

NOVA

EN

INSTALLATION GUIDELINE

V 1.0



Mounting System

NOVA SOLAR FENCE



25 YEAR
WARRANTY



UP-TO 30% FASTER
INSTALLATION



PORTRAIT

WWW.NOVAMOUNTING.COM

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1. INTRODUCTION

Welcome to the NOVA Solar Mounting Solution Installation Guideline. This guide is your comprehensive resource for installing NOVA's solar mounting systems. Designed with precision and engineered for durability, our systems ensure a seamless and efficient installation experience.

Whether you're working with penetrative tin roofs, tile roofs, or other specialised surfaces, this guideline provides step-by-step instructions and all the necessary details to ensure a successful and long-lasting solar installation.

2. GENERAL

This installation guideline outlines the correct procedure for assembling the NOVA Mounting System and must be followed precisely. Before beginning installation, please read this guideline carefully to ensure full understanding of the process and associated safety requirements. Compliance with all safety precautions, handling guidelines, and the procedures outlined in this guideline is essential for a safe and successful installation.

In addition to this guideline, refer to any project-specific layout drawings, engineering reports, or planning documents provided by NOVA Mounting. These documents contain important technical data and site-specific instructions that must be adhered to throughout the installation process.

Please note that the illustrations and diagrams within this guideline are provided for general guidance and may differ slightly from actual system configurations depending on roof type, region, or project requirements.

LIABILITY

All technical content and guidance contained in this guideline is developed using current standards, regulations, and NOVA Mounting's expertise in solar mounting systems. While every effort has been made to ensure accuracy, final responsibility lies with the installer to verify compliance with local codes, structural suitability, and safe work practices. Refer to our official warranty and liability conditions available at www.novamounting.com

INSTALLATION GUIDELINES

Ensure that the roof construction is suitable for the introduction of forces at the fixing points and their subsequent transmission. In order to compensate thermal expansion, include a break every 25 meters when planning the PV-system. For module positioning/fastening points please refer to manufacturers recommendations. Please follow your local timber construction standard. Please do not use installed roof connections as ladder. If installation is located within 10km from the coast, we advice not to use zinc coated material. For further information please contact your sales representative or the technical department at NOVA Mounting.

TESTING & CERTIFICATION

All components have been tested and developed to be compliant with relevant guides and regulations.

MAINTENANCE

To ensure the long-term safety, performance, and structural integrity of the NOVA Mounting System, periodic inspections and maintenance are required. All maintenance activities must be carried out by qualified personnel familiar with the system and local safety standards.

- Perform a general system inspection annually. Additional inspections should be conducted after severe weather events, such as storms with wind speeds exceeding 75 km/h or heavy hail.
- Inspect all screw connections and tighten any that are loose, following the specified torque values provided in the installation instructions
- Any damaged, corroded, or loose components must be repaired or replaced immediately.

DISASSEMBLY & DISPOSAL

Reused components are classified as wearing parts, and responsibility for assessing wear rests with the installer. NOVA disclaims any liability or warranty for reused components. Disassembled parts should be properly recycled, with metals and plastics sent for recycling, and other materials disposed of according to their composition.

WARRANTY

Warranty according to the terms and conditions found on the website www.novamounting.com

NOVA is not accountable for the roof's capability to maintain the introduced forces. Please check the roof's compatibility with a static engineer.

3. SAFETY GUIDELINE

Before commencing installation, ensure the mounting surface is structurally sound and suitable for the applied loads of the solar array. All installations must be performed in accordance with the system design, local building codes, and relevant Australian Standards. Carefully plan the panel layout to accommodate thermal expansion—introducing expansion joints every 25 metres is recommended. Always follow the solar panel manufacturer's guidelines regarding clamping zones and attachment points. Do not use mounting components as footholds or for temporary access. Ensure the roof surface is clean, dry, and free of debris before beginning work. If in doubt, consult a structural engineer or contact NOVA Mounting's technical support for project-specific guidance.

PERSONNEL & SUPERVISION

- Installation must be carried out by qualified and trained personnel, with a minimum of two professionals present at all times
- All installers must be familiar with this guideline and local safety standards before beginning work.

WORKSITE SAFETY

- Never install the mounting system in high winds, wet conditions, or on slippery or uneven roof surfaces.
- Keep the roof clean and dry. Remove any algae, debris, or obstacles before beginning installation.
- Do not walk on the mounting system or solar panels at any time.
- Never stand in gutters or areas not designed to support weight.
- If working on tiled roofs, slide tiles upward to create footholds—do not damage tiles or roof structure.

MANDATORY SAFETY CHECKS

- Do not alter or substitute system components.
- Ensure all fasteners are tightened to the recommended torque.
- Double-check all fixings before finalising installation.

