



EJOT® ORKAN storm washers

Crown fixing of trapezoidal and sinusoidal profile sheets
and sandwich panels

EJOT® ORKAN storm washers

For crown fixing we recommend fastening with EJOT® ORKAN storm washers for increased installation safety, high form stability and optimum load transmission.

Requirements

EJOT® ORKAN storm washers have to fulfil multiple requirements. They utilise a consistent load distribution of the crown fixing of a trapezoidal profiled sheet or sandwich panel construction. The pronounced reinforcement flanges of the EJOT® storm washers are a guarantee for high dimensional stability and consistent load transmission.

As a so-called second insulation level the EJOT® storm washer permanently buffers the fixed size between upper substructure edge and screw head. The sheet metal crown is often slightly convex or concave. In order to compensate these tolerances a soft closed-cell rubber is ideal. No bridging arises where moisture can enter up to the fastener shank and thus the inside of the building.

The permanent compression required for the lasting watertightness of this cellular rubber is minimal and the deformation of a thin-walled trapezoidal profiled sheet can be prevented during installation.

Installation reliability

An EJOT® ORKAN storm washer also guarantees installation reliability. The installer always hits the middle of the crown after applying the storm washer which prevents scratching of the surface.

The EJOT® ORKAN storm washer enables an increased clamping force on the component, without plastic deformation. The increased load due to the use of EJOT® storm washers is documented in various building authorities test certificates (type statistics) for trapezoidal aluminium profiles.



Application Range

- Crown fixing of trapezoidal and sinusoidal profile sheets and sandwich panels

Advantages:

- Increased installation reliability
- High dimensional stability
- Optimum load transmission

Properties

- Optimised reinforcement flanges ensure high installation safety
- Secure waterproofing
- Aluminium alloy mill finish, coloured or stucco
- In combination with EJOT® self-drilling and self-tapping screws a sophisticated fastening system
- Patented Europe-wide

Note

Only use screws with 16mm washer diameter. For determination of the clamp thickness please take the storm washer into account with 3 mm.

Application example

Fastening trapezoidal profile to steel purlin ≥ 10 mm on the crown
- ORKAN storm washer
- Self-tapping screw JZ3-6.3xL
- Sealing washer E16

Cross reference

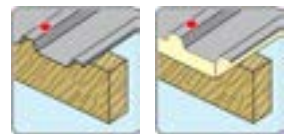
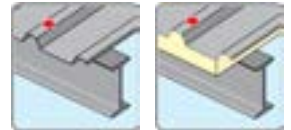
Sself-drilling screw JT3-2-6.5
Sself-drilling screw JT3-6-5.5
Sself-drilling screw JT3-12-5.5
Self-tapping screw JA3-6.5
Self-tapping screw JZ3-6.3
Self-tapping screw JZ7-6.3

EJOT® trapezoidal ORKAN storm washers

Alu mill finish

Storm washer width [mm]	Angle of leg [°]	Crown width [mm]	PU	Price/100 [EUR]	Order description	Article number
20	34	19	500		ORKAN storm washer 20-34 Alu****	-
21	16	20	500		ORKAN storm washer 21-16 Alu****	-
21	25	20	500		ORKAN storm washer 21-25 Alu****	-
23	33	22	500		ORKAN storm washer 23-33 Alu****	-
26	15	25	500		ORKAN storm washer 26-15 Alu****	-
26	27	25	500		ORKAN storm washer 26-27 Alu****	-
26	34	25	500		ORKAN storm washer 26-34 Alu****	-
26	50	25	500		ORKAN storm washer 26-50 Alu****	-
31	31	30	500		ORKAN storm washer 31-31 Alu****	-
31	37	30	500		ORKAN storm washer 31-37 Alu****	-
32	25	31	500		ORKAN storm washer 32-25 Alu****	-
34	50	33	500		ORKAN storm washer 34-50 Alu****	-
35	23	34	500		ORKAN storm washer 35-23 Alu****	-
35	47	34	500		ORKAN storm washer 35-47 Alu****	-
36	40	35	500		ORKAN storm washer 36-40 Alu****	-
41	16	40	500		ORKAN storm washer 41-16 Alu****	-
41	32	40	500		ORKAN storm washer 41-32 Alu****	-
41	39	40	500		ORKAN storm washer 41-39 Alu****	-
41	50	40	500		ORKAN storm washer 41-50 Alu****	-
53	36	52	400		ORKAN storm washer 53-36 Alu****	-
55	32	54	400		ORKAN storm washer 55-32 Alu****	-

