

## SHIELDING WELDED SHIELDED ENCLOSURES



### WELDED SHIELDED ENCLOSURES

- Single Layer High Grade Steel Material
- Welded Seams Unaffected by Corrosion, Oxidation, and Mechanical Expansion
- 30 Hz to 100 GHz and Above
- MIL-STD 188-125, NSA 73-2A, NSA 65-6/NSA 94-106, CID 09.12

**ETS-Lindgren's Welded Shielded Enclosure** deliver unmatched shielding performance, combining welded fabrication with comprehensive, full-service capabilities. From initial consultation and design to engineering, fabrication, installation, and final testing certification, we ensure maximum shielding effectiveness for years of reliable service.

Ideal for the most demanding RF shielding applications, such as automotive testing complexes, large computer facilities, EMP testing sites, 3m to 10m EMC chambers, and metrology complexes, our welded enclosures offer superior shielding reliability. Designed to provide exceptional performance across a broader frequency range, they meet the stringent requirements of high-performance environments.

With ETS-Lindgren's welded enclosures, you can count on industry-leading expertise and precision-engineered solutions tailored to deliver the ultimate protection and performance for even the most challenging applications.

### Product Features

#### Exceptional Single Shield Design

ETS-Lindgren's all-welded shielded rooms are engineered for the highest level of shielding performance. These enclosures typically utilize a single layer of high-grade hot-rolled steel sheet material, with carefully sized panels to minimize seam footage. Steel thickness varies from 1.905 mm (0.075 in) to 12.7 mm (0.50 in), depending on application requirements, ensuring robust and reliable protection.

#### Sturdy Structural Framework

The freestanding structural framework of the welded shielded rooms adheres to the Uniform Building Code (UBC) and the latest standards set by the American Institute of Steel Construction (AISC). This ensures long-term durability and stability for a wide range of applications.

#### Seamless RF Integrity

Unlike mechanical seams that can compromise performance due to corrosion, oxidation, or expansion caused by environmental changes, ETS-Lindgren's all-welded room design eliminates these concerns. The welded seams provide unmatched RF seam and joint integrity, ensuring maintenance-free shielding that stands the test of time.

#### High RF Attenuation Performance

ETS-Lindgren's all-welded shielding concept sets the benchmark for high-performance RF attenuation. Exceeding government and industry standards, including MIL-STD 188-125, NSA 73-2A, NSA 65-6/NSA 94-106, and CID 09.12, these enclosures deliver reliable performance from 30 Hz to 100 GHz and beyond. With maintenance-free longevity and exceptional shielding capability, this design is ideal for the most demanding commercial and military applications.

#### Portable All-Welded Buildings

For added versatility, smaller all-welded shielded rooms can be configured with rollers, lifting hooks, or base platforms for easy transport via truck, helicopter, air, or forklift. This portability allows the shielded environment to be relocated as needed, making it a cost-effective solution for various military and commercial needs.

#### Customizable Sizes for Portability

Portable all-welded rooms are available in sizes up to 3.05 m W x 3.05 m H x 12.19 m L (10 ft x 10 ft x 40 ft). These mobile designs deliver the same exceptional shielding integrity, making them ideal for on-the-go testing and operational requirements.

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## Technical Specifications

Performance	
Magnetic	26dB @ 1 kHz; 60 dB @ 10 kHz; 120 dB @ 10 MHz to 30 MHz
Electric	120 dB @ 1 kHz to 30 MHz
Planewave	120 dB @ 30 MHz to 18 GHz
Microwave	100 dB @ 18 GHz to 100 GHz

