



شركة حديد
التقنية العليا
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HITECH
STEEL INDUSTRIES

Welded Mesh Fencing System Installation Manual

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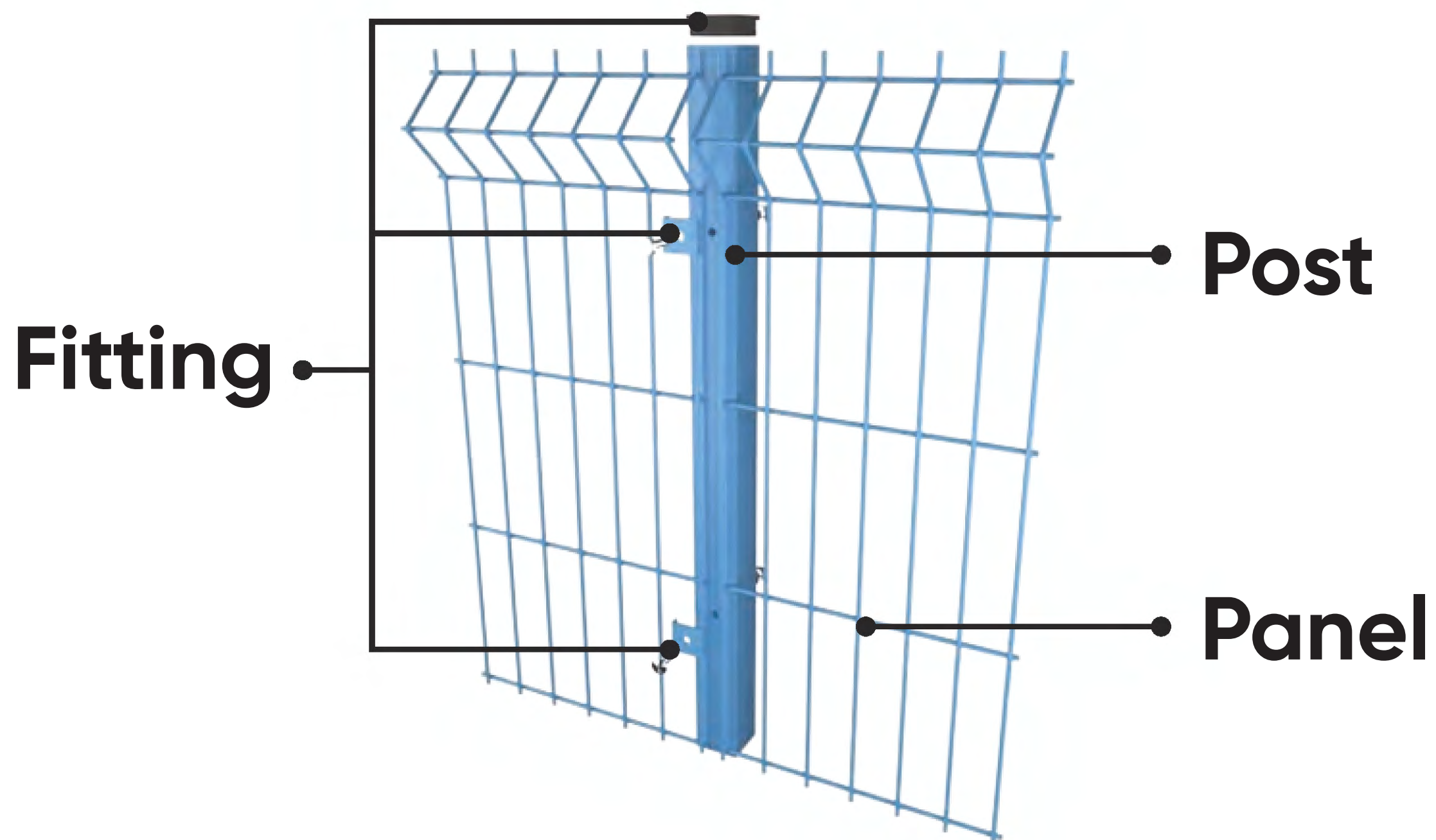
1. Overview

This manual provides detailed guidance for installing a welded mesh fencing system with two types of post fixing options:

- Base Plate Fixed Posts
- Direct Embedded Posts

The fence consists of:

- Welded Mesh Panels
- Steel Posts (Base Plate or Embed Type)
- Clamps and Screws/Bolts



