

EJOT® SUPER-SAPHIR **self-drilling screw JT3-12-5.5**

Fastening profiled steel and aluminium sheet
and sandwich panels to 4-10 mm steel substructure

www.ejot.com

EJOT®

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point



EJOT® SUPER-SAPHIR self-drilling screw JT3-12-5.5

Length [mm]	For sandwich panels [mm]	Clamp thickness [mm]	PU	Price/100 [EUR]	Order description	Article number
Sealing washer E16, Ø 16 mm						
40	-	0 - 11	500		JT3-12-5.5x40-E16*	3 595 611 311
58	-	0 - 31	250		JT3-12-5.5x58-E16	3 595 811 311
78	20 - 40	19 - 51	250		JT3-12-5.5x78-E16	3 595 011 311
98	40 - 60	39 - 71	250		JT3-12-5.5x98-E16	3 595 111 311
118	60 - 80	59 - 91	150		JT3-12-5.5x118-E16	3 595 211 311
138	80 - 100	79 - 111	150		JT3-12-5.5x138-E16	3 595 311 311
158	100 - 120	99 - 131	150		JT3-12-5.5x158-E16	3 595 411 311
178	120 - 140	119 - 151	150		JT3-12-5.5x178-E16	3 595 511 311
198	140 - 160	139 - 171	100		JT3-12-5.5x198-E16	3 595 711 311
Sealing washer E22, Ø 22 mm						
40	-	0 - 11	250		JT3-12-5.5x40-E22	3 595 613 311
58	-	0 - 31	250		JT3-12-5.5x58-E22	3 595 813 311
78	20 - 40	19 - 51	200		JT3-12-5.5x78-E22	3 595 013 311
98	40 - 60	39 - 71	150		JT3-12-5.5x98-E22	3 595 113 311
118	60 - 80	59 - 91	150		JT3-12-5.5x118-E22	3 595 213 311
138	80 - 100	79 - 111	100		JT3-12-5.5x138-E22	3 595 313 311
158	100 - 120	99 - 131	100		JT3-12-5.5x158-E22	3 595 413 311
178	120 - 140	119 - 151	100		JT3-12-5.5x178-E22	3 595 513 311
198	140 - 160	139 - 171	100		JT3-12-5.5x198-E22	3 595 713 311

*JT6 made of A4 stainless steel upon request

Application area

- Fastening profiled steel and aluminium sheet and sandwich panels to 4-10 mm steel substructure
- Fastening profiled aluminium sheet and sandwich panels to 4-12 mm aluminium substructure

Properties

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

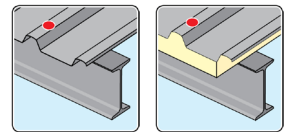
Technical Data

Drilling capacity $t_f + t_w$	1.0 + 12.0 mm / 2.0 + 10.0 mm
Drive	Hexagon AF8
Ø screw	5.5 mm

www.ausschreiben.de

Minimum tensile strength	
Ø mm	kN
5.5	10.0

Minimum shear strength	
Ø mm	kN
5.5	7.5



Approval

ETA-10/0200
ETA-13/0177

Cross reference

Accessories
ORKAN storm washers
Self-tapping screw JZ3-6.3
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.bau.ejot.com

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

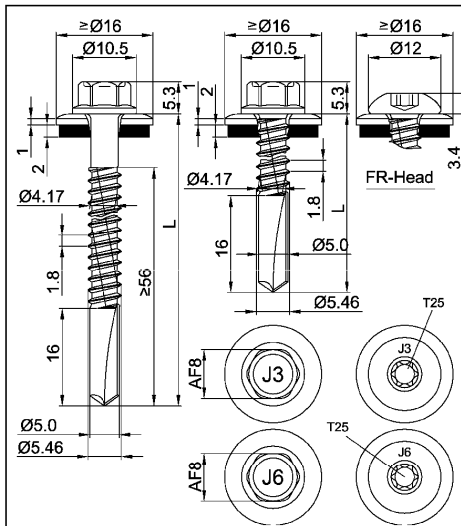


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ETA-10/0200 of 27 June 2013

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Materials

Fastener: stainless steel (1.4301) - EN 10088,
stainless steel (1.4404) - EN 10088
Washer: stainless steel (1.4301) - EN 10088
Component I: S280GD - EN 10346
Component II: S235, S275 or S355 - EN 10025-1

