



The EJOT[®] solar portfolio

Your solar system. Our fastening solution.

Bringing it together.





Combating climate change

Solutions for a carbon-neutral future

Climate change is an ongoing and ever-present phenomenon. Confronted with the significant task ahead, we must strive to reduce our energy demands, transition fundamentally to renewable sources, and lower our carbon dioxide emissions. This is the only way we can reduce the impact of climate change on our planet. However, we can only succeed if we all work together and focus on innovations that really make a difference. Here at EJOT, this means helping to develop the most innovative solutions for sustainable building envelopes – solutions that may be invisible to the naked eye, but which save or even generate energy.

For over 100 years, EJOT has been connecting things that move and inhabit people's lives. As an international market leader for innovative fastening systems, we operate wherever surpassing the most stringent standards is imperative – from the tiniest screw to the largest installation. We not only provide cutting-edge solutions for every challenge but also tackle the most taxing problems. If a solution doesn't exist for a particular requirement, we commit to finding one.

Together with our customers, we are shaping the future. We develop solutions that preserve resources and safeguard the environment. This represents our sustainable response to the unique demands of tomorrow, which we confront in collaboration with you.

EJOT. Bringing it together.



Energy from the sun

EJOT® focuses on the market of the future

The demand for renewable, clean energy is growing all the time. The solar industry, in particular the photovoltaic sector, is one of the fastest growing industries worldwide. In 2022 alone, 239 GW of new solar capacity was connected to the grid worldwide, which represents a new record and an impressive annual growth rate of 45% – the highest since 2016, according to a study by SolarPower Europe. In addition to China, the USA, India and Brazil, the countries with the strongest growth in the solar sector are Spain and Germany in 5th and 6th place on a global scale.

Photovoltaics with high growth rate

The expansion of solar energy is unrivalled compared to other power generation technologies. In 2022, photovoltaics constituted two-thirds of newly installed renewable electricity capacities, recording the highest growth rate in electricity generation among all power generation technologies at 24%. This trend is expected to continue in a similarly positive manner over the coming years.

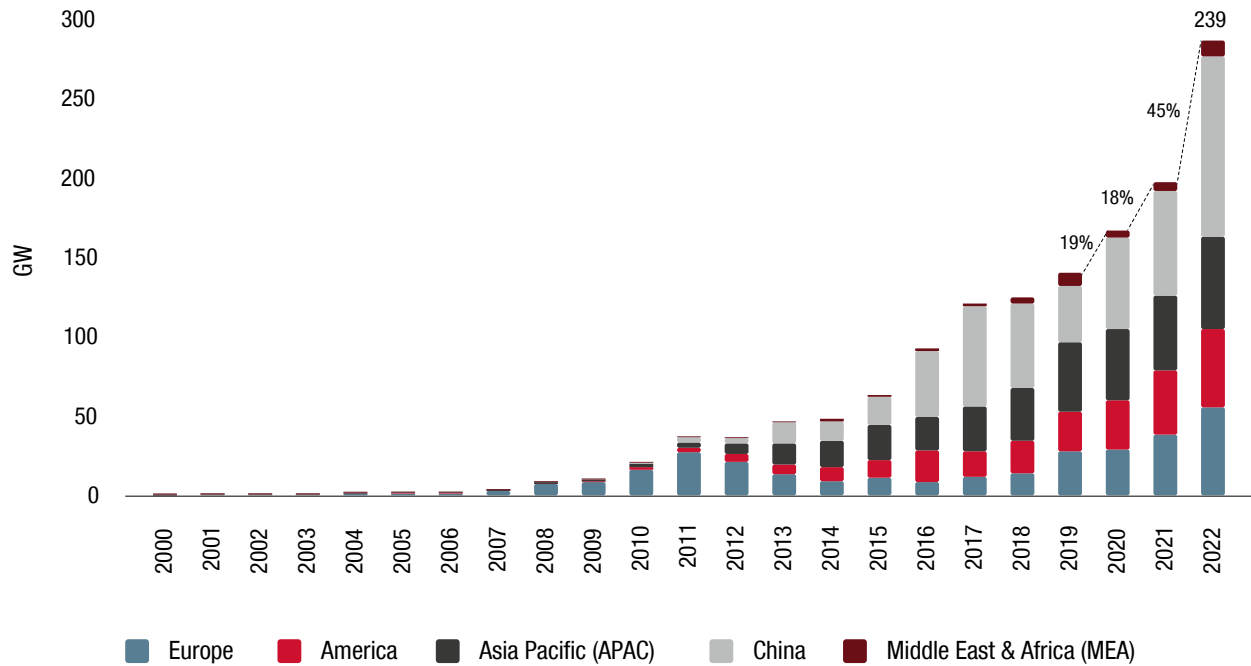
The right solution for every requirement

EJOT stocks a comprehensive portfolio of fastening solutions for solar systems on a wide variety of roof types and substrates. We offer the perfect solution for every requirement, delivering comprehensive guidance and developing individualised, customised products when necessary. We work with our customers to find the perfect fastening for your individual needs. EJOT excels in collaborative partnerships and maintaining close dialogue, marking it as one of the company's distinctive strengths.



