

## Additional Values

- A fastening system, specifically engineered for rooftop solar installations on commercial, industrial and agricultural buildings
- Labor saving installation
- Least amount of tools needed for installation
- Works with all common solar mounting systems
- High product quality due to strict quality standards and control
- The installation is very secure through the transfer of tensile loads and pressure forces directly into the substructure
- A solar installation can easily be mounted on an existing roof – the old screws can be replaced with EJOT Solar fastenings, using the existing holes
- Created to avoid the need of additional holes, while using the available hole positions of the already existing holes reconsidering the hole diameter
- Minimum risk of leakage problems
- Minimum risk of material damage problems
- Secure and repeatable installation results
- The installer cannot change the predefined fastener setup which avoids the alteration/elimination of important quality and performance characteristics

## Engineering Support

- Competent consulting services
- Free project-related preliminary calculation possible
- Flexibility regarding special design requests
- Technical on-site support possible
- Special application engineering solutions can also be provided for fastening solar and PV installations on roofing

## EJOT North American Logistics Support

- Short lead times (Shipping FOB from Lincolnwood, IL)
- On-time delivery
- Special requests can be expedited

\*Note: With regard to standing seam roof applications, installers must anchor roof attachments only to the roof panel, not to the building structure or deck. To do the latter would inadvertently pin the roof panel, compromising its freedom in response to thermal movement, thus, destroying the system's thermal-cycling characteristics. EJOT does not give any warranty for its products when used on a standing seam application!

EJOT Fastening Systems LP

9900 58th Place, Suite 100, Kenosha, Wisconsin 53144 USA  
phone: +1 262-612-3550 · fax: +1 262-721-1245 · info@ejot-usa.com · www.ejot-usa.com

