



# LANCS INDUSTRIES

Lancs Industries is the premier manufacturer of radiation shielding and containment products including lead wool blankets, flexible non lead shielding produced from tungsten and bismuth, and related products for the nuclear powered ship building and maintenance sectors, nuclear waste remediation and nuclear power industries.

# Radiation Protection Products Direct from the Manufacturer

With a 17,000 sq. ft. production and administrative facility in Kirkland, Washington, Lancs is the largest manufacturer of radiation shielding and containment products in North America.

Lancs has produced over 80% of the lead wool blankets used in United States nuclear power plants and U.S. Naval facilities today and is one of the largest producers of flexible lead free shielding products made from tungsten, bismuth, and iron. We carry a ready-to-ship inventory of standard products that includes flexible shielding, lead wool blankets, glovebags, and sleeving. Since 1974, the in-house manufacturing facilities at Lancs Industries have supported a flexible design process that delivers the highest quality products, on-time and on-budget.

## Key Product Groups

- Lead Wool Blankets
- Lead-Free Flexible Shielding - *Tungsten, Bismuth, or Iron*
- Containments
- Sleeving, Bags and Rolled Goods
- Glovebags
- Tents
- Supplies and Accessories
- Protective Clothing
- Flexible HEPA Grade Filters
- Training for Your Staff
- Custom Design



# Lead Wool Blankets

Lancs Industries has been supplying lead wool blankets as a source of low cost, high quality shielding solutions since 1974.

Lancs Industries has decades of experience in manufacturing lead-based radiation shielding products. Our production and operational expertise extends to the many different shielding situations requiring lead blankets. From small local site shielding projects to large scale refueling outages, we can advise on the best materials to use and can manufacture any configuration for lead blankets to best address your requirements.





# Lead Free Flexible Shielding

Your one-stop shop for radiation shielding – Lancs provides one of the largest menus of shielding products available to the industry. Our innovative flexible shielding technology is safe and cost effective and can be produced from Tungsten, Bismuth, or Iron.

## Shielding Types

- Pipe Shields
- Pipe Wrap
- Safety Floor Shields
- Blankets
- Magnetic Shields
- Custom Designed Shields
- Produced in almost any three dimensional shape and size such as pipe elbows, tees and flanges
- Shields can be produced with encased magnets, rigid supports and fasteners, and customized to your particular specifications





# Standard and Custom Glovebags

Glovebags are flexible containments that enclose a contaminated item or form a small work area to confine the spread of contamination. Glovebags allow work to be performed on potentially contaminated items by personnel wearing a minimum of protective clothing.

Access to the glovebag interior via gloved sleeves enables repairs or manipulations without directly contacting contaminated surfaces. Lancs makes a wide variety of glovebags with different configurations and dimensions. These designs have been developed throughout many years of experience with the U.S. Navy nuclear program, electrical utilities, and Department of Energy laboratory facilities.

## Standard or Custom Glovebag Options:

- Choose a glovebag from our extensive product catalog found online
- Lancs Industries will work closely with you to develop a custom design to meet your exact needs and specifications

## Some design considerations may include:

- Materials (PVC , Polyurethane)
- Color and Finish (Yellow, White, Transparent, Translucent, Solid)
- Sleeves (Glove, Transfer, Pass-through, Tool Sleeve, Service Lines)
- Frames (PVC, Aluminum, Stainless)
- Ventilation (Negative Air, HEPA Filters)



# Work Tents

Properly designed work tents will reduce cross-contamination from work being done on structures or spaces contaminated by radiological or other hazardous materials.

Serving as a barrier between work surfaces and clean areas, tents and containment covers are used to create a controlled environment to reduce overall exposure levels during work, and to minimize the scope and complexity of subsequent cleanup operations.

Lancs has been providing work tents for our customers since the company's inception in 1974. We have been involved with hundreds of different site configurations ranging from simple single chamber tents with limited access to complex requirements such as expandable and collapsible, multi-tier, multi-chamber tents spanning thousands of square feet.

We can work directly from your design to fabricate tents precisely to your specifications. Or, drawing upon our longstanding experience, we can suggest best practices to incorporate needed features and collaborate with you to develop a tent design that addresses all the requirements of your project scenario.

A tent from Lancs Industries can be from among four standard layouts with popular dimensions and common features. These standard tent designs may address many of your project requirements with little or no modification. We can also provide decon chambers, steam generator work tents, bull pen containments (no roof), and large scale covers with irregular shapes. If it can be drawn, we can make it.



Lancs Industries manufactures radiation shielding and containment products used to increase safety and reduce risk to workers in hazardous environments. Our products reduce radiation exposure and minimize the spread of contamination at nuclear power plants, Department of Energy remediation sites and laboratories, U.S. Navy ships, submarines and shipyards, and radioactive settings throughout the United States and the world.





