BLB-N TYPE

MACHINE SAFETY FENCE

USER MANUAL

AND

INSTALLATION TECHNIQUES

CONTENTS

1. PRODUCT INFORMATION

1.1 ÜR PRODUCT DESCRIPTION

BLB-N Type Machine Safety Fencing Systems are safety systems in which the posts are fixed to the floor at specified intervals using N-Type base plates manufactured to compensate for floor level differences. These systems are installed along boundaries determined in accordance with the safety distance values defined in ISO 13857 and are designed to achieve the height requirements specified by the same standard. Framed type safety panels are mounted between the posts using BLB Connection Clamps.

Creating a physical safety perimeter around machinery to restrict personnel access and thereby enhance operational safety constitutes one of the primary purposes of use.

ATTENTION: The product should not be used in conditions and areas that are not suitable for its intended purpose

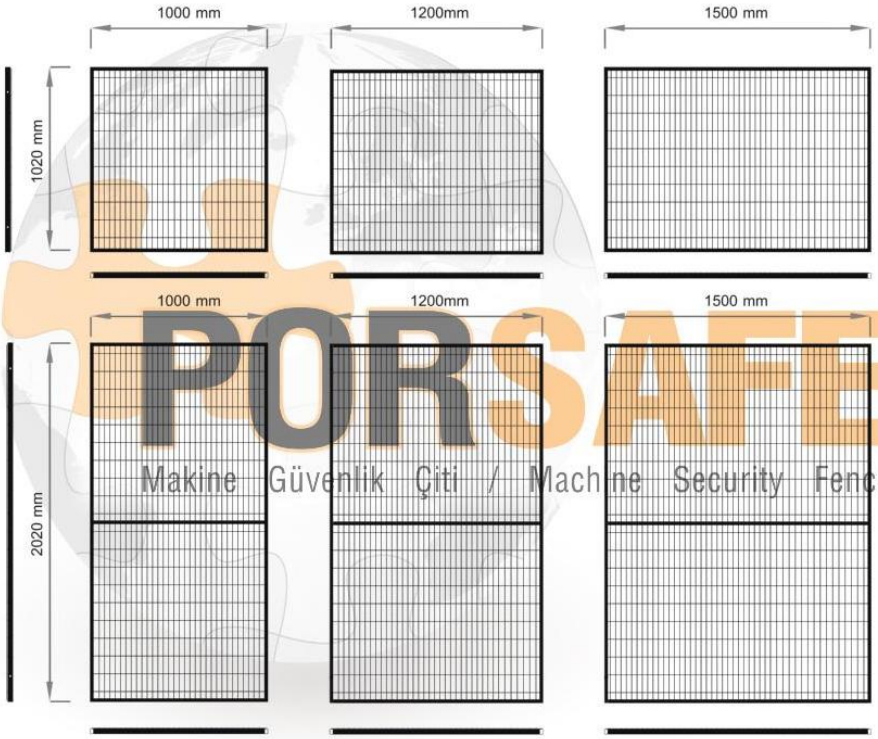
1.2 APPLICATION AREAS

It is one of the complementary elements of safety systems that define boundaries and ensure perimeter security. It is a physical security solution used to safeguard specially designated areas—such as those containing specialized machinery or hazardous materials within large operational facilities—by enclosing the defined zone.