Drilling capacity

$\Sigma t_i \leq 13,00$ mm

Timber substructures

no performance determined

$t_{N,II}$ [mm]	4,00	5,00	6,00	8,00	10,0	12,0	13,0	14,0
$M_{t,nom}$	7 Nm							
$V_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,50	—	—	—	—	—	—	—
	0,55	—	—	—	—	—	—	—
	0,63	2,20 ac	2,20 ac	2,20 ac	2,20 ac	2,20 ac	2,20 ac	—
	0,75	2,80 ac	2,80 ac	2,80 ac	2,80 ac	2,80 ac	2,80 ac	—
	0,88	3,50 ac	3,50 ac	3,50 ac	3,50 ac	3,50 ac	3,50 a	—
	1,00	4,20 —	4,20 ac	4,20 ac	4,20 ac	4,20 ac	4,20 a	—
	1,13	4,20 —	4,90 —	4,90 —	4,90 —	4,90 —	—	—
	1,25	4,20 —	5,60 —	5,60 —	5,60 —	5,60 —	—	—
	1,50	4,20 —	6,40 —	7,20 —	7,20 —	7,20 —	—	—
	1,75	4,20 —	6,40 —	7,20 —	7,20 —	7,20 —	—	—
	2,00	4,20 —	6,40 —	7,20 —	7,20 —	7,20 —	—	—
$N_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,50	1,30 ac	1,30 ac	1,30 ac	1,30 ac	1,30 ac	1,30 ac	—
	0,55	1,64 ac	1,64 ac	1,64 ac	1,64 ac	1,64 ac	1,64 ac	—
	0,63	2,40 ac	2,40 ac	2,40 ac	2,40 ac	2,40 ac	2,40 ac	—
	0,75	3,10 ac	3,10 ac	3,10 ac	3,10 ac	3,10 ac	3,10 ac	—
	0,88	3,90 ac	3,90 ac	3,90 ac	3,90 ac	3,90 ac	3,90 a	—
	1,00	4,70 —	4,70 ac	4,70 ac	4,70 ac	4,70 ac	4,70 a	—
	1,13	4,70 —	5,60 —	5,60 —	5,60 —	5,60 —	—	—
	1,25	4,70 —	6,40 —	6,40 —	6,40 —	6,40 —	—	—
	1,50	4,70 —	6,40 —	6,40 —	6,40 —	6,40 —	—	—
	1,75	4,70 —	6,40 —	6,40 —	6,40 —	6,40 —	—	—
	2,00	4,70 —	6,40 —	6,40 —	6,40 —	6,40 —	—	—

Self drilling screw

JT3-12-5,5 x L
JT6-12-5,5 x L
JT3-FR-12-5,5 x L
JT6-FR-12-5,5 x L

with hexagon head or round head with Torx® drive system and sealing washer \geq \varnothing 16 mm

Annex 57

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

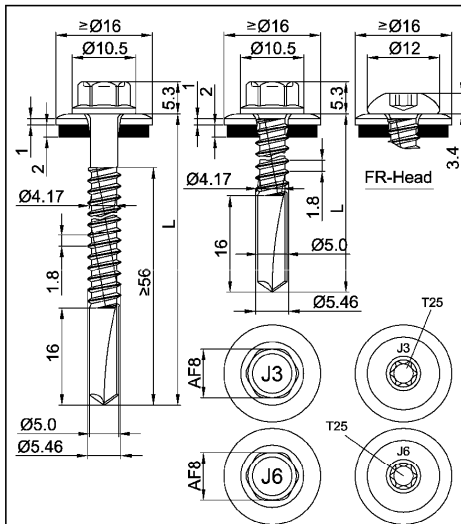


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Materials

Fastener: stainless steel (1.4301) - EN 10088,
stainless steel (1.4404) - EN 10088
Washer: stainless steel (1.4301) - EN 10088
Component I: S320GD or S350GD - EN 10346
Component II: S235, S275 or S355 - EN 10025-1

