Zenith SR3

Demarcation / Welded mesh

Installation Manual

CONTENTS

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
Herons Way
Balby
Doncaster
South Yorkshire
DN4 8WA
United Kingdom
Tel.: **+44(0)1302 364 551**
email: **info@heras.com**
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

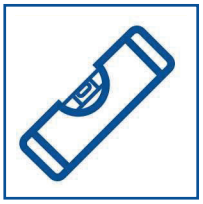
Drawings showing recommended positions of the equipment and foundation requirements can be supplied alongside the relevant data sheets.

4 INSTALLATION

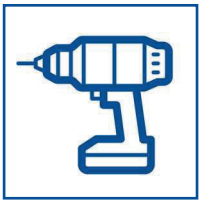
4.1 EXPLANATION OF SYMBOLS

Protective gloves
Use when working with concrete.

Wait
Allow concrete to cure.



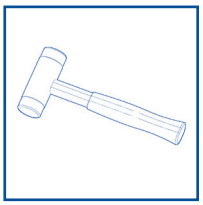
Level
Use a spirit level.



Electric screwdriver
Use for fixings.

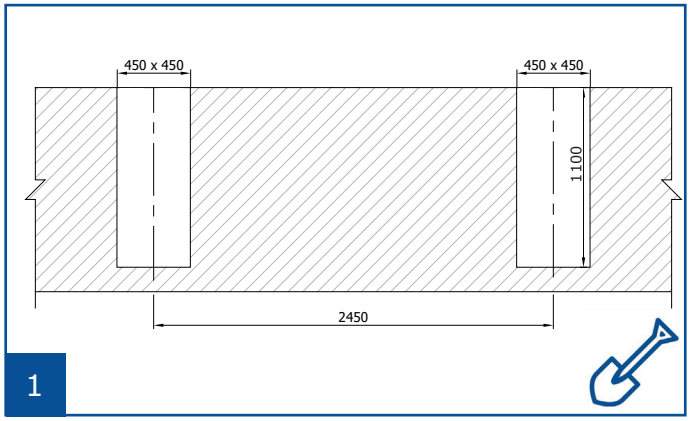
Shovel
Digging required.

Attack side
Shows direction of attack.



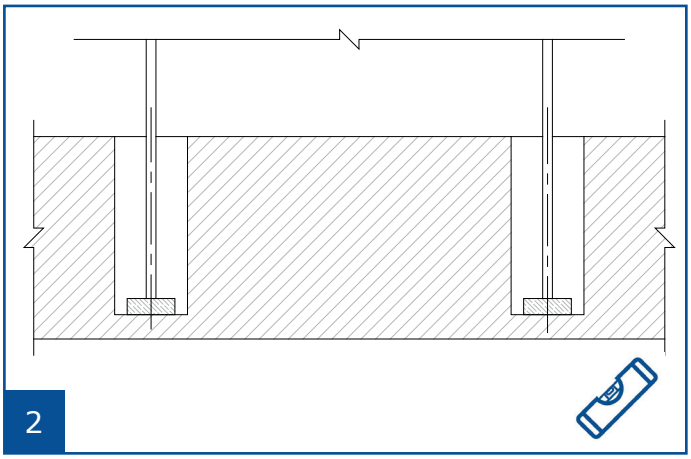
Hammer
Use a hammer.

4.2 PREPARE SITE

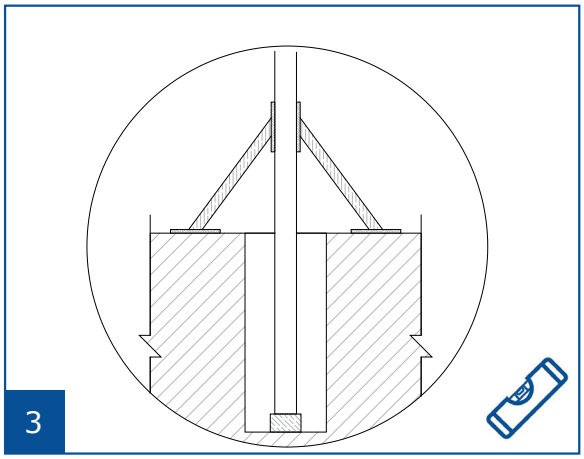


Clear and level the site appropriate before beginning installation. Dig foundations for posts to 450 mm², 1100 mm deep.