2. Tools and Materials Required

I Tools:

- Measuring tape
- String line
- Spirit level
- Concrete mixer or bucket
- Drill machine
- Wrench set
- Hammer
- Shovel or auger (for embedded posts)
- Screwdriver or impact driver

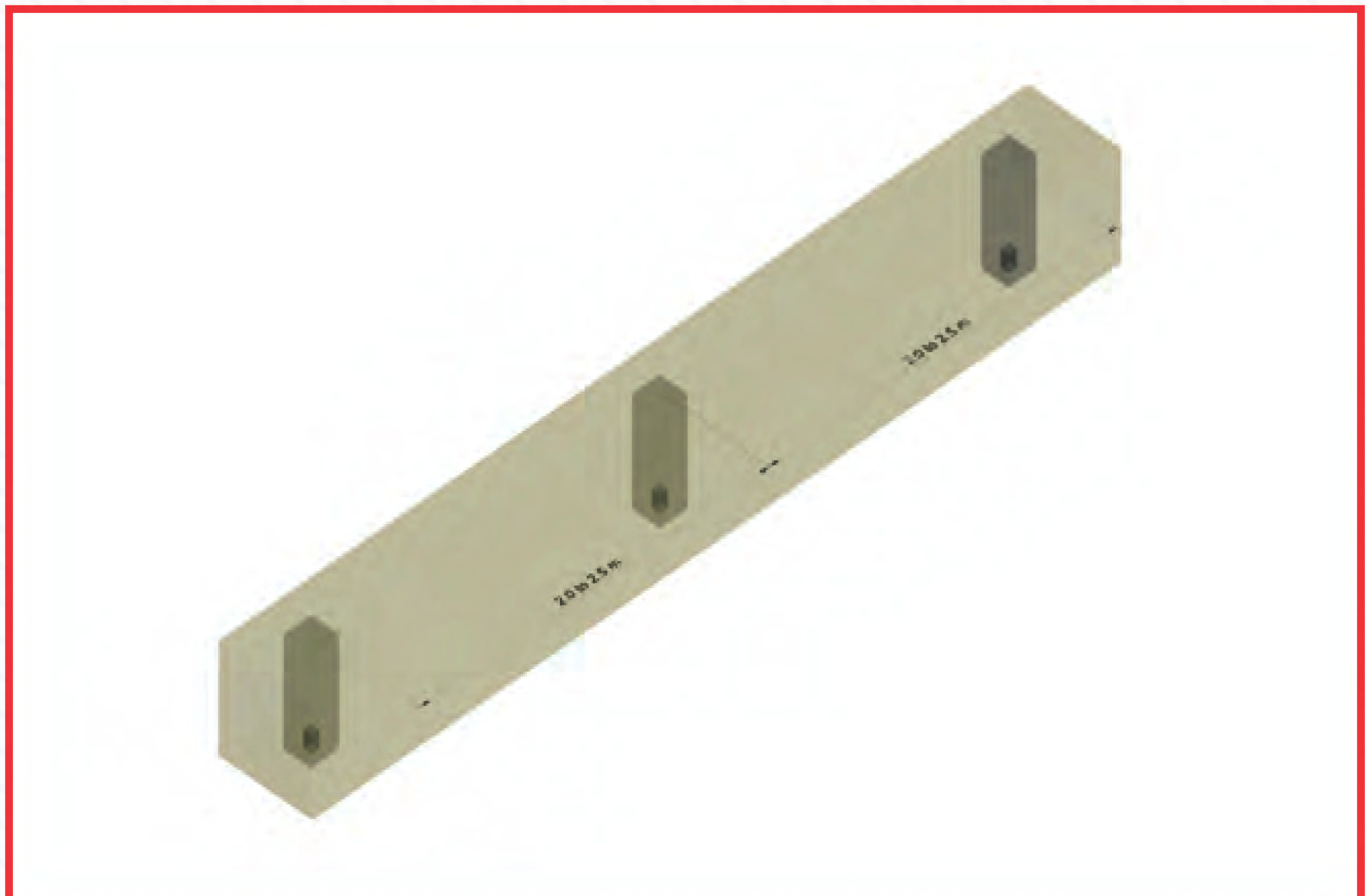
I Materials:

