



Zenith SR1

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
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.
- Carry out installation in accordance with applicable local guidelines.

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 SR1, 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



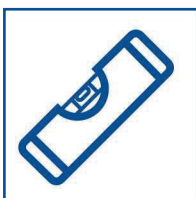
Protective gloves

Use when working with concrete.



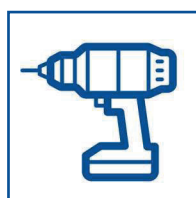
Wait

Allow concrete to cure.



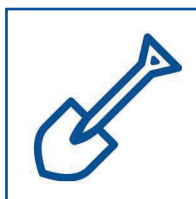
Level

Use a spirit level.



Electric screwdriver

Use for fixings.



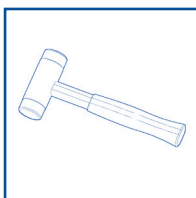
Shovel

Digging required.



Attack side

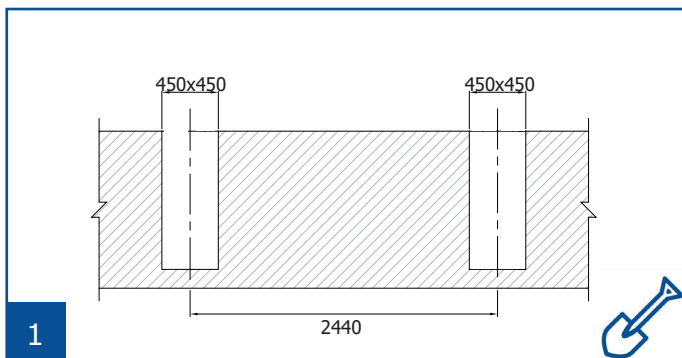
Shows direction of attack.



Hammer

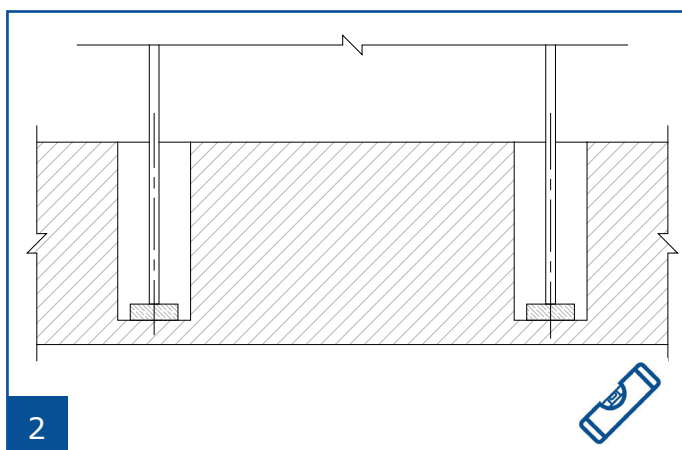
Use a hammer.

4.2 PREPARE SITE

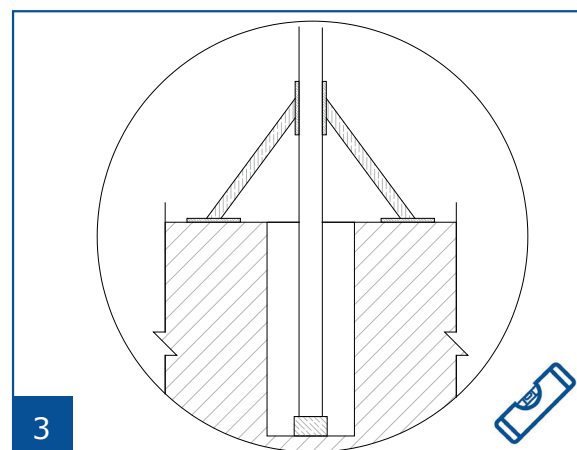


Clear and level the site appropriately before beginning installation. Calculate foundation dimension - see Appendix. Dig holes accordingly.

