60	1,60	1,60	1,60	
	0,80	1,00	1,30	1,30	1,60	1,60	1,60	1,60	1,60	1,60	

The values listed above in dependence on the screw-in length l_{ef} are valid for $k_{mod} = 0,90$ and timber strength grade C24 ($\rho_a = 350$ kg/m³). For other combinations of k_{mod} and timber strength grades see section 4.2.2.

Self drilling screw

JT3-2-6,5 x L
JT6-2-6,5 x L
with hexagon head and sealing washer $\geq \text{Ø}16$ mm

Annex 64

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

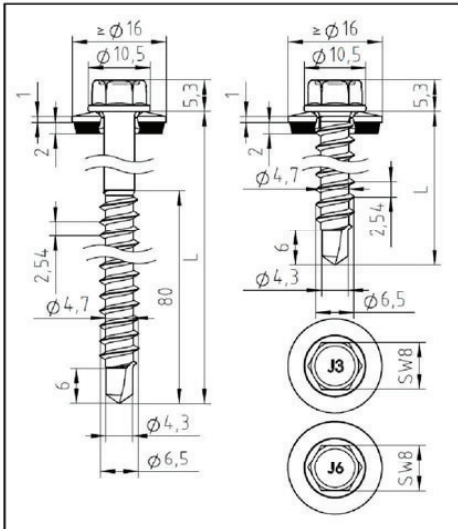


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Materials

Fastener: stainless steel (1.4301 / 1.4567) – EN 10088
stainless steel (1.4401 / 1.4578) – EN 10088
Washer: stainless steel (1.4301) - EN 10088
Component I: S280GD – EN 10346
Component II: structural timber – EN 14081

Drilling capacity $\Sigma t_i \leq 2,00$ mm

Timber substructures

performance determined with

$M_{y,Rk} = 9,742$ Nm
 $f_{ax,k} = 8,575$ N/mm² for $l_{ef} \geq 26$ mm

$l_g =$	32	38	42	48	52	58	62	68	72	78	82		
$M_{t,nom} =$	—												
V_{Rk} for $t_{N,I} =$	0,50	—	—	—	—	—	—	—	—	—	—	—	bearing resistance of component I
	0,55	—	—	—	—	—	—	—	—	—	—	—	
	0,63	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	
	0,75	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	
	0,88	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,60	
	1,00	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,13	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,25	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,50	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,75	—	—	—	—	—	—	—	—	—	—	—	
	2,00	—	—	—	—	—	—	—	—	—	—	—	
N_{Rk} for $t_{N,I} =$	0,50	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	pull-through resistance of component I
	0,55	1,30	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	
	0,63	1,30	1,56	1,81	2,06	2,20	2,20	2,20	2,20	2,20	2,20	2,20	
	0,75	1,30	1,56	1,81	2,06	2,31	2,56	2,80	2,80	2,80	2,80	2,80	
	0,88	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,50	3,50	
	1,00	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,81	
	1,13	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,81	
	1,25	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,81	
	1,50	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,81	
	1,75	—	—	—	—	—	—	—	—	—	—	—	
	2,00	—	—	—	—	—	—	—	—	—	—	—	

The values listed above in dependence on the screw-in length l_g are valid for $k_{mod} = 0,90$ and timber strength grade C24 ($\rho_k = 350$ kg/m³). For other values of k_{mod} and timber strength grades see section 4.2.2.

Self drilling screw

JT3-2-6,5 x L
JT6-2-6,5 x L

with hexagon head and sealing washer $\geq \varnothing 16$ mm

Annex 65

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point



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Materials

Fastener: stainless steel (1.4301 / 1.4567) – EN 10088
stainless steel (1.4401 / 1.4578) – EN 10088

Washer: stainless steel (1.4301) – EN 10088
with vulcanised EPDM seal

Component I: aluminium alloy
with $R_{m,min} = 165 \text{ N/mm}^2$ – EN 573

Component II: timber – EN 14081

Drilling capacity $\Sigma t_i \leq 2,00 \text{ mm}$

Timber substructures
for timber substructures following performance were determined