- Welded mesh panels
- Steel posts (with or without base plates)
- Anchor bolts (for base plate)
- Clamps with screws/bolts
- Concrete (for embedded posts)
- Anti-rust primer and touch-up paint

3. Site Preparation

1. Mark the Fence Line: Use stakes and string line to mark the straight path where fencing will be installed.

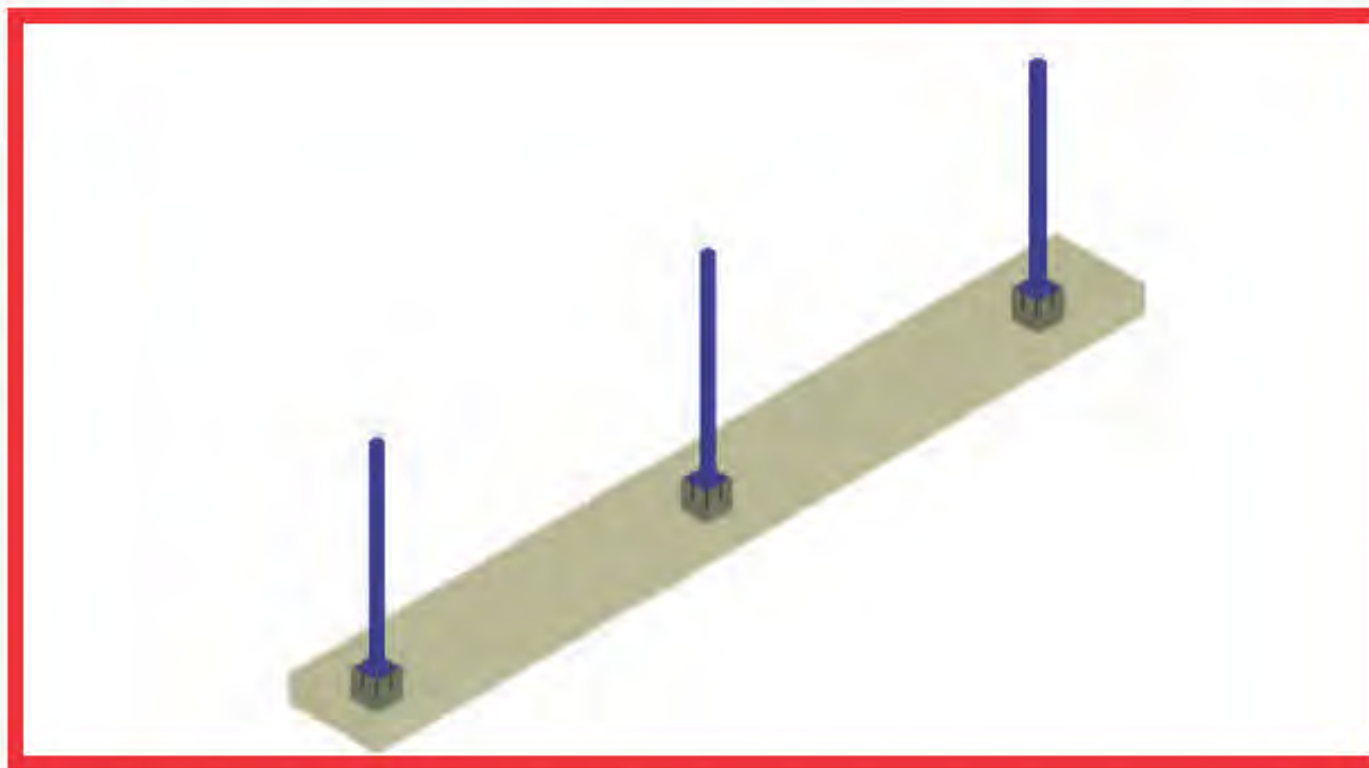
2. Mark Post Positions: Mark each post location based on panel width (commonly 2.0m to 2.5m per panel).