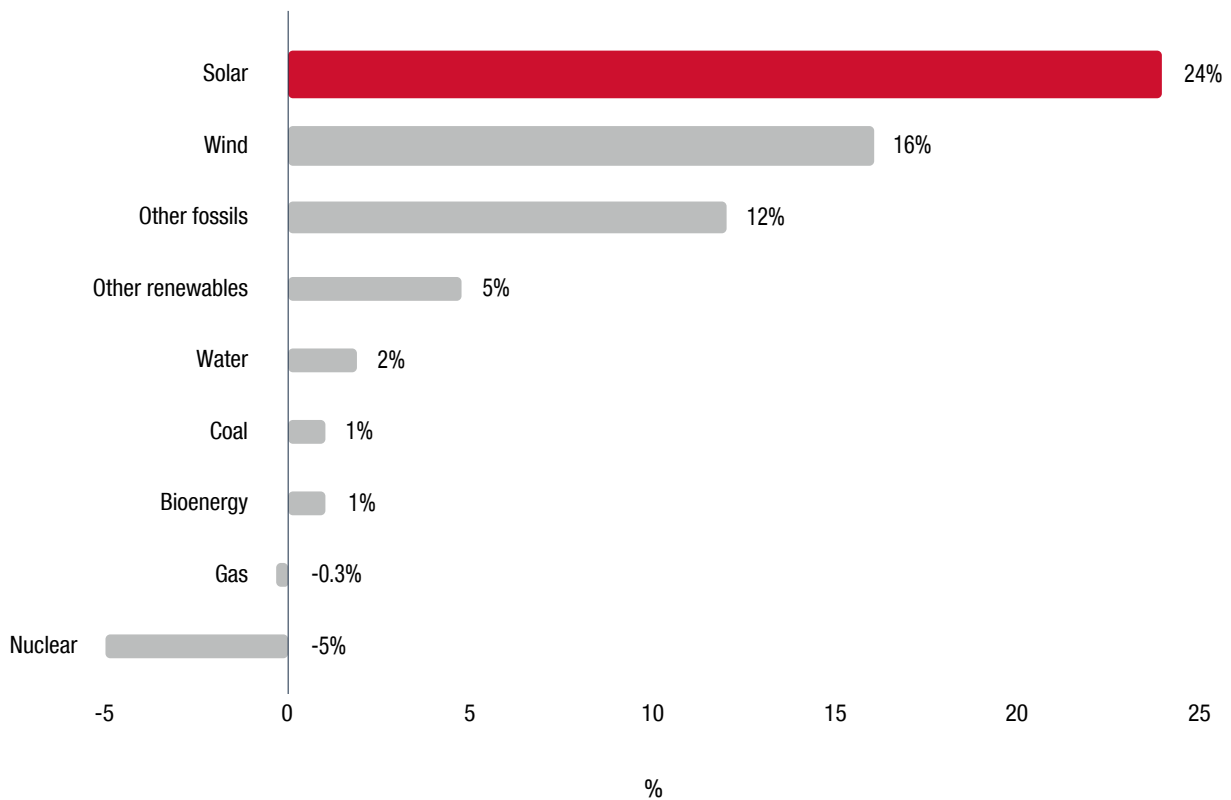
Annual solar PV capacity installed 2000–2022

© SolarPower Europe 2023



Growth rate of electricity production from 2021 to 2022

© SolarPower Europe 2023





Safely onto the roof

Cost-effective fastening systems for photovoltaic systems

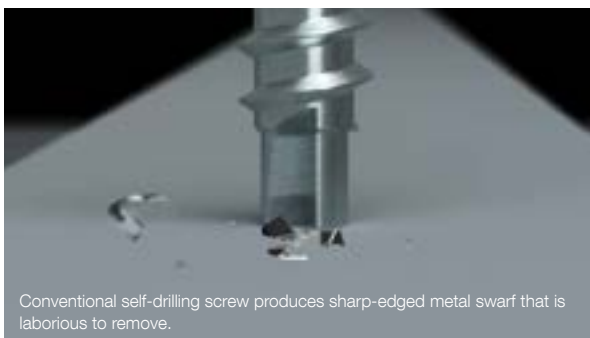
When using self-drilling screws with a conventional cutting bit, the assembly process generates metal swarf that must be painstakingly removed afterwards. If the swarf is not cleaned up properly, it can cause corrosion within a very short time.

The self-drilling screws in the EJOFAST® family have reduced swarf, which means that they have a unique tip geometry without a conventional cutting edge, which does not produce any sharp-edged swarf during processing. The very fine swarf fragments from the EJOFAST® self-drilling screws do not need to be removed. This saves both time and money.