****add four-digit RAL number code

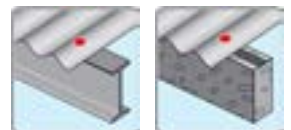


EJOT® sinusoidal ORKAN storm washer

Alu mill finish

Radius [mm]	for sinusoidal profiles	Length [mm]	PU	Price/100 [EUR]	Order description	Article number
24	18/76	50	500		ORKAN storm washers W24 Alu****	-
30	27/111	50	500		ORKAN storm washers W30 Alu****	-
48	42/160 + 55/177	50	500		ORKAN storm washers W48 Alu****	-

****add four-digit RAL number code



Standard colours

With four-digit RAL number code. Further colours upon request.

1015	2001	3000	3003	3009	3016	5010	6003	6005
6009	6011	6020	7016	7022	7032	7035	8004	8011
8012	8014	8016	8024	9002	9006	9007	9010	

Storm Washers

Trapezoidal and sinusoidal profile

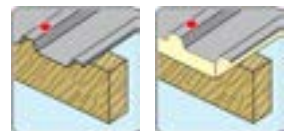
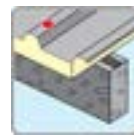
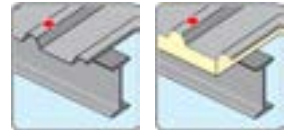


EJOT® trapezoidal ORKAN storm washers

mill finish

Storm washer width [mm]	Angle of leg [°]	Crown width [mm]	PU	Price/100 [EUR]	Order description	Article number
20	34	19	500		Storm washers 20-34 mill finish	3 046 700 110
21	16	20	500		Storm washers 21-16 mill finish	3 046 600 110
21	25	20	500		Storm washers 21-25 mill finish	3 052 125 000
23	33	22	500		Storm washers 23-33 mill finish	3 052 333 000
26	15	25	500		Storm washers 26-15 mill finish	3 046 900 110
26	27	25	500		Storm washers 26-27 mill finish	3 047 000 110
26	34	25	500		Storm washers 26-34 mill finish	3 052 634 000
26	50	25	500		Storm washers 26-50 mill finish	3 052 650 000
31	31	30	500		Storm washers 31-31 mill finish	3 053 132 000
31	37	30	500		Storm washers 31-37 mill finish	3 045 900 110
32	25	31	500		Storm washers 32-25 mill finish	3 053 124 000
34	50	33	500		Storm washers 34-50 mill finish	3 053 450 000
35	23	34	500		Storm washers 35-23 mill finish	3 046 100 110
35	47	34	500		Storm washers 35-47 mill finish	3 053 547 000
36	40	35	500		Storm washers 36-40 mill finish	3 053 538 000
41	16	40	500		Storm washers 41-16 mill finish	3 046 200 110
41	32	40	500		Storm washers 41-32 mill finish	3 049 200 110
41	39	40	500		Storm washers 41-39 mill finish	3 054 139 000
41	50	40	500		Storm washers 41-50 mill finish	3 054 150 000
53	36	52	400		Storm washer 53-36 mill finish*	3 055 336 000
55	32	54	400		Storm washers 55-32 mill finish	3 049 500 110

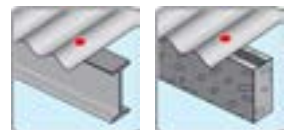
** also available with eccentric hole (for trapezoidal profiles with stiffening corrugations in the crown)