$M_{y,k} = 9,742 \text{ Nm}$
 $f_{ax,k} = 8,575 \text{ N/mm}^2$ for $l_{eff} \geq 32,5 \text{ mm}$

$l_g =$	33,00	36,00	39,00	42,00	45,00	48,00	51,00	54,00	60,00		
$M_{t, nom} =$	—										
$V_{R,k}$ for $t_{R,i} =$	0,50	0,54	0,54	0,54	0,54	0,54	0,54	0,54	0,54	0,54	failure of component I (bearing)
	0,60	0,74	0,74	0,74	0,74	0,74	0,74	0,74	0,74	0,74	
	0,70	0,93	0,93	0,93	0,93	0,93	0,93	0,93	0,93	0,93	
	0,80	1,13	1,13	1,13	1,13	1,13	1,13	1,13	1,13	1,13	
	0,90	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	
	1,00	1,30	1,37	1,37	1,37	1,37	1,37	1,37	1,37	1,37	
	1,20	1,30	1,45	1,60	1,70	1,70	1,70	1,70	1,70	1,70	
	1,50	1,30	1,45	1,60	1,70	1,70	1,70	1,70	1,70	1,70	
	2,00	1,30	1,45	1,60	1,70	1,70	1,70	1,70	1,70	1,70	
$N_{R,II,k} =$	1,12	1,25	1,38	1,51	1,64	1,77	1,90	2,03	2,16	failure of component II see chapter 4.2.2	

Pull-through resistance of component I according to EN 1999-1-4, chapter 8.3.3.1 or specifications of the manufacturer of the aluminium structural sheeting.
The values indicated above, depending on the screw depth l_g , shall apply to $k_{mod} = 0,90$ and the timber strength class C24 ($\rho_k = 350 \text{ kg/m}^3$). For other values of k_{mod} and strength classes see chapter 4.2.2
For $k_{mod} < 0,90$: failure of component I see right column and failure of component II see chapter 4.2.2 with $f_{t,k} = 80 \cdot 10^{-6} \cdot \rho_k^2$ (load carrying class 3, ρ_k in kg/m^3 , max. 500 kg/m^3) and yield moment $M_{y,k} = 13830 \text{ Nmm}$.

Self-drilling screw	Annex 66
JT3-2-6,5xL JT6-2-6,5xL With hexagon head and seal washer $\geq \varnothing 16,0 \text{ mm}$	

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point



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Materials

Fastener: stainless steel (1.4301 / 1.4567) – EN 10088
stainless steel (1.4401 / 1.4578) – EN 10088

Washer: stainless steel (1.4301) – EN 10088
with vulcanised EPDM seal

Component I: aluminium alloy
with $R_{m,min} = 215 \text{ N/mm}^2$ – EN 573

Component II: timber – EN 14081

Drilling capacity $\Sigma t_i \leq 2,00 \text{ mm}$

Timber substructures
for timber substructures following performance were determined

$M_{y,k} = 9,742 \text{ Nm}$
 $f_{ax,k} = 8,575 \text{ N/mm}^2$ for $l_{eff} \geq 32,5 \text{ mm}$

$l_g =$	33,00	36,00	39,00	42,00	45,00	48,00	51,00	54,00	60,00		
$M_{k,nom} =$	—										
V_{fk} for $t_{d,i} =$	0,50	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70
	0,60	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96
	0,70	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21
	0,80	1,30	1,45	1,47	1,47	1,47	1,47	1,47	1,47	1,47	1,47
	0,90	1,30	1,45	1,60	1,63	1,63	1,63	1,63	1,63	1,63	1,63
	1,00	1,30	1,45	1,60	1,75	1,78	1,78	1,78	1,78	1,78	1,78
	1,20	1,30	1,45	1,60	1,75	1,90	2,05	2,20	2,22	2,22	2,22
	1,50	1,30	1,45	1,60	1,75	1,90	2,05	2,20	2,22	2,22	2,22
	2,00	1,30	1,45	1,60	1,75	1,90	2,05	2,20	2,22	2,22	2,22
$N_{E,II,k} =$	1,12	1,25	1,38	1,51	1,64	1,77	1,90	2,03	2,16	failure of component II see chapter 4.2.2	