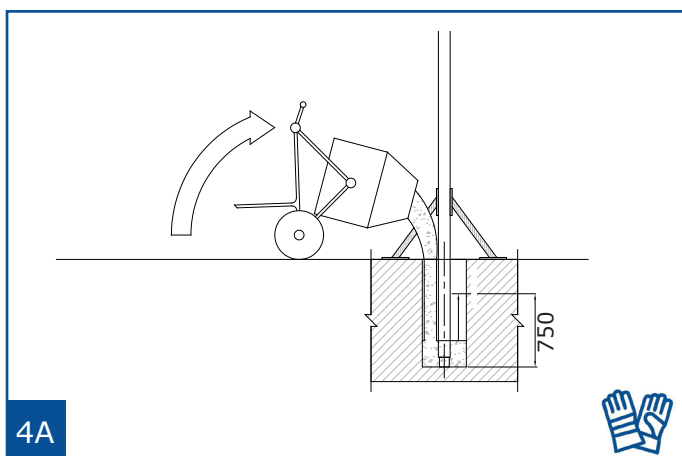
4.3 INSTALL POSTS



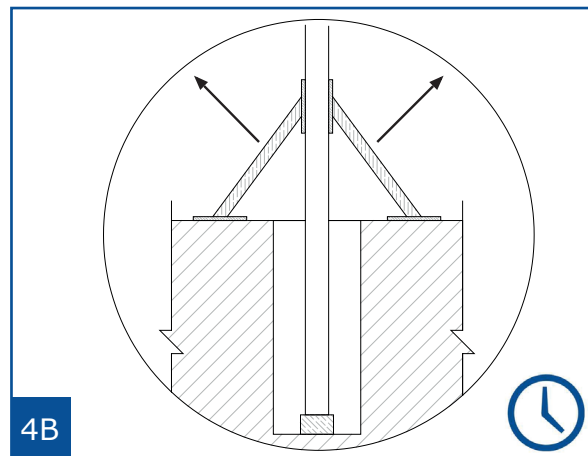
Insert posts, using a spirit level to keep them perpendicular. If necessary, place wooden blocks at base of posts to keep them flat and level with one another.



Attach wooden struts to hold the posts in place.



Fill foundations with concrete up to 750 mm depth.

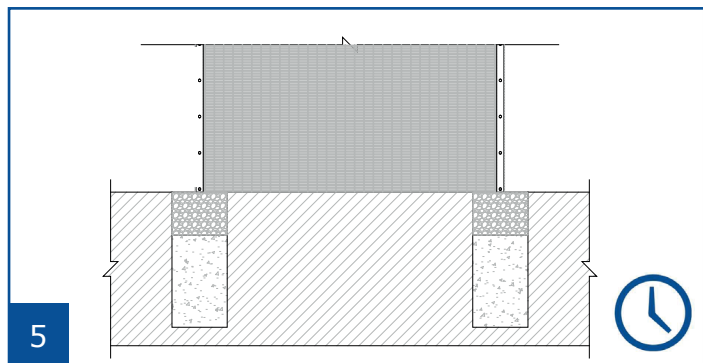


Allow concrete to cure. Remove wooden struts.

4.4 PANEL INSTALL OPTIONS

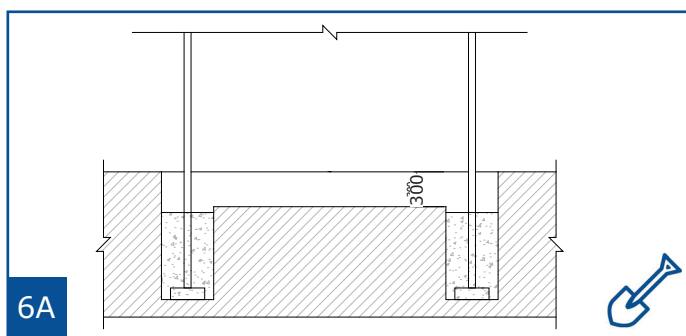
Consult site drawings to determine applicable option (4.4.1, 4.4.2 or 4.4.3).

4.4.1. NON-BURIED PANEL

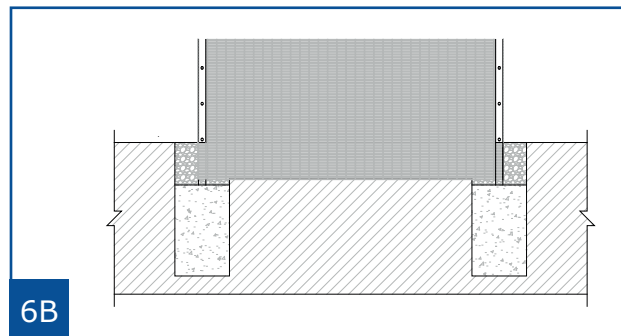


Affix panels to posts as shown in section 4.5. Fill remainder of foundations.

