

Technical Products

Lead Engineering

Construction

Radiation Protection and Soundproofing



SOLUTIONS FOR PEOPLE AND TECHNOLOGY



Lead was already recognised by Wilhelm Konrad Röntgen, who discovered X-rays and recognised lead as an ideal material for radiation protection. Even today, lead is still the most cost-effective method of shielding against radiation – particularly against X-rays and gamma rays.

The high atomic number, the consequent high density and the fact that lead cannot be activated by neutrons are three essential properties of this material.

Further advantages are: Good workability, low price in relation to materials with equivalent screening effect and a high recycling potential.

Röhr + Stolberg GmbH has for decades been a leading manufacturer of the lead products which are perfect for radiation protection and soundproofing. Our continuous inspection systems underpinned by our certified quality management procedures provides guaranteed high technical standards for our products, and compliance with the underlying standards and the requirements of specific customer needs. We have a wide range of modern extrusion presses, mould and die-casting machines. We also manufacture all our own tools and have a diverse mechanical processing equipment. We can offer bespoke radiation protection solutions to meet your exact requirements.



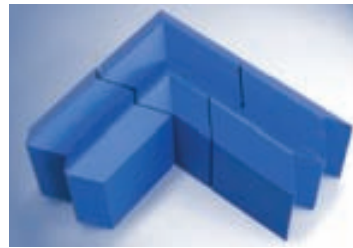
DIN EN ISO 9001 2000
ISO TS 16949 2002
Zertifizierung

ISO TS 16949 for the
scope of production and
distribution of
battery eliminator for
lead accumulator

*To ensure the lasting
quality of our products,
we are DIN EN ISO 9001 and
DIN ISO TS16949 certified.*

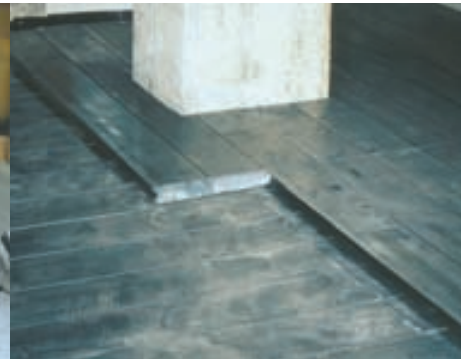
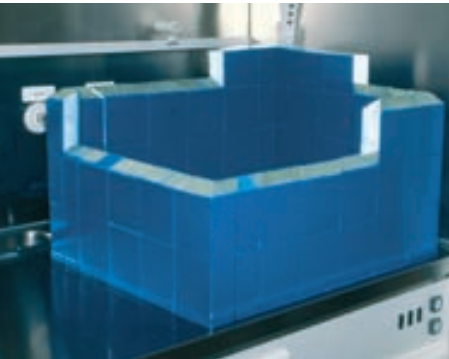
LEAD BRICKS

For building walls, roofs and floors. Lead bricks are now included in DIN EN 25407.



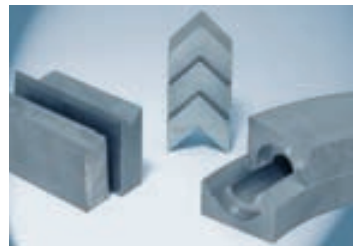
lead bricks

PRODUCTS OF RADIATION PROTECTION



LEAD PROFILES

An alternative to lead building blocks is the use of prismatic toothed profiles. Using this system, shielding can be built-up in different thicknesses.



lead profiles

LEAD SHEETS/ROLLED LEAD BLANKS

Mainly used for laying in floors and roofs. If necessary in construction, the specified radiation protection (overall thickness) can be satisfied by laying filling for joins.