Pull-through resistance of component I according to EN 1999-1-4, chapter 8.3.3.1 or specifications of the manufacturer of the aluminium structural sheeting.
The values indicated above, depending on the screw depth l_g , shall apply to $k_{mod} = 0,90$ and the timber strength class C24 ($\rho_k = 350 \text{ kg/m}^3$). For other values of k_{mod} and strength classes see chapter 4.2.2
For $k_{mod} < 0,90$: failure of component I see right column and failure of component II see chapter 4.2.2 with $f_{1,k} = 80 \cdot 10^{-6} \cdot \rho_k^2$ (load carrying class 3, ρ_k in kg/m^3 , max. 500 kg/m^3) and yield moment $M_{y,k} = 13830 \text{ Nmm}$.

Self-drilling screw	Annex 67
JT3-2-6,5xL JT6-2-6,5xL With hexagon head and seal washer $\geq \varnothing 16,0 \text{ mm}$	

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point



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Materials

Fastener: stainless steel (1.4301 / 1.4567) - EN 10088, stainless steel (1.4404 / 1.4578) - EN 10088

Washer: stainless steel (1.4301) - EN 10088

Component I: S320GD or S350GD - EN 10346

Component II: S235 - EN 10025-1
S280GD, S320GD or S350GD - EN 10346

Drilling capacity $\Sigma t_i \leq 2,00$ mm

Timber substructures
performance determined with

$M_{y,Rk} = 9,742$ Nm
 $f_{ax,k} = 8,575$ N/mm² for $l_{ef} \geq 26,0$ mm

$t_{N,II}$ [mm]	0,63	0,75	0,88	1,00	1,13	1,25	1,50	2,00	
$M_{t,nom}$	3 Nm								
V_{Rk} [kN] for $t_{N,I}$ [mm]	0,50	—	—	—	—	—	—	—	—
	0,55	—	—	—	—	—	—	—	—
	0,63	1,30	1,40	1,40	1,40	1,40	1,40	1,40	1,40
	0,75	1,30	1,80	2,00	2,00	2,00	2,00	—	2,00
	0,88	1,30	1,80	2,60	2,60	2,80	—	—	2,80
	1,00	1,30	1,80	2,60	3,30	—	—	—	3,30
	1,13	1,30	1,80	2,60	—	—	—	—	3,30
	1,25	1,30	1,80	—	—	—	—	—	3,30
	1,50	1,30	—	—	—	—	—	—	3,30
	1,75	—	—	—	—	—	—	—	—
	2,00	—	—	—	—	—	—	—	—
N_{Rk} [kN] for $t_{N,I}$ [mm]	0,50	0,43	0,54	0,70	0,86	0,86	0,86	0,86	1,30
	0,55	0,55	0,68	0,89	1,09	1,09	1,09	—	1,64
	0,63	0,80	1,00	1,30	1,60	1,60	1,60	—	2,40
	0,75	0,80	1,00	1,30	1,60	1,60	1,60	—	3,10
	0,88	0,80	1,00	1,30	1,60	1,60	—	—	3,80
	1,00	0,80	1,00	1,30	1,60	—	—	—	4,60
	1,13	0,80	1,00	1,30	—	—	—	—	5,50
	1,25	0,80	1,00	—	—	—	—	—	6,30
	1,50	0,80	—	—	—	—	—	—	6,30
	1,75	—	—	—	—	—	—	—	—
	2,00	—	—	—	—	—	—	—	—

The values listed above in dependence on the screw-in length l_{ef} are valid for $k_{mod} = 0,90$ and timber strength grade C24 ($\rho_a = 350$ kg/m³). For other combinations of k_{mod} and timber strength grades see section 4.2.2.