4. Post Installation Methods

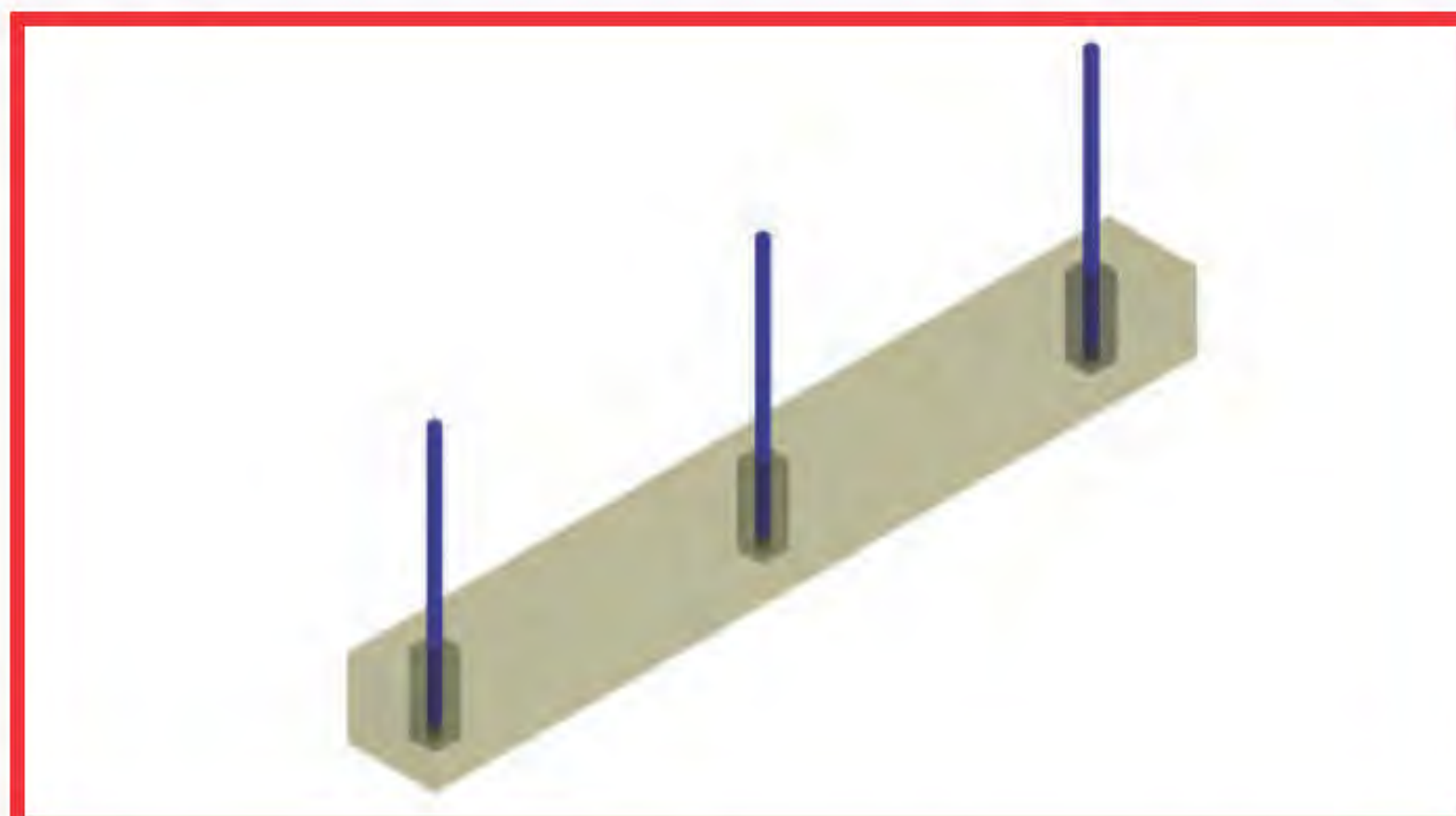
Option A: Base Plated Posts

- 1. Prepare Concrete Foundation:** Create concrete bases (min. 300mm x 300mm x 400mm depth or as per load requirement).
- 2. Fix the Post:** Position the base plate over the cured foundation. Drill anchor bolt holes. Insert and tighten anchor bolts securely.
- 3. Check for Verticality:** Use a spirit level to ensure the post is perfectly vertical.



Option B: Embedded Posts

- 1. Dig Holes: Depth:** 600mm–800mm | **Width:** 200mm–300mm
- 2. Insert Post:** Place the post in the center of the hole. Use a level to ensure it's vertical.
- 3. Pour Concrete:** Fill the hole with concrete mix and allow to cure for 24–48 hours.