Drilling capacity

$\Sigma t_i \leq 13,00$ mm

Timber substructures

no performance determined

$t_{N,II}$ [mm]	4,00	5,00	6,00	8,00	10,0	12,0	13,0	14,0
$M_{t,nom}$	7 Nm							
$V_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,50	—	—	—	—	—	—	—
	0,55	—	—	—	—	—	—	—
	0,63	2,50 ac	2,50 ac	2,50 ac	2,50 ac	2,50 ac	2,50	—
	0,75	3,20 ac	3,20 ac	3,20 ac	3,20 ac	3,20 ac	3,20	—
	0,88	3,90 ac	3,90 ac	3,90 ac	3,90 ac	3,90 ac	3,90	—
	1,00	4,20 —	4,60 ac	4,60 ac	4,60 ac	4,60 ac	4,60	—
	1,13	4,20 —	5,30 —	5,30 —	5,30 —	5,30 —	—	—
	1,25	4,20 —	6,00 —	6,00 —	6,00 —	6,00 —	—	—
	1,50	4,20 —	6,40 —	7,20 —	7,60 —	7,60 —	—	—
	1,75	4,20 —	6,40 —	7,20 —	7,60 —	7,60 —	—	—
	2,00	4,20 —	6,40 —	7,20 —	7,60 —	7,60 —	—	—
$N_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,50	1,40 ac	1,40 ac	1,40 ac	1,40 ac	1,40 ac	1,40	—
	0,55	1,77 ac	1,77 ac	1,77 ac	1,77 ac	1,77 ac	1,77	—
	0,63	2,60 ac	2,60 ac	2,60 ac	2,60 ac	2,60 ac	2,60	—
	0,75	3,30 ac	3,30 ac	3,30 ac	3,30 ac	3,30 ac	3,30	—
	0,88	4,20 ac	4,20 ac	4,20 ac	4,20 ac	4,20 ac	4,20	—
	1,00	4,70 —	5,00 ac	5,00 ac	5,00 ac	5,00 ac	5,00	—
	1,13	4,70 —	6,00 —	6,00 —	6,00 —	6,00 —	—	—
	1,25	4,70 —	6,90 —	6,90 —	6,90 —	6,90 —	—	—
	1,50	4,70 —	6,90 —	6,90 —	6,90 —	6,90 —	—	—
	1,75	4,70 —	6,90 —	6,90 —	6,90 —	6,90 —	—	—
	2,00	4,70 —	6,90 —	6,90 —	6,90 —	6,90 —	—	—

Self drilling screw

JT3-12-5,5 x L
JT6-12-5,5 x L
JT3-FR-12-5,5 x L
JT6-FR-12-5,5 x L

with hexagon head or round head with Torx® drive system and sealing washer \geq \varnothing 16 mm

