BLB TYPE
MACHINE SAFETY FENCE

USER MANUAL

AND

INSTALLATION TECHNIQUES

CONTENTS

1. PRODUCT INFORMATION

1.1 PRODUCT DESCRIPTION

BLB SYSTEM Machine Safety Fences are safety systems in which the posts are fixed to the ground at defined intervals and framed-type safety panels are mounted between the posts using BLB Type Clamps. These systems are installed along boundaries determined according to the safety distance values specified in the ISO 13857 standard and are designed to meet the height requirements indicated by the same standard.

Their primary purpose is to enhance safety by creating a physical safety barrier around machinery, thereby restricting personnel access to hazardous areas.

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

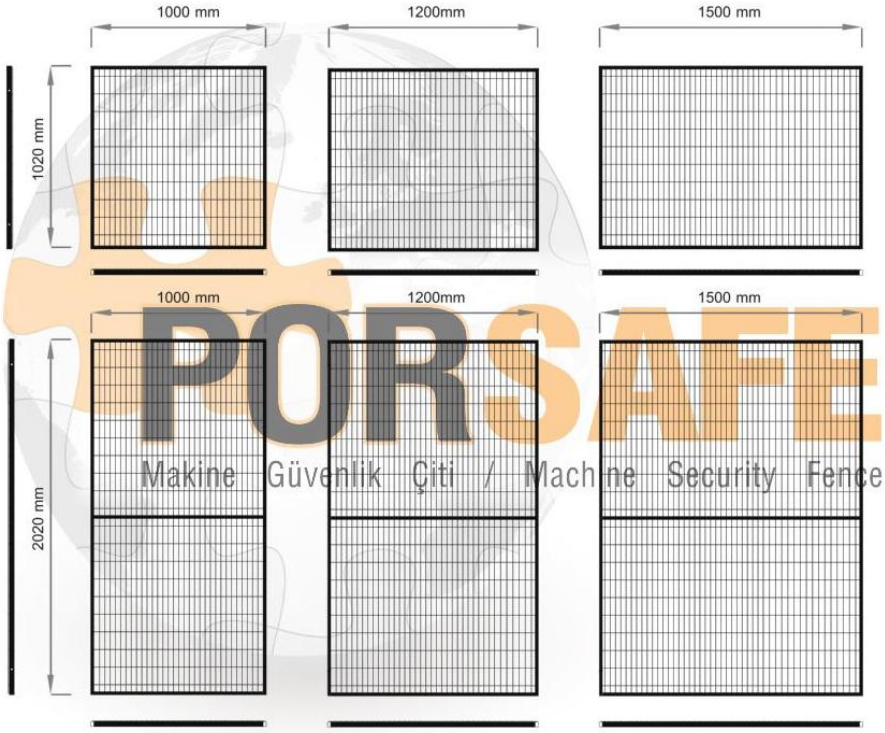
1.2 APPLICATION AREAS

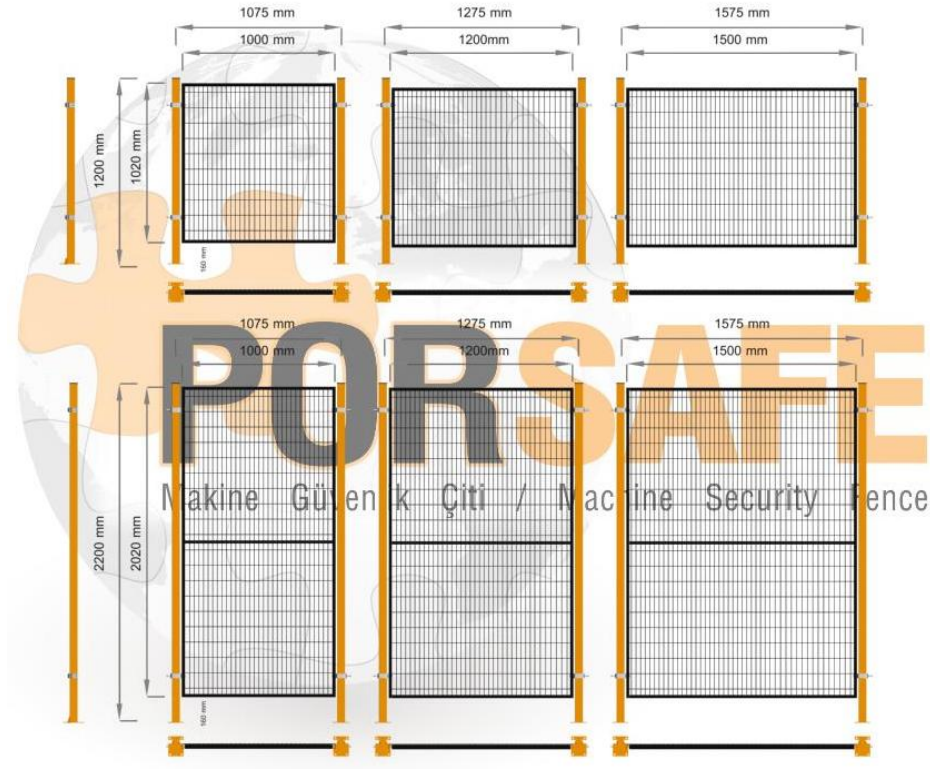
