

ACCUTECH 200640

Lexan Antenna Guard | Centralized Wander Management Infrastructure Hub



PRODUCT OVERVIEW

The Accutech 200640 Lexan Antenna Guard serves as a core hardware intelligence component within advanced wandering management and resident safety infrastructures. It is engineered to bridge the gap between physical perimeter sensors deployed at facility exits and localized control monitoring stations. By aggregating and processing protective physical shielding metrics at protected boundaries, it eliminates the operational complexity of managing individual entry points. This centralized topology ensures that large-scale senior care, nursing home, memory care, and hospital facilities maintain instantaneous, real-time situational awareness.

Deployed directly over peripheral transceivers, door frame sensor modules, and restricted access zones, the 200640 module channels physical impact deterrence and operational frequency isolation. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as authorized staff bypass, secure visitor access, and localized security overrides—are instantly synchronized with perimeter sensors. This active tracking processing ensures absolute protection across expansive hospital wings, long care facility corridors, and high-risk infant protection zones by safeguarding exposed external egress routes from environmental wear, rolling cart collisions, and unauthorized passage.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 200640 Lexan Antenna Guard to act as the primary external security access control and localized override node protective armor. The hardware must support direct integration configurations to synchronize active bypass states and mechanical structural armor directly over peripheral zone controllers.
- **Healthcare Environment Protection:** The protective shielding assembly shall incorporate a durable, heavy-duty commercial-grade structural design explicitly engineered to sustain continuous clinical exposure, operating reliably across extreme temperature variations, direct moisture impacts, and high-humidity environmental conditions.
- **Access and Control:** The device physical shield interface shall feature a heavy-duty deflection path to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands and alarm resets directly at the security boundary without antenna interruption.

- **Enclosure and Durability:** The micro-low-profile shielding component assembly shall be protected inside a ruggedized, vandal-resistant commercial-grade housing optimized for flush-mount or surface-mount terminal configurations directly over existing loop sensors or transmitter chassis backplanes.
- **System Interoperability:** The protective guard architecture must feature validated native compatibility for direct non-interference shielding over Accutech environmental safety platforms, ensuring non-latent signaling and secure credential validation across the facility's dedicated security network.

SYSTEM COMPONENTS

The 200640 Lexan Antenna Guard incorporates several fundamental integrated sub-modules and physical connection layouts:

- **RF-Transparent Lexan Deflection Shield:** The primary protective structural canopy manufactured from heavy-duty polycarbonate materials to isolate underlying antenna electronics from impact forces without blocking wireless signal paths.
- **Low-Profile Sloped Contour Frame:** Ruggedized, high-durability outer structure featuring angled walls to guide physical collisions smoothly over the assembly, preventing snagging or tearing.
- **Heavy-Duty Anchor Lugs:** Integrated high-strength mounting flange channels dedicated to accepting secondary anchor bolts or masonry screws safely into the facility wall surface.
- **Conformal Moisture Gasket Channels:** Internal perimeter seating tracks designed for clean, reliable application of moisture seals to shield underlying components from washdown spray paths.
- **Vandal-Resistant Outer Shell Matrix:** Heavy-duty commercial-grade impact-resistant shielding providing absolute physical armor and an ultra-thin footprint for high-traffic corridors.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates peripheral transceiver protection states down to a single physical monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **High-Impact Polycarbonate Protection:** Features an advanced structural layout engineered to deflect violent impacts from rolling medical carts, hospital beds, and heavy facility machinery away from delicate underlying electronics.
- **Zero Signal Attenuation:** Employs an RF-transparent non-metallic composition behind its structural frame to eliminate radio frequency signal dampening, ensuring optimal perimeter tag excitation and tag scanning reliability.
- **Tamper-Resistant Hardware Anchoring:** Built using ultra-strong fastener points and high-durability Lexan polymers that safeguard internal electronic processing paths against high-traffic workspace hazards and deliberate tampering.
- **Validated Platform Interoperability:** Engineered for total compatibility out-of-the-box with established Accutech perimeter antennas, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	Lexan Antenna Guard Shield
Part Number / SKU	200640
Component Technology Type	Heavy-Duty RF-Transparent Mechanical Armor
Signal Transmission Loss	0 dB (Engineered for Complete Radio Frequency Signal Transparency)

Enclosure Protection Rating

Vandal-Resistant Deflection Profile / High-Impact Structural Shielding

Interface Link Mechanism

Surface-Mount Multi-Point Mechanical Fasteners for Rigid Wall / Door Frame Anchoring

Wander System Compatibility

Accutech ResidentGuard and Cuddles Perimeter Antenna Environments

Primary Target Environments

Emergency Egress Doorways, Loading Zones, High-Traffic Main Corridors, Elevator Frames

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Formulated as a passive mechanical security shielding component. Because it contains no active electronics or oscillator traces, its physical profile is optimized to overlay components certified to meet FCC Part 15 regulations without disrupting signal calibration or causing harmful electromagnetic interference.
- **UL Listing:** Engineered and fabricated using raw structural materials compliant with UL safety classifications for low-voltage signal appliance enclosures, exterior access control equipment accessories, and healthcare facility structural safety instrumentation.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the heavy-duty Lexan casting process, dense structural materials, and exterior finishes strictly restrict the use of lead, mercury, hexavalent chromium, and other hazardous substances.