Self drilling screw

JT3-2-6,5 x L
JT6-2-6,5 x L
with hexagon head and sealing washer $\geq \text{Ø}16$ mm

Annex 68

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

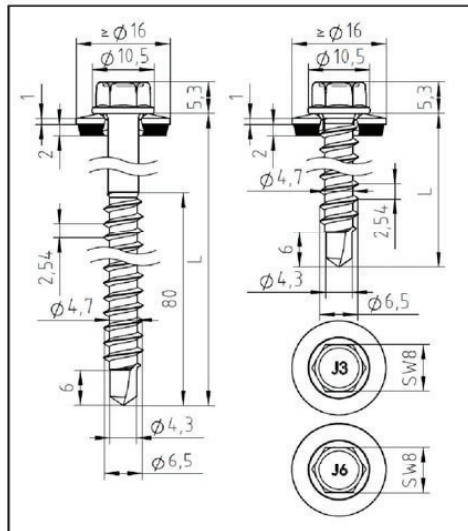


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Materials

Fastener: stainless steel (1.4301 / 1.4567) – EN 10088
stainless steel (1.4401 / 1.4578) – EN 10088

Washer: stainless steel (1.4301) - EN 10088

Component I: S320GD or S350GD – EN 10346

Component II: structural timber – EN 14081

Drilling capacity $\Sigma t_i \leq 2,00$ mm

Timber substructures

performance determined with

$M_{y,Rk} = 9,742$ Nm

$f_{ax,k} = 8,575$ N/mm² for $l_{ef} \geq 26$ mm

$l_g =$	32	38	42	48	52	58	62	68	72	78	82		
$M_{t, nom} =$	—												
V_{Rk} for $k_{t,y} =$	0,50	—	—	—	—	—	—	—	—	—	—	—	bearing resistance of component I
	0,55	—	—	—	—	—	—	—	—	—	—	—	
	0,63	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	
	0,75	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	
	0,88	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,00	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,13	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,25	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,50	2,04	2,10	2,17	2,23	2,29	2,35	2,42	2,48	2,54	2,60	2,67	
	1,75	—	—	—	—	—	—	—	—	—	—	—	
	2,00	—	—	—	—	—	—	—	—	—	—	—	
N_{Rk} for $k_{t,y} =$	0,50	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	pull-tough resistance of component I
	0,55	1,30	1,56	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	
	0,63	1,30	1,56	1,81	2,06	2,31	2,40	2,40	2,40	2,40	2,40	2,40	
	0,75	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,10	3,10	3,10	
	0,88	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,80	
	1,00	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,81	
	1,13	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,81	
	1,25	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,81	
	1,50	1,30	1,56	1,81	2,06	2,31	2,56	2,81	3,06	3,31	3,56	3,81	
	1,75	—	—	—	—	—	—	—	—	—	—	—	
	2,00	—	—	—	—	—	—	—	—	—	—	—	

The values listed above in dependence on the screw-in length l_g are valid for $k_{mod} = 0,90$ and timber strength grade C24 ($\rho_k = 350$ kg/m³). For other values of k_{mod} and timber strength grades see section 4.2.2.

Self drilling screw

JT3-2-6,5 x L

JT6-2-6,5 x L

with hexagon head and sealing washer $\geq \varnothing 16$ mm

Annex 69

Self-drilling screws JF3/JT3

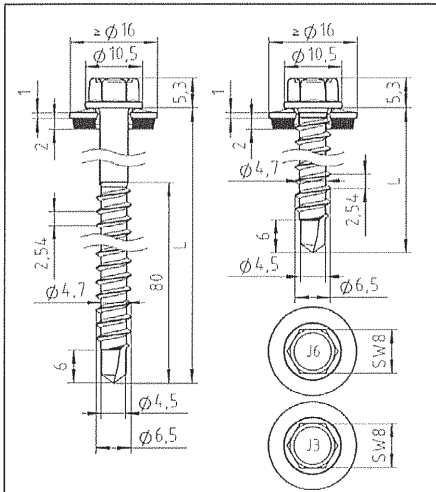
A2 stainless steel with hardened steel point / steel drill point



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Materials:

Fastener: stainless steel (1.4301) – EN 10088
stainless steel (1.4401) – EN 10088
Washer: stainless steel (1.4301) – EN 10088
Component I: S280GD – EN 10346
Component II: structural timber – EN 14081