Boundary-defining systems are complementary elements of safety solutions that ensure perimeter security. They are physical safety components used to secure designated areas by enclosing their boundaries, particularly for the protection of specialized machinery or sensitive materials located within large operational facilities.

Machine safety fence systems are used to enhance safety by restricting personnel access in areas where equipment may pose a hazard to human interaction. These include automatic or semi-automatic machinery and automation systems with dangerous mechanical movements, robot cells, and process areas involving extremely high or low temperatures, as well as any other equipment that may present a risk to personnel safety.

1.3 STANDARD DIMENSIONS

PANEL/BOARD DIMENSIONS





SYSTEM DIMENSIONS

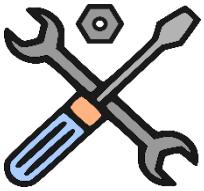
2. ASSEMBLY-DISASSEMBLY-TRANSPORTATION

2.1 BEFORE STARTING WORK

• Use personal protective equipment (PPE) such as a safety helmet, steel-toe shoes, gloves, and safety glasses.

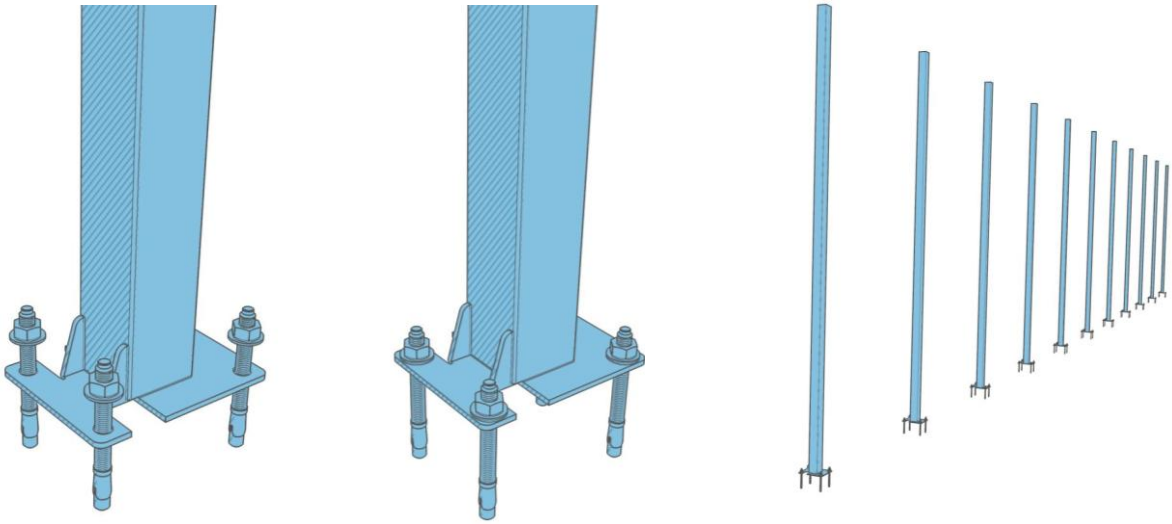
• Take measures to prevent entry and exit from the work area.