At the same time, the specially drawn-out tip enables secure application to the surface. Displacement or slipping is almost impossible, and there is no risk of scratching the component surface. The special thread

shape also allows for high assembly speed. Due to the unique screw point geometry and the special thread form, the EJOFAST® screw not only fastens with reduced swarf and at high speed, it also features excellent clamping properties. This makes them a fast, clean and therefore ideal all-purpose choice in the solar sector.

EJOFAST® JF3-2-5.5 and JF3-2-6.0 self-drilling screws with a slightly larger diameter are used in the solar sector. The JF3-2-6.0 was developed specifically for pre-punched mounting rails from various manufacturers. EJOFAST® self-drilling screws are approved for international use.



Conventional self-drilling screw produces sharp-edged metal swarf that is laborious to remove.



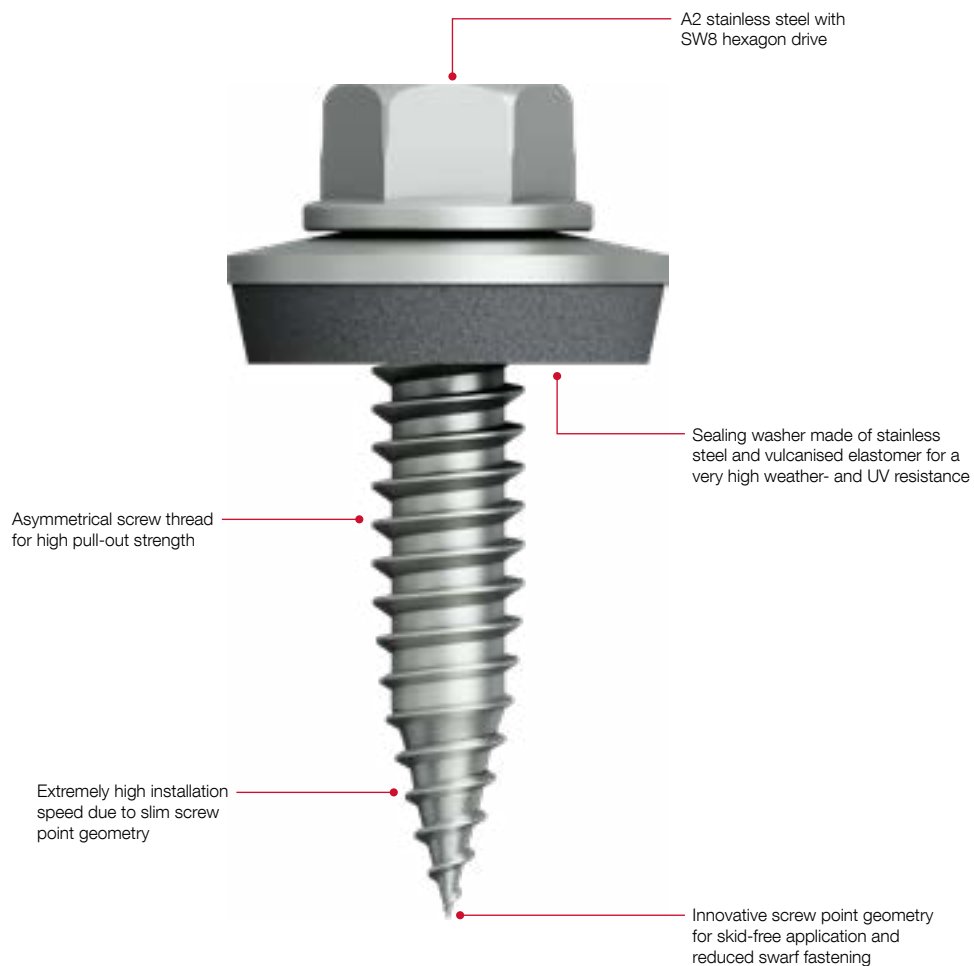
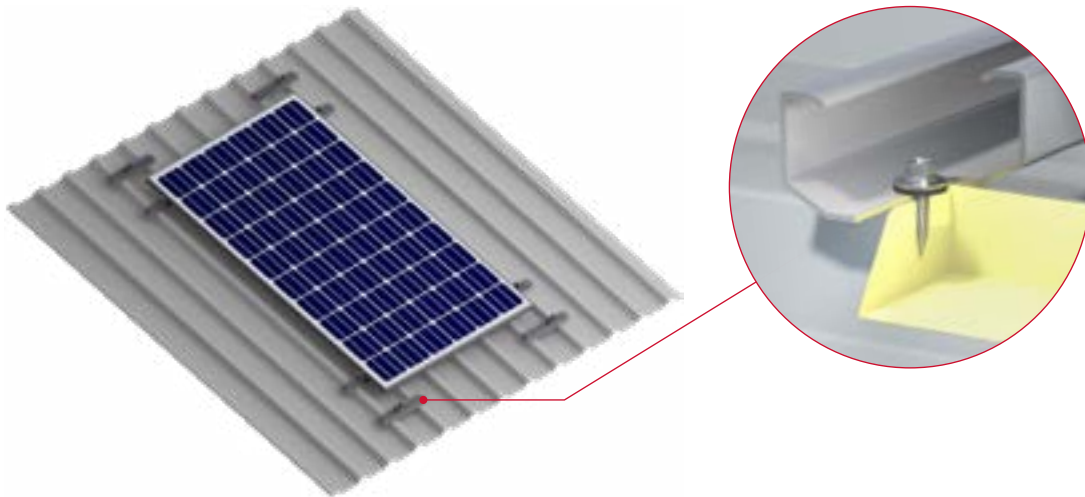
The fine swarf fragments from the EJOFAST® self-drilling screws do not need to be removed.

