



Flexible Lead-Free Radiation 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 enhances worker safety and is cost effective.

Product Types

We provide the complete line of shielding solutions for your radiation dose reduction needs. Product offerings include:

- 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.

Product Benefits

- Compliant with nuclear industry smoke development, flame spread, and critical radiant flux measurement standards
- Non-hazardous materials significantly reduce disposal costs
- All materials demonstrated to meet acceptable analysis specified within Regulatory Guide 1.36

Attenuating Material Types

No other supplier offers more options for your shielding needs. Material offerings include:

- Tungsten Silicone
- Bismuth Silicone
- Iron Silicone

Attenuation of 1.25 MeV Co-60 provided by Lancs Flexible Shielding						
Shielding Thickness (inches)						
SHIELDING MATERIAL	1/2"	1"	1-1/2"	2"	2-1/2"	3"
Tungsten	40%	64%	79%	87%	92%	95%
Bismuth	29%	49%	64%	74%	82%	87%
Iron	17%	31%	43%	53%	61%	68%

Thickness of Lancs Flexible Shielding required to attenuate 1.25MeV Co-60 to a Half value layer (HVL) and Tenth value layer (TVL)		
Shielding Thickness (inches)		
SHIELDING MATERIAL	Half value thickness (inches)	Tenth value thickness (inches)
Tungsten	0.80	2.40
Bismuth	1.10	3.25
Iron	2.10	6.25

When Seismic or Stress Calculations limit the shielding weight choose Lancs Industries Flexible Shielding. With custom designed Mass Attenuation Coefficients (μ_p) up to 0.0585 for 1.25 MeV Gamma Lancs' Flexible Shielding is the ALARA answer.

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PIPE WRAPS



- A highly flexible shielding solution which can be quickly installed in hard to reach radiation-emitting areas or hot spots
- Standard sizes are 2", 3" and 4" wide in 8' or 15' lengths but can also be produced in custom widths and lengths
- Standard size designed for QVL (Co-60)

PIPE SHIELDS



- Pipe shields are sized and formed to shield radiation from piping while meeting standard weight constraints
- Designed to slip on, encase and snap tightly around pipes
- Available in both standard and custom sizes and lengths
- Designed to prevent streaming

FLOOR SHIELDING



- Floor shields improve radiological and industrial safety in moderate to high traffic work areas
- Made with maximum shielding to provide maximum attenuation
- Can be made with traction tread

BLANKETS



- Bulk shields used for larger areas of radiation, produced in standard sizes such as 1'x2', 1'x3', 1'x4', 1'x5', 1'x6', and 2'x3'
- 5, 10, 15 and 20 lbs/ft²
- Custom sizes are available
- Grommets are placed directly into material and rated at 270 lbs of pull force per grommet