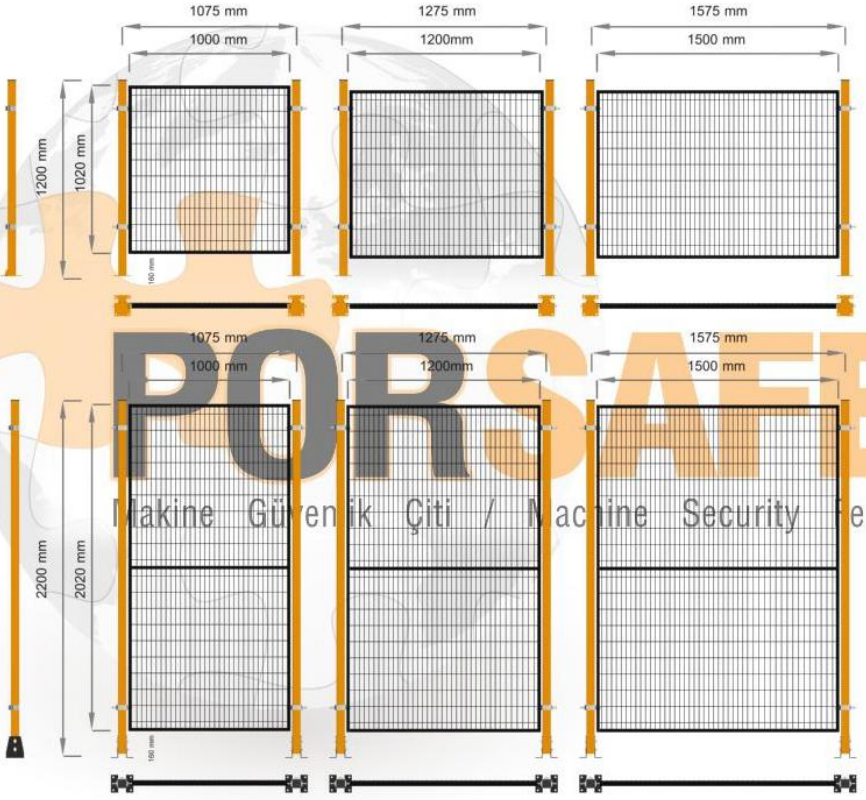
Machine safety fencing systems are specifically used in areas where there is a risk to human access, such as automatic or semi-automatic machinery and automation systems involving hazardous mechanical movements, robotic cells, and cells with extremely high or low process temperatures. Their purpose is to restrict personnel access and thereby enhance operational safety.

1.3 STANDARD DIMENSIONS

PANEL/BOARD DIMENSIONS



SYSTEM DIMENSIONS



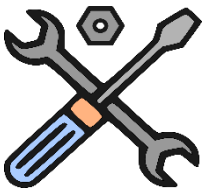
2. ASSEMBLY-DISASSEMBLY-TRANSPORTATION

2.1 BEFORE STARTING WORK

- **Wear personal protective equipment (**hard hat, steel-toed boots, gloves, goggles, etc.).

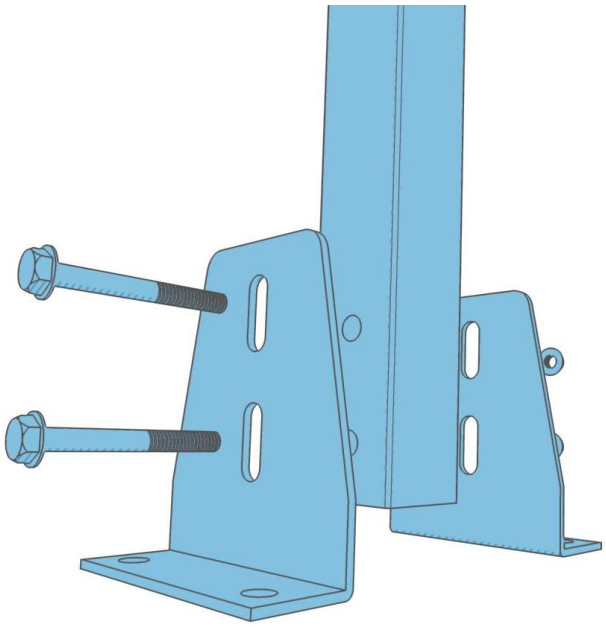
- **Take measures to prevent entry and exit from the work area..**