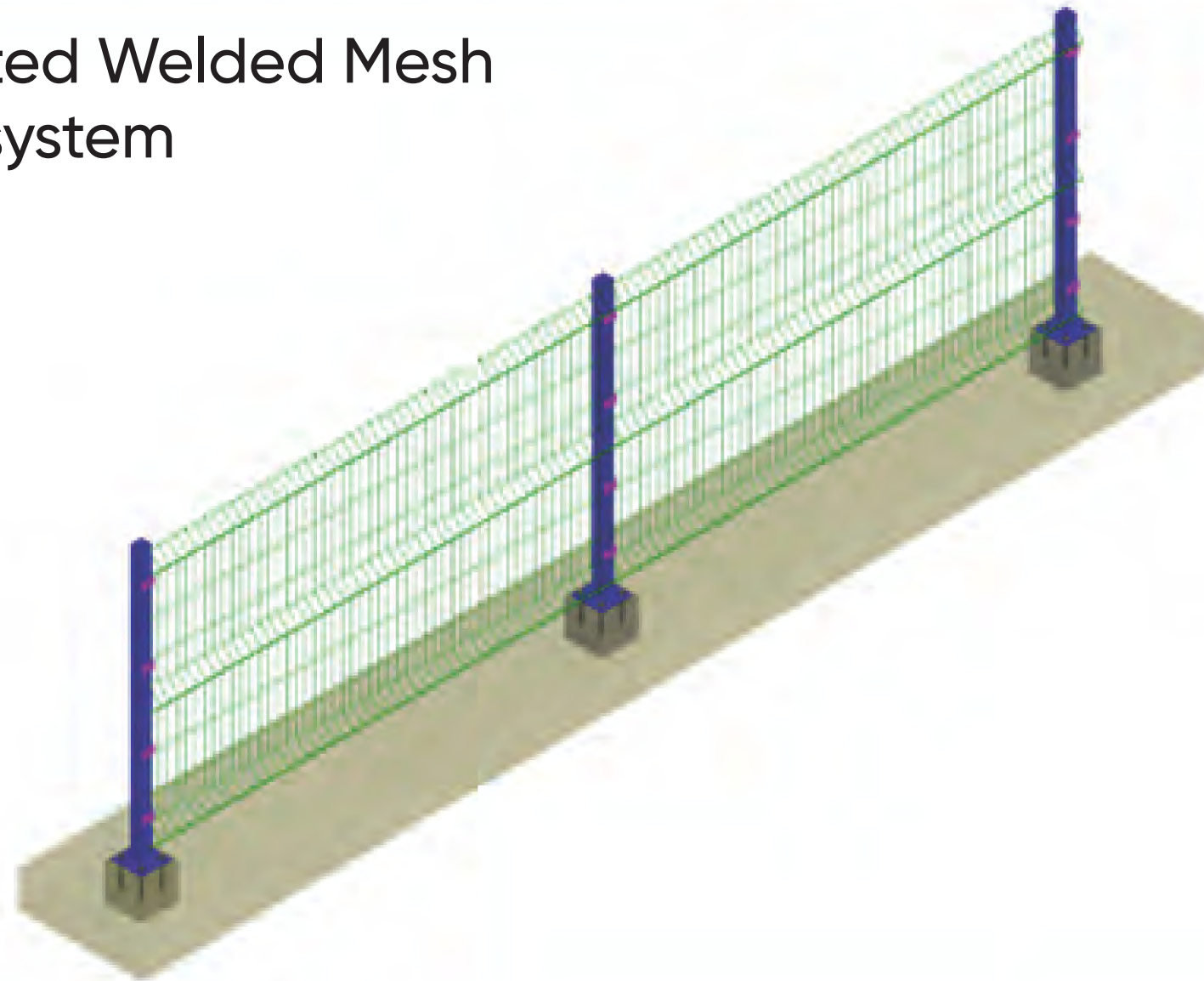
5. Panel Installation

- 1. Position the Panel:** Lift the mesh panel and align it between two posts.
- 2. Attach Clamps:** Place the clamp bracket over the panel wire and post. Secure it using screws or bolts.
- 3. Tighten All Fasteners:** Ensure clamps are firmly secured and panels are straight.
- 4. Repeat:** Continue the same process for each panel.

