NOBLE BIOMATERIALS

DFENSE

EMI/RFI SELF-STICK

WALLPAPER SHIELDING

Whether you're shielding a room for secrecy, testing equipment, or segregating data, EMI/RFI Self-Stick Shielding Technology from Noble Biomaterials offers simple, fast, and flexible solutions when reliable conductive materials are required.

BENEFITS

- Specifically designed for implementation in environments in which time and manpower are at a minimum, but security and reliability are paramount
- Can be used in any space that needs to be secured, from an airplane hangar to a closet or a transportation case
- Far more effective than films and as effective as foils with drastically reduced installation time and cost
- Very little to no down time needed in the space for installation
- Simple installation with no soldering or other complicated seaming; one to two people can complete a room
- Products are textile based for weight saving, flexibility, and durability
- Can be assembled to meet your specific program requirements
- Available in several configurations for various performance specifications
- Made in the USA

ENVIRONMENT AND APPLICATIONS

Noble Biomaterials' self-stick products are designed so an organization can efficiently secure an existing room, building, or portable enclosure without significantly disrupting operations during installation. Easy to use and highly manageable, materials deliver reliable performance while reducing manpower and downtime. In typical shielding installations, the installers have difficult materials to work with and the process requires a great deal of time in the space, rendering it useless. With Noble self-stick shielding products, an installer could literally apply the shielding while the space is in use.

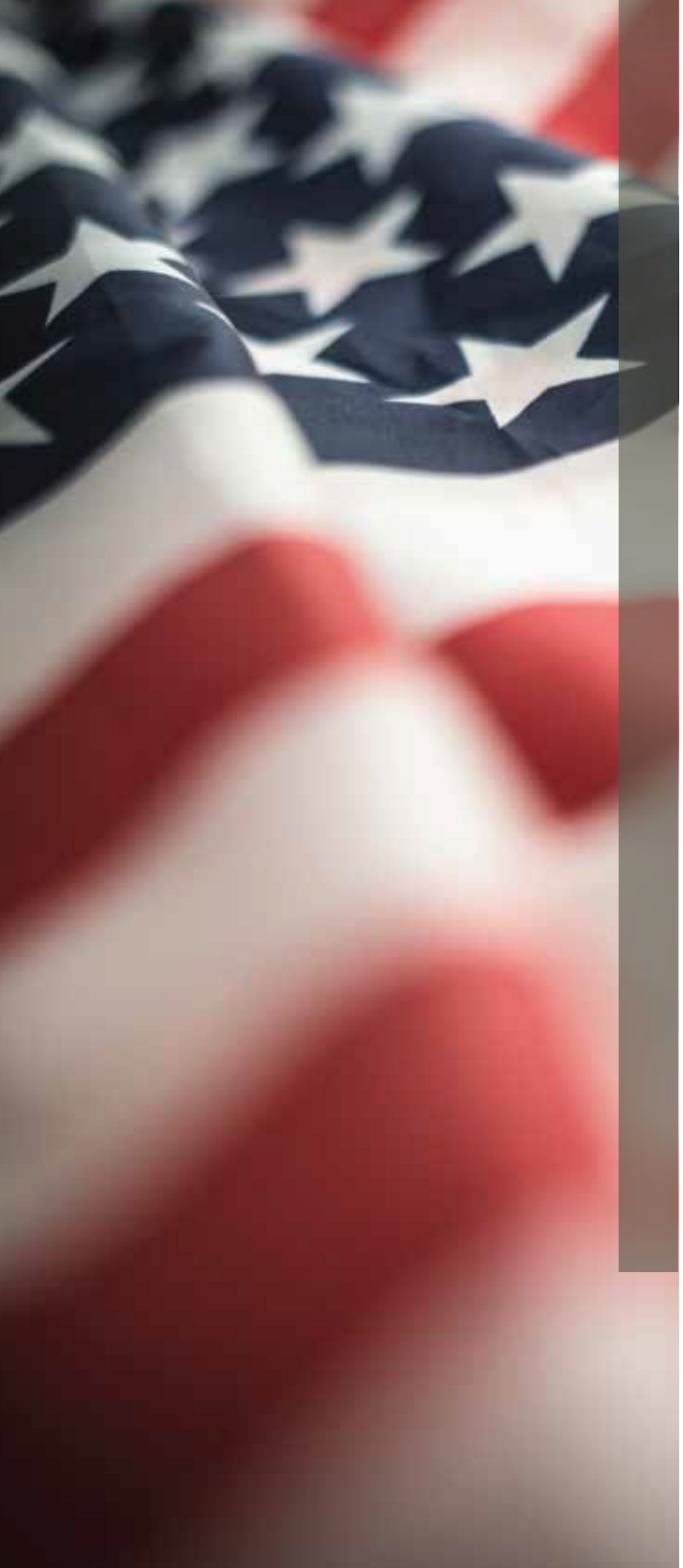
The system is designed to be applied to a wide variety of surfaces including unfinished drywall, cinder block, concrete, plastic, painted or finished walls, painted and unpainted metal, and even low energy composite structures and cases. The system can also be encapsulated between layers of drywall, plywood, or other construction material to avoid potential damage, provide additional protection from the elements, or to make it undetectable from parties that may enter the secured area. Because the adhesive can also be conductive, sending metal screws through the material will not create leaks. The adhesives have been tested for their ability to adhere to virtually any surface found in temporary or permanent structures.

