Xalon RF Shielded Floor System for ICD / ICS 705 SCIF Rooms (Worst Case) using Xalon Galvanized Steel GS26 Floor Panels & Copper Seaming Tape

Uzin Utz Warranties the Floor System.

Layer	Layers (Top to Bottom)	Comments	Product(s)
Top Wear Layer	Finished Flooring	Ready for final flooring to be applied, just like you would on to standard concrete floor.	Vinyl Composite Tile, ESD Tile, Carpet, ESD Carpet Polished Concrete, etc.
Twelve (12)	Fiber-Reinforced Concrete Level RF Shielded Floor System	Apply Uzin NC 150 F self-leveling product to the desired depth. Let dry.	**UZIN NC 150 F Premium Plus – Fiber Reinforced Self-Leveling Compound**
Eleven (11)	Apply Uzin PE280 primer.	Apply coat of Uzin PE 280. Let dry.	**UZIN PE 280 Premium Plus - Super-Fast Primer**
Ten (10)	Apply Surface Strengthener / Moisture Vapor Reducer	Apply coat of Uzin PE 414. Let dry.	**UZIN PE 414 Polyurethane Resin**
Nine (9)	Install 2nd GS panels offset 2’ x 2’ from 1st GS panels already glued down and seam taped	Install 2nd Layer of GS panels with Uzin KR430 Adhesive	**GS20, GS22 or GS26 Galvanized Steel Panels**
Eight (8)	Apply Uzin KR430 2 Part Urethane Adhesive	Apply GS panels using Uzin KR430 two-part urethane adhesive. Let dry.	**UZIN KR 430 Premium Pro 2-Component Polyurethane Adhesive**
Seven (7)	Install 4” wide RF shielded seaming tape	Seam Tape the 1st Layer of GS20, GS22 or GS26 panels	**CU14 (60dB to 10GHz) CU28 (80dB to 10GHz) CU50 (95dB to 10GHz)**
Six (6)	Install Galvanized Steel Perimeter L-Flashing 4” minimum on the floor.	Vertical part can be screwed to wall studs with clear zinc coated screws Horizontal part can be seam taped to the top of the 1st layer of GS panels	**Install Grabber Clear Zinc Coated Screws (for walls) Seam Tape GS L-Flashing to GS Panels CU14 (60dB to 10GHz) CU28 (80dB to 10GHz) CU50 (95dB to 10GHz)**
Five (5)	Install GS20, GS22 or GS26 Galvanized Steel RF 4’ x 8’ Shielding Panels	Install 1st Layer of GS panels with 2-part Urethane Adhesive	**Xalon GS20 (0.040”), GS22 (0.030”) or GS26 (0.018”) Galvanized Steel Panels**
Four (4)	Apply Uzin KR430 2 Part Urethane Adhesive	Apply GS panels using Uzin KR430 two-part urethane adhesive. Let dry.	**UZIN KR 430 Premium Pro 2-Component Polyurethane Adhesive**

Three (3)	Apply Uzin NC170 self-leveling	Apply Uzin leveling product to flatten the floor to accept the metal panels. Let dry.	**UZIN NC 170 recommended for most applications**
Two (2)	Apply Uzin PE280 primer.	Apply primer Let dry.	**UZIN PE 280 Premium Plus - Super-Fast Primer is a film forming primer applied to nonabsorbent surfaces in preparation for the subsequent application of UZIN portland or gypsum-based leveling compounds and thin set mortars**
One (1)	Apply Uzin PE460 epoxy.	Apply 2-part Epoxy This will address any moisture vapor in or below the slab. Let dry.	**UZIN PE 460 Premium Plus - Moisture Vapor Retarder / Surface Strengthener**
Bottom Base Layer	Existing Concrete Floor	Raw Concrete	Existing Concrete Floor

Floor flatness requirement is FF of 50 which is roughly equivalent to a single ±1/8" defect in 10' https://dipstick.com/
The final wear layer floor material and adhesive will be warranted by that product's manufacturer.
*The Xalon EMI-SHIELD **AL5 RF Shielded Seaming Tape** may be used in this system, with prior written approval.
Xalon GS26 panels and CU14 seaming tape is the most economical 60dB solution.
Xalon RF shielded panels are available in 20, 22 & 26 gauge.
Substitute Uzin or Xalon products VOIDs the warranty.
The system layers can be modified or deleted with prior written approval by Uzin.
Some RF shielded floor systems may only require two layers.
Any written warranty must come from Uzin.

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ICD 705 Warranted RF Shielded Floor Questionnaire

Using Uzin Adhesives and Xalon GS26 Galvanized Steel Panels with Copper RF Seaming Tape

Circle, highlight or write your answers

1) **What is the RF shielding effectiveness level required at 10GHz, in dB? (60dB, 80dB, Other ____)**
2) **What floor level will the RF shielded SCIF room be installed? (Below ground level, Ground level, Above ground level, Floor level _____)**
3) **If the existing floor is slab on grade concrete, is there a moisture vapor retarder installed below the concrete slab? (YES, NO), if YES (Class I, II or III)**
4) **What is the parent room existing floor substrate material? (Existing Concrete, New Concrete, Wood, Metal, Other _____) Floor must be clean, dry, smooth, ASTM F710 and flat per FF/FL number of 50. Visit the Flat Floor Library at www.Dipstick.com for More Help**
5) **What is required to be repaired on the existing floor? (Patching, Self-leveling, Moisture Mitigation, Waterproofing, Mechanical Adhesive Removal, Other _____)**
6) **What are the concrete Relative Humidity & Ph numbers? (RH:_____ Ph:_____)**
7) **What are the floor load requirements (Foot traffic, Rolling desk chairs, Pallet jacks, Forklifts, MFG equipment, Robotics, Vehicles, Trucks, Other _____)**
8) **Are you required to RF shield the entire floor? (YES, NO)**
9) **What is the application of the RF shielded ICD 705 SCIF area? (Clean rooms, Manufacturing, Computer rooms, Offices, Research and Development, Control rooms, Meeting rooms, Other _____)**
10) **What is the wear layer of flooring? (ESD tile, ESD carpet, Regular carpet, VCT, PVC / plastic, Rubber, Epoxy, Other _____) installation will require? (Floating / interlocking, Adhesive, Primers, Copper grounding systems, Other _____)**
11) **What is the manufacturer and model of the wear layer flooring? (_____, _____)**
12) **What is the wear layer flooring adhesive? (_____) Include data sheets if possible**

Contractor: _____

Project: _____

Square Footage of RF Shielded Flooring: _____

Linear Footage of Perimeter Wall Shielding _____ **(for tying floor shielding to wall shielding)**

Point of Contact: _____

Contact Phone: _____

Contact Email: _____

Email this completed questionnaire to sales@ramayes.com

Subject: Design our warranted RF shielded floor system

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