

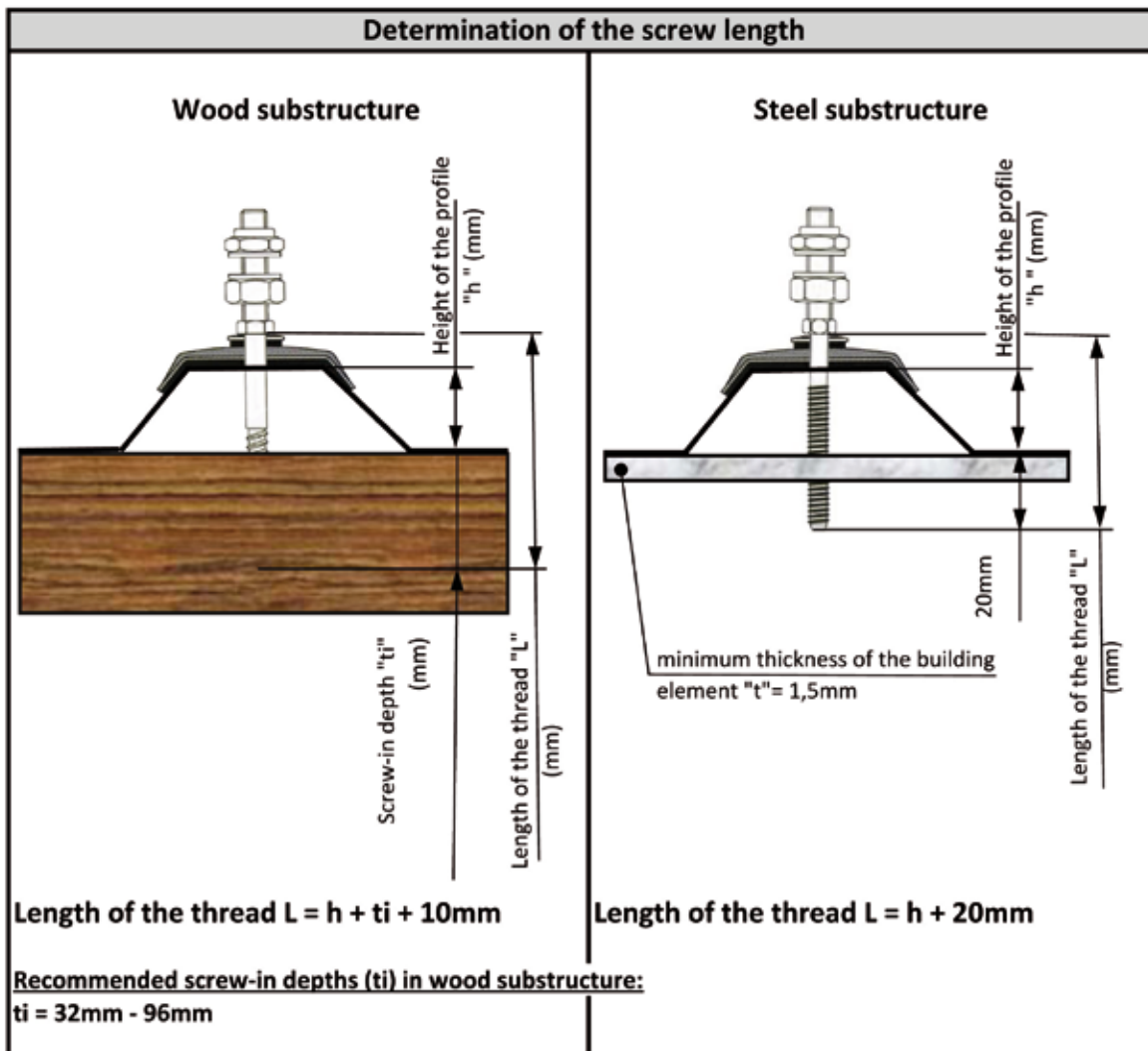


EJOT Solar Fastenings – Technical Data Sheet

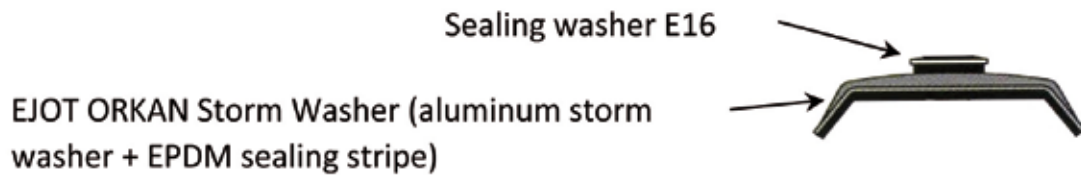
Screw - Options				
Material of the substructure	Wood		Steel	
Recommended screw	JA3-SB		JZ3-SB	
Diameter (d) of the setscrew (mm)	M10		M10	
Length (Lg) of the setscrew (mm)	50		50	
	70		70	
	Special length *		Special length *	
Screw diameter (D) (mm)	8,0		8,0	
Length (L) of the screw (mm)	80		64	
	100		80	
	130		100	
	150		125	
	180		150	
	200		160	
	Special length *		Special length *	

