

Specification — Lead Brick

Lead bricks are designed for heavy lead wall and ceiling shielding protection and can be obtained as interlocking or rectangular brick in a variety of lead thickness levels.

Lead Brick

GENERAL:

Lead shielding represents a practical approach to the need for protection from X-Ray radiation. Its uniform density, high atomic number, level of stability, ease of fabrication, high degree of flexibility in application and its availability at reasonable cost are principal factors.

Interlocking lead brick is available in thicknesses from 1" to 2-1/2" and in sizes designed to make lifting individual bricks relatively easy (20 to 50 pounds each). Brick is designed to interlock at all surfaces, with a female shape on the bottom and one end and a male shape on the top and other end. Each brick plugs into the adjacent one, thereby assuring no straight-line leakage is possible.

At the edges of the brick areas, the outside surface of the brick is cut at 90 degrees to the face, assuring a tight fit where the containment occurs.

Brick is installed next to structural objects such as a wall to give necessary shielding protection.

Adequate physical support is required when lead brick is applied to a vertical surface such as a wall or to a horizontal surface such as a ceiling.

PRODUCT DETAILS:

Lead brick by A&L Shielding meets Federal Specification No. QQ-L-201, Grade C or better and shall contain 99.9 percent pure lead, free from dross, oxide inclusions, laminations or scale blisters. The lead brick will be supplied in single or multiple layers to provide the total thickness shown on the drawings and specifications for this project.

EXECUTION:

Lead must be protected from public contact after installation for both environmental and health reasons. Lead brick is normally installed behind other materials and away from exposure to the public. Installers should be trained in the safe handling of lead and must observe proper techniques for installation and clean-up.

WASTE – Disposal of all scrap lead must be handled in an environmentally responsible manner. Consult the factory for information and assistance in any aspect of installation when this need arises.

General Properties of Sheet Lead

Color:	Bluish Gray
Atomic Number:	82
Weight:	709 lb. per cubic foot
Density:	1.35 grams per c.c.
Melting Point:	327.4° C/621° F

Sizes Available	Weight/Lbs.
4" x 12" x 1"	19.67
4" x 12" x 1-1/2"	29.50
4" x 8" x 2"	26.22
4" x 12" x 2-1/2"	49.17



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