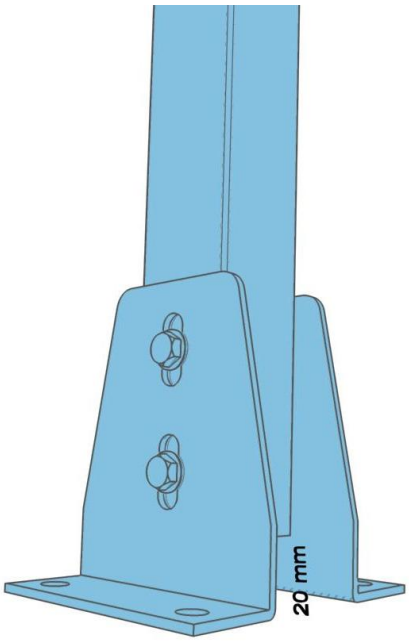
- **Use only suitable equipment and tools.**



2.2 ASSEMBLY

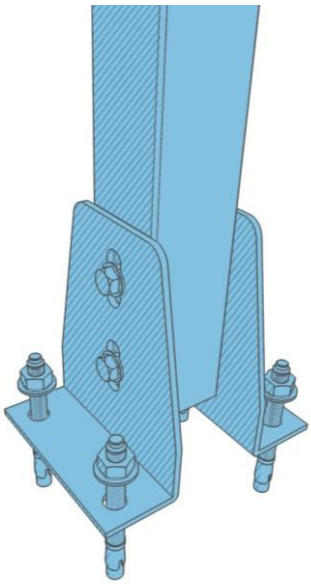
1. The base plates are positioned appropriately and mounted to the post using two M10 × 70 mm bolts. A 20 mm clearance between the floor and the post shall be maintained.

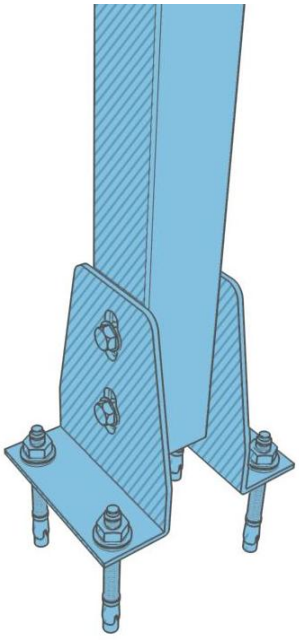


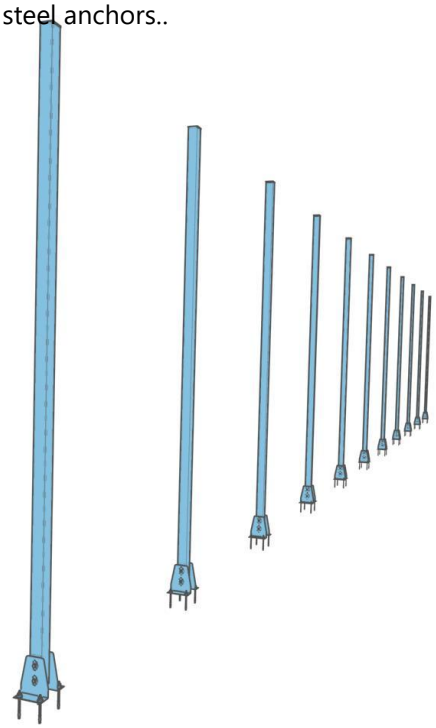


2. In accordance with the installation layout, the posts with pre-mounted base plates are positioned at their designated locations. Four holes are drilled into the floor for steel anchors using a drill. During the drilling operation, the dimensions specified in the setting-out (application) plan shall be strictly observed.