4.4.2. BURIED LOWER PANEL

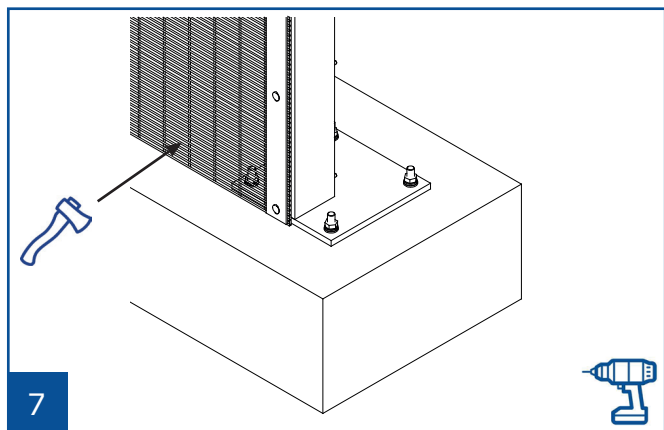


Dig 300 mm deep channel between each post, wide enough to insert panel.



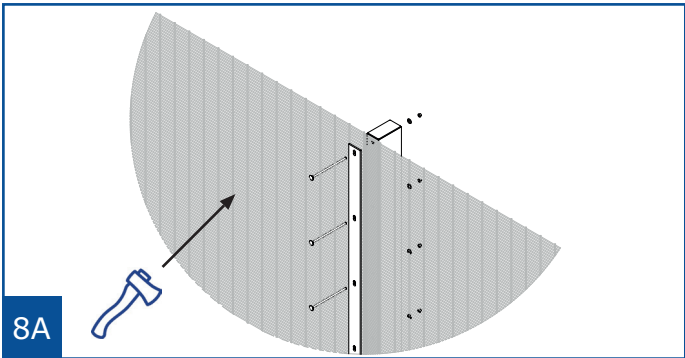
Insert panel into channel and affix to posts as shown in section 4.5. The mesh should rest atop foundations. Complete foundation fill, then fill channel with aggregate or similar.

4.4.3. BASEPLATES

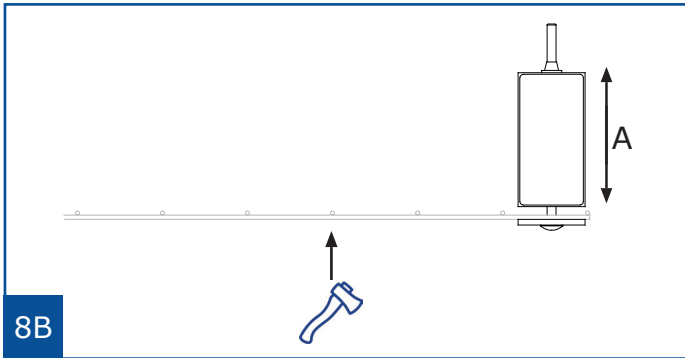


For installations with baseplates, see details on the site drawings. A standard baseplated system is shown above (with 15 mm diameter fixing holes).

4.5 INSTALL PANELS

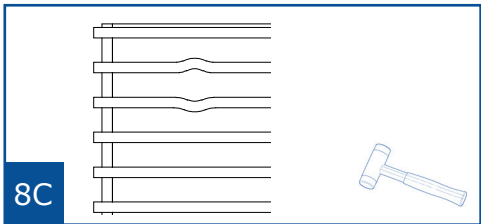


Overlap mesh on intermediate post. Clamp into place using flat bar and insert bolts from attack side.



Assemble bolts as shown. Bolts should be 30 mm longer than dimension A. Refer to Appendix to determine this.

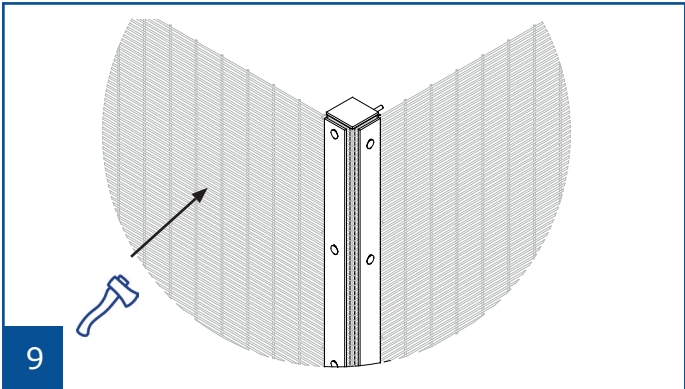
Use a hex nut and form G washer to secure topmost bolt. Use shear nuts and form G washer for all other bolts.



