

AN ISO 9001 : 2015 CERTIFIED COMPANY



**AWAR SALASAR**



# CREATING PRECISION METAL PRODUCTS

*Helical Screw Piles/ Solar Structures/ Steel Access covers/ Galvanised Gratings*

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[WWW.AWAR-SALASAR.COM](http://WWW.AWAR-SALASAR.COM)



# SOLAR STRUCTURES

a) Solar Ground Mounted Anchors i.e Helical Anchors/Screw piles

b) Solar Module Mounting Structures (MMS) made of Steel or Aluminium

SALASAR Module Mounting Structures are designed and engineered for each customer's site specific conditions to minimize the field installation labor and require no field welding, drilling or other on-site fabrication.

- ▶ Suitable for flat and slightly sloped roofs
- ▶ Suitable for several module dimensions with a panel width from 950 to 1050mm
- ▶ Total dead load of panels with steel structure and ballast below 10kg/m<sup>2</sup> of roof achievable
- ▶ Standard and angle regulation from 5°C TO 30°C

c) Solar Purlins sections

Z and C Purlins / C Channels, bracing, angles and column post are members of Module Mounting structure. They are rolled formed by using pre-galvanised, post galvanised or made of galvano steel.

## Why SALASAR Solar Structures?

### SALASAR Solar structures advantage:

- Easy and fast to assemble
- 25 years of maintenance free life
- Optimal surface treatment for high corrosive resistance (Hot dip galvanised up to 85 microns)
- Structures are well protected against adverse climatic conditions
- Strong Durable and Total Safety



## HELICAL SCREW PILES, EXTENSIONS AND IT'S ACCESSORIES

We manufacture and offers a wide range of superior quality helical screw piles, extensions and its accessories. These are manufactured as per our client specifications & design. SE offers both bare and galvanised finished product in a wide variety of sizes to suit any foundation application.

- ▶ Seamless Tubes as per ASTM A 106 Grade B A500
- ▶ Solid Steel Bar (RCS) per ASTM A29 with 90ksi minimum yield strength
- ▶ Bolt & Nuts as per SAE J429 Grade 8.
- ▶ Helix Plate: ASTM A36 or as per Indian Standard IS: 2062 Grade (E350)
- ▶ T BRACKETS, JACKING PLATE & BRACKETS are manufactured as per customer's requirements
- ▶ Corrosion Protection to conform to ASTM A153 Standard – Hot Dip Galvanizing



# STANDARD HELICAL PRODUCTS

## SQUARE SHAFT PRODUCTS

### SQUARE 1.5" (RCS) MEDIUM DUTY

| Description | Square Shaft Size | Lenght (feet) | Helix (inch)  | Galvanized weight (Kg) |
|-------------|-------------------|---------------|---------------|------------------------|
| Lead        | 1.5" Sq. Shaft    | 7             | 12            | 31                     |
| Lead        | 1.5" Sq. Shaft    | 7             | 8             | 28                     |
| Lead        | 1.5" Sq. Shaft    | 5             | 8, 8          | 23                     |
| Lead        | 1.5" Sq. Shaft    | 5             | 10, 10        | 26                     |
| Lead        | 1.5" Sq. Shaft    | 5             | 10, 12        | 28                     |
| Lead        | 1.5" Sq. Shaft    | 5             | 12, 12        | 30                     |
| Lead        | 1.5" Sq. Shaft    | 5             | 8, 10         | 24                     |
| Lead        | 1.5" Sq. Shaft    | 7             | 10, 12        | 34                     |
| Lead        | 1.5" Sq. Shaft    | 7             | 12, 14        | 38                     |
| Lead        | 1.5" Sq. Shaft    | 7             | 8, 10, 12     | 38                     |
| Lead        | 1.5" Sq. Shaft    | 10            | 8, 10, 12, 14 | 57                     |
| Extension   | 1.5" Sq. Shaft    | 3             | n/a           | 14                     |
| Extension   | 1.5" Sq. Shaft    | 5             | n/a           | 22                     |
| Extension   | 1.5" Sq. Shaft    | 7             | n/a           | 29                     |
| Extension   | 1.5" Sq. Shaft    | 10            | n/a           | 40                     |



