



EJOT® SUPER-SAPHIR **self-drilling screw JT3-FR-6-5.5**

Fastening corrugated profile steel sheet
to 1.5–5 mm steel substructure

www.ejot.es

EJOT®

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

EJOT®

EJOT® SUPER-SAPHIR self-drilling screw JT3-FR-6-5.5

with truss head

Ø [mm]	Length [mm]	Clamp thickness [mm]	PU	Price/100 [EUR]	Order description	Article number
Sealing washer E11, Ø 11 mm						
5.5	25	0 - 7	1,000		JT3-FR-6-5.5x25-E11	3 592 269 368
5.5	35	0 - 17	500		JT3-FR-6-5.5x35-E11	3 592 569 368

Application Range

- Fastening corrugated profile steel sheet to 1.5–5 mm steel substructure
- Fastening corrugated profile aluminium sheet to 1.5–5 mm steel or aluminium substructure


Properties

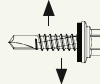
- A2 stainless steel with hardened drill point
- Stainless steel sealing washer
- Pre-assembled sealing washer

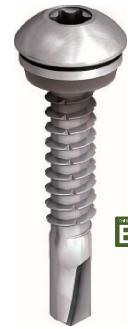
Technical Data

Drilling capacity $t_1 + t_2$	1.0 + 5.0 mm
Drive	Hexalobular drive T25

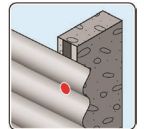
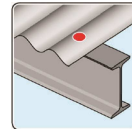
WWW.AUSSCHREIBEN.DE

Minimum tensile strength	
	
Ø mm	kN
5.5	10.0

Minimum shear strength	
	
Ø mm	kN
5.5	7.5



T25



Approval

ETA-10/0200
ETA-13/0177

Cross reference

Accessories
FR-tool
Metal screwdriver SCS 6.3

Note

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

Please download complete European technical approvals at our website:

www.ejot.es

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

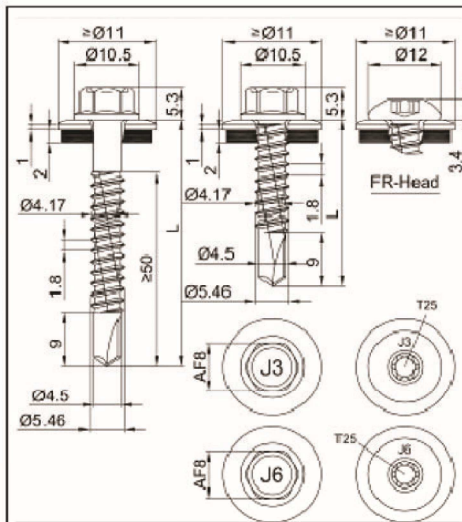


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Materials

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 $\Sigma t_i \leq 6,50 \text{ mm}$

Timber substructures

for timber substructures no performance determined

$t_{N,II} =$	2,00	2,50	3,00	4,00	
$M_{t,known} =$	—				
$V_{R,k}$ for $t_{N,II} =$	0,50	0,71 ac	0,71 ac	0,71 ac	0,71 ac
	0,60	0,89 ac	0,91 ac	0,93 ac	0,93 ac
	0,70	1,07 ac	1,11 ac	1,15 ac	1,15 ac
	0,80	1,25 ac	1,31 ac	1,36 ac	1,36 ac
	0,90	1,43 ac	1,51 ac	1,58 ac	1,58 ac
	1,00	1,61 ac	1,71 ac	1,80 ac	1,80 ac
	1,20	1,80 -	1,93 -	2,06 -	2,17 ac
	1,50	2,09 -	2,27 -	2,45 -	2,72 a
2,00	2,56 -	2,83 -	3,10 -	3,63 a	
$N_{R,tik} =$	1,03	1,68	2,33	3,63	

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

JT3-6-5,5xL JT6-6-5,5xL
JT3-FR-6-5,5xL JT6-FR-6-5,5xL
With hexagon head or FR-head and seal washer $\geq \varnothing 11,0 \text{ mm}$

Annex 53

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

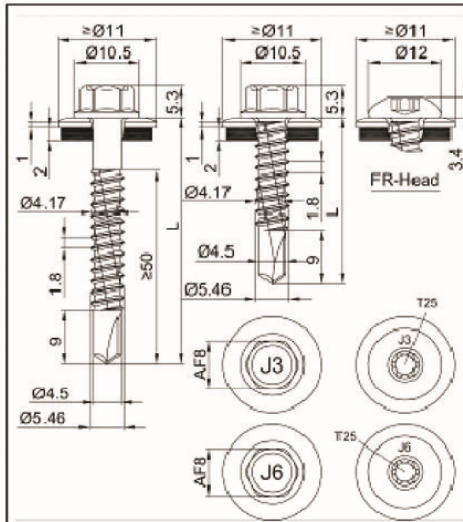


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Materials

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 $\Sigma t_i \leq 6,50 \text{ mm}$