Drilling capacity: $t_{N2} \leq 2,00$ mm

Timber supporting structures:
performance determined with

$M_{y,Rk} = 9,742$ Nm
 $f_{ax,k} = 11,810$ N/mm² für $l_{ef} \geq 44$ mm

t_{N1}, t_{N2}, d, D [mm]	50	53	56	59	62	65	68	71	74	77	80	
$V_{R,k}$ [kN]	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03
$N_{R,k}$ [kN]	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24
max u [mm]	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0
$M_{t,nom}$ [Nm]												

The values listed above in dependance on the screw-in length in length l_0 are valid for $k_{mod} = 0,90$ and timber strength grade C24 ($\rho_k = 350$ kg/m³). For other values of k_{mod} and timber strength grades see section 4.2.2.

Self drilling screw	Annex 14
EJOT® JT3-2-6,5 x L EJOT® JT6-2-6,5 x L with sealing washer $\geq \varnothing 16$ mm	

Self-drilling screws JF3/JT3

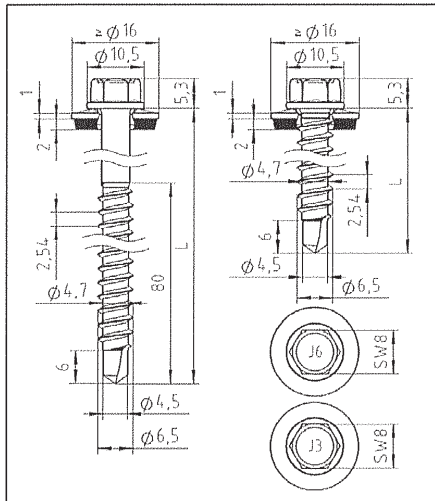
A2 stainless steel with hardened steel point / steel drill point



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English translation prepared by DIBt

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für
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Materials:

Fastener: stainless steel (1.4301) – EN 10088
stainless steel (1.4401) – EN 10088
Washer: stainless steel (1.4301) – EN 10088
Component I: S320GD or S350GD – EN 10346
Component II: structural timber – EN 14081

Drilling capacity: $t_{N2} \leq 2,00$ mm

Timber supporting structures:
performance determined with

$M_{y,Rk} = 9,742$ Nm
 $f_{ax,k} = 11,810$ N/mm² für $l_{ef} \geq 44$ mm

t_{N1}, t_{N2}, d, D [mm]	50	53	56	59	62	65	68	71	74	77	80	
$V_{R,k}$ [kN]	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	$V_{R,k,l}$ [kN]
0,40	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11
0,50	1,20	1,20	1,20	1,20	1,20	1,20	1,20	1,20	1,20	1,20	1,20	1,20
0,55	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30
0,63	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40
0,75	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40
0,88	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40
1,00	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40
$N_{R,k}$ [kN]	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	$N_{R,k,l}$ [kN]
0,40	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35
0,50	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90
0,55	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00
0,63	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70
0,75	3,04	3,25	3,45	3,60	3,60	3,60	3,60	3,60	3,60	3,60	3,60	3,60
0,88	3,04	3,25	3,45	3,66	3,87	4,08	4,28	4,40	4,40	4,40	4,40	4,40
1,00	3,04	3,25	3,45	3,66	3,87	4,08	4,28	4,49	4,70	4,91	5,11	5,30
max u [mm]	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	max u [mm]
30	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0
40	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
50	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5
60	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0
70	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5
80	13,5	13,5	13,5	13,5	13,5	13,5	13,5	13,5	13,5	13,5	13,5	13,5
100	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0
120	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0
≥ 140	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0
$M_{t,nom}$ [Nm]												

The values listed above in dependence on the screw-in length in length l_g are valid for $k_{mod} = 0,90$ and timber strength grade C24 ($\rho_k = 350$ kg/m³). For other values of k_{mod} and timber strength grades see section 4.2.2.

Self drilling screw	Annex 15
EJOT® JT3-2-6,5 x L EJOT® JT6-2-6,5 x L with sealing washer $\geq \varnothing 16$ mm	