• Use only suitable equipment and tools.

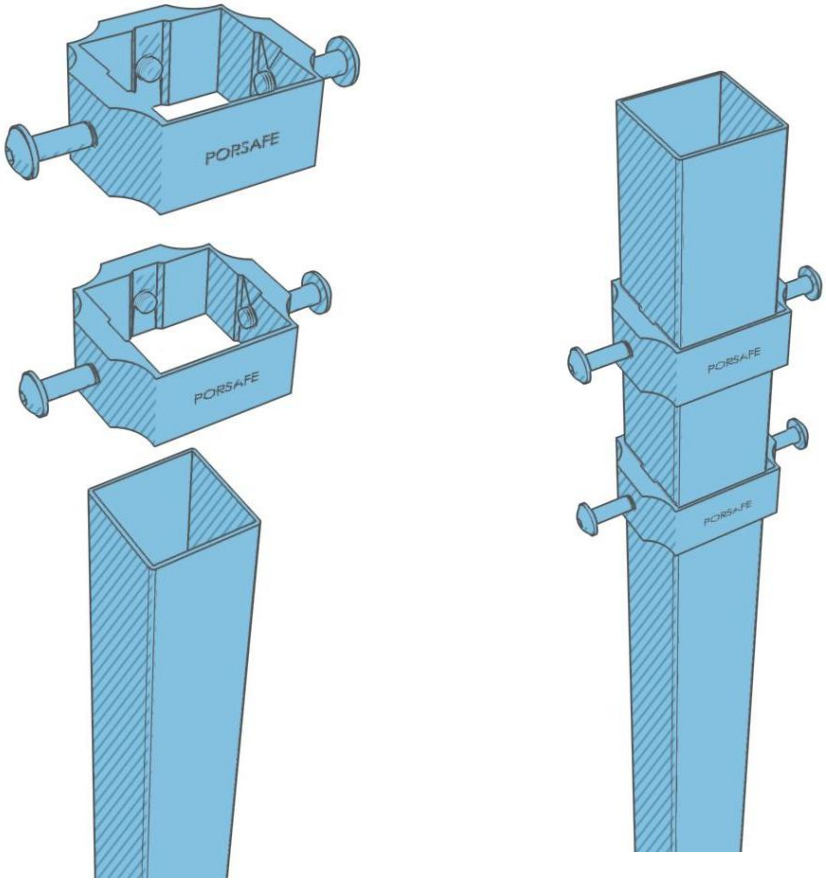


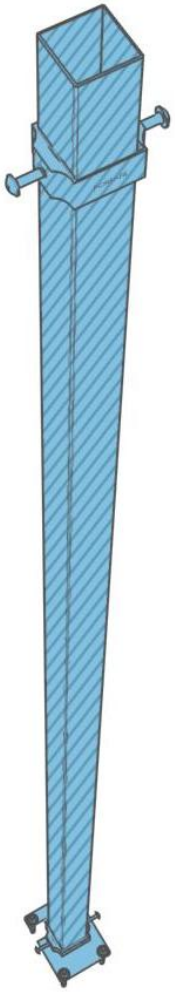
2.2 ASSEMBLY

1. 1. According to the assembly plan, the poles are moved to the appropriate position, and four holes are drilled into the ground for each pole using a drill.
2. The post is fixed to the ground using 4 M10*90 steel dowels and levelled.