Timber substructures

for timber substructures no performance determined

$t_{N,II} =$	2,00		2,50		3,00		4,00		
$M_{t,unom} =$	—								
$V_{R,k}$ for $t_{N,I} =$	0,50	0,93	ac	0,93	ac	0,93	ac	0,93	ac
	0,60	1,16	ac	1,19	ac	1,21	ac	1,21	ac
	0,70	1,39	ac	1,45	ac	1,50	ac	1,50	ac
	0,80	1,63	ac	1,70	ac	1,78	ac	1,78	ac
	0,90	1,86	ac	1,96	ac	2,07	ac	2,07	ac
	1,00	2,09	ac	2,22	ac	2,35	ac	2,35	ac
	1,20	2,34	-	2,51	-	2,69	-	2,72	ac
	1,50	2,71	-	2,95	-	3,19	-	3,48	a
2,00	3,33	-	3,68	-	4,03	-	4,73	a	
$N_{R,II,k} =$	1,35		2,20		3,04		4,73		

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

JT3-6-5,5xL JT6-6-5,5xL
JT3-FR-6-5,5xL JT6-FR-6-5,5xL
With hexagon head or FR-head and seal washer $\geq \text{Ø } 11,0 \text{ mm}$

Annex 54

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

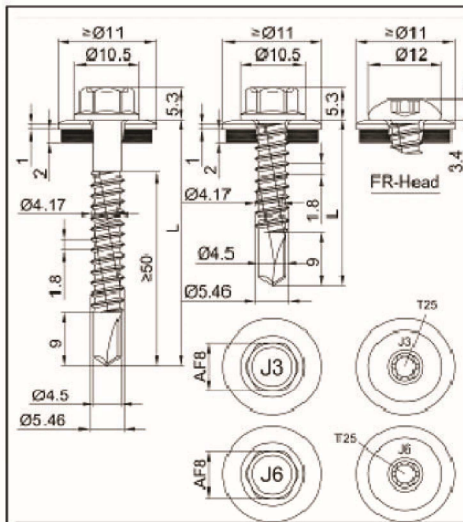


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Materials

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 $\Sigma t_i \leq 6,50 \text{ mm}$

Timber substructures

for timber substructures no performance determined

$t_{N,II} =$	1,50	1,75	2,00	2,50	3,00	4,00	-	2x1,50
$M_{t, nom} =$	—							
$V_{F,k}$ for $t_{N,II} =$	0,50	0,71 ac	0,71 ac	0,71 ac	0,71 ac	0,71 ac	0,71 ac	0,71 ac
	0,60	0,91 ac	0,91 ac	0,91 ac	0,92 ac	0,93 ac	0,93 ac	- - 0,91 ac
	0,70	1,10 ac	1,11 ac	1,12 ac	1,13 ac	1,15 ac	1,15 ac	- - 1,10 ac
	0,80	1,30 ac	1,31 ac	1,32 ac	1,34 ac	1,36 ac	1,36 ac	- - 1,30 ac
	0,90	1,49 ac	1,51 ac	1,53 ac	1,55 ac	1,58 ac	1,58 ac	- - 1,49 ac
	1,00	1,69 ac	1,71 ac	1,73 ac	1,76 ac	1,80 ac	1,80 ac	- - 1,69 ac
	1,20	1,69 -	1,79 -	1,90 -	1,97 -	2,06 -	2,17 ac	- - 1,69 -
	1,50	1,69 -	1,92 -	2,15 -	2,30 -	2,45 -	2,72 a	- - 1,69 -
	2,00	1,69 -	2,13 -	2,56 -	2,83 -	3,10 -	3,63 a	- - 1,69 -
$N_{F,II,k} =$	1,70	2,15	2,60	3,50	4,50	4,50	-	2,70

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

JT3-6-5,5xL JT6-6-5,5xL
JT3-FR-6-5,5xL JT6-FR-6-5,5xL
With hexagon head or FR-head and seal washer $\geq \text{Ø } 11,0 \text{ mm}$