436-US/10.11

# EJOT®

## EJOT® Solar Fastening Systems JA3 & JZ3

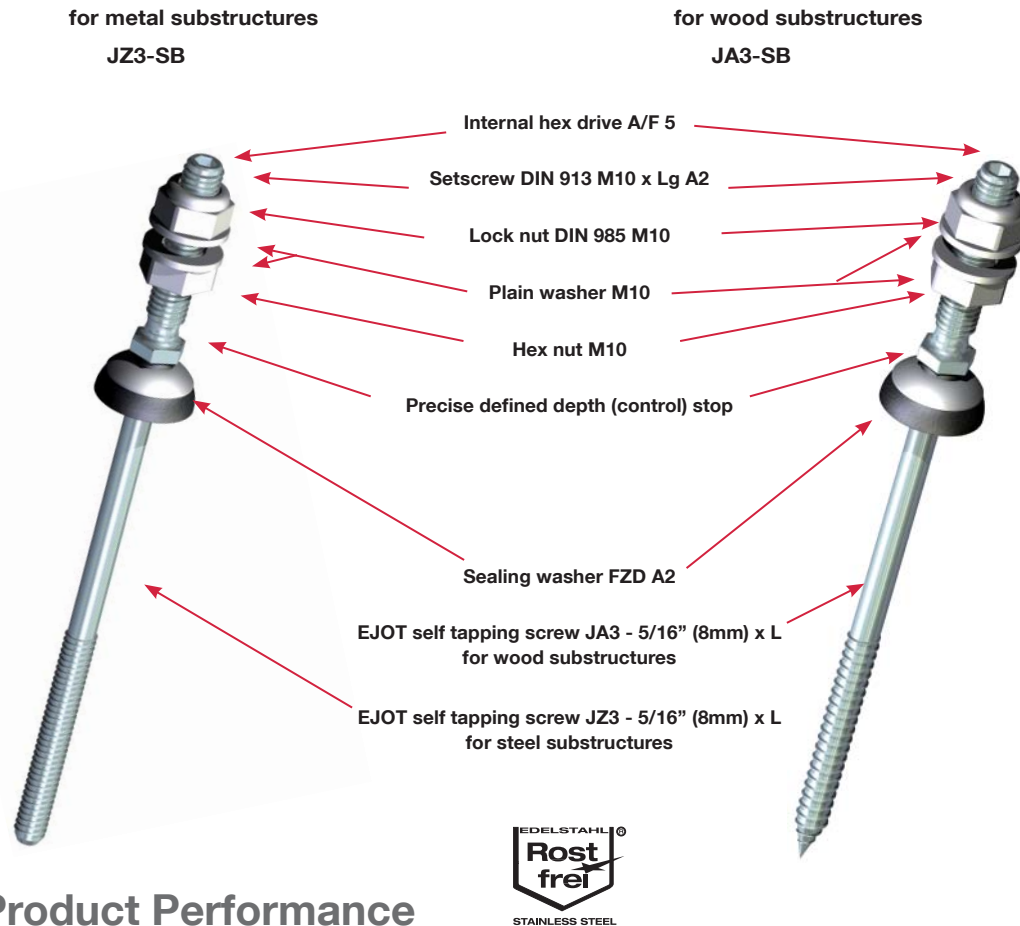
### Value Proposition



**EJOT® The Quality Connection**



## Product Features



## Product Performance

### Versatility

- Specifically engineered for solar installations on commercial and industrial buildings
- Works with all common PV and solar thermal mounting systems
- Using EJOT Solar Fastening System JZ3-SB to fasten uprights of solar installations on metal substrates and JA3-SB on wood substrates
- Can easily be mounted on an existing roof – the old screws can be replaced using the existing holes taking the hole diameter into consideration
- Fasteners, plain washers, nuts and FZD support pressure plate, all made of stainless steel grade 304 (A2)

### Superior quality

- High product quality due to strict quality standards and control
- Produced in stainless steel type 304 (A2), as recommended by the National Roofing Constructors Association (NRCA) for maximum corrosion resistance. NRCA recommends not using zinc plated steel products with preservative-treated wood because of the potential for accelerated corrosion.

### Labor and cost saving installation

- Consistent, easy and quick installation due to the standardized, internal hexagon drive
- Reduced installation time – screw nut and washers are delivered pre-assembled
- Minimal tools needed for installation

### Secure and consistent installation

- Transfer of tensile loads and pressure forces directly into the substructure
- The small diameter fastener ( $D = 0.315" / 8 \text{ mm}$ ) requires only a small drilled hole, thus maintains the structural integrity of the substructure.
- Positioning only requires a small distance to the edge of the rafter ( $1.575" / 4 \text{ cm}$ ) and is not restricted to the center of the rafter.
- The highly engineered thread-form of the JA3-SB for wood applications reduces the radial forces (expansion of the wood of the rafters) to a minimum.
- Using the EJOT storm washer for sealing on corrugated metal roof tops, the mounting force of the fastener will be transferred to a larger surface – by this means it will not damage or dent the thin metal.
- The fastener length (tip to fixed point) is perfectly adjusted to your project. It will be calculated: recommended thread intrusion depth + roof top height
- Repeatability of constant thread engagement is granted, due to the fastener length specification. This repeatability allows a preliminary calculation of the fastening situation.
- The installer cannot alter the predefined fastener setup which eliminates removal of important quality and performance characteristics.
- The design allows a project-related preliminary calculation including evaluation of recommended fastener positioning scheme.
- The product has the German official technical approval – these strict standards provide more security and the structural engineering calculation. Approval includes detailed documentation on loads absorbed by the solar fastenings and the bearing stress. The approval can be used by a Structural Engineer as a step-by-step guideline.

### Watertightness

- The design includes a sealing system specifically adapted to the particular application. When applied correctly, the system provides a sealed joint system.
- The head of the screw provides a fixed point for the sealing element that is not changeable – the defined depth (control) stop. Even under the influence of roof movement, the fastening will remain leak-proof.
- The sealing device is located on a non-threaded area of the fastening to avoid leakage effects.