Our EMI/RFI self-stick shielding products can also be used to improve the performance of storage containers and other deployable assets. Because the materials are fabric based, they have a natural ability to move with the structure and will not crack, split, or suffer from many of the same problems that more traditional architectural shielding products tend to face in portable or deployable structures.

EMI, RFI, AND IR SPECTRUM CONCEALMENT AND PROTECTION FABRICS

In addition to EMI/RFI wallpaper, Noble Biomaterials offers fabric solutions for lightweight, flexible, and portable shielding applications where failure is not an option. These fabrics are backed with either conductive or non-conductive pressure sensitive adhesive to provide a menu of products that are easy to use and offer a wide range of shielding options.

- Cable shielding
- Seam shielding or filling
- EMI/RFI repair kits
- Grounding planes
- EMI/RFI gaskets in fabric over foam applications
- Static dissipation
- EMI shielding for tents, shelters, or portable structures
- High-altitude electronic shielding
- High-temp shielding applications
- Data protection bags and pouches
- Missile transportation applications



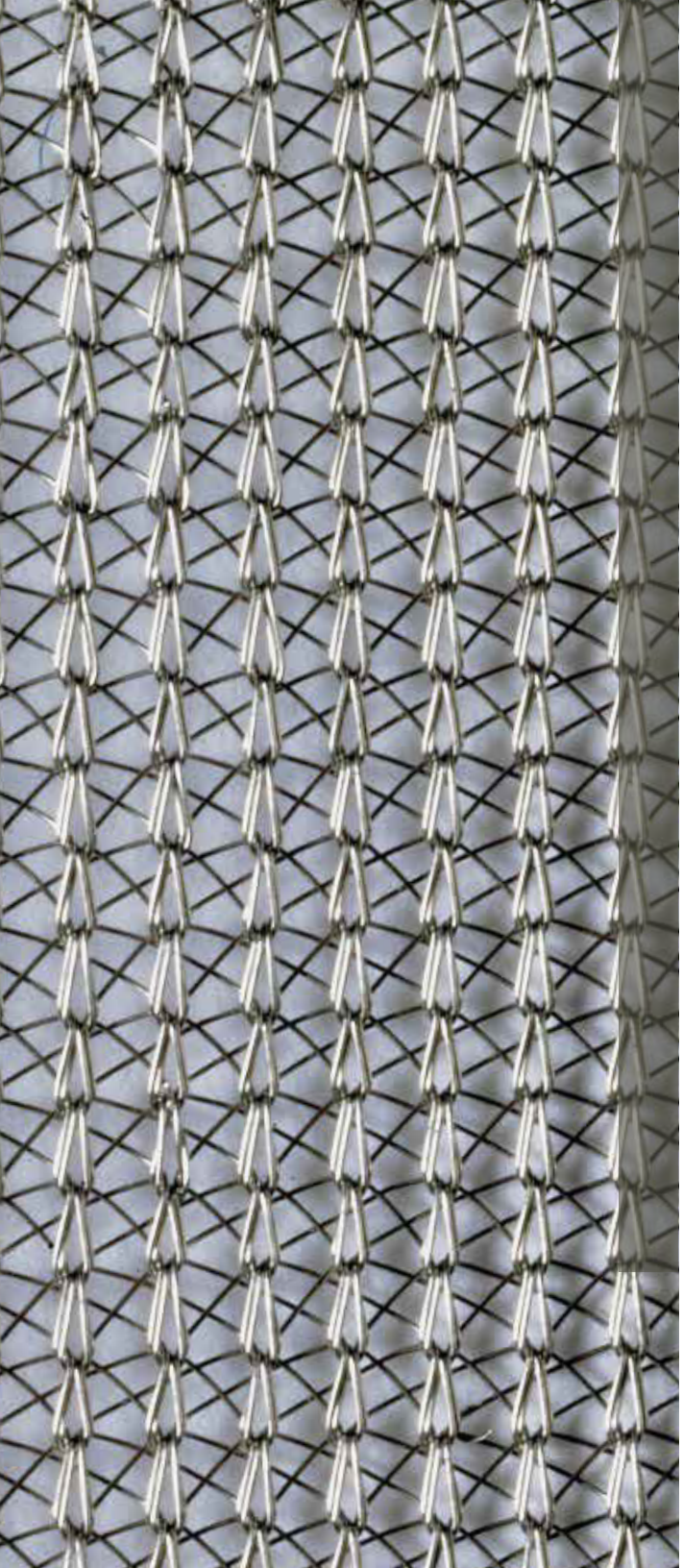
PRODUCTION CAPABILITIES

Noble Biomaterials is already a trusted supplier of mission-critical products in shielding, conductivity, and dissipation applications.

Currently, Noble Biomaterials has advanced material technologies in use with US and allied militaries and government bodies as well as the top global aerospace companies in the world.

Noble Biomaterials EMI/RFI self-stick shielding products are all manufactured and assembled in our US facility with the highest level of quality control. The fabrics and adhesives are all readily available, are standard items, and are in inventory.