EJOFAST® self-drilling screw

The strongest, cleanest and most secure self-drilling screw

EJOFAST® is the universal solution for the solar sector. When it comes to fixing the support profiles to the roof or fastening the photovoltaic modules to the

mounting rails – EJOFAST® is always the right choice. The self-drilling screw also possesses outstanding properties and can be processed swiftly.



EJOFAST® self-drilling screw JF3-2-5.5

EJOFAST® self-drilling screw JF3-2-6.0



Application range

Fastening components and brackets to thin-walled metal profiles for photovoltaic installations:

- > Fastening trapezoidal sheet flashings, clips for fixing standing seam systems or pre-punched retainers to thin-walled steel substructures (e.g. profiled sheets)
- > Fixing wind deflector sheets to profiled elements

Properties

- > A2 stainless steel with hardened steel point
- > Stainless steel sealing washer
- > Pre-assembled sealing washer
- > Non-skid application
- > Reduced swarf fastening
- > High load-bearing capacity

Cross references

Socket wrench insert SW8
Cordless screwdriver ASCS 6.3



Application example

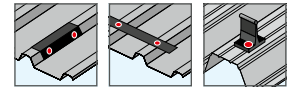
Fixing wind deflector sheets to elevated flat roof systems

Product online

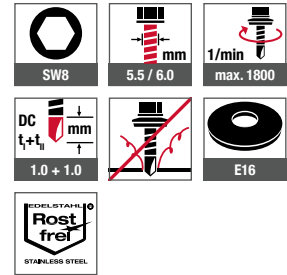


EJOFAST

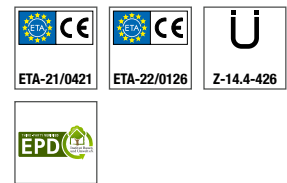
Applications



Technical specifications



Certifications



Order description	Length [mm]	Clamping thickness [mm]	Packaging unit [pieces]	Price/100 [EUR]	Article number	EAN
Sealing washer E 16, diameter 16 mm						
JF3-2-5.5x25 E16	25	0–7	500		3597211391	4061245015040
JF3-2-5.5x25 E16 VE100	25	0–7	100		6597211391	4061245014609
JF3-2-5.5x35 E16	35	0–17	500		3597511391	4061245015026

Product online



Order description	Length [mm]	Clamping thickness [mm]	Packaging unit [pieces]	Price/100 [EUR]	Article number	EAN
Sealing washer E 16, diameter 16 mm						
JF3-2-6.0x25-E16	25	0–7	500		3595511391	4061245092317
JF3-2-6.0x40-E16	40	0–22	500		3595513931	4061245094007
JF3-2-6.0x50-E16	50	0–32	500		3595512931	4061245102290

