



Shielding Resources Group, Inc.

ULTRA-RF/A*

Finally, a radio frequency shielded door that blends into its surroundings yet affords the RF shielding protection you require.

- * Designed For Commercial And Security Applications
- * Virtually Maintenance Free
- * Standard Two (2) Year Limited Warranty
- * STC 50 or STC 52 (Optional) Acoustic Performance
- * Exceeds The Shielding Effectiveness Requirements of NSA 73-2A, IEEE 299, NACSIM 5204

OVERVIEW OF “ULTRA-RF/A with Enhanced Performance Package”

Advancing the “state of the art” technology in RF contact mechanisms, the “ULTRA-RF/A” series doors provide the opening and closing forces associated with conventional entry doors. The standard cylindrical passage lockset supplied with the “ULTRA-RF/A” series doors complies with applicable Americans With Disabilities ACT (ADA) Requirements and presents the image of a conventional office lockset. The passage lockset is ANSI A156.2 Grade 1 and UL Listed.

In the open or closed position, the “ULTRA-RF/A” maintains the appearance of a door, not a bank vault look.

“ULTRA-RF/A” ARCHITECTURAL SPECIFICATIONS

- 1.1 **Door Leaf:** The door consists of a solid core and laminated leaf. The sides and top of the door leaf are banded with a brass contact channel which is electro-mechanically bonded to the shielding media that is applied to the door face. A brass contact angle is mechanically attached at the bottom of the door. The standard door face finish is primed gray. As a option, the faces of the door can be supplied with a wood veneer or a high pressure plastic laminate (HPPL) which is “Natural Oak” in color. (Other colors and or finishes are available on request)
- 1.2 **Door Frame:** The door frame consists of a RF interface frame which the door jambs, sill and head are attached to. The jambs, head and sill are 12 gauge galvanized steel. The door leaf and door frame are furnished as a complete assembly and are available in a “ADA flush sill” or “raised sill” configuration.
- 1.3 **Hardware:** The “ULTRA-RF/A” is supplied with all hardware in a US26D finish and Clear Anodized (which is Satin Chrome). The hinge mechanism is a commercial grade, full surface, security hinge. The hinge system is designed and installed so there is no contact between the RF seals and the hinge plates. The standard lockset provided is a “passage” extra heavy duty lever handle which meets the Accessibility Guidelines of the Americans With Disabilities ACT (ADA), the Uniform Federal Accessibility Standards and ANSI 156.2, Series 4000, Grade 1. Entrance, classroom, storeroom, privacy locksets and push/pull plate assemblies are available on request.

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- 1.4 **Threshold:** The "ULTRA-RF/A" is supplied with a steel or stainless steel threshold for both the "flush sill" And "raised sill" configuration. The threshold is electro-mechanically attached to the door frame assembly. The threshold is available in single or dual tapers (for new or existing construction). The sill has a maximum height of ½" (after installation of customer supplied flooring).
- 1.5 **Standard Door Size:** The "ULTRA-RF/A" is supplied as a single leaf 3'-0" X 7'-0" standard which provides a clear finished opening of 2'-11" X 6'-11". The "ULTRA-RF/A" is available in other single or double door sizes on request.
- 1.6 **Operating Force:** The "ULTRA-RF/A is designed to be opened or closed with less than 20 pounds of push or pull pressure.
- 1.7 **RF Contacts:** The "ULTRA-RF/A" is furnished with a single row of low pressure tin plated beryllium copper electrical contact strips. The contacts are installed on the door frame jambs and head section for a "flush" appearance. The contracts located at the bottom of the door are attached to a removable brass mounting angle. The contacts are designed and installed to be virtually maintenance free (since no lubrication of the door is required and they are protected by the door stops). Maintenance and or repairs can be performed at the user level. All repairs and maintenance can be accomplished with a Phillips head screwdriver, utility knife and scissors. The "ULTRA-RF/A" is also available in a high performance version which utilizes two (2) sets of electrical contacts. For further information on this high performance version or "USER" upgrade of an installed "ULTRA-RF/A", contact Shielding Resources Group, Inc. for details.
- 1.8 **Warranty:** The "ULTRA-RF/A is furnished with a standard two (2) year limited warranty.
- 1.9 **Performance:** The "ULTRA-RF/A" (Enhanced Performance Package) provides the following performance levels when tested in accordance with IEEE 299, NSA 94-106 and NACSIM 5204:

Magnetic Field		Electric Field		Plane wave		Microwave	
10 KHz	30 dB	10 KHz	100 dB	50 MHz	100 dB	2 GHz	80 dB
100 KHz	50 dB	100 KHz	100 dB	100 MHz	80 dB	4 GHz	80 dB
1 MHz	60 dB	1 MHz	100 dB	400 MHz	80 dB	8 GHz	80 dB
10 MHz	80 dB	10 MHz	100 dB	1000 MHz	80 dB	10 GHz	80 dB
30 MHz	90 dB	30 MHz	100 dB			12 GHz	55 dB
						18 GHz	40 dB

(S/E values are minimum performance)

- 1.10 **Optional Hardware:** The "ULTRA-RF/A" can be supplied with a STC 50 door leaf and STC-50 acoustic seal package (DTC-42 or NIC 50 rated), single or double cylinder deadbolts, door closers, magnetic switches, medium or high security combination locks or customer specified hardware (Customer specified hardware must be approved by SRG to insure RF performance).

