news & updates October 2026 | Issue 41

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CEO's Corner

Your mission doesn't stop at the laboratory door—and neither should your RF shielding. Whether you're testing vehicles, isolating seized electronics, or supporting remote communications, **Select Fabricators'** weather-ready SelectFab Outdoor RF Shielded Tents bring high-performance RF isolation where you need it.

Combining a conductive shielding enclosure with a durable, weather-rated protective shelter, SelectFab helps protect sensitive equipment from RF interference and outdoor exposure. Rapid deployment, flexible configurations, and U.S. manufacturing make these tents a practical solution for demanding field operations.

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What's New?

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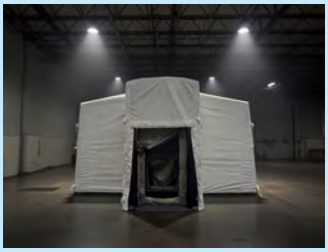
Promotions

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You might need **SelectFab Outdoor RF Shielded Tents**, as RF-sensitive work doesn't always happen in a controlled laboratory. Vehicle testing, on-site digital forensics, tactical communications, and emergency response can require electromagnetic isolation in locations where a conventional hard-wall shielded chamber is impractical. Select Fabricators' weather-ready **SelectFab Outdoor RF Shielded Tents** bring a portable, controlled RF environment directly to the operation.

These enclosures combine high-attenuation conductive shielding with a durable, weather-rated outer shelter designed to protect against rain, wind, temperature extremes, and UV exposure. With rapid-deployment frames, configurable interfaces, and sizes ranging from compact enclosures to large custom structures, SelectFab gives technical teams a flexible way to establish RF isolation in the field.

Two Layers, Two Essential Functions

SelectFab's outdoor configuration integrates an inner conductive tent within an exterior protective shelter. The inner enclosure provides electromagnetic shielding, while the outer shelter protects the enclosure and equipment from environmental exposure.

This arrangement addresses two distinct field requirements: controlling the RF environment and providing physical protection for the working space. It enables teams to bring shielding to a test site, investigation scene, or remote deployment instead of transporting equipment back to a fixed facility.

Broadband Shielding From 30 MHz to 40 GHz

The supplied product information reports shielding attenuation of **90 to more than 100 dB across a frequency range of 30 MHz to 40 GHz**. That range encompasses many communications and interference sources relevant to field operations, including cellular, Wi-Fi, Bluetooth, and numerous microwave systems.

Shielding attenuation expresses the reduction in electromagnetic coupling through an enclosure. For perspective, 90 dB corresponds to a field-amplitude reduction of approximately 31,600:1, while 100 dB corresponds to approximately 100,000:1 under the applicable measurement conditions.

For engineers, this level of isolation can help reduce external RF signals that would otherwise affect sensitive measurements or complicate evaluation of a device under test. For digital forensic teams, RF isolation helps prevent a seized device from communicating with external networks.

Performance requirements should be matched to the application's frequencies and selected enclosure configuration. Doors, seams, cable penetrations, and installed interfaces all warrant attention when specifying a complete shielded system.

Conductive Fabric and a Patented Door Seal

The shielding enclosure uses **NovaSelect™ conductive fabric**. Unlike a rigid metal chamber, a fabric enclosure supports a portable structure that can be transported and assembled where needed.

Maintaining electrical continuity at openings is critical to RF shielding. Select Fabricators addresses the entrance with its **patented double-magnet door seal system**, covered by U.S. Patents **8,530,756** and **9,029,714**. The door seal is an integral part of the shielding design, helping maintain the conductive boundary at a frequently used access point.

Together, the conductive material and sealing system provide the foundation for high attenuation in a deployable enclosure.

Deployment Options for Different Operating Requirements

SelectFab offers **Series 700 frame configurations with setup times as fast as 1–10 minutes**, depending on the selected configuration. Rapid deployment is valuable when teams need to establish an isolated workspace during temporary testing, investigations, or response operations.

For longer deployments, semi-permanent and permanent military shelter options are also available. This allows users to select a structure around their expected deployment duration, transportation requirements, and available site resources.

Enclosures range from **standard 4′ × 4′ units to large-scale custom builds**. Selecting the appropriate size involves more than fitting the equipment: teams should also account for operator access, fixtures, cable routing, and working clearance around the device under test.

Interfaces That Support a Complete Test Setup

A shielded enclosure must accommodate the services required by the equipment inside it. SelectFab offers **custom I/O filter plates for AC/DC power, Ethernet, USB, and HDMI connections**.

These options allow users to plan power and data connections as part of the enclosure design. Specifying suitable interfaces is particularly important because an uncontrolled cable penetration can compromise the isolation otherwise provided by the shielding material and door system.

Additional options include:

- **Vestibule entrances for applications requiring an additional access area.**
- **ESD protection for work involving electrostatic-sensitive electronics.**
- **Pelican shipping cases for transportation and storage.**
- **Custom enclosure dimensions and interface layouts to accommodate application-specific equipment.**

When requesting a configuration, identify the required connections, operating frequencies, equipment dimensions, and deployment conditions so the enclosure can be specified around the actual workflow.

Applications Beyond the Fixed Laboratory

Automotive proving grounds: Establish an RF-controlled enclosure near vehicle testing operations for selected electromagnetic compatibility checks and subsystem evaluations. Bringing the enclosure to the site can reduce the need to return equipment to a fixed laboratory.

On-site digital forensics: Isolate seized electronic devices at investigation sites or border checkpoints. Blocking external RF communication helps protect against remote access or wiping while devices are being examined or held.

Tactical communications: Provide an isolated RF environment for sensitive communications equipment in remote locations. RF shielding can support a broader security design; formal SCIF requirements must be addressed separately for the complete facility.

Emergency command operations: Support RF-sensitive equipment and communications work during disaster response, where external signals and temporary infrastructure can complicate operations.

U.S.-Manufactured and Configurable for Your Mission
SelectFab Outdoor RF Shielded Tents are **manufactured in the United States and identified as Berry Amendment compliant**. Standard configurations and custom-engineered solutions give procurement and technical teams options for both compact deployments and larger operational spaces.

The supplied product information lists typical delivery of **four to six weeks for custom solutions**. Contact Saelig to confirm current availability, lead times, and the shielding and environmental specifications of your selected configuration.

Put high-performance RF isolation where the work happens. For technical specifications, custom quotes, or deployment consultations, contact **Saelig Company, Inc.** at **585-385-1750** or **sales@saelig.com**.
Visit **www.saelig.com**.

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