EJOT® sinusoidal ORKAN storm washer

mill finish

Radius [mm]	for sinusoidal profiles	Length [mm]	PU	Price/100 [EUR]	Order description	Article number
24	18/76	50	500		Storm washer W24 mill finish	3 047 700 110
30	27/111	50	500		Storm washer W30 mill finish	3 050 030 000
48	42/160 + 55/177	50	500		Storm washer W48 mill finish	3 047 400 110



Storm Washers

Trapezoidal and sinusoidal profile

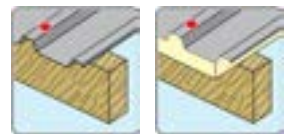
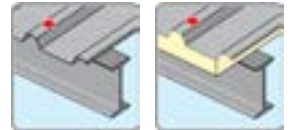


EJOT® trapezoidal ORKAN storm washers

Alu-stucco

Storm washer width [mm]	Angle of leg [°]	Crown width [mm]	PU	Price/100 [EUR]	Order description	Article number
20	34	19	500		ORKAN storm washer 20-34 alu stucco	3 046 700 119
21	16	20	500		ORKAN storm washer 21-16 alu stucco	3 046 600 119
21	25	20	500		ORKAN storm washer 21-25 alu stucco	-
23	33	22	500		ORKAN storm washer 23-33 alu stucco	3 062 333 000
26	15	25	500		ORKAN storm washer 26-15 alu stucco	3 046 900 119
26	27	25	500		ORKAN storm washer 26-27 alu stucco	3 047 000 119
26	34	25	500		ORKAN storm washer 26-34 alu stucco	3 062 634 000
26	50	25	500		ORKAN storm washer 26-50 alu stucco	-
31	31	30	500		ORKAN storm washer 31-31 alu stucco	-
31	37	30	500		ORKAN storm washer 31-37 alu stucco	3 045 900 119
32	25	31	500		ORKAN storm washer 32-25 alu stucco	-
34	50	33	500		ORKAN storm washer 34-50 alu stucco	-
35	23	34	500		ORKAN storm washer 35-23 alu stucco	3 046 100 119
35	47	34	500		ORKAN storm washer 35-47 alu stucco	-
36	40	35	500		ORKAN storm washer 36-40 alu stucco	3 063 640 000
41	16	40	500		ORKAN storm washer 41-16 alu stucco	3 046 200 119
41	32	40	500		ORKAN storm washer 41-32 alu stucco	3 049 200 119
41	39	40	500		ORKAN storm washer 41-39 alu stucco	-
41	50	40	500		ORKAN storm washer 41-50 alu stucco	-
53	36	52	400		Storm washer 53-36 alu stucco*	3 085 336 000
55	32	54	400		ORKAN storm washer 55-32 alu stucco	3 049 500 119

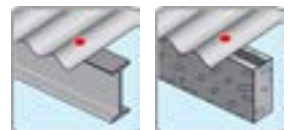
** also available with eccentric hole (for trapezoidal profiles with stiffening corrugations in the crown)



EJOT® sinusoidal ORKAN storm washer

Alu-stucco

Radius [mm]	for sinusoidal profiles	Length [mm]	PU	Price/100 [EUR]	Order description	Article number
24	18/76	50	500		Storm washer W24 Alu stucco	3 047 700 119
30	27/111	50	500		Storm washer W30 Alu stucco	3 060 030 000
48	42/160 + 55/177	50	500		Storm washer W48 Alu stucco	3 060 048 000



Storm Washers – Selection Guide

This list is not exhaustive. Not listed profiles upon request!



Selection guide

Our application engineering will gladly assist you in selecting the right choice of storm washer.