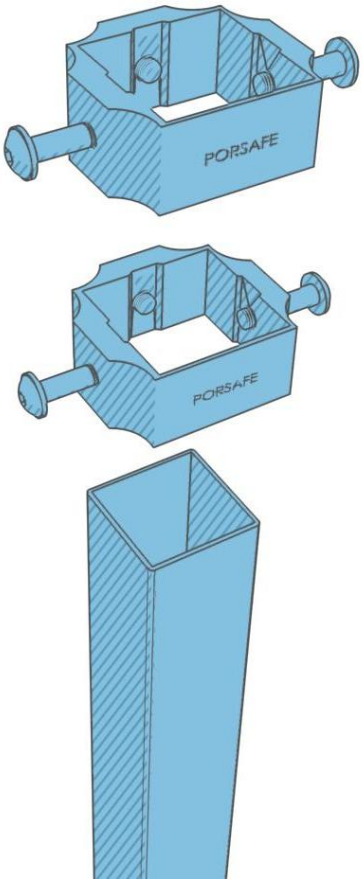
3. The posts with base plates are fixed to the floor using four M10 × 90 steel anchors..

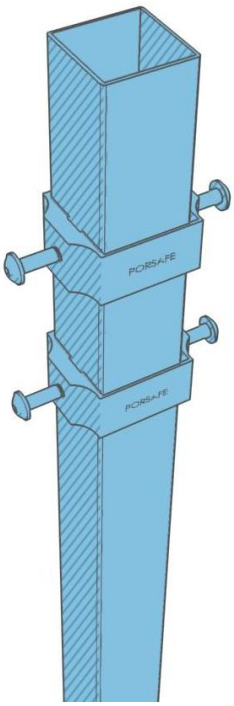




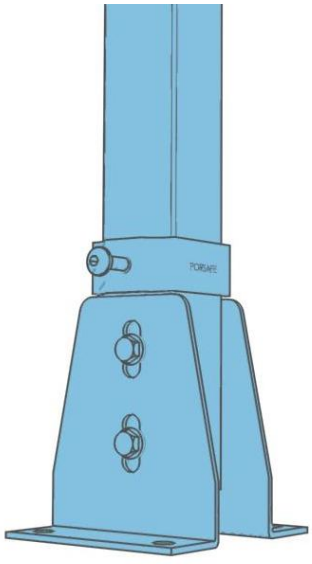


4. Two BLB clamps are inserted from the top of the profile posts, with the adjustment bolts facing the inner side of the fence, and are temporarily secured in position.