GENERAL RESPONSIBILITY & SAFETY GUIDELINE

Ladders & Access Equipment: Place ladders on stable, solid surfaces. Maintain a ladder angle of approximately 75°, and ensure it extends at least 1 metre above the roof edge. Where possible, secure the ladder at the top using a rope or tension strap.

Handling and Modification: Do not throw or roughly handle any components. Avoid bringing the system into contact with sharp or heavy objects. Do not modify components in any way, including exchanging bolts, drilling holes, or bending parts. Any such modifications not described in the standard installation procedure will void the warranty.

Roof Inspection: Before installation, verify the roof's load-bearing capacity. Check that the roof is in good condition and can support the weight of the solar panels, including additional materials and loads.

Weather Conditions: Avoid installation in adverse weather conditions, such as strong winds or wet, slippery surfaces.

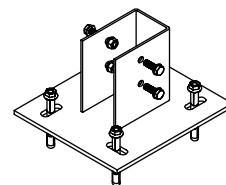
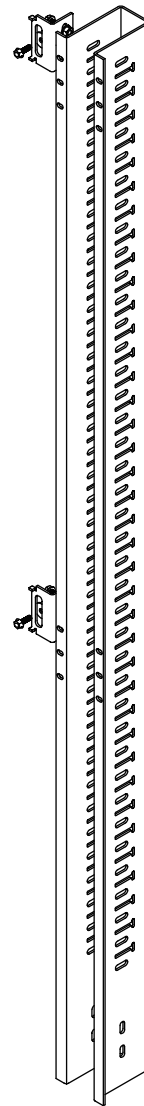
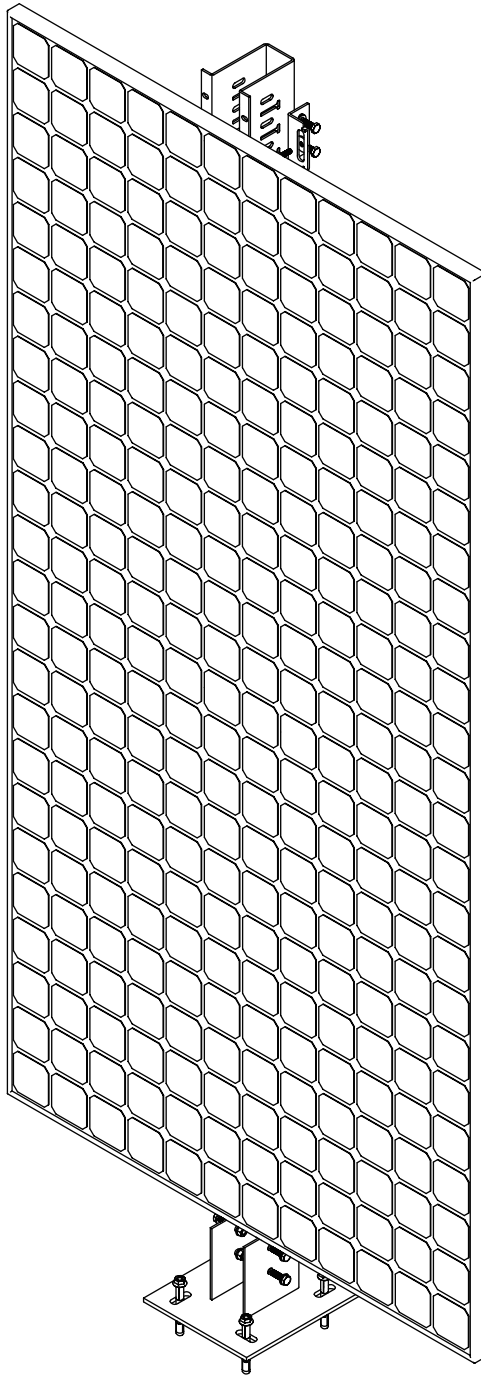
Safety Measures: Follow all fire regulations related to photovoltaic installations. Ensure the roof surface is clean, dry, and free of debris before beginning installation. Use safety nets and edge protection as necessary.

Earthing and Bonding: Perform equipotential bonding, grounding, and earthing according to country-specific standards and regulations. Galvanising of all earthing components if required.

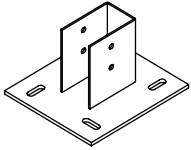
Protective Gear: Wear appropriate protective equipment such as helmets, gloves, and non-slip safety boots.