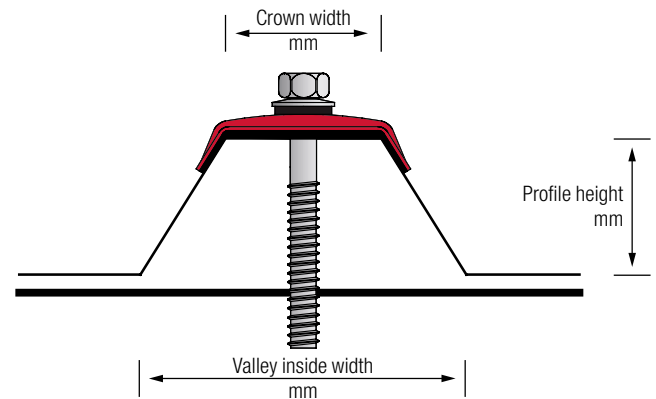
We only need the following three values:

- crown width [mm]
- profile height [mm]
- Valley inside width [mm]

Fax reply

Please fax the three values to the following fax number:

Fax: +49 2752 908-731



Manufacturer	Profile description	Storm washer	
Alubel	alubel 28	41 - 32	
	alubel 21	26 - 34	
	alubel 40	41 - 32	
	alubel 44	31 - 31	
	Alutech Dach	26 - 27	
Aluform	Aluform 20/125	41 - 32	
	Aluform 29/124	20 - 34	
	Aluform 30/153	26 - 34	
	Aluform 40/167	35 - 23	
	Aluform 42/250	31 - 31	
	Aluform 45/150	26 - 27	
	Aluform 45/200	41 - 24	
	Alutherm DT 900	26 - 27	
	Alutherm DT 1000	31 - 31	
	Sinusoidal Profile 18/76	W 24	
	Sinusoidal Profile 35/137	W 43	
	Sinusoidal Profile 55/177	W 48	
Arcelor	A 35/207	35 - 47	
	AL 34/207	41 - 39	
	B 35/207	41 - 16	
	39/333 T	26 - 27	
	AL 40/183	41 - 16	
	A 40/183	41 - 24	
	AL 42/333 S	31 - 21	
	44/180	53 - 36	
	AL 45/150	26 - 27	
	50/262.5	46 - 43	
	85/280	41 - 39	
	100/275	41 - 24	
	105/345	41 - 24	
	106/250	41 - 16	
	Ondatherm 1001 TS	26 - 27	
	Ondafibre 3005 T	26 - 27	
	Agratherm 1001 TS	26 - 27	
	Sinusoidal Profile 18/76	W24	
	Balex	Balextherm-PV-R	26 - 27
	Bieber	20/125	41 - 32
30/262K		41 - 50	
35/207		41 - 32	

Manufacturer	Profile description	Storm washer
Bieber	40/183/183 S	41 - 16
	50/250	41 - 39
	50/262	46 - 43
	58/315K	53 - 36
	70/200	53 - 18
	80/307	41 - 32
	89/305	41 - 32
	100/275	41 - 24
	106/250	41 - 16
	110/333	41 - 16
	135/310	41 - 24
	150/280	41 - 24
	160/250	41 - 16
170/250	41 - 16	
Brucha	DP72/82/102/122/142/162	26-15
	DP-F	26 - 34
DS Staalprofil	DS 20/115	26 - 34
	DS 35/190	41 - 39
	DS 35/206	36 - 40
	DS Sinus 35/143	W 30
	SISCOROOF 4G	21 - 16
	SISCOTEK ROOF 4G	21 - 16
Feilmeier	EL 22/214	36 - 40
	EL 30/220	41 - 50
	EL 35/207	41 - 32
	EL 39/333/S	36 - 32
	EL 40/183	41 - 16
	EL 45/333/S	31 - 37
	EL 50/250	53 - 36
Finish Profiles	Sinusoidal Profile EL 18/76	W24
	Dakprofil 18 - 76	W 24
	Dakprofil 42 - 960	W 48
	Dakprofil 20 - 1090	31 - 47
	Dakprofil 35 - 1000	41 - 24
	Dakprofil 40 - 915	41 - 16
	Dakprofil 50 - 1000	55 - 32
	Dakprofil 58 - 945 KD	53 - 36
	Dakprofil 70R - 800	53 - 18
	Fischer	35/207

Storm Washers – Selection Guide

This list is not exhaustive. Not listed profiles upon request!