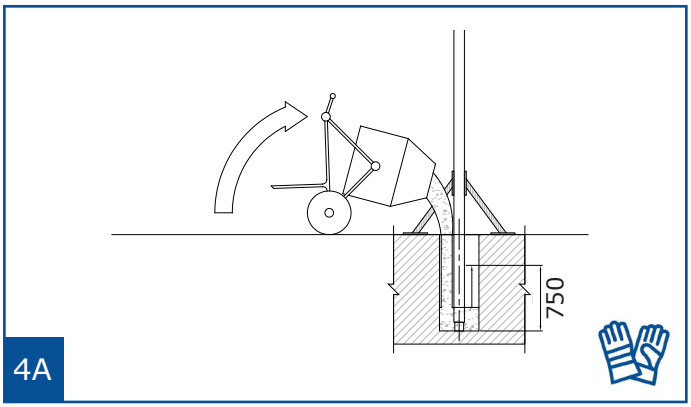
4.3 INSTALL POSTS



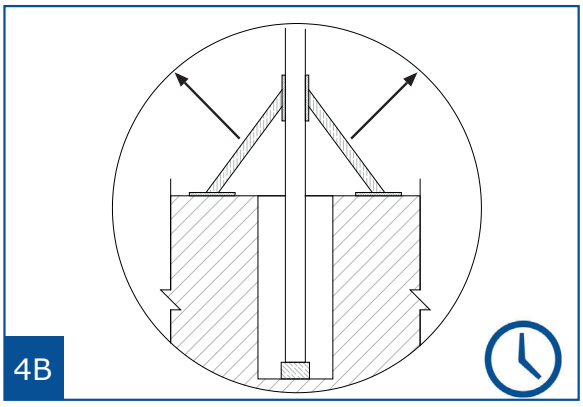
Insert posts, using a spirit level to keep them perpendicular. If necessary, place wooden blocks at base of posts to keep them flat and level with one another.



Attach wooden struts to hold posts in place.



Fill foundations with concrete up to 750 mm depth.

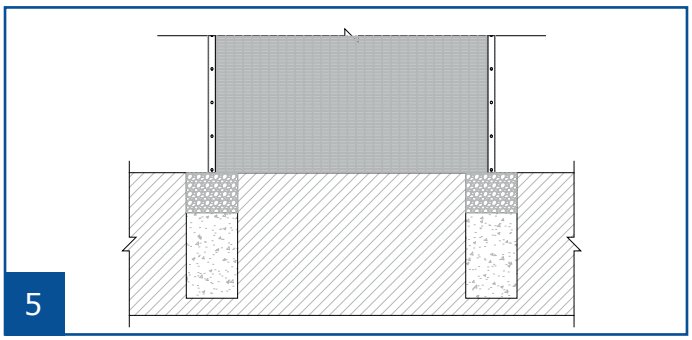


Allow concrete to cure. Remove wooden struts.

4.4 INSTALL OPTIONS

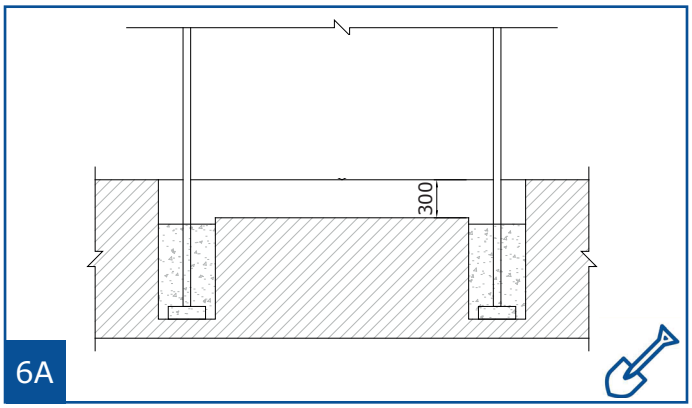
Consult site drawings to determine applicable option (4.4.1, 4.4.2 or 4.4.3).

4.4.1. NON-BURIED PANEL

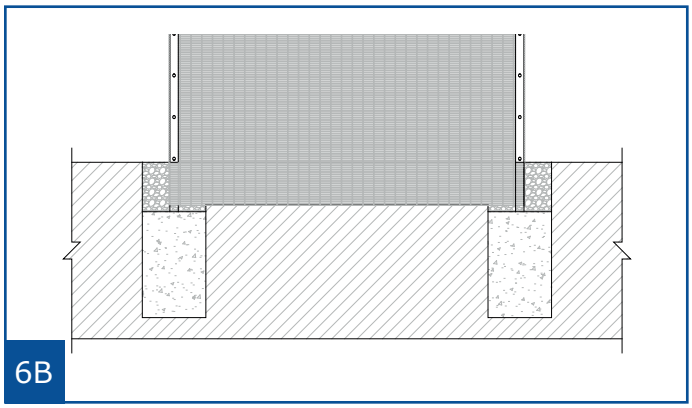


Affix the panels as shown in section 4.5. Fill remainder of foundations.