4. SYSTEM OVERVIEW



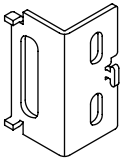
PARTS LIST



PART NAME:
POST BASE PLATE



PART NAME:
POST



PART NAME:
MODULE BRACKET
PART NO.:
NOVA-RA-NOU____

5. INSTALLATION PREPARATION

TOOL LIST



**MARKER
CHALK**



**TAPE
MEASURE**



**PLIERS
TIN SNIPS**



**PROTECTIVE
EQUIPMENT**



**STRING
LINE**



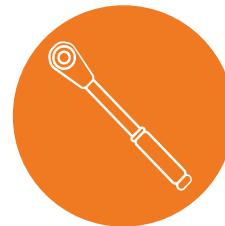
**CIRCULAR
SAW**



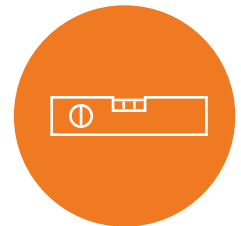
**IMPACT
DRIVER**



**NUT
SETTER**

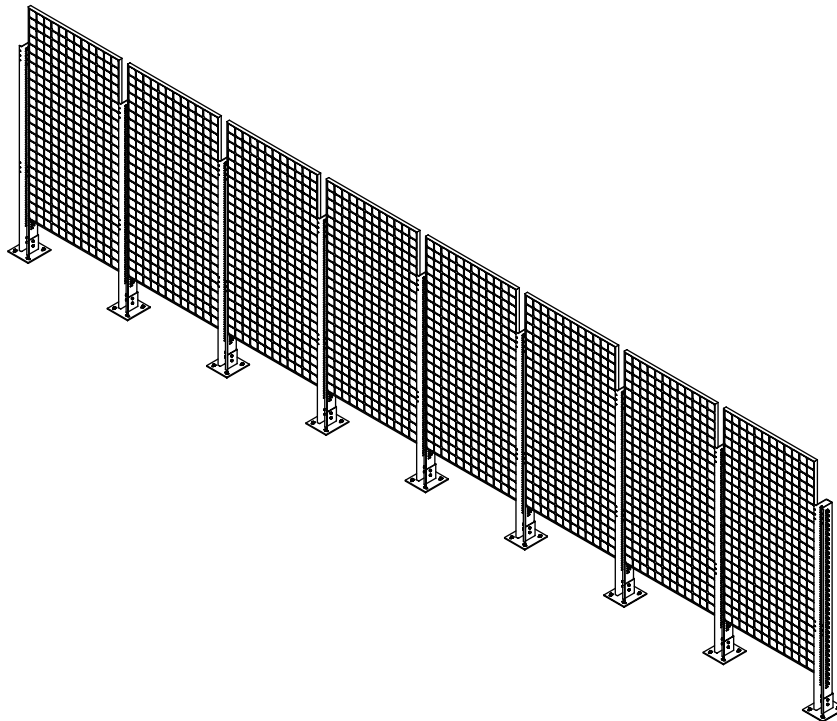


**TORQUE
WRENCH**



**SPIRIT LEVEL
SET SQUARE**

PORTRAIT SET UP



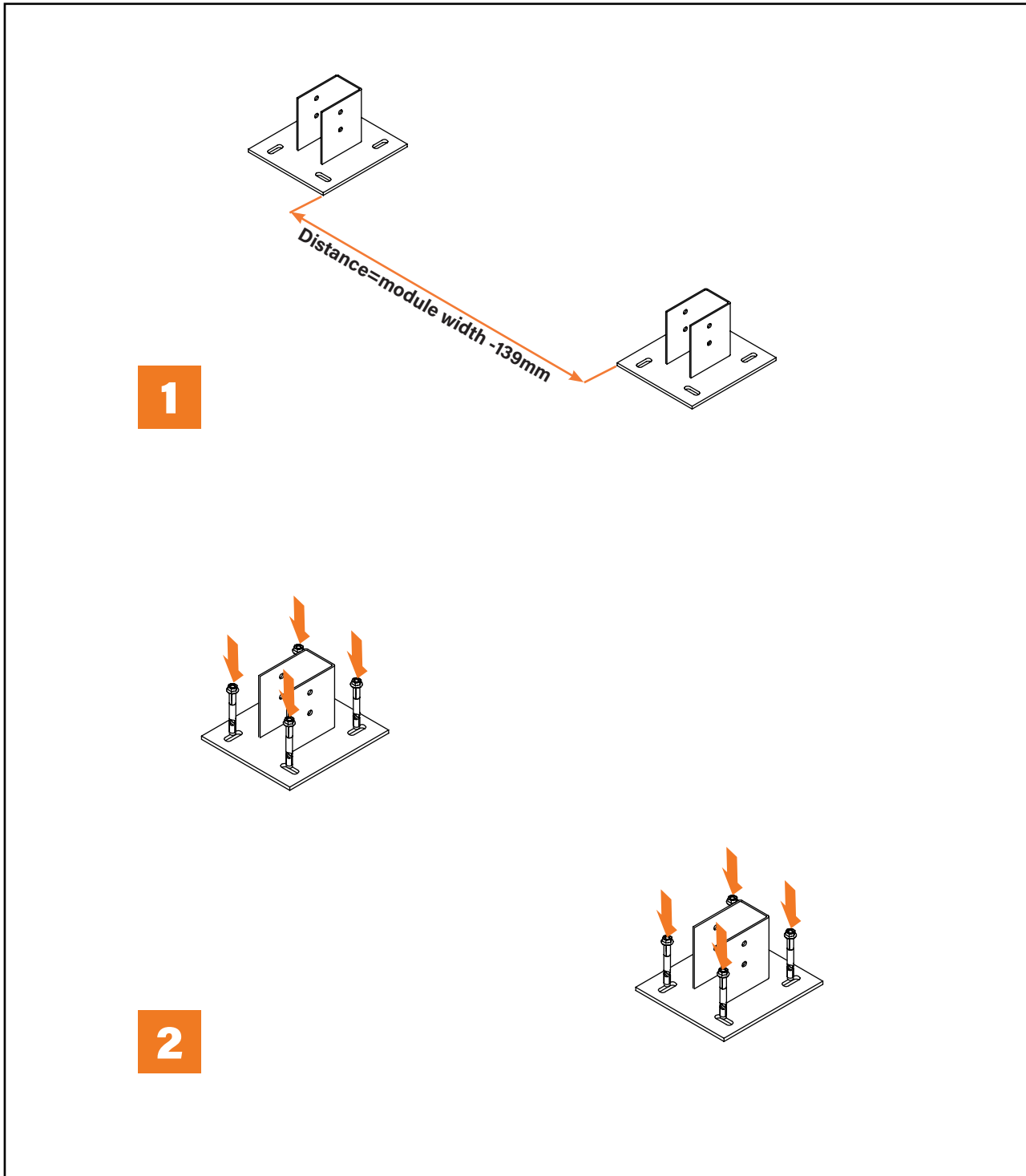
