

# SHIELDING SERIES 101 RADIO FREQUENCY SHIELDED ENCLOSURE



## SERIES 101

- **System Consists of Modular, Hot Galvanized Rigid Steel Structural Panels (No Wooden Parts are Added or Used)**
- **Panels Bolted from the Inside or the Outside, Depending on the Purpose and Requirements**
- **No Special Tools or Welding Necessary**
- **Rooms Easily Dismantled and Reinstalled, Enlarged or Modified**

**ETS-Lindgren's Series 101 Radio Frequency Shielded Enclosure** delivers unparalleled performance, exceeding all RF shielding requirements with precision and reliability. Engineered with a modular design, this innovative system offers unmatched flexibility, making it ideal for evolving needs. The system can be easily dismantled, reinstalled, expanded, or modified with minimal effort, thanks to its advanced panel configuration. Only the gaskets and fasteners need replacement during reinstallation, ensuring cost-effective adaptability.

The Series 101 system requires no special tools or welding for installation, streamlining the process and reducing setup time. Once installed, it is maintenance-free, offering peace of mind and long-term reliability. Designed to meet the highest industry standards, the Series 101 RF Shielded Construction System is the ultimate solution for applications requiring robust RF shielding with the versatility to accommodate future changes.

With its superior shielding performance, ease of installation, and zero-maintenance design, the Series 101 system is the gold standard for RF shielding applications, providing a sustainable and future-ready solution for your facility.

### Product Features

#### Modular Design

ETS-Lindgren's Series 101 RF Shielded Construction System features a highly versatile modular structure, enabling flexible customization to meet the specific needs and requirements of any site. The size and shape of the shielded room can be tailored to fit site-specific conditions without being constrained by standard dimensions. The standardized modular design supports maximum flexibility while leveraging automated manufacturing technology for cost-effective production of high-quality panels.

The system accommodates multiple material options, including hot galvanized steel and aluminum, ensuring the ideal solution for a variety of applications. By utilizing the same advanced manufacturing technology across materials, the Series 101 offers a competitive price-to-quality ratio and the ability to customize shielding solutions for diverse customer requirements.

#### Streamlined Installation

The innovative panel system ensures reliable, high-performance shielding with the use of a special gasket for secure joints. This design minimizes the number of fasteners needed, reducing assembly time without compromising shielding integrity. Depending on the application, panels can be bolted from the inside or outside, offering flexibility in meeting project requirements.

For enclosures installed from the inside (flat side out), the design allows assembly within just 5 cm (2 in) of existing walls, eliminating the need for extensive support structures. The panel bends (flanges) also facilitate the attachment of inner linings or absorber rails as required.

When the enclosure is installed from the outside (flat side in), it provides a flat interior surface ideal for applications such as partial discharge/high voltage testing halls or installations requiring ferrites or absorbers to be directly affixed to the walls and ceiling. This configuration avoids penetration of the shielding by support structures, preserving performance. The recommended space for exterior bolted installations is approximately 800 mm (31.5 in) around the entire enclosure, including above the roof.

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## Superior Performance

The Series 101 system boasts seamless corner joints that match the reliability and attenuation performance of the intermediate joints, ensuring consistent shielding effectiveness throughout the enclosure. No additional supports or special construction are necessary for corners, making them as robust as the rest of the structure.

Every detail of the Series 101 enclosure has been meticulously engineered to provide maximum protection against electromagnetic interference, forming an integrated system that ensures uncompromised shielding performance for the most demanding applications.

## Technical Specifications

### Performance

Magnetic	40 dB @ 1 kHz; 80 dB @ 10 kHz; 120 dB @ 5 MHz to 30 MHz
Electric	120 dB @ 1 kHz to 30 MHz
Planewave	120 dB @ 30 MHz to 1 GHz
Microwave	120 dB @ 1 to 40 GHz

## Series 101 Shielding Effectiveness

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