Annex 58

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

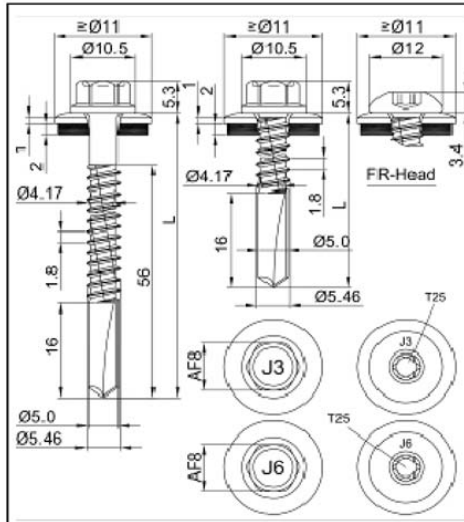


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Materials

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

Drilling capacity $\Sigma t_i \leq 13,00 \text{ mm}$

Timber substructures

for timber substructures no performance determined

$t_{N,II} =$	4,00	5,00	6,00	8,00	10,00	12,00
$M_{nom} =$	—					
$V_{R,k}$ for $t_{N,II} =$	0,50	0,77 ac	0,77 ac	0,77 ac	0,77 ac	0,77 ac
	0,60	0,94 ac	0,94 ac	0,94 ac	0,94 ac	0,94 ac
	0,70	1,10 ac	1,10 ac	1,10 ac	1,10 ac	1,10 a
	0,80	1,27 ac	1,27 ac	1,27 ac	1,27 ac	1,27 a
	0,90	1,48 ac	1,48 ac	1,48 ac	1,48 ac	1,48 a
	1,00	1,69 ac	1,69 ac	1,69 ac	1,69 ac	1,69 a
	1,20	1,94 -	1,94 -	1,94 -	1,94 ac	1,94 ac
	1,50	2,32 -	2,32 -	2,32 -	2,32 ac	2,32 ac
2,00	2,91 -	3,00 -	3,09 -	3,26 ac	3,26 a	-
$N_{R,II,k} =$	1,11	1,58	2,21	3,48	3,48	3,48

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.

Self-drilling screw

JT3-12-5,5xL JT6-12-5,5xL
JT3-FR-12-5,5xL JT6-FR-12-5,5xL
With hexagon head or FR-head and seal washer $\geq \text{Ø } 11,0 \text{ mm}$

Annex 59

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

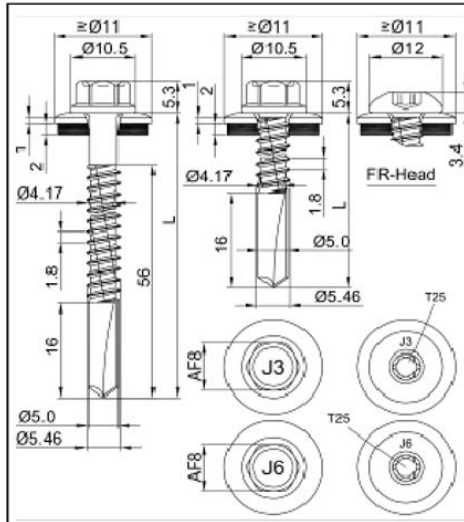


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Materials

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

Drilling capacity $\Sigma t_i \leq 13,00 \text{ mm}$

Timber substructures

for timber substructures no performance determined

$t_{N,II} =$	4,00	5,00	6,00	8,00	10,00	12,00
$M_{nom} =$	—					
$V_{R,k}$ for $t_{N,II} =$	0,50	1,00 ac	1,00 ac	1,00 ac	1,00 ac	1,00 ac
	0,60	1,22 ac	1,22 ac	1,22 ac	1,22 ac	1,22 ac
	0,70	1,44 ac	1,44 ac	1,44 ac	1,44 ac	1,44 a
	0,80	1,66 ac	1,66 ac	1,66 ac	1,66 ac	1,66 a
	0,90	1,93 ac	1,93 ac	1,93 ac	1,93 ac	1,93 a
	1,00	2,20 ac	2,20 ac	2,20 ac	2,20 ac	2,20 a
	1,20	2,52 -	2,52 -	2,52 -	2,52 ac	2,52 ac
	1,50	3,02 -	3,02 -	3,02 -	3,02 ac	3,02 ac
2,00	3,79 -	3,91 -	4,02 -	4,25 ac	4,25 a	
$N_{R,II,k} =$	1,45	2,06	2,89	4,54	4,54	4,54

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.