* Special lengths on request possible



Sealing - Options

Sealing system: EJOT ORKAN Storm Washer + sealing washer E16



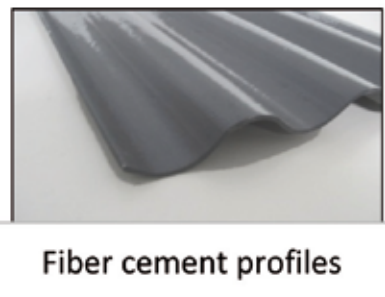
Recommended applications



Sealing system: Sealing element FZD



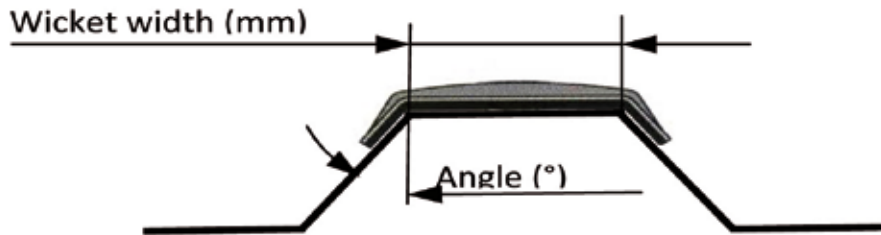
Recommended applications



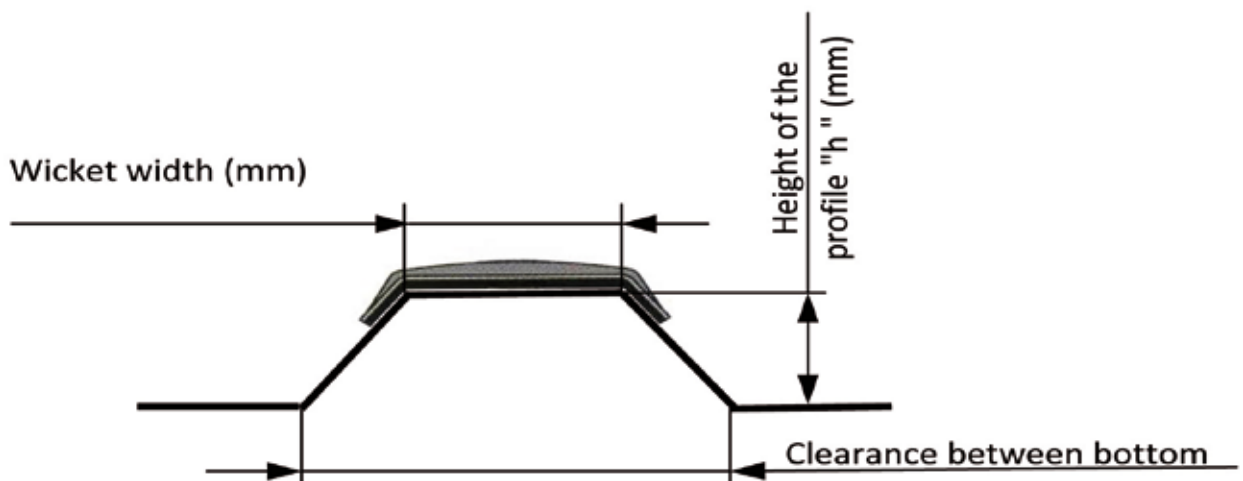
... also applicable for:



Determination of the EJOT Orkan Storm Washer



The EJOT ORKAN Storm Washer is defined by "wicket width (mm)" and "angle (°)"



Is the angle of the trapezoidal profile unknown, it will be calculated using the following information:

- Wicket width (mm)
- Clearance between bottom booms (mm)
- Height of the profile (mm)

The EJOT ORKAN Storm Washer is defined as follows (example):



**Characteristic load-bearing values $N_{R,k}$ for the EJOT Solar Fastenings
JA3-SB-8,0 x L (d=8mm) and JA3-SB-10 x L (d = 10mm)
in soft wood (strength class C24, usage class 2)**