The EJOT® Solar Fastener

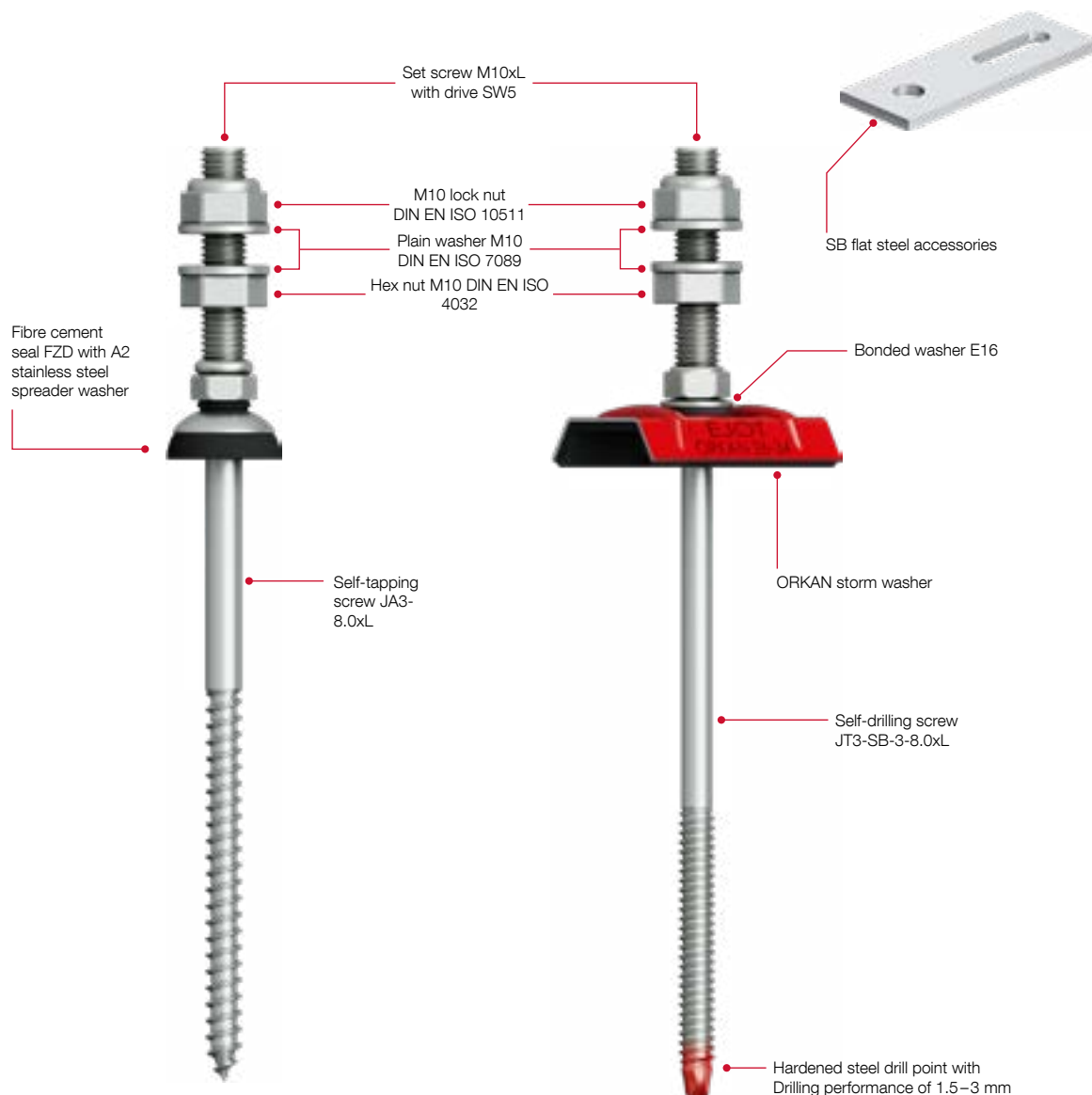
Load transfer directly into the substructure

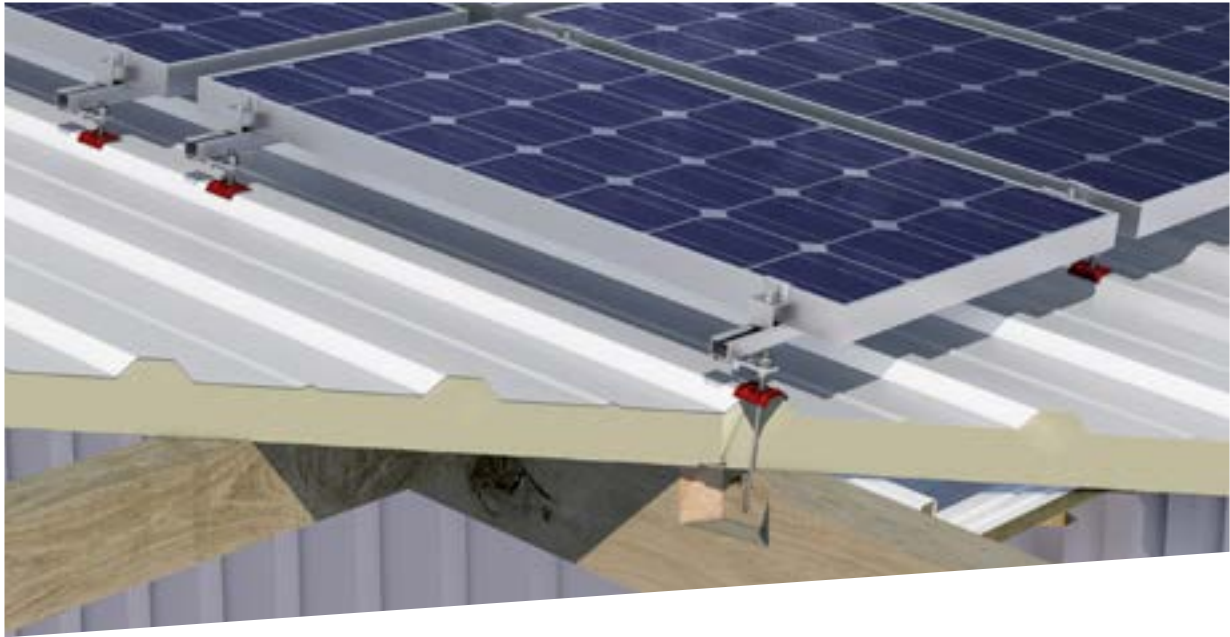
The EJOT Solar Fastener set with sealing washer and ORKAN storm washer is the first ETA-certified stainless steel fastening element for fixing photovoltaic installations to trapezoidal profiles and sandwich panel roofs. For applications on corrugated fibre cement sheets, we recommend the set with an FDZ fibre cement seal. The main benefit is that all tensile and compressive forces are transferred directly into the substructure.