Self-drilling screw

JT3-12-5,5xL JT6-12-5,5xL
JT3-FR-12-5,5xL JT6-FR-12-5,5xL
With hexagon head or FR-head and seal washer $\geq \text{Ø } 11,0 \text{ mm}$

Annex 60

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

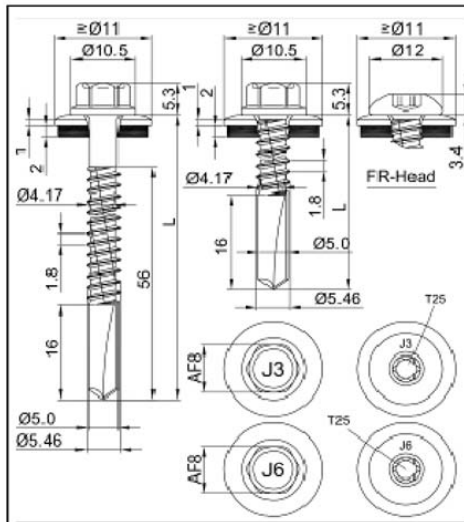


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Materials

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: S235 – EN 10025-1
S280GD, S320GD – EN 10346

Drilling capacity $\Sigma t_i \leq 13,00 \text{ mm}$

Timber substructures

for timber substructures no performance determined

$t_{N,II} =$	4,00	5,00	6,00	8,00	10,00	12,00
$M_{nom} =$	—					
$V_{R,k}$ for $t_{N,II} =$	0,50	0,77 ac	0,77 ac	0,77 ac	0,77 ac	0,77 ac
	0,60	0,94 ac	0,94 ac	0,94 ac	0,94 ac	0,94 ac
	0,70	1,10 ac	1,10 ac	1,10 ac	1,10 ac	1,10 a
	0,80	1,27 ac	1,27 ac	1,27 ac	1,27 ac	1,27 a
	0,90	1,48 ac	1,48 ac	1,48 ac	1,48 ac	1,48 a
	1,00	1,69 ac	1,69 ac	1,69 ac	1,69 ac	1,69 a
	1,20	1,94 -	1,94 -	1,94 -	1,94 ac	1,94 ac -
	1,50	2,32 -	2,32 -	2,32 -	2,32 ac	2,32 ac -
2,00	2,91 -	3,00 -	3,09 -	3,26 ac	3,26 a -	
$N_{R,II,k} =$	4,70	6,40	6,40	6,40	6,40	6,40

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.

Self-drilling screw

JT3-12-5,5xL JT6-12-5,5xL
JT3-FR-12-5,5xL JT6-FR-12-5,5xL
With hexagon head or FR-head and seal washer $\geq \text{Ø } 11,0 \text{ mm}$

Annex 61

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

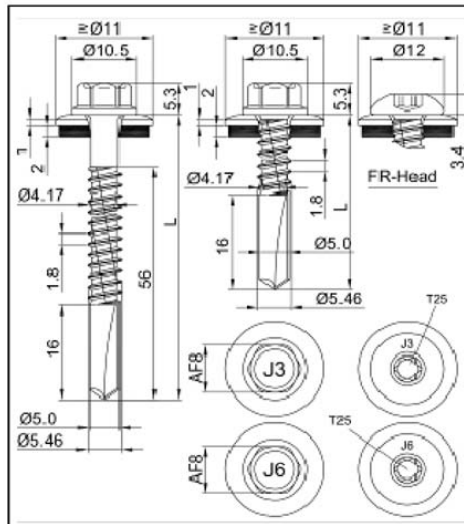


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Materials

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: S235 – EN 10025-1
S280GD, S320GD – EN 10346

Drilling capacity $\Sigma t_i \leq 13,00 \text{ mm}$

Timber substructures

for timber substructures no performance determined

$t_{N,II} =$	4,00	5,00	6,00	8,00	10,00	12,00
$M_{t, nom} =$	—					
$V_{R,k}$ for $t_{N,II} =$	0,50	1,00 ac	1,00 ac	1,00 ac	1,00 ac	1,00 ac
	0,60	1,22 ac	1,22 ac	1,22 ac	1,22 ac	1,22 ac
	0,70	1,44 ac	1,44 ac	1,44 ac	1,44 ac	1,44 ac
	0,80	1,66 ac	1,66 ac	1,66 ac	1,66 ac	1,66 ac
	0,90	1,93 ac	1,93 ac	1,93 ac	1,93 ac	1,93 ac
	1,00	2,20 ac	2,20 ac	2,20 ac	2,20 ac	2,20 ac
	1,20	2,52 -	2,52 -	2,52 -	2,52 ac	2,52 ac
	1,50	3,02 -	3,02 -	3,02 -	3,02 ac	3,02 ac
2,00	3,79 -	3,91 -	4,02 -	4,25 ac	4,25 a	
$N_{R,II,k} =$	4,70	6,40	6,40	6,40	6,40	6,40

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.