# SQUARE SHAFT PRODUCTS



## SQUARE 1.75" (RCS) HEAVY DUTY

| Description | Square Shaft Size | Lenght (feet) | Helix (inch)  | Galvanized weight (Kg) |
|-------------|-------------------|---------------|---------------|------------------------|
| Lead        | 1.75" Sq. Shaft   | 7             | 8             | 37                     |
| Lead        | 1.75" Sq. Shaft   | 5             | 8, 8          | 29                     |
| Lead        | 1.75" Sq. Shaft   | 5             | 10, 10        | 32                     |
| Lead        | 1.75" Sq. Shaft   | 5             | 10, 12        | 34                     |
| Lead        | 1.75" Sq. Shaft   | 5             | 12,12         | 36                     |
| Lead        | 1.75" Sq. Shaft   | 5             | 8, 10         | 31                     |
| Lead        | 1.75" Sq. Shaft   | 7             | 10, 12        | 43                     |
| Lead        | 1.75" Sq. Shaft   | 7             | 12, 14        | 46                     |
| Lead        | 1.75" Sq. Shaft   | 7             | 8, 10, 12     | 47                     |
| Lead        | 1.75" Sq. Shaft   | 10            | 8, 10, 12, 14 | 70                     |
| Extension   | 1.75" Sq. Shaft   | 3             | n/a           | 19                     |
| Extension   | 1.75" Sq. Shaft   | 5             | n/a           | 29                     |
| Extension   | 1.75" Sq. Shaft   | 7             | n/a           | 39                     |
| Extension   | 1.75" Sq. Shaft   | 10            | n/a           | 54                     |

# ROUND SHAFT PRODUCTS

## ROUND 2 - 7/8" - 0.203" SEAMLESS TUBES

| Description | Pipe OD (inch) | Wall thickness (in) | Length (feet) | Helix (inch)  | Galvanized weight (Kg) |
|-------------|----------------|---------------------|---------------|---------------|------------------------|
| Lead        | 2.875          | 0.203               | 7             | 8, 10         | 25                     |
| Lead        | 2.875          | 0.203               | 7             | 10, 12        | 29                     |
| Lead        | 2.875          | 0.203               | 7             | 12, 14        | 33                     |
| Lead        | 2.875          | 0.203               | 7             | 8, 10, 12     | 31                     |
| Lead        | 2.875          | 0.203               | 7             | 10, 12, 14    | 37                     |
| Lead        | 2.875          | 0.203               | 10            | 8, 10, 12, 14 | 48                     |
| Extension   | 2.875          | 0.203               | 5             | n/a           | 20                     |
| Extension   | 2.875          | 0.203               | 7             | n/a           | 25                     |



## ROUND 2 - 7/8" - 0.276" SEAMLESS TUBES

| Description | Pipe OD (inch) | Wall thickness (in) | Length (feet) | Helix (inch)  | Galvanized weight (Kg) |
|-------------|----------------|---------------------|---------------|---------------|------------------------|
| Lead        | 2.875          | 0.276               | 7             | 8, 10         | 32                     |
| Lead        | 2.875          | 0.276               | 7             | 10, 12        | 36                     |
| Lead        | 2.875          | 0.276               | 7             | 12, 14        | 40                     |
| Lead        | 2.875          | 0.276               | 7             | 8, 10, 12     | 38                     |
| Lead        | 2.875          | 0.276               | 7             | 10, 12, 14    | 44                     |
| Lead        | 2.875          | 0.276               | 10            | 8, 10, 12, 14 | 57                     |
| Extension   | 2.875          | 0.276               | 5             | n/a           | 26                     |
| Extension   | 2.875          | 0.276               | 7             | n/a           | 32                     |