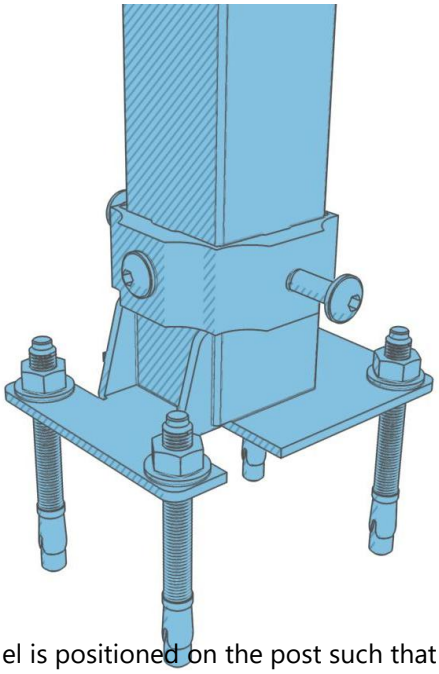


3. Profil direklerin tepe kısmından 2 adet BLB kelepçe, ayar cıvatası çitin iç kısmına bakacak şekilde geçirilir ve geçici olarak sabitlenir.

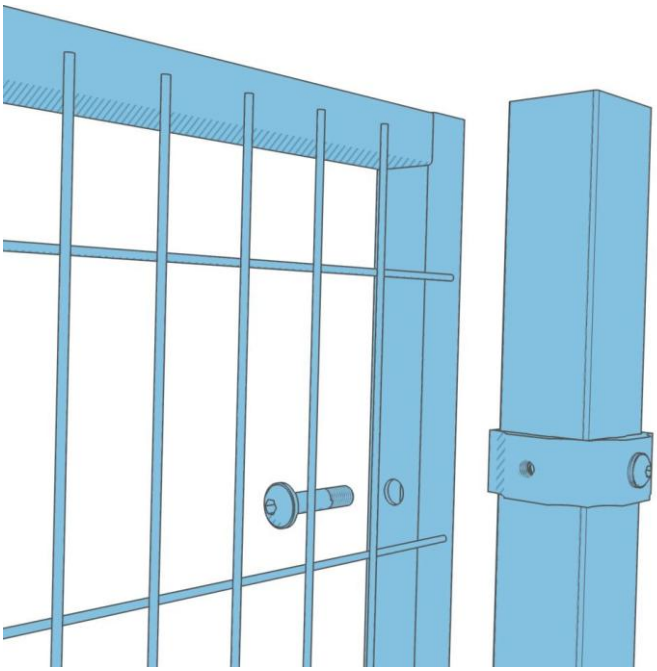


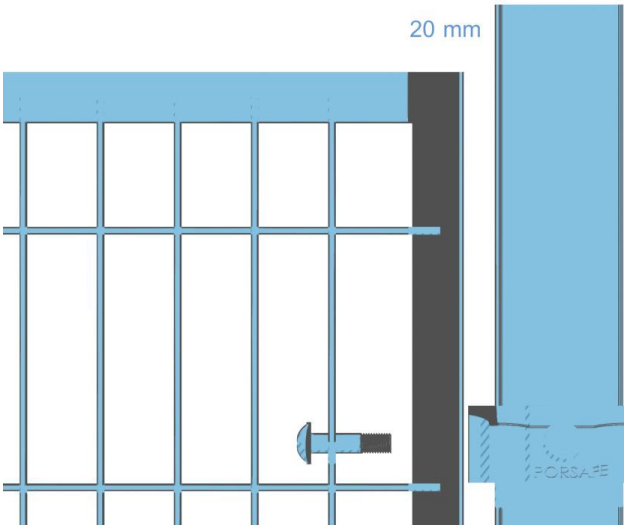


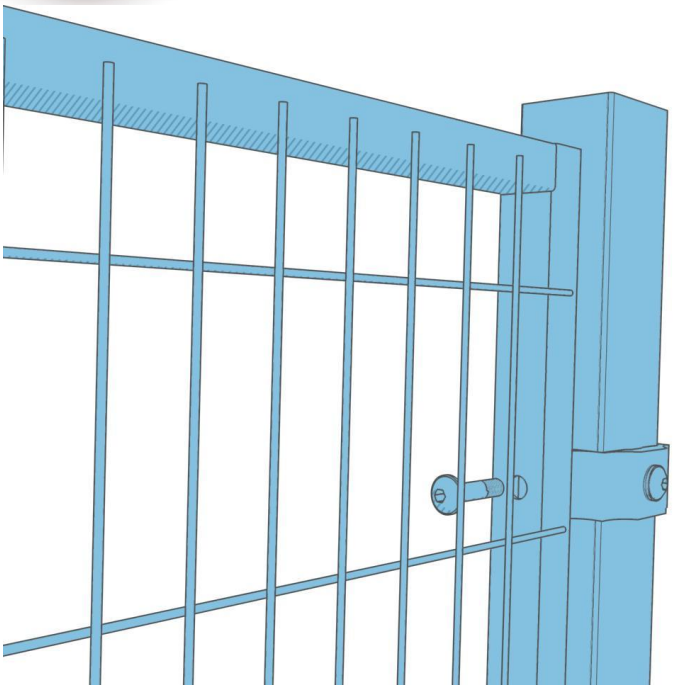
4. The upper clamp is temporarily fixed approximately 100 mm below the top of the post, and