Annex 55

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point

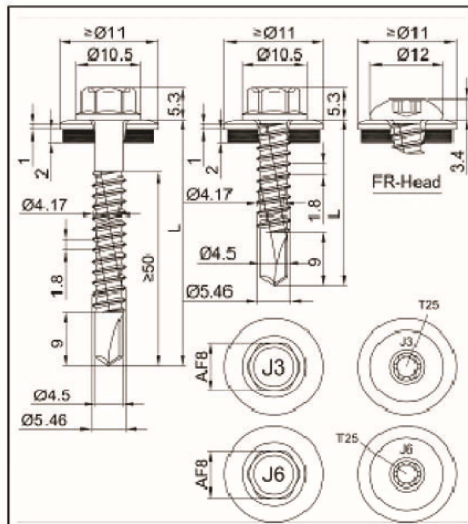


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Materials

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 $\Sigma t_i \leq 6,50 \text{ mm}$

Timber substructures

for timber substructures no performance determined

$t_{N,II} =$	1,50	1,75	2,00	2,50	3,00	4,00	-	2x1,50
$M_{t_{nom}} =$	—							
$V_{R,k}$ for $t_{N,I} =$	0,50	0,93 ac	0,93 ac	0,93 ac	0,93 ac	0,93 ac	0,93 ac	0,93 ac
	0,60	1,18 ac	1,19 ac	1,19 ac	1,20 ac	1,21 ac	1,21 ac	1,18 ac
	0,70	1,44 ac	1,45 ac	1,46 ac	1,48 ac	1,50 ac	1,50 ac	1,44 ac
	0,80	1,69 ac	1,71 ac	1,72 ac	1,75 ac	1,78 ac	1,78 ac	1,69 ac
	0,90	1,95 ac	1,97 ac	1,99 ac	2,03 ac	2,07 ac	2,07 ac	1,95 ac
	1,00	2,20 ac	2,23 ac	2,25 ac	2,30 ac	2,35 ac	2,35 ac	2,20 ac
	1,20	2,20 -	2,32 -	2,45 -	2,58 -	2,69 -	2,72 ac	2,20 -
	1,50	2,20 -	2,45 -	2,79 -	2,99 -	3,19 -	3,48 a	2,20 -
2,00	2,20 -	2,67 -	3,33 -	3,68 -	4,03 -	4,73 a	2,20 -	
$N_{R,II,k} =$	1,70	2,15	2,60	3,50	4,50	4,50	-	2,70

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

JT3-6-5,5xL JT6-6-5,5xL
JT3-FR-6-5,5xL JT6-FR-6-5,5xL
With hexagon head or FR-head and seal washer $\geq \text{Ø } 11,0 \text{ mm}$

Annex 56

Self-drilling screws JF3/JT3

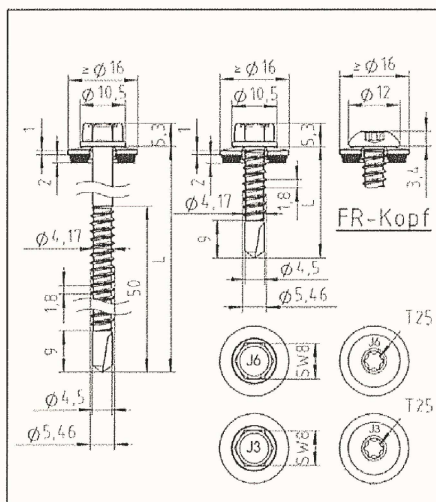
A2 stainless steel with hardened steel point / steel drill point



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

Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6,5 \text{ mm}$

Timber supporting structures:

No performance determined

t_{N1}, t_{N2}, d, D [mm]	t_{II} [mm]									
	1,50	2,0	2,50	3,00	4,00	5,00	—	—	—	
$V_{R,k}$ [kN]	0,40	0,60	0,60	0,60	0,60	0,60	0,60	—	—	—
	0,50	1,50	1,50	1,50	1,50	1,50	1,50	—	—	—
	0,55	1,50	1,50	1,50	1,50	1,50	1,50	—	—	—
	0,63	1,60	1,60	1,60	1,60	1,60	1,60	—	—	—
	0,75	2,70	2,70	2,70	2,70	2,70	2,70	—	—	—
	0,88	2,70	2,70	2,70	2,70	2,70	2,70	—	—	—
	1,00	2,70	2,70	2,70	2,70	2,70	2,70	—	—	—
$N_{R,k}$ [kN]	0,40	1,57	1,57	1,57	1,57	1,57	1,57	—	—	—
	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	1,90	2,20	2,20	2,20	2,20	2,20	—	—	—
	0,75	1,90	2,60	3,40	3,40	3,40	3,40	—	—	—
	0,88	1,90	2,60	4,10	4,10	4,10	4,10	—	—	—
	1,00	1,90	2,60	4,20	4,90	4,90	4,90	—	—	—
max u [mm]	40	20,0	15,5	7,0	7,0	7,0	6,0	—	—	—
	50	23,0	18,5	9,0	9,0	8,5	7,0	—	—	—
	60	26,0	21,5	11,0	11,0	10,0	8,0	—	—	—
	70	28,5	24,0	13,5	13,5	13,0	11,0	—	—	—
	80	31,5	27,0	16,0	16,0	16,0	15,0	—	—	—
	100	37,5	33,0	21,5	21,5	19,0	16,0	—	—	—
	120	40,0	38,5	27,0	27,0	23,0	20,0	—	—	—
140	40,0	40,0	32,5	32,5	26,0	23,0	—	—	—	
≥ 160	40,0	40,0	32,5	32,5	26,0	23,0	—	—	—	
$M_{t,nom}$ [Nm]										