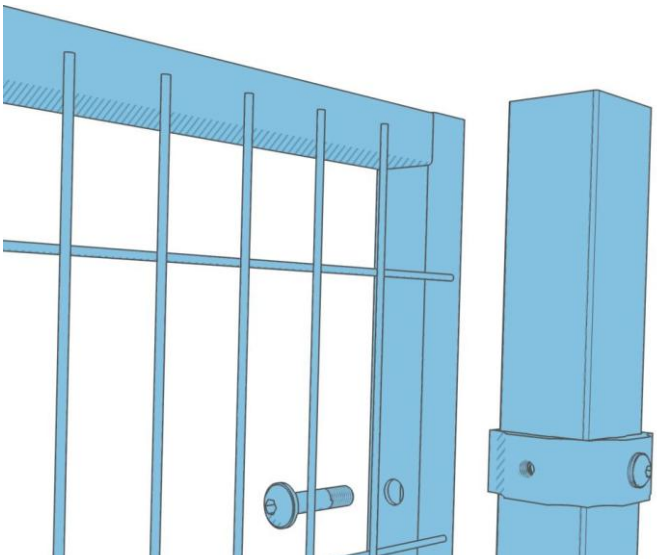


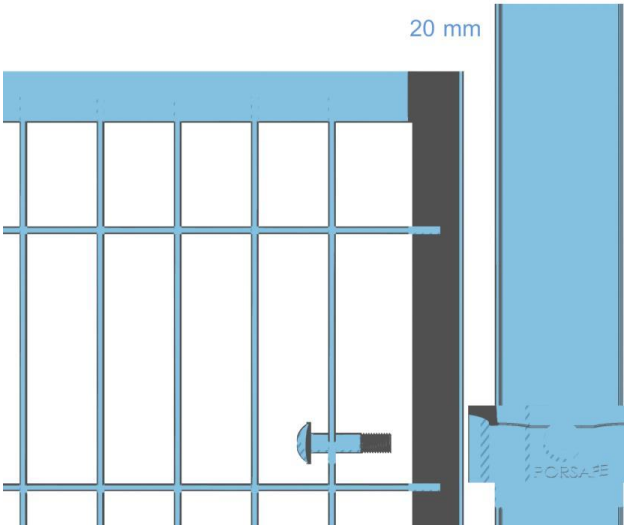


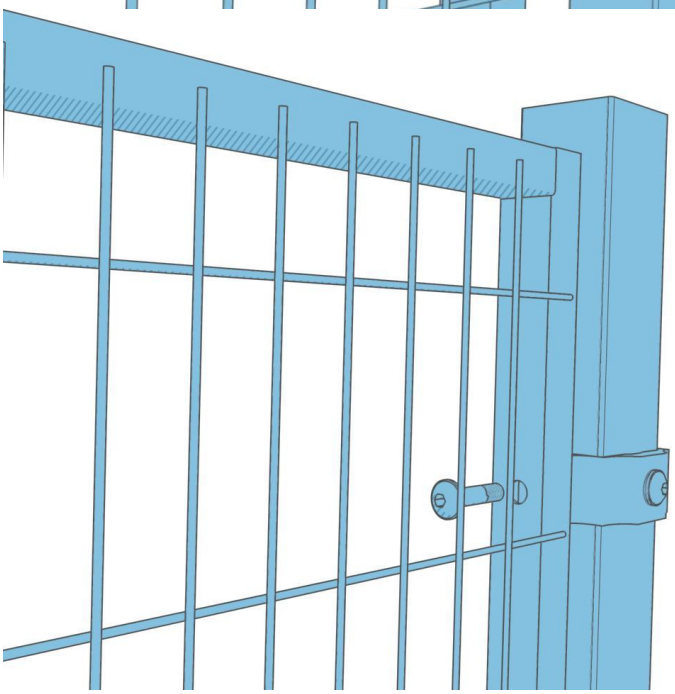
5. The upper clamp is temporarily fixed approximately 100 mm below the top of the post. The lower clamp is lowered fully down to the base plate and temporarily positioned at that level.

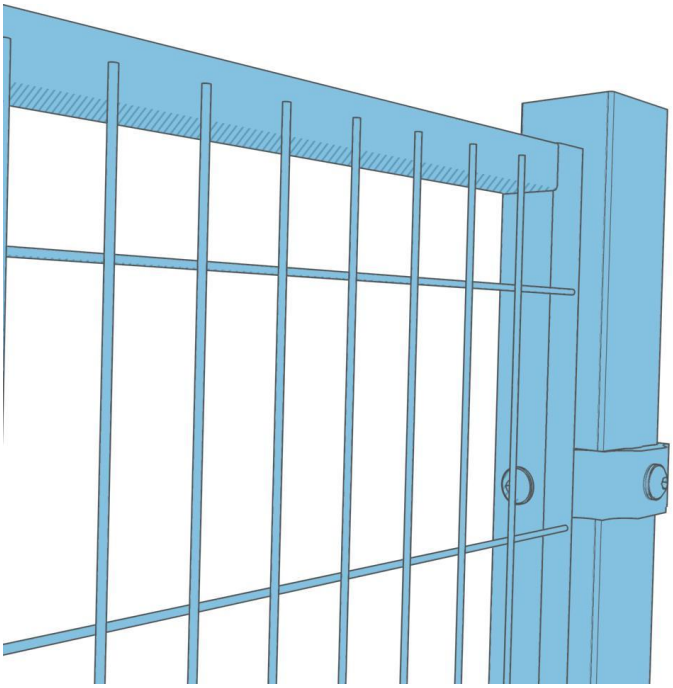


6. The safety panel is positioned onto the posts by means of a temporary spacer block placed underneath, ensuring that the top of the panel remains 20 mm below the top of the post. The upper clamp is then adjusted to the appropriate position using its adjustment screw and secured. The panel is fixed to the clamp using an M8 × 30 mm bolt.