- Take the dimensions of layout from the planning documents.
- Determine module size.
- Determine and mark positions of Solar Fence.



Please ensure to follow all relevant standards and guidelines including, but not limited by, wind region, terrain category, off purlin requirements, roof zoning and building structural capacity. Please request relevant certifications from your local NOVA distributor.

6. INSTALLATION GUIDELINE

FENCE POST BASE



STEP 1

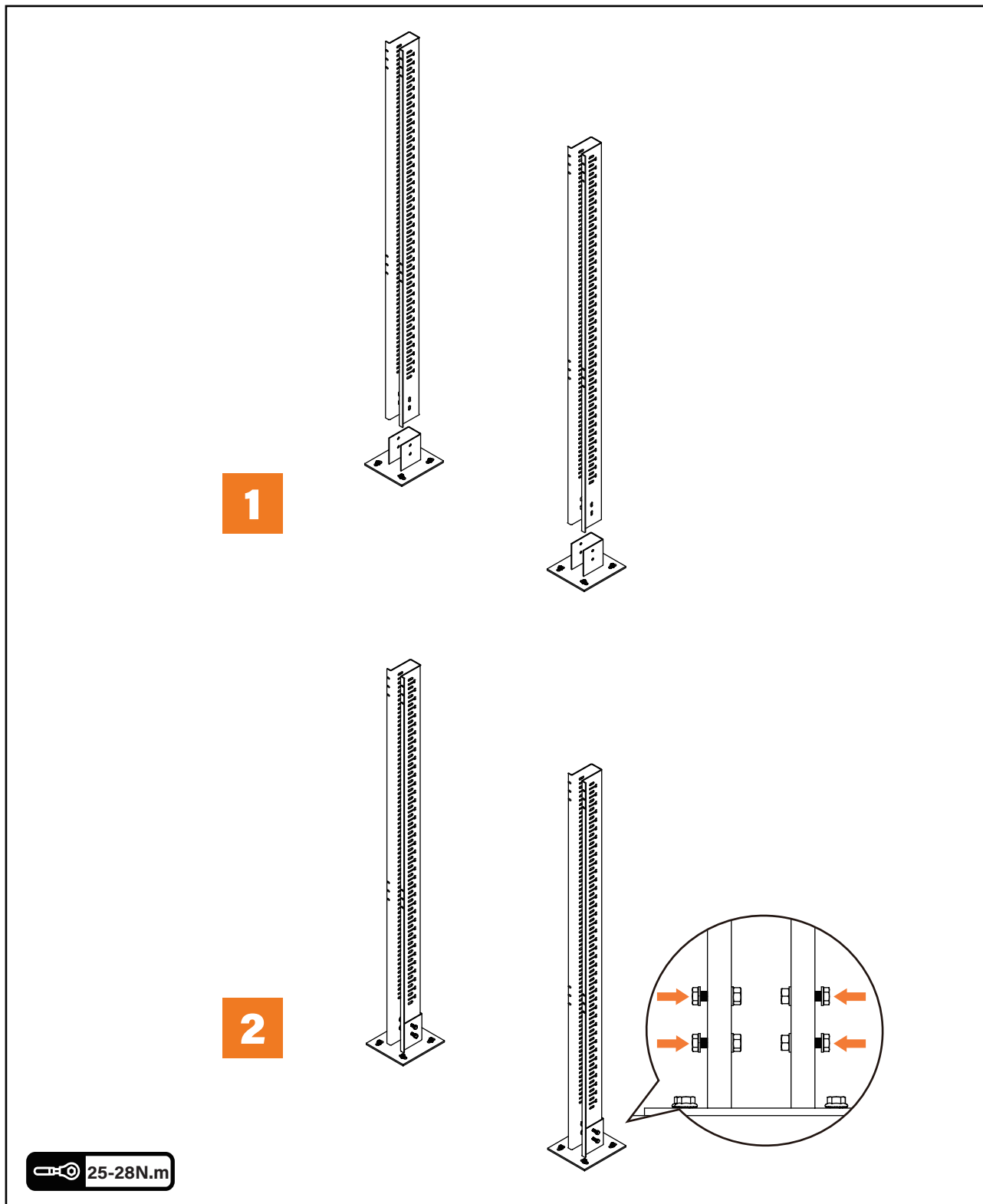
Place the fence post bases in position in accordance with the layout plan. The spacing between each base is equal to the module width minus 139mm.