Self drilling screw

EJOT® JT3-6-5,5 x L EJOT® JT6-6-5,5 x L
EJOT® JT3-FR-6-5,5 x L EJOT® JT6-FR-6-5,5 x L
with sealing washer $\geq \phi 16 \text{ mm}$

Annex 6

Self-drilling screws JF3/JT3

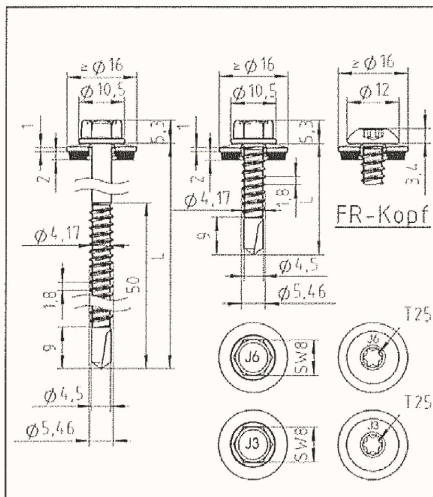
A2 stainless steel with hardened steel point / steel drill point



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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: S320GD or S350GD – EN 10346

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

Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6,50$ mm

Timber supporting structures:

No performance determined

t_{N1}, t_{N2}, d, D [mm]	1,50	2,00	2,50	3,00	t_{II} [mm]					
					4,00	5,00	—	—	—	
$V_{R,k}$ [kN]	0,40	0,65	0,65	0,65	0,65	0,65	0,65	—	—	—
	0,50	1,60	1,60	1,60	1,60	1,60	1,60	—	—	—
	0,55	1,70	1,70	1,70	1,70	1,70	1,70	—	—	—
	0,63	1,80	1,80	1,80	1,80	1,80	1,80	—	—	—
	0,75	2,80	2,80	2,80	2,80	2,80	2,80	—	—	—
	0,88	2,80	2,80	2,80	2,80	2,80	2,80	—	—	—
	1,00	2,80	2,80	2,80	2,80	2,80	2,80	—	—	—
$N_{R,k}$ [kN]	0,40	1,70	1,70	1,70	1,70	1,70	1,70	—	—	—
	0,50	1,90	1,90	1,90	1,90	1,90	1,90	—	—	—
	0,55	1,90	2,10	2,10	2,10	2,10	2,10	—	—	—
	0,63	1,90	2,40	2,40	2,40	2,40	2,40	—	—	—
	0,75	1,90	2,60	3,60	3,60	3,60	3,60	—	—	—
	0,88	1,90	2,60	4,20	4,50	4,50	4,50	—	—	—
	1,00	1,90	2,60	4,20	5,00	5,00	5,00	—	—	—
max u [mm]	40	20,0	15,5	7,0	7,0	7,0	6,0	—	—	—
	50	23,0	18,5	9,0	9,0	8,5	7,0	—	—	—
	60	26,0	21,5	11,0	11,0	10,0	8,0	—	—	—
	70	28,5	24,0	13,5	13,5	13,0	11,0	—	—	—
	80	31,5	27,0	16,0	16,0	15,0	13,0	—	—	—
	100	37,5	33,0	21,5	21,5	19,0	16,0	—	—	—
	120	40,0	38,5	27,0	27,0	23,0	20,0	—	—	—
	140	40,0	40,0	32,5	32,5	26,0	23,0	—	—	—
≥ 160	40,0	40,0	32,5	32,5	26,0	23,0	—	—	—	
$M_{t,nom}$ [Nm]										

Self drilling screw

EJOT® JT3-6-5,5 x L EJOT® JT6-6-5,5 x L
EJOT® JT3-FR-6-5,5 x L EJOT® JT6-FR-6-5,5 x L
with sealing washer $\geq \phi 16$ mm

Annex 7

Z36918.13

8.06.02-210/10