

Radiation Shielding Foils and Sheets Made of Lead

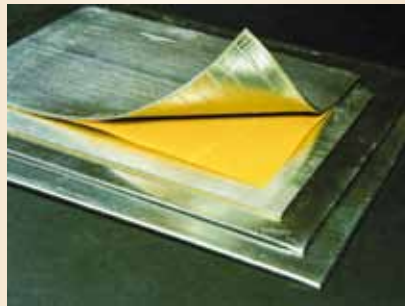
Shielding foils and sheets are available in various sizes for lining rooms, protection walls and equipment. Alternatively, foils and sheets can be provided with a radiation resistant adhesive layer. The surface is non-corrosive. The lead thickness is determined in accordance with shielding regulations and health physics.

All price offers will always be given with reference to the latest lead quote at the LME (London Metal Exchange / www.lme.co.uk).

Self-adhesive shielding sheets and foils (type SK 666)

These foils offer a flexible solution for shielding rooms and equipment. They can be applied directly to gypsum boards, the adhesive layer is provided on one side.

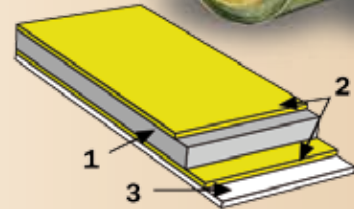
- Fields of application:
Where existing shielded walls have been constructed using gypsum plaster board it becomes very cost effective to apply additional layers of sheet or foil to increase the shielding of existing walls.
 - Standard thicknesses: 0.5 mm, 1 mm, 1.5 mm, 2 mm (others on request)
 - Standard width: 1000 mm (others on request)
 - Standard length: 0,5 mm = 10 m / 1,0 mm = 5 m / 1,5 mm = 4 m / 2,0 mm = 2,5 m
- Various lead thicknesses can be achieved by superimposing.



Build-up



Shipping on rolls



Build-up

- 1 Radiation protection core of lead
- 2 Corrosion resistant tin cladding
- 3 Self-adhesive coating

Application steps:



Cutting into lengths



Adhesion



Rolling on



Positioning the board and fastening with screws

Shielding sheets Pb 99,94Cu (both sides tin-coated)

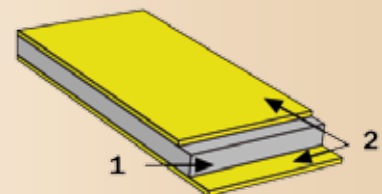
As these foils have a surface tin coating on both sides these foils and sheets can be processed without lead contact (lead core encased). The tin coating is corrosion resistant and can be processed with most contact adhesives.

- Fields of application:
Veneered doors, ceilings and floor linings, shielding of hollow and wall outlets.
- Standard thickness: 0.5 mm, 1 mm, 1.5 mm (others on request)
- Standard width: 1000 mm (others on request)

Various lead thicknesses can be achieved by superimposing.



pallet packing



Build-up

- 1 Radiation protection core of lead
- 2 Corrosion resistant tin cladding

Lead Vinyl and Lead-free Vinyl in Rolls

Flexible lead and lead-free vinyl radiation protection sheeting is a safe and effective medium for protecting people against the harmful effects of radiation emissions. The product range includes lead equivalent values of 0.125mm, 0.167mm, 0.175mm, 0.25mm, 0.35mm, 0.50mm, 0.70mm and 1.00mm depending on the level of protection required. These may be stitched or bonded together in multi-layer construction to offer higher protective values.

Applications

Flexible lead and lead-free vinyl sheeting forms the basic radiation shielding element used in a number of protective garments and products supplied via converters and distributors to the Medical, Dental, Veterinary, Nuclear and X-ray Scanning Equipment industries.

- **Unskinned**
 - X-ray Aprons
 - Gloves & Accessories
 - Radiation Blankets
 - Protective Barriers
- **Skinned**
 - X-ray Aprons
 - Theatre Room Table Covers
 - Strip Curtains
 - Room/Building Isolation
- **Reinforced**
 - X-ray Scanning Machines (Airports)
 - Curtains & Screens (Enclosures)
 - Radiation Blankets (Nuclear)
 - Noise Barrier

Composition

Radiation Protection Materials (depending on the exact grade) are composed of PVC polymer, plasticisers, finely divided lead/lead-free metal particles and pigments. The unique manufacturing process involves a multi-layer construction that produces a homogenous sheet. This ensures an even distribution of the specially graded pure lead particles within the vinyl binder and therefore a consistent level of protection throughout the sheeting.



Protective Values & Standard measurements

Unskinned

type	Standard Widths	Standard Roll Length
0,125/0,167 mm Standard	1220 mm	20 m
0,175/0,25 mm Standard	1220 mm	15 m
0,125/0,167 mm Lightweight	1220 mm	20 m
0,175/0,25 mm Lightweight	1220 mm	15 m
0,500 mm Lightweight	1220 mm	10 m
0,125/0,167 mm Superlight	1220 mm	20 m
0,175/0,25 mm Superlight	1220 mm	15 m
0,125/0,167 mm Lead-free	1220 mm	20 m
0,175/0,25 mm Lead-free	1220 mm	15 m

Skinned and Polyester Reinforced

type	Standard Widths	Standard Roll Length
<i>Skinned</i>		
0,25 mm Standard	600..1000 mm	20 m
0,35 mm Standard	600..1000 mm	15 m
0,50 mm Standard	600..1000 mm	12 m
0,70 mm Standard	600..1000 mm	10 m
1,00 mm Standard	600..1000 mm	5 m
<i>Reinforced</i>		
0,275 mm Standard	600..1200 mm	10 m
0,400 mm Standard	600..1200 mm	10 m
0,450 mm Standard	600..1200 mm	10 m

Minimum volumes per order for some of the products to be considered. Unless minimum volumes are reached by one customer we usually offer to combine smaller volumes of different customer orders and ship out once the minimum production level is reached.

Further technical data like material thickness, tensile strengths, tear strength and elongation at break may be given on customer's request.

Other sizes (length and width) also possible on customer's demand.

We also supply flexible lead vinyl sheets in several sizes.

Surface covering materials for X-ray protection clothing

Customers of our Lead vinyl sheeting (unskinned) have the option to order also our surface covering materials for the production of their own protective clothing. Please ask for our "PRIMAX artificial leather for clothing" which is available in many colours and produced in rolls of 100 m length and 1,50 m width (special sizes on request).