Manufacturer	Profile description	Storm washer
Fischer	40/183	41 - 16
	50/250	55 - 32
	85/280	41 - 32
	100/275	41 - 24
	135/310	41 - 24
	150/280	41 - 24
	165/250	41 - 16
	Sinus 18	W 24
	Sinus 27	W 30
	Sinus 42	W 48
	DL 70; 80; 100; 120; 140; 160	41 - 32
	20/220	41 - 50
Friedrich von Lien AG Weckmann	W-20/990	26 - 34
	W-20/1100	26 - 50
	W-45R/900	41 - 24
	W-45ER/1000	31 - 43
	W-155/840	41 - 24
W-1/1064	W 24	
Hoesch Bausysteme	Hoesch Thermodach	41 - 32
	T 35.1	41 - 39
	T 40.1	41 - 16
	T 50.1	55 - 32
	T 85.1	41 - 32
	T 100.1	41 - 24
	T 106.1	41 - 16
	WP 18/76	W 24
	WP 42/160	W 48
	WP 27/111	W 30
Italpanelli	Penta 40	21 - 16
Joriside	Jl 33.250.1000	23 - 33
	Jl 45.333.1000	26 - 27
	Jl 35.207.1035	41 - 39
	Jl 40.183.915	41 - 16
	Jl 50.250.1000	55 - 32
	Jl 56.317.945	53 - 42
	Jl Roof 1000	26 - 27
	Jl Ecopaneel 1000	23 - 33
Kingspan	KS 1000 RW	32 - 25
	KS 1000 FF	23 - 33
Klinger & Partner	35.207.1035	41 - 39
	39.333.1000	26 - 34
Klöckner	KAS AL-20/125 A	41 - 32
	KAS AL-30/153 A	26 - 27
	KAS-35/207	41 - 32
	KAS AL-40/167 A	35 - 23
	KAS-40/183	41 - 16
	KAS AL-45/200 A	41 - 24
	KAS-50/250	55 - 32
	KAS-85/280	41 - 39
	KAS-89/305	41 - 32
	KAS -18/76	W 24
	KAS -42/160	W 48
	KAS -55/177	W 48
	KAS -D 65 - 115	36 - 40
	KAS -D 68	21 - 16

Manufacturer	Profile description	Storm washer
Klöckner	KAS -D 80	41 - 32
	KAS -D 62 - 142	26 - 15
Lattonedil	Isocopre	21 - 25
	Eurocinque	21 - 25
	Eurocopre	21 - 25
Laukien	35 - 207	41 - 32
	22 - 214	41 - 39
	20 - 75	26 - 34
	45 - 333 S	26 - 27
	40 - 100	31 - 31
	50 - 250	41 - 39
	18 / 76	W 24
	27 / 111	W 30
	42 / 160	W 48
	55 / 177	W 48
Lindab	LP 20	26 - 34
	LP 35	41 - 32
	LP 1100	26 - 45
	Sinus 18	W 24
Luxmetall	LM40 250 1000	26 - 27
	LM19 156 1094	26 - 45
	LM 27-111-1000	W 30
Maas	20-75	26 - 34
	22-214	41 - 39
	35-207	41 - 32
	40-100	31 - 31
	45-150	26 - 27
	45-333 S	26 - 27
	Sinusoidal profile 18/76	W24
Sinusoidal profile 27/111	W30	
Sinusoidal profile 55/177	W48	
Metecno	Isopaneel	26 - 27
	G4	21 - 16
	Hipertec Dach	21 - 16
	Hipertec Dach Sound	21 - 16
	Toproof DG	20 - 34
	SISCO	21 - 16
	SP 20	26 - 34
SP 26	41 - 24	
SP 30	41 - 50	
SP 35	41 - 32	
SP 40	41 - 16	
SP 41	41 - 24	
SP 44	31 - 22	
SP 45	41 - 32	
SP 59	35 - 23	
SP 80	41 - 16	
Montana	MTD TL 65	35 - 23
	MTD TL 85	35 - 23
	MTD TL 105	35 - 23
	MTD TL 125	35 - 23
	MTD TL 145	35 - 23
	SP 18/1064	W 24
	SP 27/1000	W 30
	SP 42/960	W 48

Storm Washers – Selection Guide

This list is not exhaustive. Not listed profiles upon request!