The bottom part of the fastener with drill point is fixed directly into the substructure in a single operation without any pre-drilling. The top part has a welded-on set screw to hold the mounting rails for the solar installation. The range is supplemented by an assortment of sealing elements and adapters.

Benefits

- > Quick retrofitting on existing installations
- > Extremely safe fastening with direct load transfer into the substructure
- > No additional holes in the roofing membrane
- > Consistent installation depth
- > Use of proven sealing systems
- > ETA-22/0762-certified (only Solar Fastener set with sealing washer + ORKAN storm washer)
- > Durable seal due to solid attachment point
- > Minimum installation and tool requirements
- > Project-related initial sizing possible





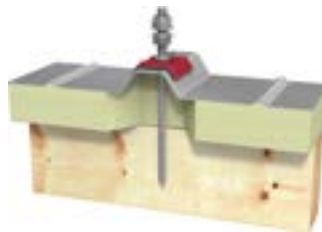
Product selection depending on roof structure

JA thread for timber substructures:



JA3-SB-8.0xL

with FZD fibre cement seal for fibre cement roofing



JA3-SB-8.0xL

with sealing washer E16 + ORKAN storm washer for sandwich panels



JA3-SB-8.0xL

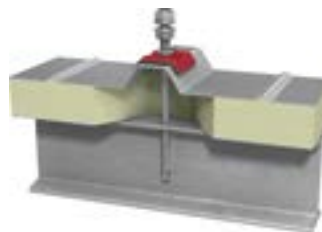
with sealing washer E16 + ORKAN storm washer for trapezoidal profiles

JT thread for steel substructures:



JT3-SB-3-8.0xL

with FZD fibre cement seal for fibre cement roofing



JT3-SB-3-8.0xL

with sealing washer E16 + ORKAN storm washer for sandwich panels



JT3-SB-3-8.0xL

with sealing washer E16 + ORKAN storm washer for trapezoidal profiles

Solar Fastener set JT3-SB-3-8.0xL with E16 + ORKAN storm washer

**Cross references**

Bit hexagon SW5
 Bit holder
 Cordless screwdriver ASCM 18
 Drill bit HSS
 SB flat steel
 ORKAN storm washers

Application range

- > For fastening elevated solar and photovoltaic installations to steel substructures 1.5 - 3 mm
- > Can also be used for steel substructure ≥ 3.0 mm if pre-drilled
- > For high-strength steel substructures up to S450GD
- > Suitable for metal trapezoidal and corrugated profile sheets and sandwich panels

Properties

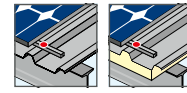
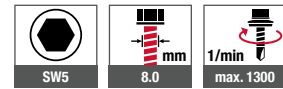
- > A2 stainless steel with hardened steel drill point
- > In set with sealing washer E16 + ORKAN storm washer

Benefits

- > Quick retrofitting on existing installations
- > Fastening without pre-drilling (substructure < 3 mm)
- > Extremely safe fastening with direct load transfer into the substructure
- > No additional holes in the roofing membrane
- > Suitable for high-strength steels
- > Consistent installation depth
- > Use of proven sealing systems
- > Durable seal due to solid attachment point
- > Minimum installation and tool requirements
- > Project-related initial sizing possible

Notice

The solar fastener components are tailored to your project.
 Further versions upon request!

Applications**Technical specifications****Certifications****Product video****Assembly instruction****Product online**

Order example	Screw length [mm]	Clamping thickness [mm]	Packaging unit [pieces]	Price/1 [EUR]	Article number	EAN
Set screw M10 x 50 mm						
Set JT3-SB-3-8.0x85/50 E16	85	18–60	25		3340891905	4061245021201
Set JT3-SB-3-8.0x115/50 E16	115	48–90	25		3341191905	4061245021218
Set JT3-SB-3-8.0x155/50 E16	155	88–130	25		3341591905	4061245021225
Set JT3-SB-3-8.0x195/50 E16	195	128–170	25		3341991905	4061245021232
Set screw M10 x 70 mm						
Set JT3-SB-3-8.0x85/70 E16	85	18–60	25		3340891907	4061245041117
Set JT3-SB-3-8.0x115/70 E16	115	48–90	25		3341191907	4061245041094
Set JT3-SB-3-8.0x155/70 E16	155	88–130	25		3341591907	4061245041070
Set JT3-SB-3-8.0x195/70 E16	195	128–170	25		3341991907	4061245041056

Order information: ORKAN storm washers must be ordered separately with specification of the storm washer type.