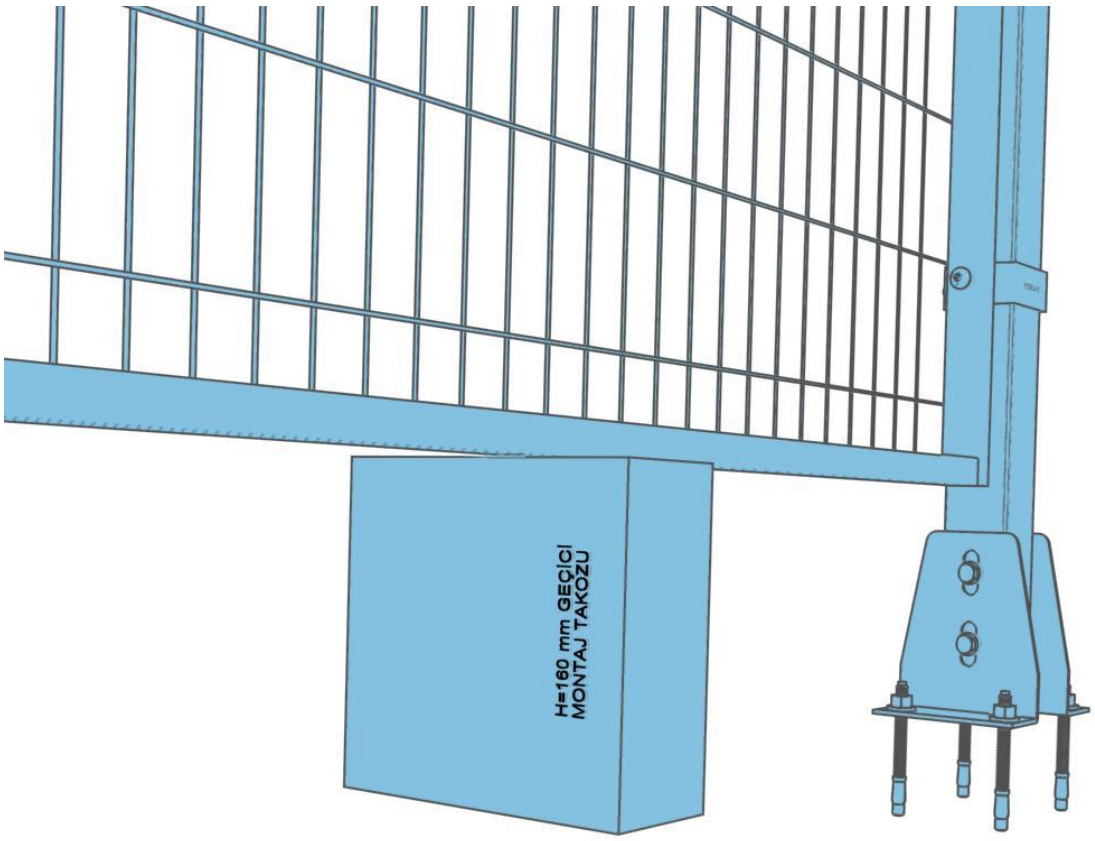




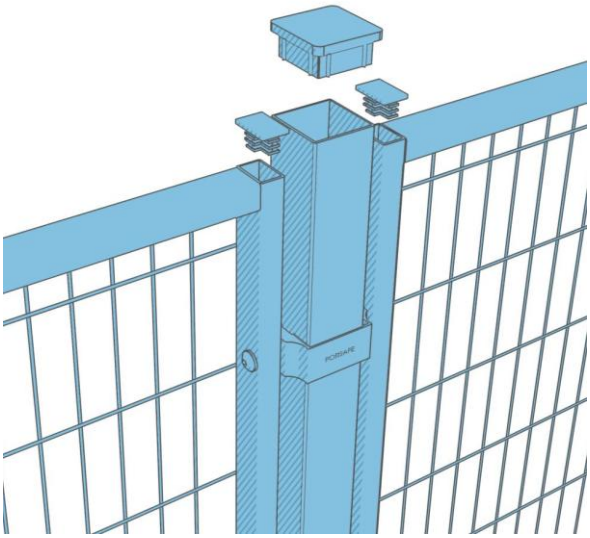


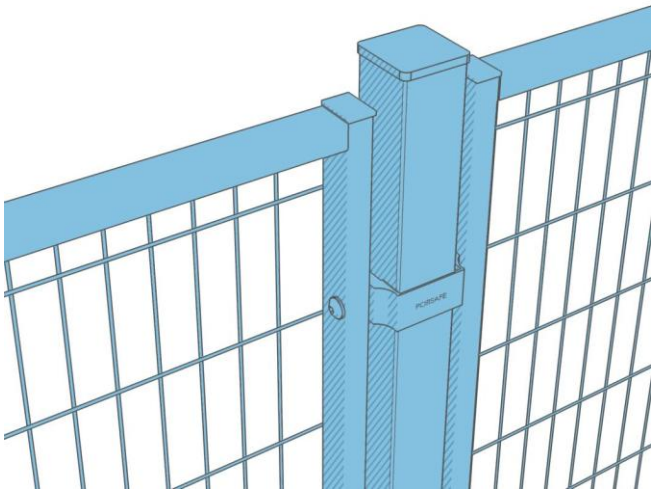


7. The same procedure carried out for the upper clamp is repeated for the lower clamp.

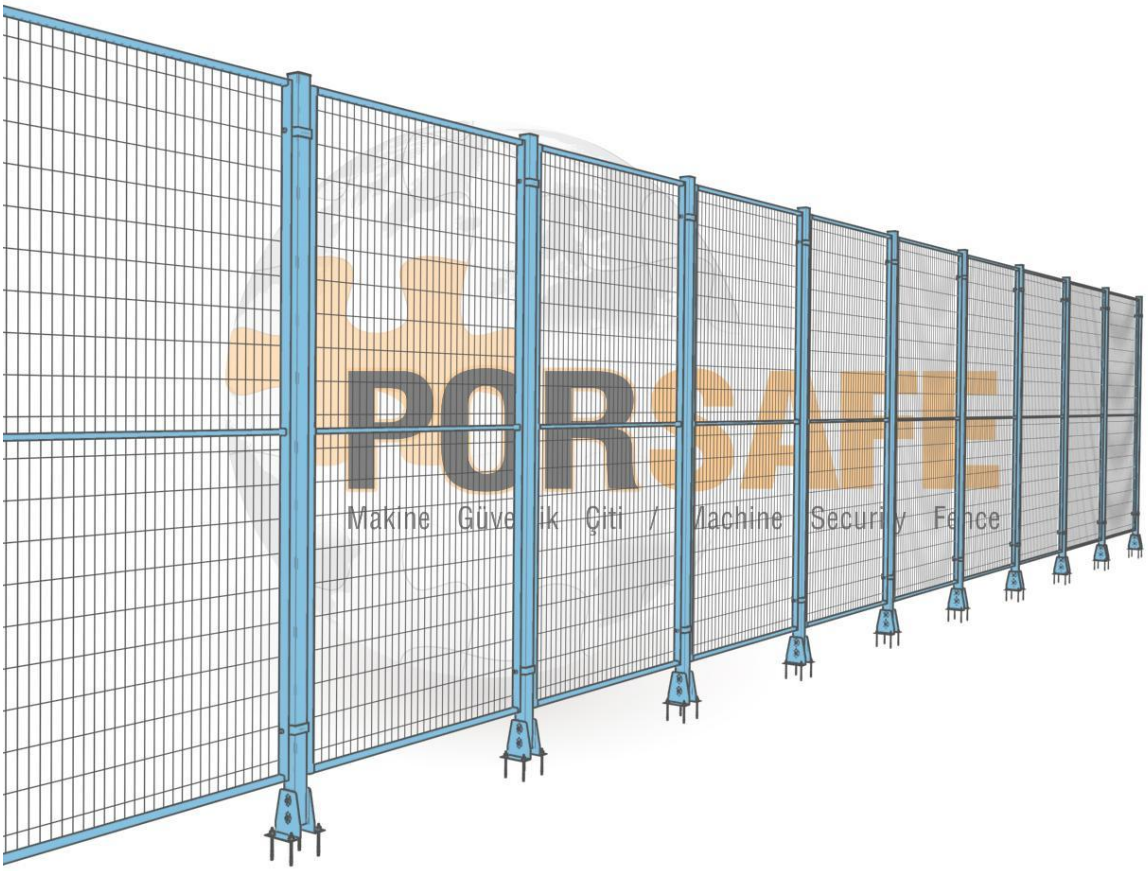


8. The installation is completed by mounting the top caps of the posts and panels.





9. The same procedures are repeated for all posts and panels.



8. Final inspections are carried out visually and by manual check. The equipment is then removed from the site, and the installation is completed

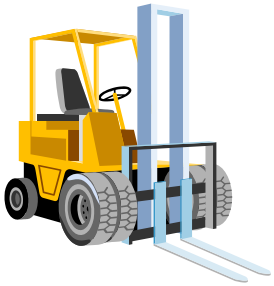
2.3 DISMANTLING

1. The dismantling process is carried out in accordance with the above items, starting from the end and working backwards.

2. The dismantled materials are grouped according to their class and stacked on top of each other or placed side by side on pallets according to the structure of the material, thus creating suitable conditions for transport.

2.4 TRANSPORT

1. The transport operation shall be carried out using a forklift, pallet truck, or by manual labour, taking into account the existing conditions and possibilities.Taşıma esnasında malzemelerdeki sivri edges and similar elements must be covered with protective materials.



2. Measures should be taken against hazards such as slipping and tipping in materials transported in stacks.

3. OPERATION AND USE