Manufacturer	Profile description	Storm washer
M-Profile	KP	36 - 40
Münker	M 20/210	41 - 39
	M 35.1/207	35 - 47
	M 35/207	41 - 39
	M 40.1/183	41 - 24
	M 40/183	41 - 16
	M 40KD/333	26 - 27
	M 50/250	55 - 32
	M 85/280	41 - 39
	M 100/275	41 - 24
	M 150/280	41 - 24
O-Metal	M 160/250	41 - 16
	M 40/333	26 - 34
	20,125/8	41 - 32
	20,136/8	31 - 45
	25,280/3	41 - 16
	25,268/4	26 - 38
	30,207/5	35 - 23
	30,153/7	26 - 34
	35,207/5	41 - 39
	40,183/5	41 - 16
	40,250/4	26 - 27
	45,150/6	26 - 27
	45,333/3	26 - 27
	50,250/4	55 - 32
	50,262.5/4	46 - 43
	Sinusoidal profile 18/76	W 24
	Sinusoidal profile 55.177	W48
Sinusoidal profile 27.111	W30	
Plannja	Plannja 19	26 - 45
	Plannja 20-105	26 - 38
	Plannja 35	41 - 32
	Sinus 18	W24
	Sinus 51	W48
	Plannja 20	36 - 40
	Plannja 60	41 - 16
	Plannja 30	31 - 37
Proge	Plannja 45	41 - 39
	20/154	26 - 34
	26/143	41 - 32
	30/207	35 - 47
	30/220	41 - 50
	30 KD	41 - 50
	35/207	41 - 39
	40/183	41 - 16
	45/150	41 - 32
	45/333	32 - 25
	50/250	55 - 32
	58 KD	53 - 42
	59/225	35 - 23
	70/200	53 - 18
	80/277	41 - 16
	85/280	41 - 39
	89/305	41 - 32
100/275	41 - 24	

Manufacturer	Profile description	Storm washer	
Proge	105/345	41 - 24	
	106/250	41 - 16	
	Sinusoidal Profile 18/76	W 24	
	Sinusoidal profile 27/111	W 30	
	Sinusoidal profile 42/160	W 48	
	Sinusoidal Profile 55/177	W 48	
Romakowski	D62; D82; D102; D122; D142	26 - 15	
	19(KD)/1050	26 - 50	
	35R/1035	41 - 32	
	40R/915	41 - 16	
	50R/1000	55 - 32	
	70R/800	53 - 18	
	85R/1120	41 - 39	
	89R/915	41 - 32	
	100R/825	41 - 24	
	30KD/1050	41 - 50	
Sab	45KD/1000	32 - 25	
	58KD/945	53 - 36	
	65-75-95-115-135	36 - 40	
	D 135.1000 TL	36 - 40	
	18 / 988	W 24	
	42 / 960	W 48	
	27 / 1000	W 24	
	Salzgitter	PS 35/207	41 - 32
		PS 40/183	41 - 16
		PS 50/250	55 - 32
PS 85/280		41 - 39	
PS 100/275		41 - 24	
Siegmetall	SIP D	41 - 32	
	S 18/76	W 24	
	S 35/207	35 - 47	
	40/183	41 - 16	
	40/333	26 - 27	
	50/250	55 - 32	
	CB 75/305	41 - 39	
	85/280	41 - 32	
Trimo	100/275	41 - 16	
	SNV	26 - 27	
Wurzer Profiliertechnik	WU 20/125	41 - 32	
	WU 30/200	20 - 34	
	WU 30D/207	35 - 47	
	WU 30W/207	35 - 47	
	WU 35/207	41 - 32	
	WU 40/183	41 - 16	
	WU 45/333	26 - 27	
	WU 50/250	55 - 32	
	WU 80/307	41 - 32	
	WU 100/275	41 - 24	
	WU 18/76	W 24	
	WU 27/111	W 30	
	WU 55/177	W 48	