4.4.2. BURIED LOWER PANEL

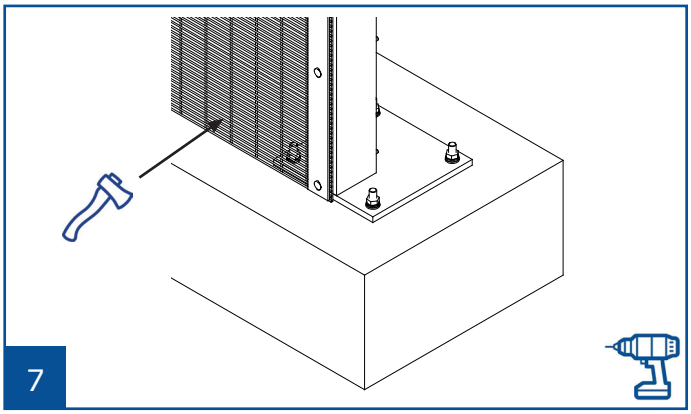


Dig a channel 300mm deep for each panel between the posts, wide enough for each respective panel.



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.

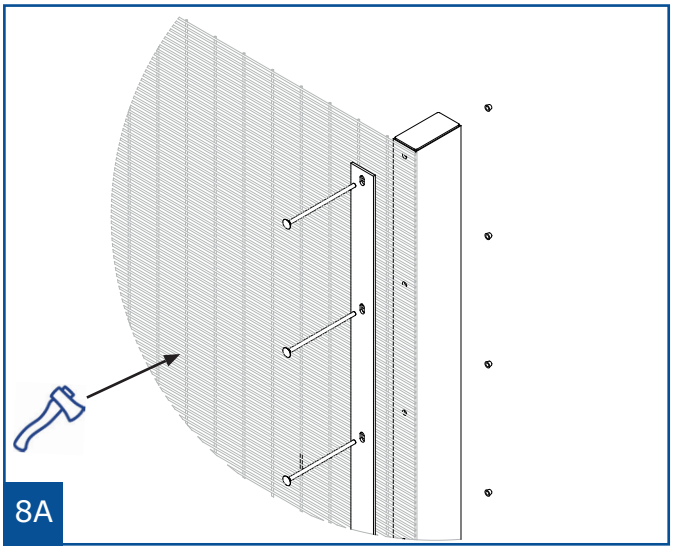
4.4.3. BASEPLATES



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.

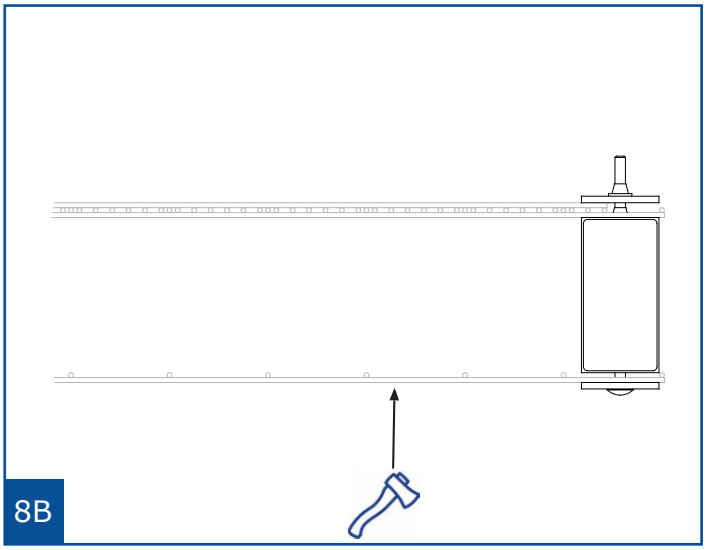
Always install single skin panel first at lowest fixture.

4.5 INSTALL PANELS



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

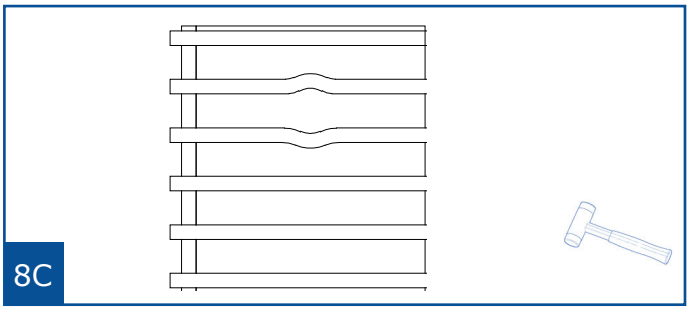
Clamp with flat bar and thread bolt completely through the post before installing double-skin panels.



