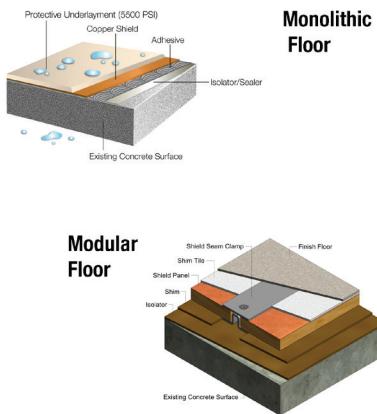


MEDICAL SHIELDING RF SHIELDED FLOORS



RF SHIELDED FLOORS

■ Monolithic

- Pure, High-grade Copper Shielding
- Seamless Design
- Self-leveling and Moisture-resistant
- Chemically Compatible to Resist Corrosion
- Smallest Profile

■ Modular

- Various Shielding Mediums can be Applied to the Core
- Solid Core
- Fast to Install
- No Cure Time
- Cast, Machined Brass Corner Caps

ETS-Lindgren's RF Shielded Floors for MRI applications are available in Monolithic and Modular, each designed to meet specific installation requirements. Monolithic RF floors are well-suited for moist or damp environments, offering a manufacturer-certified solution with structurally bonded materials, including a copper RF attenuator, dielectric material, and a moisture-resistant barrier. These floors feature fully bonded components, a concrete underlayment, and are prepared for final finishes immediately after installation. In contrast, Modular RF floors are an excellent option for projects requiring quick installation. They utilize a copper, aluminum, or galvanized-clad wood core with non-ferrous panels specifically designed for placement beneath MRI systems. A mechanical, non-ferrous clamping system securely joins the panels, ensuring a reliable and efficient shielding solution.

Features

Monolithic RF Floor

This is the ideal RF flooring system for use in MRI applications because it is a non-porous, mechanically seamless, patented flooring system. Moisture damage from flooding, leaky pipes and roofs and even periodic maintenance in the way of mopping can, and will, damage wood core floors. Some of the monolithic RF floor's key features are:

- Monolithic, Mechanically Seamless Design
- Self-leveling, Moisture-resistant Underlayment with Excellent Bonding Characteristics
- Chemically Compatible to Resist Corrosion
- Smallest Profile of any RF Floor System
- Pure, High-grade Copper Sheeting for Superior Conductivity
- Ideal for MRI Enclosures, as well as EKG, EMG, EEG, and Other Medical Applications
- Proven Success in a Range of Industrial and Government Applications on Larger Facilities where the Threat of Moisture or Heavy Equipment Loads is Present
- Comprehensive Warranty

The RF floor design consists of large 3 oz. copper sheets, soldered together to form one continuous, mechanically seamless surface and topped with a self-leveling underlayment. The entire floor system is bonded with a water resistant adhesive, and an epoxy dielectric sealer is applied to the underlying concrete surface to prevent moisture from penetrating up through the concrete. This highly effective design eliminates the possibility of loosening seams or corroding penetrations- the places where RF leaks occur in conventional RF floor systems.

The RF floor incorporates a high-pressure, self-leveling underlayment consisting of cement blends, polymer modifiers and other ingredients to provide outstanding water resistance and bonding properties to help ensure long-lasting RF performance. The underlayment withstands high point loads and heavy patient/equipment traffic. The self-leveling underlayment may be applied over concrete, wood, steel and other solid flooring. This process first seals the existing surface to form a dielectric barrier to the underlayment and then seeks its own level to provide a smooth surface. It will accept foot traffic within 24 hours after installation. The material can withstand up to 5,500 PSI after a 28-day cure time.

MEDICAL SHIELDING RF SHIELDED FLOORS

Modular Cell Type RF Floor

This RF floor is the quickest floor system to install. Its panel sections and hat & flat joining hardware make installation in a conventional MRI room fast and easy. As noted, the joining hardware is a mechanical, 4-point clamping system. The RF panel has a wood core with a galvanized, copper or aluminum skin or surface on either size of the wood core. Some of the modular cell type RF floor's key features are:

- Fast to Install
- Solid Core
- Various Shielding Mediums can be Applied to the Core
- Cast, Machined Brass Corner Caps
- No Cure time as there is no Concrete Underlayment Involved
- Can be Installed on Somewhat Less Than Perfect Parent Flooring Conditions
- Comprehensive Warranty

The modular cell floor is installed over a 6 mil vapor barrier. Leveling tiles, flush with the profile of the clamping hardware, provide a sub-surface ready to accept finish flooring. The cell floor system, can be constructed out of copper, aluminum, silicon, or various thicknesses of galvanized steel. Each material choice offers a unique benefit: non-ferrous (Copper & Aluminum), eddy-current protection, electromagnetic interference (EMI) protection, and partial magnetic containment are a few of those benefits.



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