STEP 2

Mark and install the anchor bolts to secure the base in place. Refer to the anchor bolt manufacturer's specifications for installation requirements and recommended torque values.

 Ensure the post bases are parallel to each other before securing.

INSTALLING THE FENCE POSTS

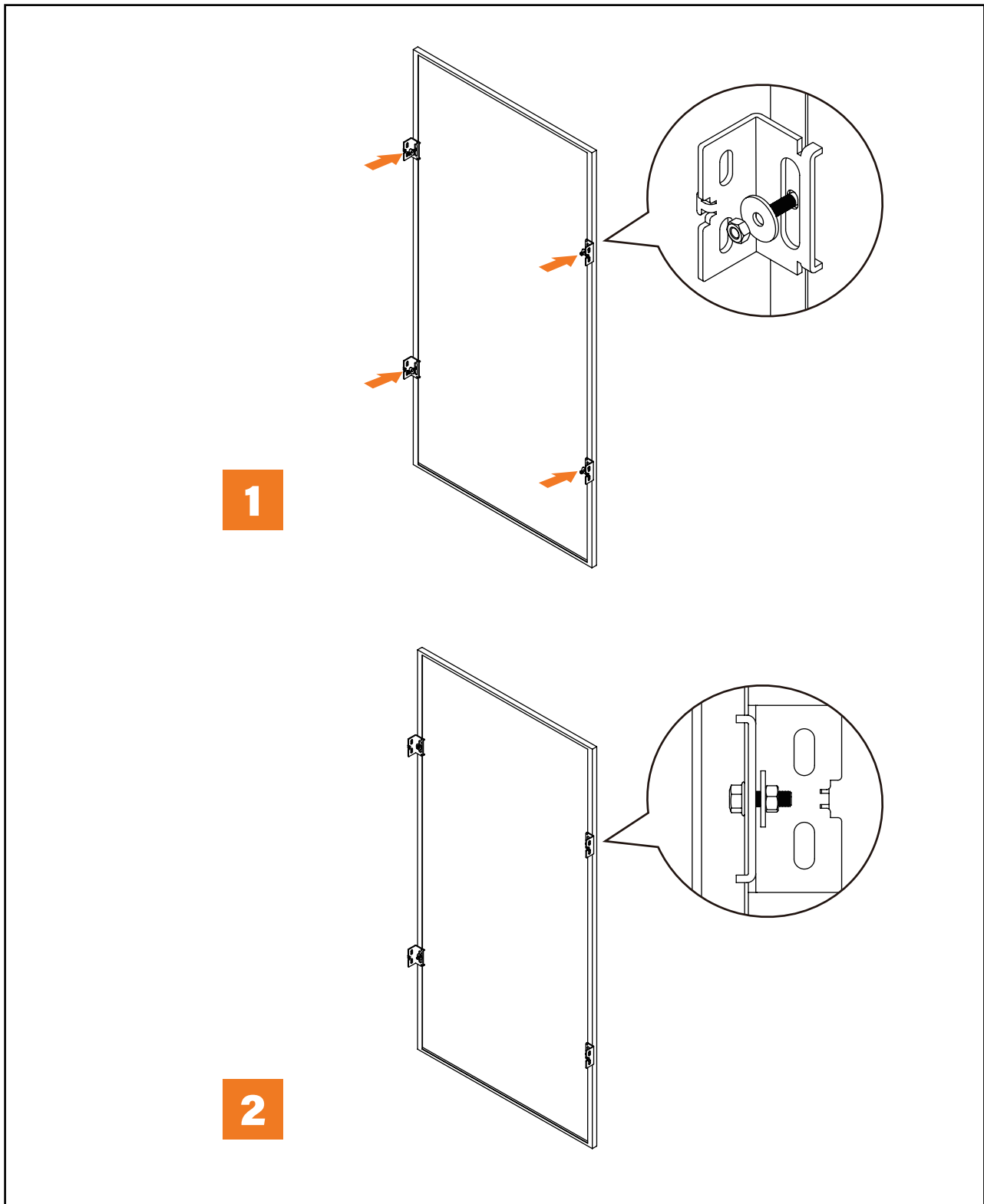
**STEP 1**

Insert the post into the base, ensuring it is fully seated.

STEP 2

Using four sets of bolts and nuts per post, insert and tighten all fasteners to the specified torque (25-28N.m)