Standard scope of delivery includes: Hexagon nut DIN EN ISO 4032, self-locking hexagon nut DIN EN ISO 10511, washers DIN EN ISO 7089.

Also available with screw nuts with locking serrations DIN EN ISO 1661.

Solar Fastener set JA3-SB-8.0xL with E16 + ORKAN storm washer



Cross references

Bit hexagon SW5
 Bit holder
 Cordless screwdriver ASCM 18
 Drill bit HSS
 SB flat steel
 ORKAN storm washers

Product video



Assembly instruction



Product online



Application range

- > For fastening elevated solar and photovoltaic installations to timber substructures
- > Suitable for metal trapezoidal and corrugated profile sheets and sandwich panels

Properties

- > A2 stainless steel
- > In set with sealing washer E16 + ORKAN storm washer

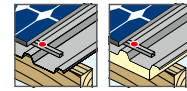
Benefits

- > Quick retrofitting on existing installations
- > Extremely safe fastening with direct load transfer into the substructure
- > No additional holes in the roofing membrane
- > Consistent installation depth
- > Use of proven sealing systems
- > Durable seal due to solid attachment point
- > Minimum installation and tool requirements
- > Project-related initial sizing possible

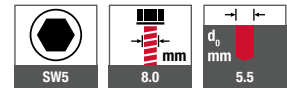
Notice

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Applications



Technical specifications



Certifications



Order example	Screw length [mm]	Packaging unit [pieces]	Price/1 [EUR]	Article number	EAN
Set screw M10 x 50 mm					
Set JA3-SB-8.0x80/50 E16	80	25		3150891905	4061245016924
Set JA3-SB-8.0x100/50 E16	100	25		3151091905	4061245016887
Set JA3-SB-8.0x130/50 E16	130	25		3151391905	4061245016849
Set JA3-SB-8.0x150/50 E16	150	25		3151591905	4061245016801
Set JA3-SB-8.0x180/50 E16	180	25		3151891905	4061245016764
Set JA3-SB-8.0x200/50 E16	200	25		3152091905	4061245016726
Set screw M10 x 70 mm					
Set JA3-SB-8.0x80/70 E16	80	25		3150891907	4061245016917
Set JA3-SB-8.0x100/70 E16	100	25		3151091907	4061245016870
Set JA3-SB-8.0x130/70 E16	130	25		3151391907	4061245016832
Set JA3-SB-8.0x150/70 E16	150	25		3151591907	4061245016795
Set JA3-SB-8.0x180/70 E16	180	25		3151891907	4061245016757
Set JA3-SB-8.0x200/70 E16	200	25		3152091907	4061245016719

Order information: ORKAN storm washers must be ordered separately with specification of the storm washer type.

Standard scope of delivery includes: Hexagon nut DIN EN ISO 4032, self-locking hexagon nut DIN EN ISO 10511, washers DIN EN ISO 7089.

Also available with screw nuts with locking serrations DIN EN ISO 1661.

Solar Fastener set JT3-SB-3-8.0 xL with FZD fibre cement seal

**Cross references**

Bit hexagon SW5
 Bit holder
 Cordless screwdriver ASCM 18
 Drill bit HSS
 SB flat steel

Application range

- > For fastening elevated solar and photovoltaic installations to steel substructures 1.5 - 3 mm
- > Can also be used for steel substructure ≥ 3.0 mm if pre-drilled
- > For high-strength steel substructures up to S450GD
- > Suitable for corrugated fibre cement profile sheets

Properties

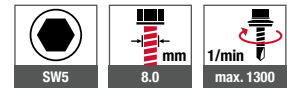
- > A2 stainless steel with hardened steel drill point
- > In set with FZD fibre cement seal

Benefits

- > Quick retrofitting on existing installations
- > Fastening without pre-drilling (substructure < 3 mm)
- > Extremely safe fastening with direct load transfer into the substructure
- > No additional holes in the roofing membrane
- > Suitable for high-strength steels
- > Consistent installation depth
- > Use of proven sealing systems
- > Durable seal due to solid attachment point
- > Minimum installation and tool requirements
- > Project-related initial sizing possible

Notice

The solar fastener components are tailored to your project.
 Further versions upon request!

