Zenith SR3

Demarcation / Welded mesh

Installation Manual
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DISCLAIMER

Although every effort has been made to ensure that the information contained in this manual is correct at the time of issue, no responsibility is accepted for any loss or damage arising from incorrect information.

All described work must be performed by certified personnel. Should work deviate from the described actions, any guaranteed entitlement and liability of the manufacturer shall no longer apply.

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1  PREFACE

1.1  MANUFACTURER / SUPPLIER

Manufacturer: Heras
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www.heras.co.uk

Technical Construction File: Heras, T&I Department

2  SAFETY

2.1  GENERAL SAFETY INSTRUCTIONS

• Always read and understand all instructions in this manual before installing. Contact Heras if any instructions are unclear.

• If the meaning of any part of these instructions is not clear, contact Heras before attempting installation.

2.2  SAFETY DURING INSTALLATION

• Always wear safety boots during installation. Make use of other personal protective equipment where applicable.

• Observe safe lifting techniques and use lifting aids where applicable.
3 SITE ASSESSMENT

3.1 CIVIL DETAILS

To guarantee the longest effective use of the Zenith SR3, always first assess the following on site:

- Soil mix
- Ground bearing pressure
- Humidity

Drawings showing recommended positions of the equipment and foundation requirements can be supplied alongside the relevant data sheets.

4 INSTALLATION

4.1 EXPLANATION OF SYMBOLS

- **Protective gloves**
  
  Use when working with concrete.

- **Level**
  
  Use a spirit level.

- **Shovel**
  
  Digging required.

- **Hammer**
  
  Use a hammer.

- **Wait**
  
  Allow concrete to cure.

- **Electric screwdriver**
  
  Use for fixings.

- **Attack side**
  
  Shows direction of attack.
4.2 PREPARE SITE

Clear and level the site appropriate before beginning installation. Dig foundations for posts to 450 mm², 1100 mm deep.

4.3 INSTALL POSTS

Insert posts, using a spirit level to keep them perpendicular. If necessary, place wooden blocks at base of posts to keep them flat and level with one another.

Fill foundations with concrete up to 750 mm depth.

Attach wooden struts to hold posts in place.

Allow concrete to cure. Remove wooden struts.
4.4 INSTALL OPTIONS
Consult site drawings to determine applicable option (4.4.1, 4.4.2 or 4.4.3).

4.4.1. NON-BURIED PANEL
Affix the panels as shown in section 4.5. Fill remainder of foundations.

4.4.2. BURIED LOWER PANEL
Dig a channel 300mm deep for each panel between the posts, wide enough for each respective panel.

4.4.3. BASEPLATES
Insert panels into channels, with the single mesh panel on attack face. Affix to posts as shown in section 4.5. Complete foundation fill, then fill channels with aggregate or similar.

For installations with baseplates, see details on the site drawings. A standard baseplated system is shown above (with 25 mm diameter fixing holes). Use resin anchors to attach baseplates to foundations.

Always install single skin panel first at lowest fixture.
4.5 INSTALL PANELS

Install single-skin panels first on the attack face side of the post, overlapping panels on intermediate post.

Clamp with flat bar and thread bolt completely through the post before installing double-skin panels.

Assemble bolts as shown.
Use a hex nut and washer to secure top bolt of each post.
Use shear nuts and washers for all other bolts.

If the bolts are difficult to insert, use hammer and tapered peg to displace the mesh to widen aperture as shown.
4.6 CORNERS

4.6.1. EXTERNAL

Arrange external corners as shown.
Retaining angles must be welded to the post.
Install single skin mesh first.

Instead of overlapping, set panels on retaining angles adjacent to form a corner assembly as shown.
Offset bolts to eliminate intersecting.

4.6.2. INTERNAL

Arrange internal corners as shown.
Retaining angles must be welded to the post.
Install single skin mesh first.

Instead of overlapping, set panels on retaining angles adjacent to form a corner assembly as shown.
Offset bolts to eliminate intersecting.
## 5 BILL OF MATERIALS

<table>
<thead>
<tr>
<th>Image</th>
<th>Name</th>
<th>Stages</th>
</tr>
</thead>
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<tr>
<td><img src="image" alt="M10 cup square bolt" /></td>
<td>M10 cup square bolt</td>
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</tr>
<tr>
<td><img src="image" alt="Hex nut" /></td>
<td>Hex nut</td>
<td>8A, 8B</td>
</tr>
<tr>
<td><img src="image" alt="Shear nut" /></td>
<td>Shear nut</td>
<td>8A</td>
</tr>
<tr>
<td><img src="image" alt="Washer" /></td>
<td>Washer</td>
<td>8A</td>
</tr>
<tr>
<td><img src="image" alt="Flat bar" /></td>
<td>Flat bar</td>
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<td><img src="image" alt="Single-mesh panel" /></td>
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<tr>
<td><img src="image" alt="Double-mesh panel" /></td>
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<td>8B, 8C, 9A, 9B, 10A, 10B</td>
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<tr>
<td><img src="image" alt="Post" /></td>
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<tr>
<td><img src="image" alt="Baseplate and baseplate fixings" /></td>
<td>Baseplate and baseplate fixings</td>
<td>7</td>
</tr>
</tbody>
</table>
6 APPENDIX

Double-mesh panel overlap and foundation specifications are shown below.

<table>
<thead>
<tr>
<th>Panel overlap specifications</th>
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<tbody>
<tr>
<td>Overall front panel height (A)</td>
</tr>
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<td>3001</td>
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