



Xalon/Uzin RF Shielded Floor System for ICD / ICS 705 SCIF Rooms
Using Xalon XFS60 (60dB) or XFS80 (80 dB) Proprietary Floor Systems
Uzin Utz Warranties the Floor System structure, 4 to 12 layers required.

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)	Apply SCIF TEXAS Fiber-Reinforced Concrete Level RF Shielded Floor System	Apply Uzin SCIF THREE self-leveling product to the desired depth. Let dry.	UZIN SCIF TEXAS Premium Plus – Fiber Reinforced Self-Leveling Compound
Eleven (11)	Apply Uzin SCIF COLORADO primer.	Apply coat of Uzin SCIF COLORADO. Let dry.	UZIN SCIF COLORADO Premium Plus - Super-Fast Primer
Ten (10)	Apply Surface Strengthener / Moisture Vapor Reducer	Apply coat of Uzin SCIF NEW JERSEY. Let dry.	UZIN SCIF NEW JERSEY Polyurethane Resin
Nine (9)	Install 2 nd XFS panels offset 2' x 2' from 1 st XFS panels already glued down and seam taped	Install 2 nd Layer of XFS panels with Uzin SCIF FOUR Adhesive	XFS60 (60dB) or XFS80 (80dB) Panels
Eight (8)	Apply Uzin SCIF ALABAMA 2 Part Urethane Adhesive	Apply XFS panels using Uzin SCIF ALABAMA two-part urethane adhesive. Let dry.	UZIN SCIF ALABAMA Premium Pro 2-Component Polyurethane Adhesive
Seven (7)	Install Xalon 4" wide RF shielded seaming tape	Seam Tape the Xalon XFP Panels	Xalon Proprietary Copper Seaming Tape XFT14 or XFT50
Six (6)	Install Xalon XFL 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 1 st layer of XFS panels	Install Grabber Clear Zinc Coated Screws (for walls) Seam Tape XFL L-Flashing to XFS Panels With the XF14 or XFT50 Seaming Tape
Five (5)	Install Xalon XFP60 or XFP80 RF 4' x 4' Shielded Panels & Tape 4' x 4' XFP Shielding Panels	Install 1 st Layer of XFS60 panels with Uzin SCIF FOUR	Xalon XFP60 or XFP80 Panels
Four (4)	Apply Uzin SCIF ALABAMA 2 Part Urethane Adhesive	Apply XFP60 or XFDP80 panels using Uzin SCIF ALABAMA two-part urethane adhesive. Let dry.	UZIN SCIF ALABAMA Premium Pro 2-Component Polyurethane Adhesive



Three (3)	Apply Uzin SCIF TEXAS self-leveling	Apply Uzin leveling product to flatten the floor to accept the metal panels. Let dry.	UZIN SCIF TEXAS recommended for most applications
Two (2)	Apply Uzin SCIF COLORADO primer.	Apply primer Let dry.	UZIN SCIF COLORADO 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 SCIF MISSOURI epoxy.	Apply 2-part Epoxy This will address any moisture vapor in or below the slab. Let dry.	UZIN SCIF MISSOURI Premium Plus - Moisture Vapor Retarder / Surface Strengthener
Bottom Base Layer	Existing Concrete Floor	Raw Concrete	Existing Concrete Floor

Floor flatness is FF of 30 to 50 which is roughly equivalent to a single $\pm 1/8$ " 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 XFS60 is the most economical 60dB solution.

Xalon XFS80 is the most economical 80dB solution.

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.

*** The RF shielded floor system must be installed by a Xalon/Uzin prequalified floor contractor, to get the Uzin warranty. Prequalified floor contractors are available in all 50 states and in most countries.**



11/04/2025

1-303-761-9447 www.ramayes.com or 1-833-XalonRF (833.925.6673) www.xalonrf.com

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ICD 705 Warranted RF Shielded Floor Questionnaire

Using Uzin and Xalon XFS60 or XFS80 Proprietary Metal Panels with 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, NEW CONSTRUCTION), 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 30 to 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) Is the existing concrete non-porous? (If YES, the reason why ____)
- 9) Does the floor system require anchors, threaded rod or other hardware installed in it? (Describe ____)
- 10) Are you required to RF shield the entire SCIF floor? (YES, NO)
- 11) 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 ____)
- 12) 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 ____)
- 13) What is the manufacturer and model of the wear layer flooring? (____, ____)
- 14) What is the wear layer flooring adhesive? (____). Include data sheets if possible

Name of Project: _____ State: _____

Name of Contractor: _____

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: _____

Do you need a quote for the fully installed warranted RF shield floor system? (YES, NO)

Email this completed questionnaire to sales@ramayes.com

Subject: Design our warranted RF shielded floor system

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