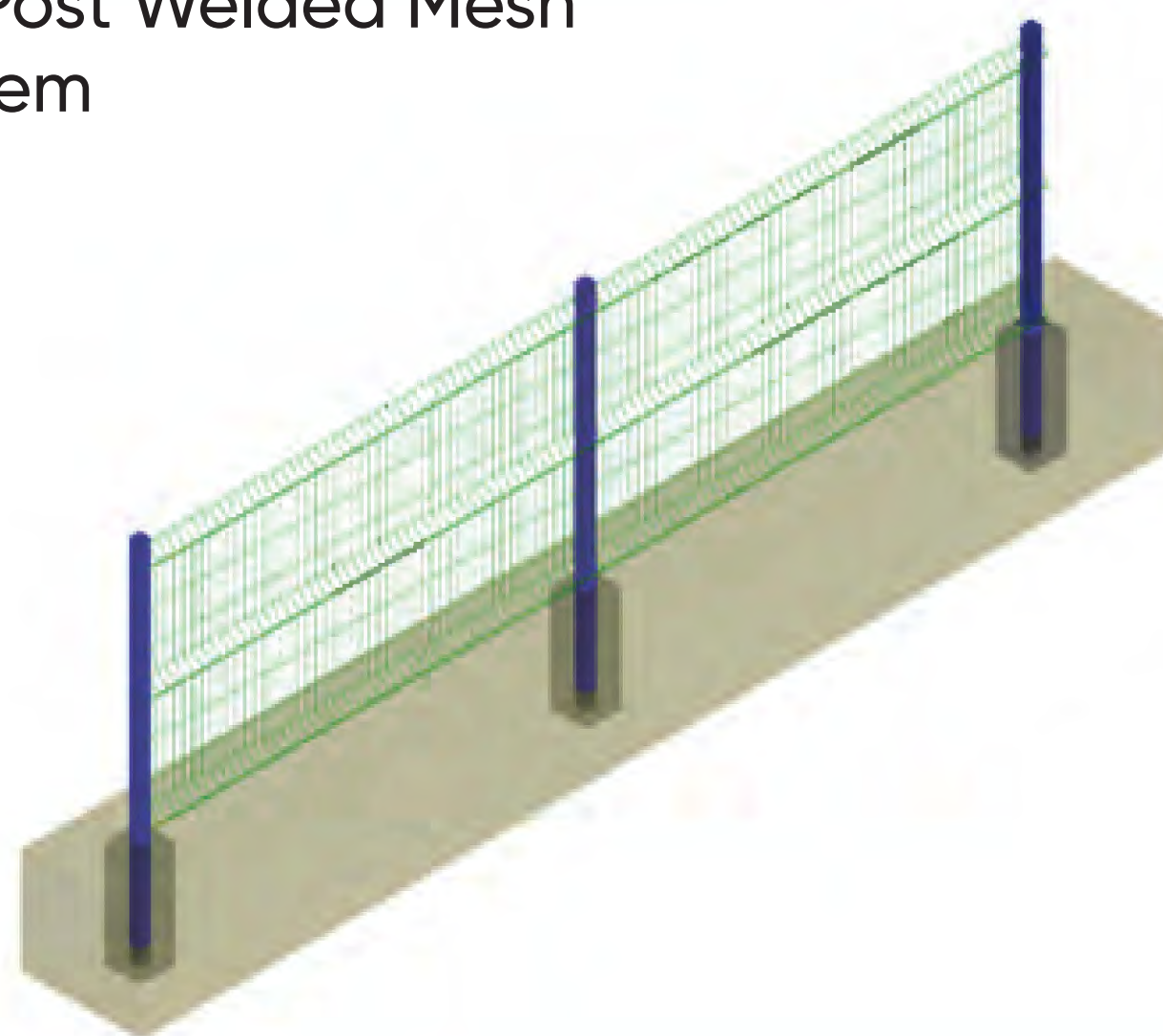


6. Final View of Installed Welded mesh fence

Base Plated Welded Mesh Fencing system



Embedded Post Welded Mesh Fencing system



7. Finishing Touches

- 1. Paint Touch-Up:** Apply zinc-rich or epoxy primer on scratches or cut areas.
- 2. Clean Up:** Remove excess concrete and clear debris.
- 3. Final Inspection:** Ensure the fence is aligned, stable, and free of loose parts.



8. Maintenance Tips

- Inspect clamps and screws every 6 months.
- Repaint if rust spots appear.
- Tighten any loose fasteners.

9. Safety Notes

- Always wear gloves and safety shoes.
- Use proper PPE during drilling or concrete mixing.
- Ensure no underground services are disturbed when digging.