Self-drilling screw

JT3-12-5,5xL JT6-12-5,5xL
JT3-FR-12-5,5xL JT6-FR-12-5,5xL
With hexagon head or FR-head and seal washer $\geq \varnothing 11,0 \text{ mm}$

Annex 62

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

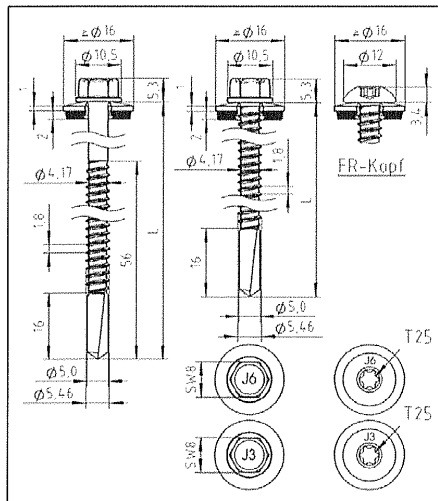


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ETA-13/0177 of 26 April 2013

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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: S235, S275 or S355 – EN 10025-1
S280GD, S320GD or S350GD – EN 10346

Drilling capacity: $\Sigma(t_{N2} + t_H) \leq 13,0 \text{ mm}$

Timber supporting structures:

No performance determined

t_{N1}, t_{N2}, d, D [mm]	3,00	4,00	5,00	6,00	t_H [mm]					
					8,00	10,0	12,0	—	—	
$V_{R,k}$ [kN]	0,40	0,90	0,90	0,90	0,90	0,90	0,90	—	—	
	0,50	0,90	0,90	0,90	0,90	0,90	0,90	—	—	
	0,55	0,90	0,90	0,90	0,90	0,90	0,90	—	—	
	0,63	1,10	1,10	1,10	1,10	1,10	1,10	—	—	
	0,75	1,60	1,60	1,60	1,60	1,60	1,60	—	—	
	0,88	2,20	2,20	2,20	2,20	2,20	2,20	—	—	
	1,00	2,90	2,90	2,90	2,90	2,90	2,90	—	—	
$N_{R,k}$ [kN]	0,40	1,54	1,54	1,54	1,54	1,54	1,54	—	—	
	0,50	1,70	1,70	1,70	1,70	1,70	1,70	—	—	
	0,55	2,00	2,00	2,00	2,00	2,00	2,00	—	—	
	0,63	2,40	2,40	2,40	2,40	2,40	2,40	—	—	
	0,75	3,00	3,10	3,10	3,10	3,10	3,10	—	—	
	0,88	3,00	3,90	3,90	3,90	3,90	3,90	—	—	
	1,00	3,00	4,70	4,70	4,70	4,70	4,70	—	—	
max u [mm]	40	14,0	7,0	6,0	5,0	5,0	5,0	—	—	
	50	16,0	8,5	7,5	6,5	6,5	6,5	—	—	
	60	18,5	10,0	9,0	8,0	8,0	8,0	—	—	
	70	20,0	12,5	11,0	10,0	10,0	10,0	—	—	
	80	22,0	15,0	13,5	12,0	12,0	12,0	—	—	
	100	26,0	19,0	18,0	15,0	15,0	15,0	—	—	
	120	29,0	22,5	20,0	18,0	18,0	18,0	—	—	
	140	33,0	26,0	23,5	21,0	21,0	21,0	—	—	
≥ 160	33,0	26,0	23,5	21,0	21,0	21,0	—	—		
$M_{t, nom}$ [Nm]										