Applications**Technical specifications****Product video****Assembly instruction****Product online**

Order example	Screw length [mm]	Clamping thickness [mm]	Packaging unit [pieces]	Price/1 [EUR]	Article number	EAN
Set screw M10 x 50 mm						
Set JT3-SB-3-8.0x85/50 FZD	85	17–58	25		3340898905	4061245021249
Set JT3-SB-3-8.0x115/50 FZD	115	47–88	25		3341198905	4061245021256
Set JT3-SB-3-8.0x155/50 FZD	155	87–128	25		3341598905	4061245021263
Set JT3-SB-3-8.0x195/50 FZD	195	127–168	25		3341998905	4061245021270
Set screw M10 x 70 mm						
Set JT3-SB-3-8.0x85/70 FZD	85	17–58	25		3340898907	4061245041100
Set JT3-SB-3-8.0x115/70 FZD	115	47–88	25		3341198907	4061245041087
Set JT3-SB-3-8.0x155/70 FZD	155	87–128	25		3341598907	4061245041063
Set JT3-SB-3-8.0x195/70 FZD	195	127–168	25		3341998907	4061245041049

Order information: Also available with screw nuts with locking serrations DIN EN ISO 1661.

Standard scope of delivery includes: Hexagon nut DIN EN ISO 4032, self-locking hexagon nut DIN EN ISO 10511, washers DIN EN ISO 7089.

Solar Fastener set JA3-SB-8.0 xL with FZD fibre cement seal



Cross references

Bit hexagon SW5
 Bit holder
 Cordless screwdriver ASCM 18
 Drill bit HSS
 SB flat steel

Product video



Assembly instruction



Product online



Application range

- > For fastening elevated solar and photovoltaic installations to timber substructures
- > Suitable for corrugated fibre cement profile sheets

Properties

- > A2 stainless steel
- > In set with FZD fibre cement seal

Benefits

- > Quick retrofitting on existing installations
- > Extremely safe fastening with direct load transfer into the substructure
- > No additional holes in the roofing membrane
- > Consistent installation depth
- > Use of proven sealing systems
- > Durable seal due to solid attachment point
- > Minimum installation and tool requirements
- > Project-related initial sizing possible

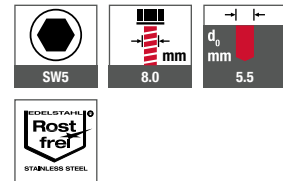
Notice

The solar fastener components are tailored to your project.
 Further versions upon request!

Applications



Technical specifications



Order example	Screw length [mm]	Packaging unit [pieces]	Price/1 [EUR]	Article number	EAN
Set screw M10 x 50 mm					
Set JA3-SB-8.0 x80/50 FZD	80	25		3150898905	4061245016900
Set JA3-SB-8.0 x100/50 FZD	100	25		3151098905	4061245016863
Set JA3-SB-8.0 x130/50 FZD	130	25		3151398905	4061245016825
Set JA3-SB-8.0 x150/50 FZD	150	25		3151598905	4061245016788
Set JA3-SB-8.0 x180/50 FZD	180	25		3151898905	4061245072005
Set JA3-SB-8.0 x200/50 FZD	200	25		3152098905	4061245016702
Set screw M10 x 70 mm					
Set JA3-SB-8.0 x80/70 FZD	80	25		3150898907	4061245016894
Set JA3-SB-8.0 x100/70 FZD	100	25		3151098907	4061245016856
Set JA3-SB-8.0 x130/70 FZD	130	25		3151398907	4061245016818
Set JA3-SB-8.0 x150/70 FZD	150	25		3151598907	4061245016771
Set JA3-SB-8.0 x180/70 FZD	180	25		3151898907	4061245016733
Set JA3-SB-8.0 x200/70 FZD	200	25		3152098907	4061245016696

Order information: Also available with screw nuts with locking serrations DIN EN ISO 1661.

Standard scope of delivery includes: Hexagon nut DIN EN ISO 4032, self-locking hexagon nut DIN EN ISO 10511, washers DIN EN ISO 7089.

SB flat steel for EJOT® Solar Fastener



Cross references

JA3-SB-8.0xL E16 DIN 934
 JA3-SB-8.0xL FZD DIN 934
 JT3-SB-3-8.0xL E16 DIN 934
 JT3-SB-3-8.0xL FZD DIN 934

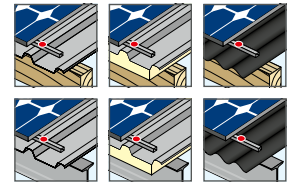
Application range

- > Connection plate for fastening different solar installations

Properties

- > A2 stainless steel
- > With slotted hole
- > Dimensions: 40x5x100 (mm)
- > Hole diameter: 10 mm

Applications



Technical specifications



Product online



Order description	Packaging unit [pieces]	Price/1 [EUR]	Article number	EAN
SB flat steel 40x5x110 A2 / hole 10 mm	25		3110001000	4061245017600

At ease with numerous trades

General catalogue Building Fasteners 2023/2024

Whether for professional applications on building facades or for anchoring solutions of technical facilities inside the building – EJOT offers the right fastening solution for every application.

You can find the current catalogue online as an e-paper and PDF version. If you are interested in a printed version, please get in touch with your contact person:

www.ejot.com/contact-construction



You can find a digital overview of our catalogues here:



www.ejot.com/construction/downloads/catalogues-and-brochures

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