# Custom Design: If You Can Draw It, We Can Make It

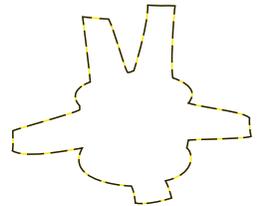
Lancs Industries excels at fabricating customized containments with one-of-a-kind configurations and unique dimensions. We collaborate with you to determine the best design, shape, and custom features for your project. If you can draw it, we can make it.

Lancs Industries manufactures radiation shielding products using a flexible design and manufacturing process that is always responsive to customer needs. Material selection, functional design, and dimensions can all be uniquely specified. Lancs will build to order. In all cases, we work tirelessly to meet the demanding schedules of our customers to deliver on time - when needed. Many projects and maintenance operations present situations in which custom designed containments would reduce the complexity of work. The potential applications are unlimited.

## Design Factors

- Flexible Covers to protect high value equipment when in use
- Waste Box Liners to streamline disposal activities
- RAM Bags & Sleeves to shroud objects for handling and disposal

Products from our library of designs for more commonly used radiation shielding items can be ordered with little or no modification. We carry a ready-to-ship inventory of many regularly ordered items.





# Containments | Sleevings, Bags, and Rolls

To capture drips or leaks under pipes, valves and other components, Catch Containments (also called Drip Bags, Drip Pockets and Drip Funnels) help prevent the spread of contamination.

## Containments

Lancs manufactures catch containments in two styles—Cylindrical and Conical. Colors include yellow for radiological use, clear or clear-green for nonradiological use, and a variety of other colors to meet your particular needs.

Good work practices include selecting the right tools and materials that fit the needs of a particular job.

## Sleevings, Bags and Roll Goods

Handling, controlling, and disposing of radioactive or contaminated material in a safe manner requires proper technique and supplies. Sometimes an off-the-shelf item can satisfy your work requirements. More often than not however, special made-to-fit sleevings, bags or other items which have been custom fabricated from roll goods will provide a more effective and efficient solution to a given task. Lancs provides a range of sleevings, bags and roll goods made from materials that meet stringent quality control criteria and rigorous performance requirements.



# Supplies & Accessories | Flexible HEPA Grade Filters

## Supplies and Accessories

Lancs offers a wide variety of supplies and accessories including Anti-C gloves, glove rings, standard and flexible HEPA filters, flexible assemblies, poly-bottles, adaptors, drain fittings, clamps, hand pumps, vent assemblies, and tieoffs. If you need it, we've got it.

## Flexible HEPA Grade Filters

Our patented HEPA grade filters permit air transfer from bags and containment systems without releasing radioactive materials, thereby reducing radioactive waste volume significantly. We heat-seal the filters into PVC, PU, or polyethylene (PE) plastic film. Products manufactured by Lancs which typically use these flexible HEPA grade filters include:

- Bag-In/Bag-Out Bags
- Drum Covers
- Drum Liner Bags
- Drum Transfer Bags
- Hot Cell, Over Pack, Transfer and Waste Box Sleeves
- Vented Drum Covers



# Ventilation and Engineered Controlled Systems Protective Clothing

## Ventilation and Engineered Controlled Systems

Lancs distributes ventilation systems, portable HEPA filtration and carbon absorption systems which are frequently used in conjunction with our containment tents. These ventilation products also include pre-filters, flexible duct, stainless fittings, hoods, glove boxes, and related accessories.

## Protective Clothing

Lancs understands your functional requirements, worker comfort needs, and disposal concerns when it comes to anti-contamination clothing. Custom designed and produced, our protective clothing is manufactured with zippered or Velcro closures, and over-flaps to prevent inadvertent opening. Key stress points are reinforced to prevent tearing. Generous sizing ensures ease of movement. Depending on your needs, our suits can be produced from either polyvinyl chloride (PVC) which is fire retardant, or polyurethane (PU) which is certified incinerable and disposable.



# Training and Other Resources

Lancs is pleased to offer training classes on radiological work practices and ALARA techniques at our plant facility in Kirkland, Washington or at your facility.

## Training for Your Staff: Innovative Radiological Work Practices and Alara Techniques

Two day training classes at Lancs cover all phases of radiological work and include the use of glovebags, tents, and radiation shielding. Lancs teaches your staff key best practices in ALARA safety which translate into lower dose for workers, shorter outages and overall cost savings for your facility.

Most of the training is hands-on. For example, students will learn how to fabricate glovebags and containment tents. Often an underutilized tool, glovebags create an isolated environment for maintenance and repair work to be performed, reducing the need for full body suits and respiratory equipment. The classroom portion will also touch on other engineered controls that workers can implement. The interaction between our staff and visiting radiological personnel has resulted in the development of customized products specifically tailored to solve individual site needs.



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## **Want More Information?**

To receive a full color catalog with detailed descriptions of our over 500 products, call us at 425.823.6634, or visit [LancsIndustries.com](http://LancsIndustries.com), fill out our contact form, and select the catalog option. You may also obtain a free quotation online.