The material is produced in roll form and provided in various widths to allow for ease of installation.



FABRIC METALLIZATION TECHNOLOGY

Noble Biomaterials uses proprietary technology to permanently bond pure silver to the surface of a polymer substrate, including yarn, fiber, fabric, tape, and foam.

These materials can be blended with natural or man-made fibers for superior design flexibility. Special formulations can protect against galvanic reactions and oxidization.

The result is a highly conductive, durable, lightweight, flexible, washable material with 360-degree permanent encapsulation coating.

Noble Biomaterials provides industry-leading performance, quality control, and durability.

US ENVIRONMENTAL PROTECTION AGENCY
Antimicrobial & Conformance Registrations

US FOOD & DRUG ADMINISTRATION
Class I & 2 Medical Device Approvals

EUROPEAN COMMUNITY CERTIFICATION
Class 1, 2 and 3 Medical Device Approvals

OEKO-TEX®
Standard 100 Certification

BLUESIGN

WHY NOBLE BIOMATERIALS?

Low observable technology materials made by Noble Biomaterials are used by the best in military and aerospace, including US and Allied Special Forces, Lockheed Martin, Northrup Grumman, Boeing, and NASA. Noble already provides superior solutions for warfighter uniforms, equipment, aircraft, ships, submarines, vehicles, missiles, and satellites that need to be less visible to radar, infrared, sonar, and other detection methods. Now, with Noble's EMI/RFI Self-Stick Shielding Products, we can better serve our partners in Telecom, Big Data, Government (Embassy, Federal Police, DOD), Information Technology, Manufacturing, Aerospace, Automotive, and more.

FURTHER INFORMATION

To submit your RFQ or request a needs analysis, contact:

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