Depending on the accumulated load duration and the screw-in depth l_{ef}

Screw-in depth l_{ef} in mm	Standard $k_{mod} = 0,6$ Longer than 10 years (usually intrinsic weight)		Long $k_{mod} = 0,7$ 6 months to 10 years		Medium $k_{mod} = 0,8$ 1 week to 6 months (usually snow)		Short $k_{mod} = 0,9$ Shorter than 1 week (usually wind)		Very Short $k_{mod} = 1,1$ Shorter than 1 minute	
	d = 8,0	d = 10	d = 8,0	d = 10	d = 8,0	d = 10	d = 8,0	d = 10	d = 8,0	d = 10
	32	1,32	-	1,54	-	1,76	-	1,98	-	2,42
40	1,65	2,06	1,92	2,40	2,20	2,74	2,47	3,09	3,02	3,77
45	1,85	2,32	2,16	2,70	2,47	3,09	2,78	3,47	3,40	4,25
48	1,98	2,47	2,31	2,88	2,63	3,29	2,96	3,70	3,62	4,53
50	2,06	2,57	2,40	3,00	2,74	3,43	3,09	3,86	3,77	4,72
56	2,31	2,88	2,69	3,36	3,07	3,84	3,46	4,32	4,23	5,28
60	2,47	3,09	2,88	3,60	3,29	4,12	3,70	4,63	4,53	5,66
64	2,63	3,29	3,07	3,84	3,51	4,39	3,95	4,94	4,83	6,04
70	2,88	3,60	3,36	4,20	3,84	4,80	4,32	5,40	5,28	6,60
72	2,96	3,70	3,46	4,32	3,95	4,94	4,45	5,56	5,43	6,79
80	3,29	4,12	3,84	4,80	4,39	5,49	4,94	6,17	6,04	7,55
85	3,50	4,37	4,08	5,10	4,67	5,83	5,25	6,56	6,41	8,02
88	3,62	4,53	4,23	5,28	4,83	6,04	5,43	6,79	6,64	8,30
90	3,70	4,63	4,32	5,40	4,94	6,17	5,56	6,95	6,79	8,49
96	3,95	4,94	4,61	5,76	5,27	6,59	5,93	7,41	7,24	9,06
100	4,12	5,15	4,80	6,00	5,49	6,86	6,17	7,72	7,55	9,43
104	4,28	5,35	4,99	6,24	5,71	7,13	6,42	8,03	7,85	9,81
110	4,53	5,66	5,28	6,60	6,04	7,55	6,79	8,49	8,30	10,38
112	4,61	5,76	5,38	6,72	6,15	7,68	6,92	8,64	8,45	10,57
120	4,94	6,17	5,76	7,20	6,59	8,23	7,41	9,26	9,06	11,32

Characteristic values of the tensile compressive strength $N_{R,k}$ of the EJOT Solar Fastening
JZ3-SB-8.0 x L in steel:

	Thickness of the substructure (steel) [mm]			
	1,50	2,00	3,00	≥ 4
$n_{r,k}$ [kN]	2,20	3,40	5,80	6,80

For intermediate values of the thickness of the substructure, $N_{R,k}$ for the smaller
component thickness must be selected.

In the case of thin-walled ($t_{II} \leq 2,00$ mm), un-symmetrical substructures (e.g. C or Z
profiles), the characteristic load-bearing values $N_{R,k}$ must be reduced by 30%.

Pre-drilling diameter in mm for profiled metal sheets and substructure

EJOT Solar Fastening	Thickness of the substructure: [mm]					
	Steel				Wood	
	1,5 ... <5,0	5,0... <7,5	7,5 ... < 10	≥ 10	≥ 32	≥ 40
JZS-SB-8,0 x L	6,8	7,0	7,2	7,4	-	-
JA3-SB-8.0 x L	-	-	-	-	5,5	5,5
JA3-SB-10,0 x L	-	-	-	-	-	7,0

Pre-drilling diameter in the profiled metal sheets = Pre-drilling diameter in the substructure

The pre-drilling diameter in roofings with fiber cement profiles always has to be bigger than the diameter of the EJOT Solar Fastening!

The pre-drilling diameter in the substructure corresponds to the indications from the table above.

Pre-drilling diameter in fiber cement profiles	
	Pre-drilling Ø [mm]
JZS-SB-8,0 x L	11,0
JA3-SB-8.0 x L	11,0
JA3-SB-10,0 x L	14,0

EJOT Baubefestigungen GmbH

In der Stockwiese 35
D-57334 Bad Laasphe
Germany
phone +49 2752 908-0
fax +49 2752 908-731
e-mail: bau@ejot.de
Internet: www.ejot.com

EJOT Solar Fastening Systems

Represented by
ATF, Inc.
3550 West Pratt Avenue
Lincolnwood, IL 60712 USA
phone +1 847 933 8588
fax +1 847 568 3713
e-mail: solar@atf-inc.com
Internet: http://www.ejot.com