Nclave calculates, design and manufactures fixed - tilt racking solutions according to customers specifications and standards that apply in each country.

Nclave uses the most advanced engineering design programs approved by aerospace industry quality standards. Regarding our manufactuing, Nclave stands out for:

- High-volume manufacturing facility in Spain with highly qualified and experienced staff.
- Several product centers spread around the world.
- High CNC machinery.
- Environmental Management System - ISO 14001.

Nclave has a great reputation for being focused on their customers and stands out tailored made solutions to fulfill the most complicated project requirements.

The main characteristics that define Nclave fixed structures:

1. Adaptable to complex and difficult terrain.
2. Flexible configuration of photovoltaic modules (optimum use of the available surface).
3. Reduced weight: tailor-made profiles (galvanized steel or aluminum) in accordance with project requirements.
4. Analysis of topographical contours.
5. Foundation design services.
6. Delivery of the entire structure, including assembly parts.
7. Excellent delivery time frames.
8. Advantages in relation to assembly: quick and simple assembly, no need for welding.
TECHNICAL SPECIFICATIONS

GENERAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar fixed structure</td>
<td>Single-post / Double-post</td>
</tr>
<tr>
<td>Module orientation</td>
<td>Landscape / Portrait</td>
</tr>
<tr>
<td>Modules surface per fixed structure</td>
<td>Custom configuration is available</td>
</tr>
<tr>
<td>Foundation options (solution according to geotechnical report)</td>
<td>Direct ramming / Pre-drilling + ramming / Concrete micro-piling/ Screw-pile / Pre-drilling + compacting + ramming</td>
</tr>
<tr>
<td>Terrain adaptation</td>
<td>Up to 20% grade**</td>
</tr>
<tr>
<td>Structure</td>
<td>HDG high strength steel S275, S355, Magnelis® and galvanized G-90.</td>
</tr>
<tr>
<td>Hardware / Treatment</td>
<td>8.8 grade / ZnNi + seal*</td>
</tr>
<tr>
<td>Solar panels fixation</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Compatible solar panels</td>
<td>Frame, frameless or glass glass 60 or 72 cells</td>
</tr>
<tr>
<td>Allowable wind and snow loads</td>
<td>Tailored to site requirements</td>
</tr>
<tr>
<td>Standards &amp; regulation</td>
<td>Structural calculation according to EN 1993-1-1- y AISI S-100</td>
</tr>
<tr>
<td>Installation</td>
<td>Easy installation. All joints bolted (no welding required)</td>
</tr>
</tbody>
</table>

MAINTENANCE

Schedule maintenance Minimum maintenance (check hardware torque and galvanized coating)

STANDARD WARRANTY (*)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure</td>
<td>10 years</td>
</tr>
<tr>
<td>Corrosion protection</td>
<td>20 years according to ISO 14713 C3</td>
</tr>
</tbody>
</table>

* Other options also available
** According to conditions

USA [CA]
Tel: +1 916-281-6711
mmcintyre@nclavegroup.com

USA [FL]
Tel: +1 305-748-0300
cclavijo@nclavegroup.com

CHILE
Tel: +56 973-371-732
jplendroit@nclavegroup.com

JAPAN
Tel: +81 355-448-866
aselles@nclavegroup.com

BRASIL
Tel: +55 149-983-84646
tsampedro@nclavegroup.com

SPAIN
Avda. de Burgos 114, 2º
28050, MADRID
Tel: 91 277 1126
info@nclavegroup.com
Pol. Ind. La Peña
Ctra. NA 134-KM 93
31230-VIANA (NAVARRA)
Tel: 948-645-121
comercial@nclavegroup.com

USA [CA]
Av. Ind. La Peña
Ctra. NA 134-KM 93
31230-VIANA (NAVARRA)
Tel: 948-645-121
comercial@nclavegroup.com

USA [FL]
Av. Ind. La Peña
Ctra. NA 134-KM 93
31230-VIANA (NAVARRA)
Tel: 948-645-121
comercial@nclavegroup.com

CHILE
Avenida España 114, 2º
28050, MADRID
Tel: 91 277 1126
info@nclavegroup.com
Pol. Ind. La Peña
Ctra. NA 134-KM 93
31230-VIANA (NAVARRA)
Tel: 948-645-121
comercial@nclavegroup.com

JAPAN
Avenida España 114, 2º
28050, MADRID
Tel: 91 277 1126
info@nclavegroup.com
Pol. Ind. La Peña
Ctra. NA 134-KM 93
31230-VIANA (NAVARRA)
Tel: 948-645-121
comercial@nclavegroup.com

www.nclavegroup.com

PHOTOVOLTAIC FIXED STRUCTURE: SINGLE-POST AND DOUBLE-POST