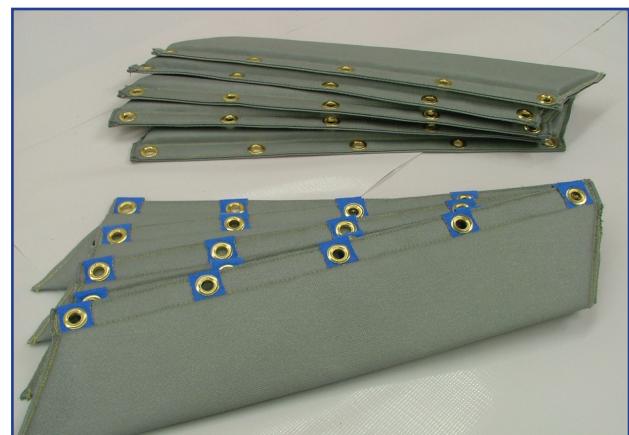




**LANCS  
INDUSTRIES**

# Radiation Shielding



A key element of any successful ALARA program is the selection and utilization of the proper shielding material. At Lancs Industries we manufacture a large selection of products for your temporary and permanent shielding needs.

Our expertise with a broad array of dose reduction challenges helps solve the difficult shielding situations a Radiation Protection Manager or Technician will encounter. From emergent radiological issues to large scale refueling outages, we can recommend and custom manufacture the best shielding solution for your specific needs.

As the largest manufacturer of lead blankets worldwide Lancs offers you great prices with unmatched turnaround times. Our lead blankets are constructed with lead wool or lead plate. Lancs uses lead wool products in accordance with Federal Specification QQ-C-40 Type II Grade C. We compact this interlaced wool in a random orientation to ensure consistent attenuation without streaming. Our lead sheet and plate meets Federal Specification QQ-L-201 See below for our standard densities and dose rate reductions for our lead blankets.

Lead Wool	Approx. Finished	Lead Sheet	% Dose Rate
Density (lb / sq ft)	Blanket Thickness (in)	Equivalent Thickness (in)	Reduction (60 Co)
10	3/8	1/8	20%
12.5	1/2	5/32	23%
15	5/8	3/16	26%
20	3/4	1/4	31%

Options for standard-temperature covering materials include PVC Laminate and Polyurethane Laminate. For high-temperature applications we offer Silicone-Impregnated Fiberglass (Alpha Maritex, for temperatures up to 500°F) and Kevlar.

## CUSTOM SHIELDING

While we manufacture and stock standard sizes of blankets, Lancs can also create any custom configuration you may need for your project. Whether you need the half-round shielding for your Steam Generator Replacement Project, gore shielding for your Pressurizer Surge Line, or lead wool snakes and annulus shielding for your Dry Cask operations, Lancs makes it all.



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# Radiation Shielding



## ADDITIONAL SHIELDING MATERIALS

Other Lancs radiation shielding products include: Water Shields, Bulk Lead Wool, Lead Bricks, and Tungsten/Silicone Shielding. Our Water Shields are constructed from aluminum, making them light weight and corrosion resistant. Their convex/concave design permits nested interlocking for flexible shielding wall configurations. Lancs Lead Wool is offered in bulk packs of 25 or 50 lbs. The Lead Bricks we manufacture are available in various sizes and thicknesses with a range of different covering materials. Please inquire for more details about our Tungsten/Silicone material offerings.

## HANGING ACCESSORIES

To help you quickly deploy your shielding we offer a full range of Racks, S-Hooks, and Cinch Straps. Our standard Wheeled Rack (LI-261) is a 3'x 6' rack with a staggered design to allow for a continuous wall of shielding with no streaming between the racks. Lancs S-Hooks come in carbon or stainless steel in a variety of sizes with enough room for multiple grommets. Our Cinch Straps are manufactured from 1" webbing with D-rings and are useful for securing your shielding to piping and components. Cinch Straps are available in a variety of lengths/ colors and can also be permanently sewn into your blanket. As with most Lancs products, we can provide you a customized product solution in terms of size, configuration or accessories which meets the particular demands of your facility or project.

Whatever your radiation shielding needs we have the right tools to help you complete your project on-time and on-budget.

To discuss your radiation shielding needs, contact your Lancs regional sales representative at one of our offices listed below, or call our headquarters at 425.823.6634.