Self drilling screw

EJOT® JT3-12-5,5 x L EJOT® JT6-12-5,5 x L
EJOT® JT3-FR-12-5,5 x L EJOT® JT6-FR-12-5,5 x L
with sealing washer $\geq \varnothing 16 \text{ mm}$

Annex 8

Self-drilling screws JF3/JT3

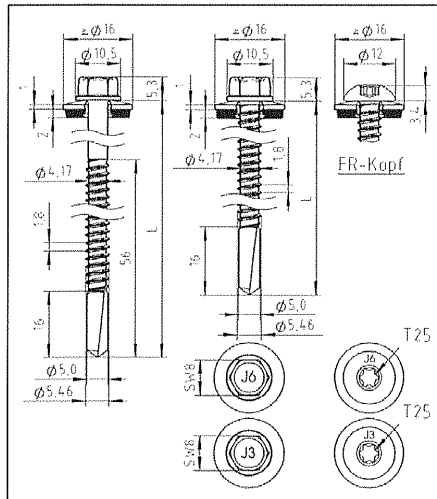
A2 stainless steel with hardened steel point / steel drill point



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English translation prepared by DIBt

Deutsches
Institut
für
Bautechnik



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: S235, S275 or S355 – EN 10025-1
S280GD, S320GD or S350GD – EN 10346

Drilling capacity: $\Sigma(t_{N2} + t_H) \leq 13,0 \text{ mm}$

Timber supporting structures:

No performance determined

t_{N1}, t_{N2}, d, D [mm]	3,00	4,00	5,00	6,00	8,00	10,0	12,0	—	—
$V_{R,k}$ [kN]	0,40	0,98	0,98	0,98	0,98	0,98	0,98	—	—
	0,50	0,98	0,98	0,98	0,98	0,98	0,98	—	—
	0,55	0,98	0,98	0,98	0,98	0,98	0,98	—	—
	0,63	1,20	1,20	1,20	1,20	1,20	1,20	—	—
	0,75	1,70	1,70	1,70	1,70	1,70	1,70	—	—
	0,88	2,40	2,40	2,40	2,40	2,40	2,40	—	—
	1,00	3,10	3,10	3,10	3,10	3,10	3,10	—	—
$N_{R,k}$ [kN]	0,40	1,66	1,66	1,66	1,66	1,66	1,66	—	—
	0,50	1,90	1,90	1,90	1,90	1,90	1,90	—	—
	0,55	2,20	2,20	2,20	2,20	2,20	2,20	—	—
	0,63	2,60	2,60	2,60	2,60	2,60	2,60	—	—
	0,75	3,00	3,30	3,30	3,30	3,30	3,30	—	—
	0,88	3,00	4,20	4,20	4,20	4,20	4,20	—	—
	1,00	3,00	4,70	5,00	5,00	5,00	5,00	—	—
max u [mm]	40	14,0	7,0	6,0	5,0	5,0	5,0	—	—
	50	16,0	8,5	7,5	6,5	6,5	6,5	—	—
	60	18,5	10,0	9,0	8,0	8,0	8,0	—	—
	70	20,0	12,5	11,0	10,0	10,0	10,0	—	—
	80	22,0	15,0	13,5	12,0	12,0	12,0	—	—
	100	26,0	19,0	18,0	15,0	15,0	15,0	—	—
	120	29,0	22,5	20,0	18,0	18,0	18,0	—	—
	140	33,0	26,0	23,5	21,0	21,0	21,0	—	—
≥ 160	33,0	26,0	23,5	21,0	21,0	21,0	—	—	
$M_{t,nom}$ [Nm]									

Self drilling screw

EJOT® JT3-12-5,5 x L EJOT® JT6-12-5,5 x L
EJOT® JT3-FR-12-5,5 x L EJOT® JT6-FR-12-5,5 x L
with sealing washer $\geq \text{ø } 16 \text{ mm}$

Annex 9