EJOT®
Solar Fastening Systems
JA3 & JZ3
Installation Manual
EJOT Solar Fastening Systems JA3 & JZ3

- Setscrew DIN 913 M10 x Lg A2 with internal hex drive A/F5
- Locknut DIN 985 M10
- Plain washer M10
- Hexagon nut M10
- Precise defined depth (control) stop
- Washer E16/8
- EJOT ORKAN Storm washer
- Sealing element FZD A2
- EJOT self tapping screw JZ3 - 8.0 x L
- EJOT self tapping screw JA3 - 8.0 x L
Applications

Roofing
The EJOT Solar Fastening Systems JA3 & JZ3 are appropriate for fastening on metal and fiber cement profiles.

Substructure
• Wood
• Steel
• Concrete

Installation tools
• Power screwdriver
• Drill (according to application)
• Screwdriver bit (width across flats SW 5 (mm))
• Wrench (width across flats SW 17 (mm))
• Hexagon socket screw key (width across flats SW 5 (mm))

All drill bits must be metric!
New installation:
Steps 1 to 3 are omitted. Start of the installation process with step 4.

Re-fitting:
If the EJOT Solar Fastening System is to be installed on an existing roof, the installation process will start with step 1.

4. Pre-drilling

Steel profiles:
Pre-drill Ø in substructure
= Pre-drill Ø in steel profile

Fiber cement profiles:
Pre-drill Ø in fiber cement profile
> Pre-drill Ø in substructure!

Please refer to the pre-drill diameters at the chart below.

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

<table>
<thead>
<tr>
<th>Metric [mm]</th>
<th>Steel</th>
<th>Wood</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 ...&lt; 5.0</td>
<td>5.0...&lt; 7.5</td>
<td>7.5 ...&lt; 10</td>
</tr>
<tr>
<td>≥ 10</td>
<td>≥ 32</td>
<td>≥ 40</td>
</tr>
<tr>
<td>0.059”...&lt; 0.197”</td>
<td>0.197”...&lt; 0.295”</td>
<td>0.295”...&lt; 0.394”</td>
</tr>
<tr>
<td>≥ 0.394”</td>
<td>≥ 1.260”</td>
<td>≥ 1.575”</td>
</tr>
</tbody>
</table>

Recommended pre-drilling diameter in metal profiles:

<table>
<thead>
<tr>
<th>Thickness of the substructure:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
</tr>
<tr>
<td>6.8 mm</td>
</tr>
<tr>
<td>7.2 mm</td>
</tr>
<tr>
<td>5.5 mm</td>
</tr>
<tr>
<td>7.0 mm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>EJOT Solar Fastening System</th>
<th>Pre-drilling diameter in fiber cement profiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>JZ3-SB-8.0 x L</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>JA3-SB-8.0 x L</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>JA3-SB-10.0 x L</td>
<td>14.0 mm</td>
</tr>
</tbody>
</table>
The sealing element FZD is pre-assembled to the EJOT Solar Fastening System. It is screwed-in directly.

Note: The sealing element FZD can be used also for metal profiles, as an universal sealing solution.

5. Cleaning of profile

6. Applying EJOT ORKAN Storm Washer

7. Screwing-in EJOT Solar Fastening System

8. Screwing down EJOT Solar Fastening System

The EJOT Solar Fastening System will not be screwed down with torque!

The sealing element should be squeezed slightly and overlie with the entire surface.

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12. The EJOT Solar Fastening System is ready installed

13. Attaching parts can be mounted
Attaching parts, such as mounting profiles, can now be assembled. The EJOT Solar Fastening System is not designed for a specific mounting system and thus is universally applicable.

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**Limited Warranty:**
The EJOT Group warrants and represents to the purchaser of EJOT Solar Fastening Systems that the products shall be free from defects in material and workmanship under normal and expected use and service for the express period of warranty set forth below.

**Period of Warranty:**
The period of warranty is 10 years and starts on the date of purchase by the initial purchaser.

**Warranty terms:**
This warranty is valid only within the express period of warranty. This warranty is limited to either the repair or replacement, at the EJOT Group's sole option, of any defective product. Repair or replacement will only be carried out for the benefit of the direct purchaser of EJOT products. The purchaser shall pay all shipping charges for return of a defective product. For a product returned within 1 year of the date of initial purchase, the EJOT Group shall pay all shipping charges for shipment of the repaired or replacement product, as the case may be, to the purchaser. For a product returned more than 1 year after the initial date of purchase, the purchaser shall pay all shipping charges for shipment of the repaired or replacement product, as the case may be, to the purchaser. A warranty claim can only be confirmed upon presentation of the defective product, the contract receipt and lot number.

**Warranty exclusions:**
This limited warranty does not apply if the product is improperly installed or assembled, misapplied, abused, altered or otherwise misused in any way, including:

- Inappropriate and improper use
- Faulty or negligent treatment
- Failure of installation and assembly instructions
- Changes and self-repairs
- Improper use with chemical and physical resulting effects on the material surface (e.g. damage caused by sharp objects)
- Use of third-party parts (i.e., non-EJOT parts or non-EJOT specified vendor parts)

Note that professional installation by an expert is required. The following assembly instruction indicates how the installation of the EJOT Solar Fastening is properly carried out and which points must be followed. Nevertheless, the following points must be guaranteed by the installer:

- It must be ensured that the use of EJOT solutions and other products are suitable for the application and installation environment.
- The project must be confirmed according to structural analysis.
- The installer must have sufficient knowledge and ability to carry out the assembly.
- Only EJOT products or EJOT specified vendor parts are allowed to be used. The use of third-party parts will void the warranty.

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**Warranty Claim Process:**
For complaints, please contact your supplier directly to present the defective product, the contract receipt and lot number.

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