the lower clamp is lowered completely down to the flange.

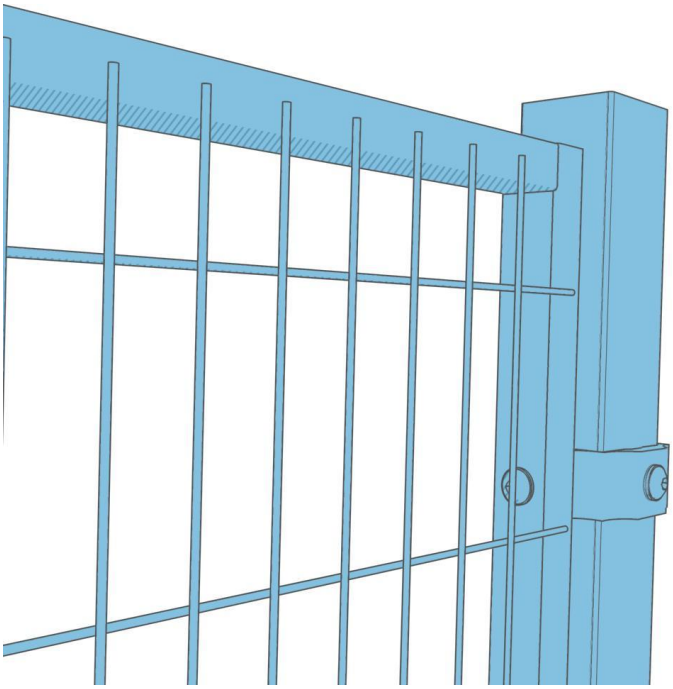


4. The safety panel is positioned on the post such that its top remains 20 mm below the post using a temporary spacer block placed at the bottom. It is then slid into the correct position using the top clamp adjustment screw and secured. The panel is fixed to the clamp using an M8/30 mm bolt.