INSTALLING THE MODULE BRACKETS

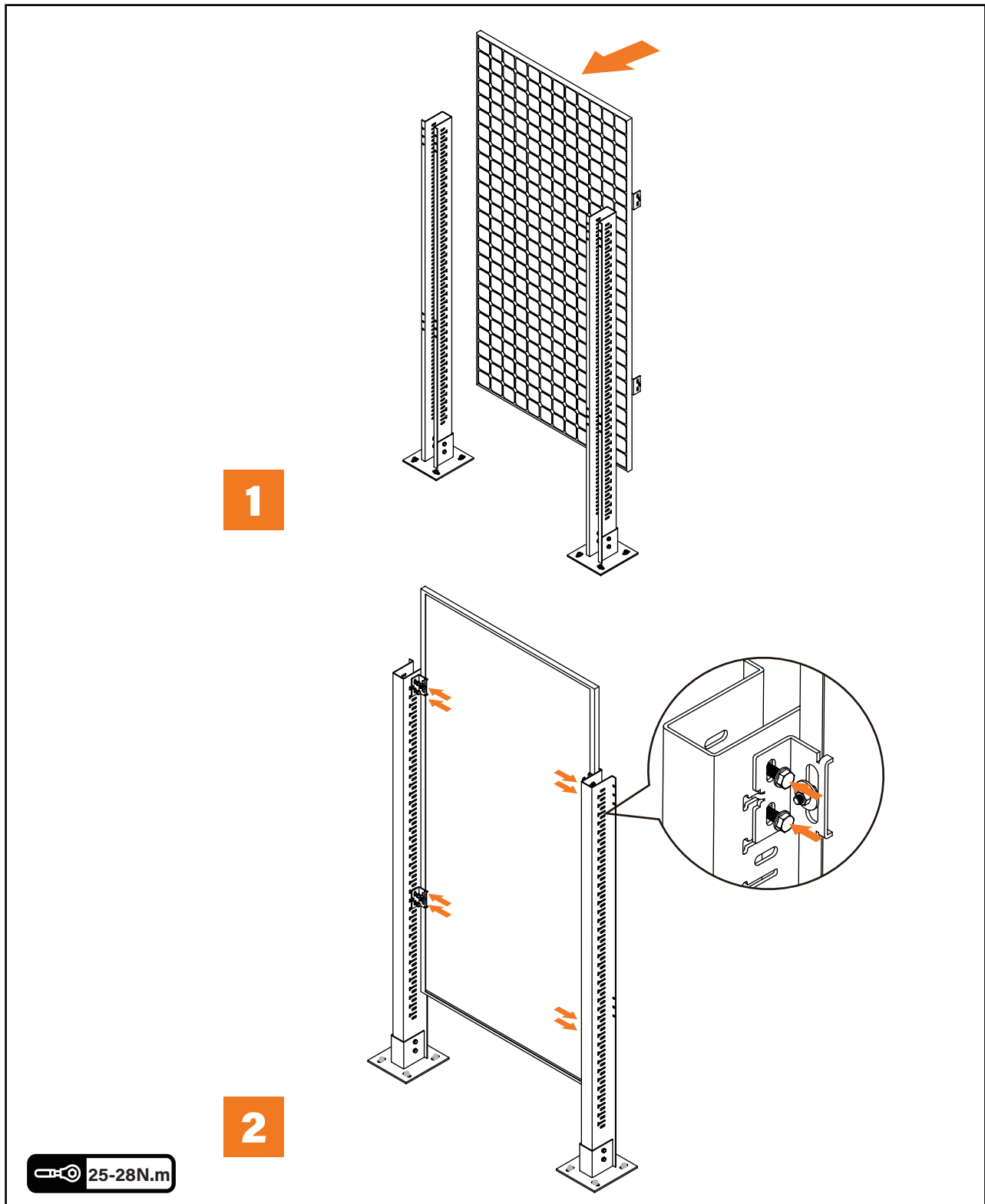
**STEP 1**

Place and align each module bracket on the module frame, as shown above.

STEP 2

Insert the bolt from inside the module frame and loosely secure it with the nut. Leave sufficient adjustment to