

ACCUTECH 500062

C-Channel | Centralized Wander Management Infrastructure Hub



PRODUCT OVERVIEW

The Accutech 500010 1/4 Plate Spacer 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 structural layout and protective mounting paths at protected entry points, 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 at high-traffic egress boundaries, surface-mounted walls, exposed door frames, and restricted access zones, the 500062 module channels precise structural protection and cable routing telemetry. 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 and unauthorized passage.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 500062 C-Channel to act as the primary external security access control and localized override node. The hardware must support direct integration configurations to synchronize active bypass states directly with peripheral zone controllers.
- **Perimeter Infrastructure Protection:** The remote mounting assembly shall incorporate a durable, 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 interface shall feature a heavy-duty, protective guiding layout to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands and alarm resets directly at the security boundary.

- **Enclosure and Durability:** The channel assembly shall be protected inside a ruggedized, vandal-resistant commercial-grade housing optimized for flush-mount or surface-mount terminal configurations on architectural door frames or perimeter wall surfaces.
- **System Interoperability:** The C-channel architecture must feature validated native compatibility for direct low-voltage data connection with Accutech environmental safety platforms, ensuring non-latent signaling and secure credential validation across the facility's dedicated security network.

SYSTEM COMPONENTS

The 500062 C-Channel incorporates several fundamental integrated sub-modules and physical connection layouts:

- **Conformal Environmental Protection:** The primary structural channel extrusion assembly coated with protective high-durability finishes to isolate electronic lines from background moisture and wall dust intrusion.
- **Commercial-Grade Alignment Matrix:** Ruggedized, high-durability structural body featuring universal architectural mounting configurations and straight-run alignment paths.
- **Heavy-Duty Wire Raceway Pathway:** Integrated wide-clearance routing tracks dedicated to managing secondary perimeter lines, localized zone loops, power feeds, or local bypass cables.
- **Low-Voltage Hardware Backplane:** Multi-position mechanical anchoring array designed for clean, reliable surface alignment and structural device installation line termination.
- **Vandal-Resistant Outer Chassis:** Heavy-duty commercial-grade composite or metal alloy guide enclosure providing structural impact protection and integrated structural grounding paths.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates manual perimeter mounting tolerances and depth extension states down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Precision Quarter-Inch Offset:** Features a 1/4-inch depth-extension profile engineered to provide necessary clearance behind faceplates, preventing pinched wires and component crowding in shallow backboxes.
- **Surface Correction and Stabilization:** Employs a rigid planar seating layout behind the wall plate matrix to guarantee seamless flush fitting on uneven clinical surfaces, masonry, or concrete walls.
- **Vandal-Resistant Construction:** Built using impact-resistant structural components and a heavy-duty single-gang profile 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 security environments, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer

Accutech Healthcare Security Solutions

Product Model Name

C-Channel Wire Raceway / Mounting Track

Part Number / SKU

500062

Structural Profile Type

Standard C-Channel Geometry Base

Enclosure Protection Rating

Surface-Mount Raceway / Vandal-Resistant Structural Shield

Operating Input Voltage

Passive Structural Hardware (Managed Low-Voltage Control Paths via Parent Com

Interface Link Mechanism

Continuous Pass-Through Channel for Power, Ground, and Signal Buses

Wander System Compatibility

Accutech ResidentGuard Series Access and Security Environments

Chassis Construction

Heavy-Duty Industrial Commercial-Grade Lightweight Structural Housing

Primary Target Environments

Exposed Wall Surfaces, Surface-Mount Door Frames, Concrete Walls,
Perimeter Egress Loops

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC Part 15 regulations regarding digital device shielding. This guarantees that multi-zone switching and enclosed hardwired loop paths do not cause or sustain harmful electromagnetic interference with nearby diagnostic medical devices or critical patient networks.
- **UL Listing:** Engineered and assembled using components compliant with UL safety classifications for low-voltage signal appliances, exterior access control equipment, and healthcare facility alert instrumentation.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the assembly, internal structural materials, and plastic trace configurations restrict the use of lead, mercury, and other hazardous materials.