High-Security 358 Mesh Panel Fence System

Our High-Security Mesh Fencing System is specifically designed for applications that require robust protection while blending seamlessly into the surrounding environment. This fencing system provides superior security features, including anti-climb mesh panels and a variety of post options for enhanced strength and durability. The system is ideal for both public and private properties requiring high levels of safety and discretion.

Key Features

- **Vandal Resistance:** The system's finger-proof mesh (12.7 x 76.2 mm) combined with a 4mm wire diameter creates an effective barrier that is highly resistant to climbing and tampering. Cutting through the mesh with conventional tools is virtually impossible.
- **Security & Discretion:** The fencing system offers high-security performance while minimizing its visual impact, making it suitable for locations where aesthetic considerations are important.
- **Effective Deterrence:** With available heights of up to 6 meters, the fence serves as a strong deterrent against intrusion. It is also compatible with electronic alarm and detection systems for enhanced security.
- **Durability:** The high-quality coating ensures low maintenance and a long lifespan, even in harsh environmental conditions.
- **Complete System:** The system includes the fencing panels, three post options, matching gates, and the ability to install on sloped terrain for complete flexibility.

System Components

A. Posts and Fixing Systems

We offer three different post options, each designed to enhance the security and stability of the fencing system:

Rectangular Post System

- o **Dimensions:** 80 x 60 x 2.5 mm or 120 x 60 x 3.0 mm (depending on post length).
- o **Features:** A single row of M8 threaded inserts for securing the panels. Panels are fixed using specific fixators or full-length cover plates and one-way bolts.

Steel Fence Post System

- o **Design:** Welded tubular posts (70 x 44 mm) in an H-shape with punched holes for panel positioning.
- o **Fixing Mechanism:** Lateral panel fixing with special metal security clips and bolts. Panels are attached with spider fixators and one-way bolts. Posts are finished with a plastic cap.

Steel Post System

- o **Dimensions:** 140 x 135 x 4 mm post profile.
- o **Features:** A double row of 10 x 20 mm holes for panel fixing. Panels are secured with a continuous cover plate and stainless steel security bolts. The post profile allows for electrical or fiber optic cabling, which is closed with a metal cap.

Additional Reinforcement:

All posts can be reinforced with a U-profile at the top of the panels. This reinforcement is available in steel (bolted) or aluminum (applicable) for added stability and security.

B. Panels

- **Dimensions:** Standard panels are 2500 mm wide, and multiple panels can be stacked vertically to achieve the desired height. One-piece panels are also available up to 6 meters in height.
- **Mesh Specifications:** The mesh has an aperture of 12.7 x 76.2 mm (H x W) and a wire diameter of 4 mm, offering maximum security and resistance to unauthorized access.
- **Weld Strength:** The weld strength is 50% of the minimum tensile strength of the wire, ensuring durability and stability under pressure.
- **Security Performance:** Independent tests conducted by specialized police departments have demonstrated that the system provides a delay factor 40 times greater than standard fence products. It also complies with European security standards.

C. Gates

Matching gates are available in both single and double configurations, with options for swing or sliding gates. All gates are equipped with the same high-security mesh infill as the fencing, ensuring uniform protection across the entire perimeter.

Coating and Colors

- **Coating Technique:** Panels are made from galvanized wires with an adhesion coating for optimal bonding with the polyester coating, ensuring a minimum thickness of 100 microns. For enhanced protection, Zinc coated (95% zinc, 5% aluminum) or standard galvanized coatings are available.
- **Standard Color:** Green RAL 6005. Other RAL colors and Zincalu Super finishes are available upon request.

Enhanced Security Option

Double Skin Panels
For applications requiring even greater security, we offer double skin panels. These panels are created by welding two mesh panels together at a 90° angle, providing an additional layer of protection and significantly increasing the delay factor.