Assemble bolts as shown.

Use a hex nut and washer to secure top bolt of each post.

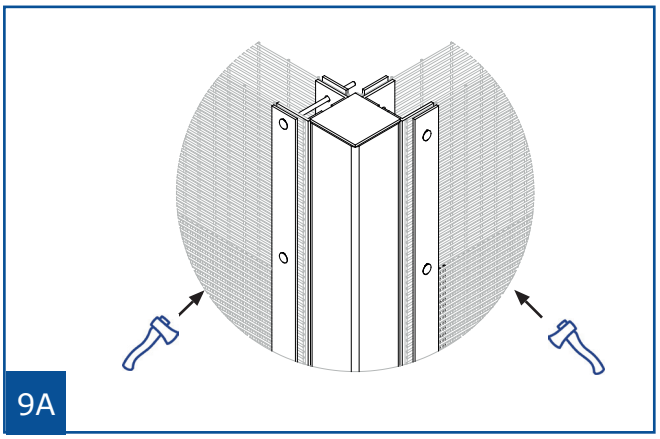
Use shear nuts and washers for all other bolts.



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

4.6 CORNERS

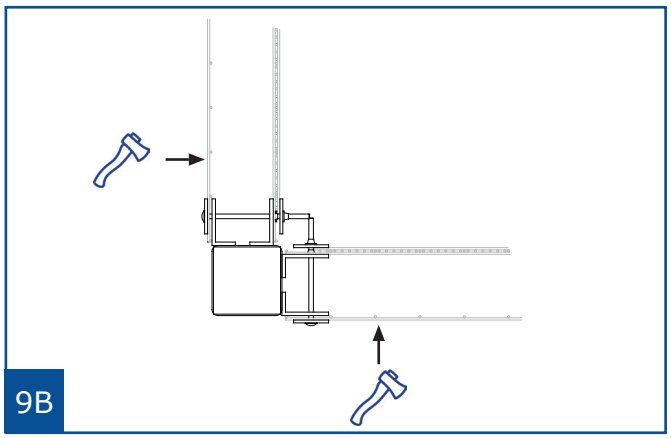
4.6.1. EXTERNAL



Arrange external corners as shown.

Retaining angles must be welded to the post.

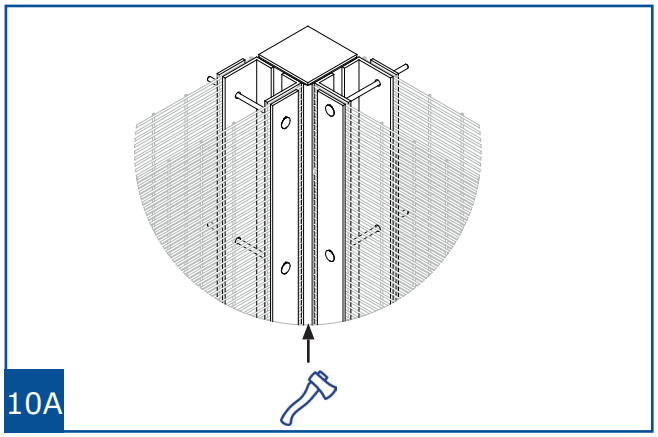
Install single skin mesh first.



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

Offset bolts to eliminate intersecting.

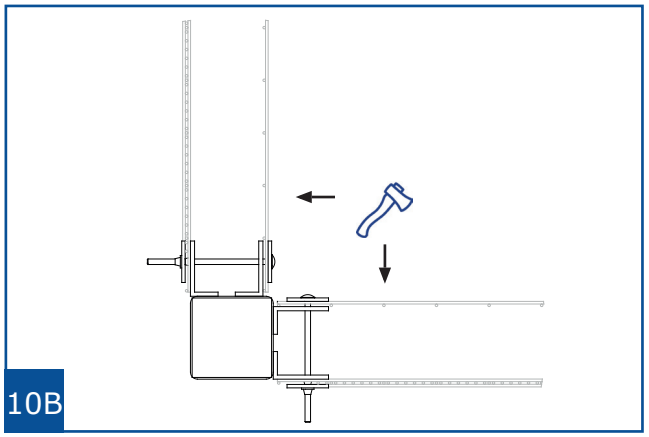
4.6.2. INTERNAL



Arrange internal corners as shown.

Retaining angles must be welded to the post.