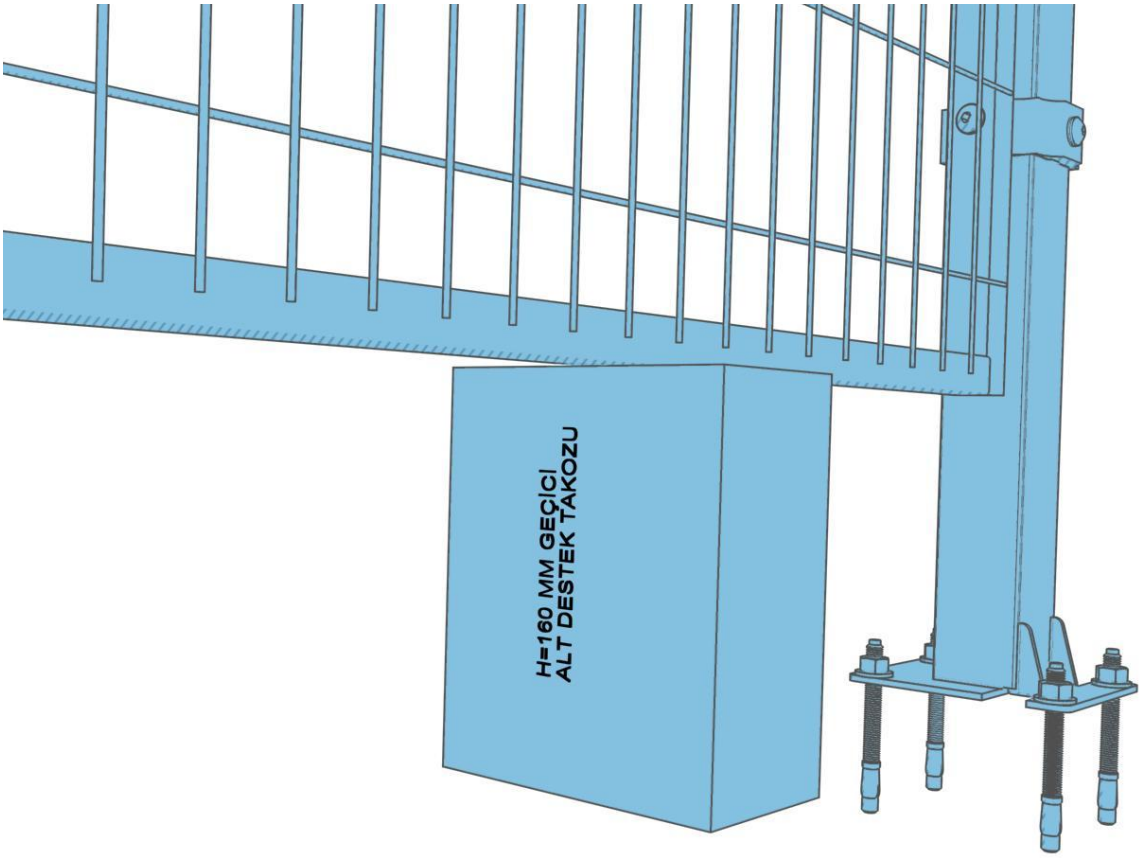




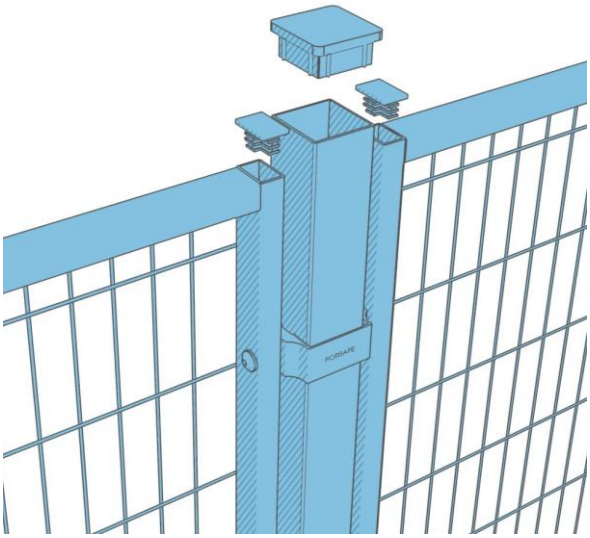


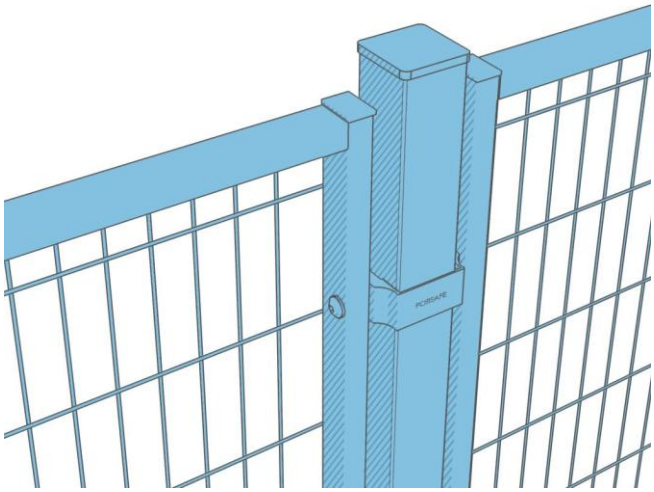


4. The process described above is repeated for the lower clamp.

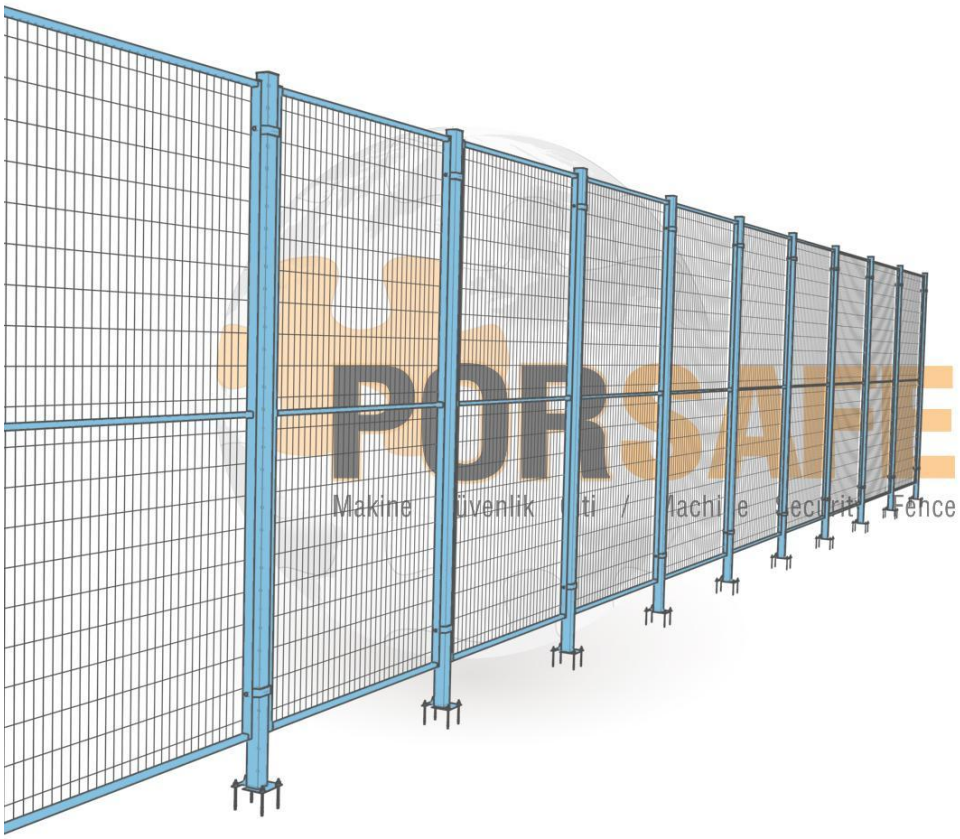


4. The installation is completed by fitting the pole and panel top covers





4. Final checks are carried out visually and by touch, and the equipment is removed from the site to complete the installation.



2.3 DISMANTLING

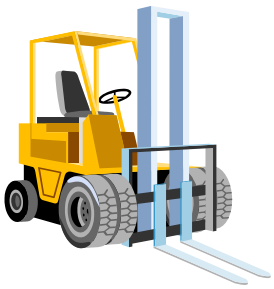
1. The dismantling process is carried out in accordance with the above items, starting from the end and working backwards.

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.