allow the bracket to be attached to the post.

INSTALLING THE SOLAR MODULES

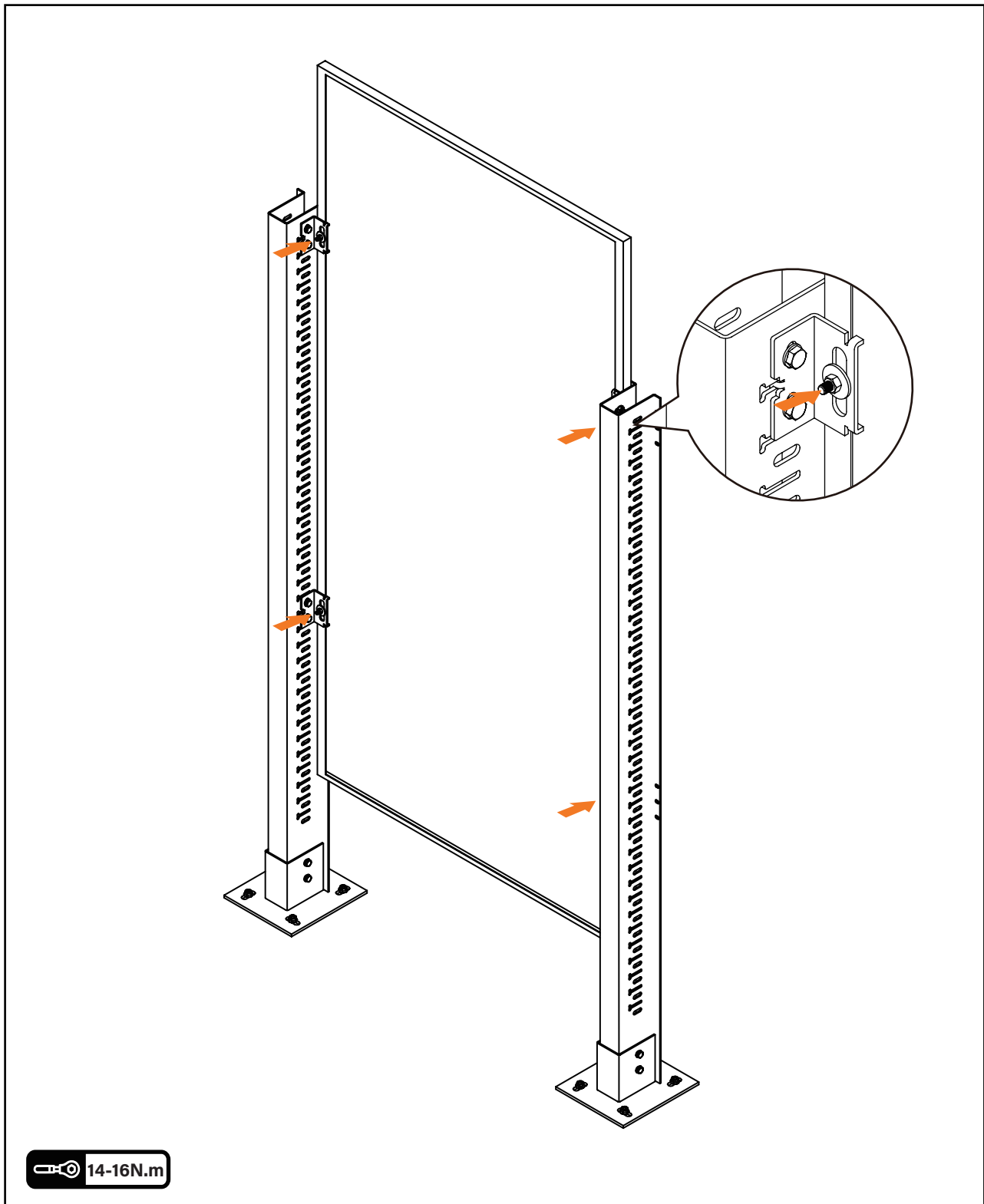
**STEP 1**

Place the module between the posts and attach it by hooking the brackets onto the posts slots. Adjust the module to the desired height via the slots.