*lead sheets/
rolled lead blanks*

LEAD WOOL

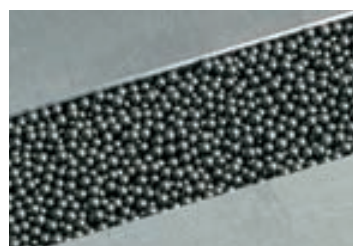
Lead wool as a material is ideal for use in the manufacture of our flexible radiation protection mats and as shielding for areas which are difficult to access.



lead wool

LEAD SHOT

This material is most suitable for cold filling of shielding containers. A specific weight of approx. 6.6 kg/dm³ is required. Lead granulate "S" uses layered filling of 10 mm balls and fine pieces with a particle size of 0.4 - 0.8 mm to achieve a specific weight of 9.25 kg/dm³.



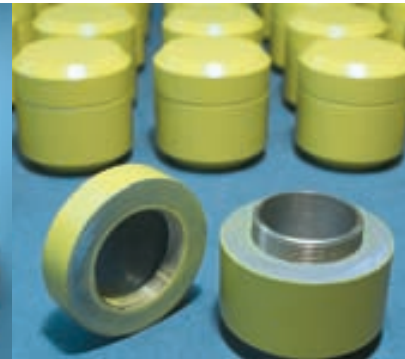
lead granulate

FLEXIBLE LEAD MATS

Suitable for producing mobile radiation protection walls because of their flexibility for enveloping defective pipes.



flexible lead mats



SINKS

As a counterpart for cold filling, the product we manufacture is virtually free of cavities. We can produce items of practically any weight.



sinks

CASTINGS

Produced according to customer specifications. If you wish, we can carry out mechanical processing after production.



end product

EXTRUSION PRESSED PARTS

Used for the screening of X-ray equipment and associated equipment, extruded lead ensures good the density of the material to meet the standards.



extrusion pressed parts

CUSTOM-MADE PRODUCTS

In order to meet any specific radiation protection requirements, we operate a modern toolmaking facility and innovative manufacturing systems.



diposal receptable

LEAD CONTAINERS

For the transport and storage of radioactive materials. This covers both containers for nuclear medicine and for disposal of radioactive waste from nuclear installations.

LEAD – PHYSICAL PROPERTIES

density at 20 °C: 11.336 kg/dm³

melting point: 326 °C - 327 °C

hardness: 4HB 10/62,5/30

LEAD-ANTIMONY ALLOYS

| alloy | density |
|-------|---------|
| PbSb1 | 11,26 |
| PbSb2 | 11,18 |
| PbSb4 | 11,03 |
| PbSb6 | 10,88 |

**DEFORMATION PROCESS**

squeeze

rolling

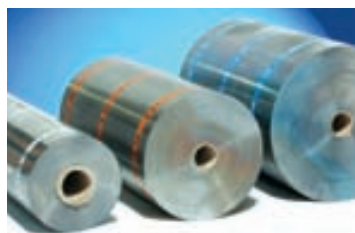
stamping products

hand casting

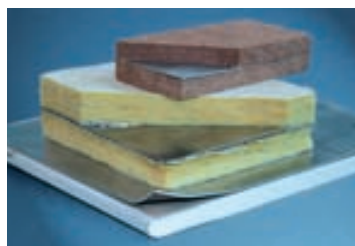
pressure casting

SOLUTIONS FOR EFFECTIVE RADIATION PROTECTION

pipe shielding



lead roll products



laminated lead plate products



self-adhesive lead strips

SOUNDPROOFING

The ever increasing problem of noise pollution requires effective soundproofing. Lead is an ideal material for this application because of its high density.

ROLL AND PLATE PRODUCTS

Rolled lead in various thicknesses is used in roll and plate form to meet specific radiation protection and soundproofing requirements. A very wide range of building materials, including plasterboard, mineral wool, wood and steel can be lined with lead during manufacture or on site.

SELF-ADHESIVE LEAD STRIPS

In addition to these products we produce self-adhesive lead strips of various thicknesses for covering joints.



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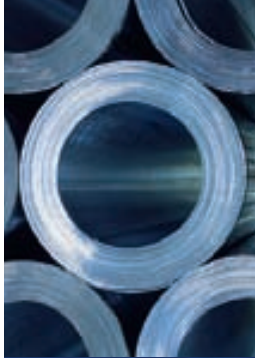
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CONSTRUCTION



TECHNICAL PRODUCTS



LEAD ENGINEERING