# ROUND SHAFT PRODUCTS

## ROUND 3.5" - 0.3" SEAMLESS TUBES

| Description | Pipe OD (inch) | Wall thickness (in) | Length (feet) | Helix (inch)  | Galvanized weight (Kg) |
|-------------|----------------|---------------------|---------------|---------------|------------------------|
| Lead        | 3.5            | 0.3                 | 7             | 8, 10         | 41                     |
| Lead        | 3.5            | 0.3                 | 7             | 10, 12        | 44                     |
| Lead        | 3.5            | 0.3                 | 7             | 12, 14        | 48                     |
| Lead        | 3.5            | 0.3                 | 7             | 8, 10, 12     | 46                     |
| Lead        | 3.5            | 0.3                 | 7             | 10, 12, 14    | 52                     |
| Lead        | 3.5            | 0.3                 | 10            | 8, 10, 12, 14 | 69                     |
| Extension   | 3.5            | 0.3                 | 5             | n/a           | 33                     |
| Extension   | 3.5            | 0.3                 | 7             | n/a           | 42                     |



## ROUND 4.5" - 0.337" SEAMLESS TUBES

| Description | Pipe OD (inch) | Wall thickness (in) | Length (feet) | Helix (inch)   | Galvanized weight (Kg) |
|-------------|----------------|---------------------|---------------|----------------|------------------------|
| Lead        | 4.5            | 0.337               | 7             | 12, 14         | 67                     |
| Lead        | 4.5            | 0.337               | 7             | 14, 16         | 73                     |
| Lead        | 4.5            | 0.337               | 10            | 12, 14, 16     | 100                    |
| Lead        | 4.5            | 0.337               | 10            | 14, 16, 18     | 110                    |
| Lead        | 4.5            | 0.337               | 12            | 12, 14, 16, 18 | 131                    |
| Extension   | 4.5            | 0.337               | 5             | n/a            | 50                     |
| Extension   | 4.5            | 0.337               | 7             | n/a            | 63                     |





## STEEL ACCESS COVERS

Salasar has more than 18 years of experience in designing and manufacturing fabricated steel access covers and frames. We manufacture a wide range of steel access covers & frames from pedestrian to heavy duty steel covers. Our range includes:

- Block Paviour   ➤ Recessed trays.
- Solid top steel access covers.
  - a> Pressed   b> Chequered

## GALVANIZED STEEL GRATINGS



Our Gratings are manufactured as per the International quality standards at our state-of-the-art Infrastructure facility. Hot dip galvanizing provides corrosion resistant finish in all environments.

**We provide Steel Gratings:** 1. With Frame   2. Without Frame

We ensure excess zinc removal activity by draining, vibrating or centrifuging systems so the surface of gratings gets more shiny Material Specifications are as below.



# INFRASTRUCTURE

We have a complete set-up for world class fabrication to meet our clients requirements. Our processes are all well established and defined. We have the following facilities available:



## Cutting

- Cnc Laser Cutting
- Guillotine Shearing
- Cnc Plasma Cutter
- Band Saw Cutting
- Chop Saw Cutter



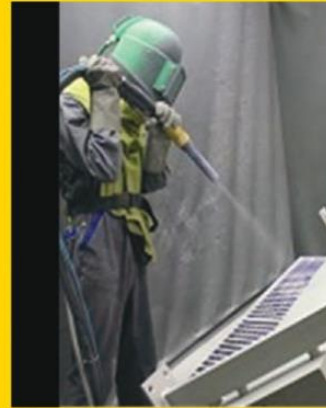
## Press Shop

- Cnc Press Brake - 150 Metric Tonne 3000mm X 6mm
- Hydraulic Press (H- Type) - 300 Metric Tonne
- Power Press - 80 Metric Tonne
- Power Press - 50 Metric Tonne



## Weld Shop

- Mig/Tig/Arc Welding
- Gas Welding
- Spot Welding



## Surface Finishing

- Hot Dip Glavanizing
- Shot Blasting & Painting
- Electro-Plating
- Powder Coating

# QUALITY

We are an ISO 9001:2015 certified company with a robust quality management system. We, at Salasar are committed to manufacture quality products and deliver the same to the complete customer satisfaction.



Visual Inspection



Dimensional Checks



DFT Checking

## We Believe in:

- Involvement of all people in our organization through Training and Education.
- Introduction of Quality Management System throughout the organization.
- Ensuring Continual Improvement

## Quality Objectives:

- Improving Adherence to Production Plan
- Reduction of Rework
- Increasing Customer Satisfaction Score
- Increase of Training Man days





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