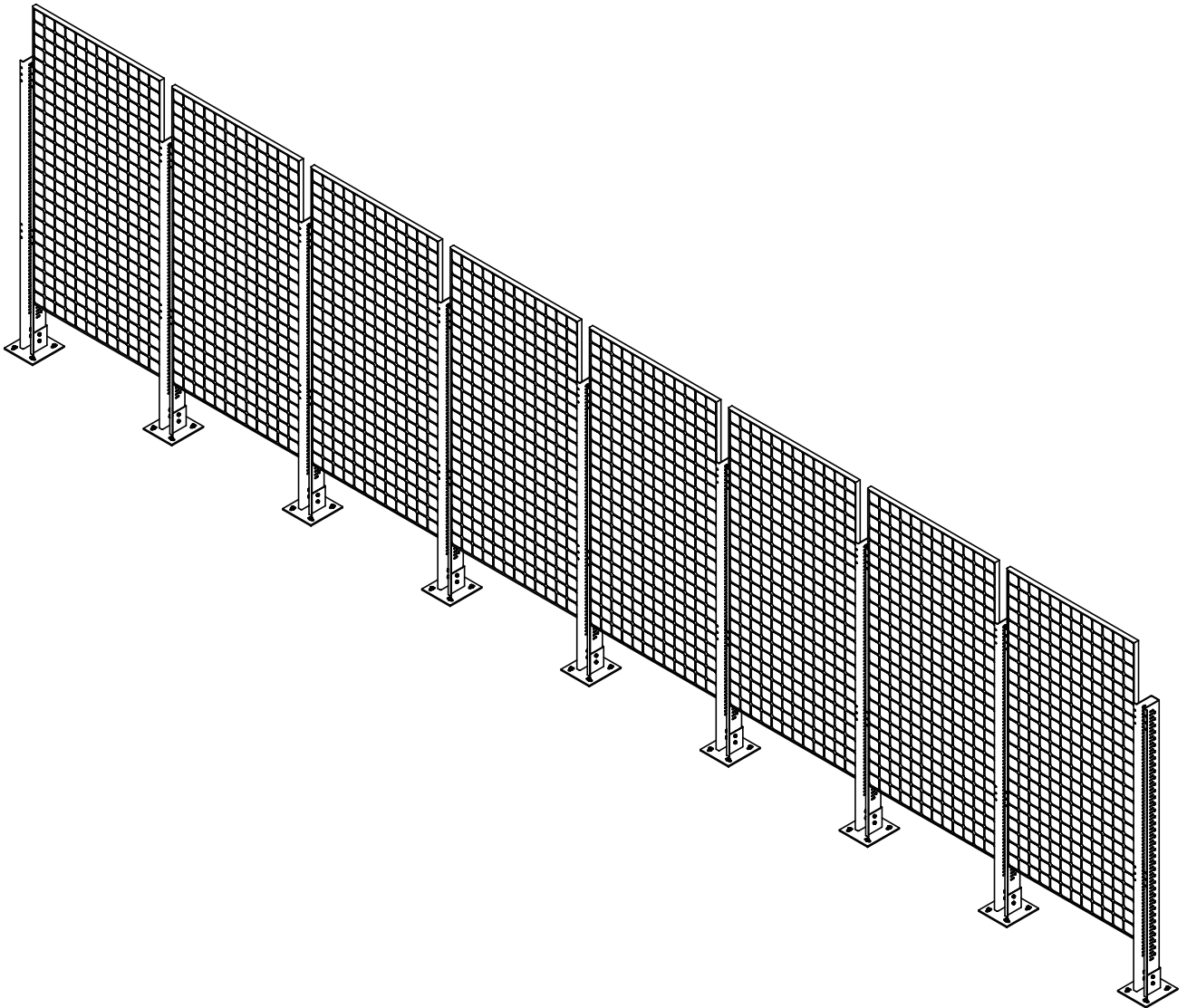
STEP 2

Once the desired height is achieved, secure the assembly using the bolts and nuts, then tighten to the specified torque (25-28 N.m)

FIXING THE SOLAR MODULES

**STEP 1**

Ensure the Panel is leveled, then tighten the remaining bolt to the specified torque (14-16 N.m)

SOLAR FENCE INSTALLATION COMPLETED

7. NOTE

Date: _____

Name/Company: _____

Job No: _____ Phone: _____

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NOVA