As the name suggests, the safety system is an access-restricting structure designed to ensure personnel and machine safety within the area it encloses.

Appropriate warning signs and symbols relevant to the intended use must be present, and personnel must operate in accordance with these warnings.

Personnel who are required to enter and work within this system must be qualified and authorized to access the area.

Doors must be used properly, and there must be no obstacles or hazardous elements within their opening range.

The responsibility for complying with the above conditions and implementing any additional safety measures rests with the user.

4. MAINTENANCE

- This is carried out by manually and visually inspecting the condition of the hinge connections and floor connections at regular intervals.
- •Maintenance is necessary to ensure the functionality of the protective structure and its continued use.
- Maintenance must be carried out every three months, except in exceptional circumstances.

5. SECURITY

- The involvement of authorised personnel during the installation, dismantling, and transportation of the protective structure is a primary requirement.
- The protective system section should be well lit, and warning signs should be displayed and authorised personnel should be informed according to the characteristics of the area separated by the protective structure.
- Warning signs should be placed around the protective system to prevent damage caused by forklifts, cranes, or other load-handling equipment colliding with it. Operators and other personnel working near the system should be warned and informed.

6. IMPORTANT NOTICES

• The product must not be used in conditions or areas for which it is not intended.
• When used for safety purposes in areas where hazardous machinery operates, measures compliant with ISO 14120 and ISO 12100 standards must be implemented.
• Locking mechanisms or start/stop functional equipment not included in our products but required for the application must be implemented in accordance with ISO 12100 standard requirements.
• In environments with hazardous levels of static electricity or where there is a risk of electrical leakage from electrically powered equipment or machinery, the requirements of ISO 12100 must be strictly fulfilled.
• The product layout plan within the working area and the determination of safety distances must be carried out in accordance with ISO 13857 standard requirements.
• Use appropriate warning signs and labels related to the application.
• When access to the hazard zone is required while machines and equipment within the protected area are in operation, measures compliant with ISO 12100 standard requirements must be applied.
• Appropriate warnings and preventive measures must be implemented to prevent unauthorized personnel from entering, exiting, or interfering with the protected area.