

Lead Lining Solutions

Radiation
shielding
system.

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Lead Lining Solutions

Ideally suited for medical interior applications, Criterion offers a complete range of lead lamination solutions to shield rooms containing radiation equipment.

APPLICATIONS

+ Plasterboard

10mm or 13mm Impact plasterboard with lead bonded to rear of board with 20mm overlap to one long edge. Max. sheet size is 1200 x 3600mm.

+ Timber Doors

Manufactured with lead sheet sandwiched in the structure of door with either ply or MDF skins.



MATERIAL HANDLING GUIDE

Installation

- Fixing Boards are fixed to studs with standard wallboard fixing screws at maximum 400mm centres.
- Penetrations for power points and switches must be backed with lead sheet lining to a coverage of approximately 100mm around all edges, to prevent radiation leakage.
- To determine lead thickness and application requirements, follow the specified recommendations set out by the manufacturer of the radiation equipment.
- Where sheets with exposed lead are fixed to zinc treated steel studs, they must be taped with PVC duct tape or similar before fixing sheeting.

Safety Issues

Our shielding solutions are manufactured using lead components. Lead is laminated to the products and must be handled correctly in order to prevent health issues on site.

Weight Considerations

Any product heavier than standard building materials requires careful movement and management. The accompanying data sheets provide indicative weights for various types of standard shielding materials, according to their respective lead gauge.

Maximum Sheet Size

Length 3600mm, Width 1200mm
20mm overlap to one long edge

Handling of Lead

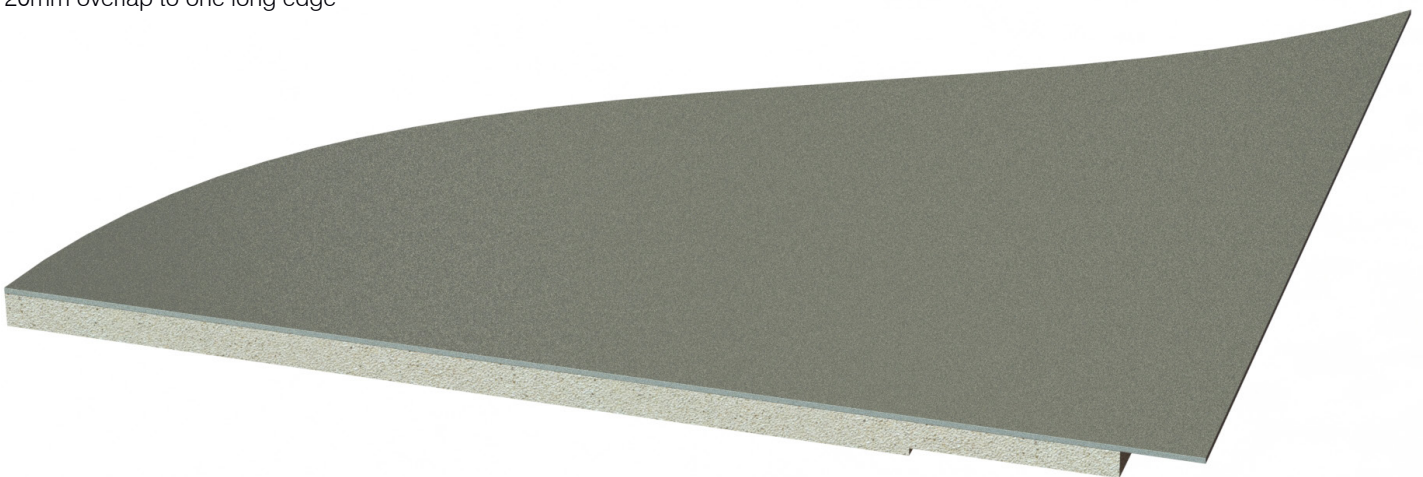
Avoid contact between bare skin and lead sheet. Any personnel installing lead shielding panels must wear long sleeve shirts and gloves. Throughout extensive handling of exposed lead, it is advised that personnel change clothes before leaving the site, and that clothes with possible lead contamination are washed separately. Hand washing is essential at the completion of a working period and always before eating. Use an appropriate, heavy metal hand soap when cleaning at the completion of any handling period.

Cutting of Sheets

Avoid abrasive cutters whenever sheets are to be cut on site. Wood substrates can be cut with standard power saws; use care to avoid the particles and residue of lead debris from saw cutting. Fibre cement or gypsum panels should be cut with power shears, diamond blades, or by first scoring the substrate and breaking it over an edge. The lead can then be cut with a heavy duty Stanley knife

Lead Weight

Weight (kg per square metre)	Thickness (mm)
10	0.88
15	1.32
20	1.76
25	2.20





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Looking to discover more?

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