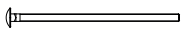
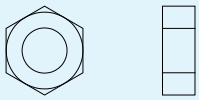
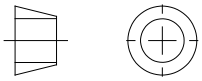
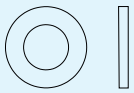
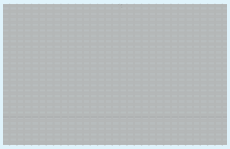
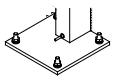
Install single skin mesh first.



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

Offset bolts to eliminate intersecting.

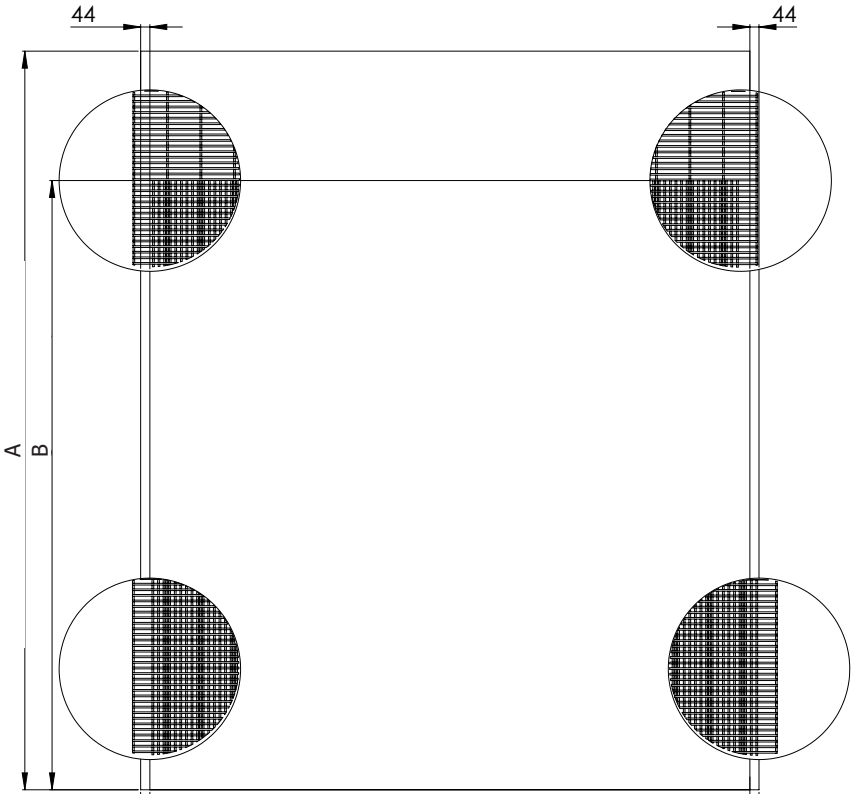
5 BILL OF MATERIALS

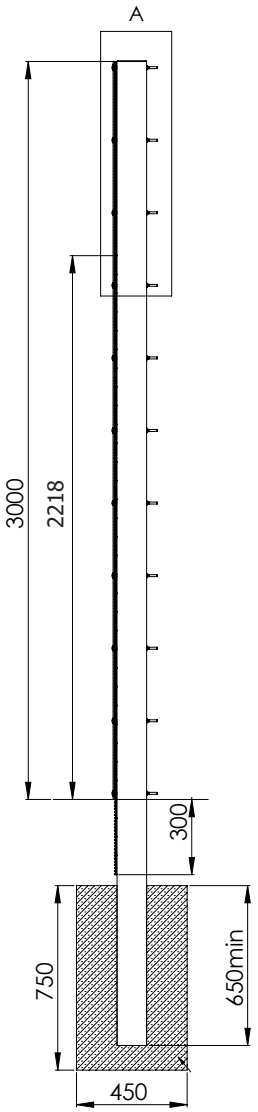
Image	Name	Stages
	M10 cup square bolt	8A, 8B, 9A, 9B, 10A, 10B
	Hex nut	8A, 8B
	Shear nut	8A
	Washer	8A
	Flat bar	8A, 8B, 9A, 9B, 10A, 10B
	Single-mesh panel	4, 6B, 7A, 8A, 8B, 8C, 9A, 9B, 10A, 10B
	Double-mesh panel	8B, 8C, 9A, 9B, 10A, 10B
	Post	2, 3, 4A, 4B, 5, 6A, 6B, 7, 8A, 8B, 9A, 9B, 10A, 10B
	Baseplate and baseplate fixings	7

6 APPENDIX

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

Panel overlap specifications	
Overall front panel height (A)	**Overall rear panel height (B)**
3001	2518





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