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

4.6 CORNERS

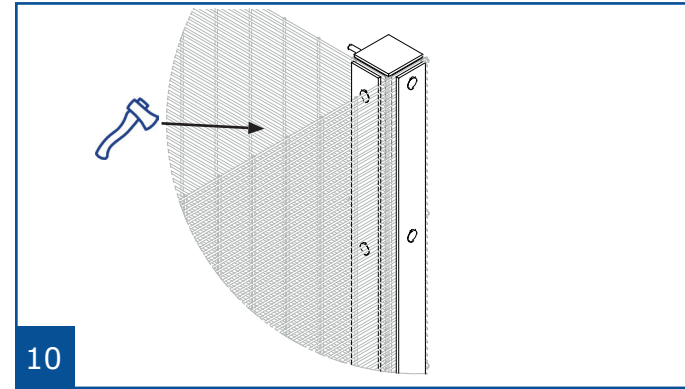
4.6.1. INTERNAL



Fix the mesh to the exterior of the posts.

Instead of overlapping, set the mesh to form a corner assembly as shown with offset bolts to eliminate intersecting.


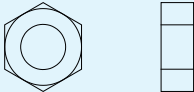
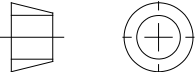
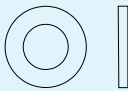

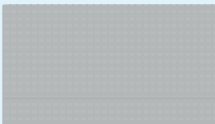

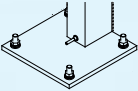
4.6.2. EXTERNAL



Fix the mesh to the exterior of the posts.

Instead of overlapping, set the mesh and fixings in the arrangement shown with offset bolts to eliminate intersecting.

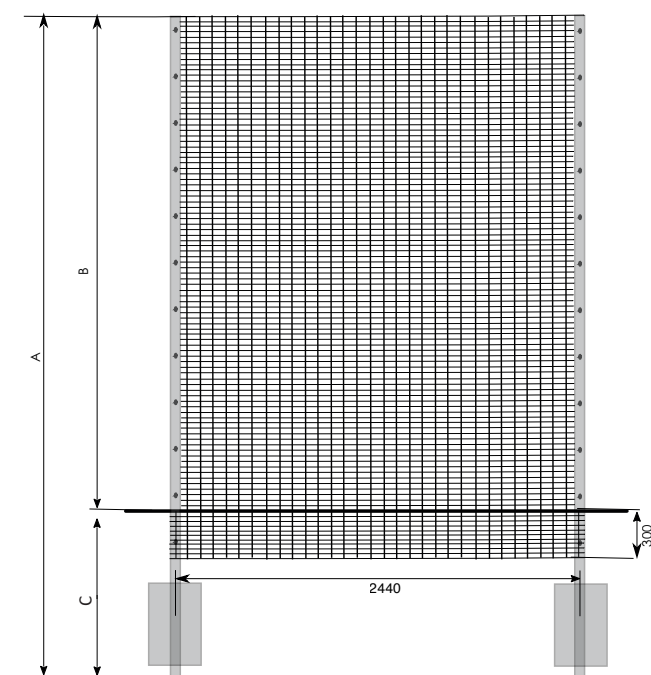
5 BILL OF MATERIALS

Image	Name	Stages
	M8 cup square bolt	8A, 8B, 9, 10
	Hex nut	8A, 8B
	Shear nut	8A
	Form 'G' washer	8A
	Flat bar	8A, 8B, 9, 10
	Mesh panel	5, 6B, 7A, 7B, 8A, 9, 10
	Post	2, 3, 4A, 4B, 5, 6A, 6B, 7A, 7B, 8A, 8B, 9, 10
	Baseplate and baseplate fixings	7

6 APPENDIX

Details of post and foundation dimensions are show below.

Post Specifications				
Post length (A)	Panel Height (B)	Foundation depth (C)	Post dimensions	No. of fixings
2400	1800	600	60 x 60 SHS	7
2700	2000	700	60 x 60 SHS	8
3100	2400	700	60 x 60 SHS	9
3820	3000	820	80 x 40 SHS	11
5200	4200	1000	80 x 80 SHS	15
6200	5200	1000	100 x 100 SHS	18



Local supplier stamp:

**Heras
Herons Way
Balby
Doncaster
South Yorkshire
DN4 8WA
United Kingdom**

