



**ULTRARAY**  
RADIATION PROTECTION

## Shielding Materials & Fixtures

Supply, manufacture, installation  
and consulting for all radiation protection applications.

SHEET LEAD

LEAD BRICKS

LEAD LINED DRYWALL & PLYWOOD

LEAD CURTAINS

LEAD LINED DOORS & WINDOWS

LEAD GLASS | SWITCHABLE LEAD GLASS | LEAD ACRYLIC

HIGH DENSITY CONCRETE

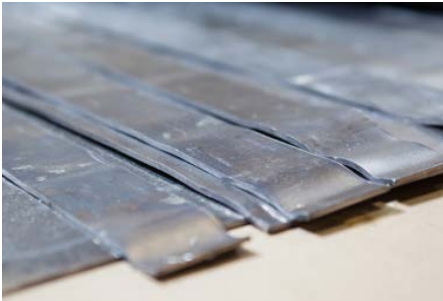
BORATED POLYTHELENE

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1.877.338.6857

[www.ultraray.com](http://www.ultraray.com)

# Shielding Materials & Fixtures



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## Sheet Lead

Density | Malleability | Resistant to Corrosion

Ultraray Radiation Protection provides Sheet Lead in a great variety of sizes, shapes and thicknesses. With purity of 99.5% and higher, our Sheet Lead is the best material of choice in any design for X-Ray or gamma ray shielding. Its high malleability, density and consistency offer easy shaping of the material, and also provides maximum protection with minimum thickness to suit your application.

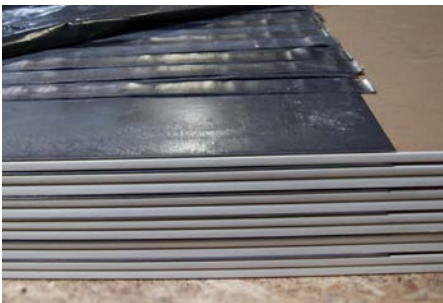


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## Lead Bricks

Chevron (interlocking) | Flat (straight) | Circular (interlocking)

Ultraray Radiation Protection produces lead bricks in a variety of sizes, shapes, thicknesses and styles to suit all requirements. Depending on the application and tolerances of your project we offer a cast or extruded lead brick with limitless design options thanks to in-house CNC machining. Our lead bricks are manufactured from 99.5% pure lead or higher. However, any level of antimony can be introduced to achieve greater hardness when required.



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## Lead Lined Drywall & Plywood

Delivery and Installation

Ultraray provides standard 1/2" or 5/8" drywall adhesive bonded to lead of desired thickness to suit our client's needs. We also offer specialty drywall options: Fire-rated, Mold/Moisture-resistant, and/or Impact-resistant boards. When the lead shielding exceeds 1/8" in thickness, Lead Lined Plywood becomes more suitable to accommodate the extra weight and provide architectural support. A variety of plywood options, including fire-treated, is available.



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## Lead Curtains

Custom made to match your needs

Ultraray Radiation Protection produces protective Lead Curtains and Blankets for various applications. Tailored to our client's specifications, we offer several options for your needs.

Available in many colours in both nylon or waterproof vinyl-covered, Lead Curtains and Blankets offer protection levels from 0.5mm to 2.0mm lead equivalency.

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## Lead Lined Doors

Hollow Metal | Metal Fire-Rated | Fire Treated Wood Veneer | Solid Core Veneer

Ultraray can customize all doors and frames to meet client specification with multiple options, while offering the best protection available. Our doors can be tailored for X-Ray, Gamma, PET/CT and any other nuclear application including motorized for NDT/NDE, Linear Accelerator and heavy weight applications.



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## Lead Lined Windows

Knock Down Frames | Welded Frames

Ultraray's Lead Lined Frames are also essential in radiation protection. Our lead lined hollow metal frames are constructed with 16 or 18 gauge steel lined with sheet lead to match the wall, providing a continuous, leak-free protection throughout the room.



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## Lead Glass

Optically Clear | 18 and 16 Gauge Available | Telescopic or Welded

Ultraray Radiation Protection supplies Leaded X-Ray Glass and Frames for viewing windows, control booths and mobile shields. Our Lead Glass is the industry choice due to its high grade optical material, visual clarity, greater scratch resistance and strength without compromising lead equivalency. Absolute transparency allows observation of the room as it provides full protection against radiation.



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## Switchable Lead Glass

An array of switching options are available

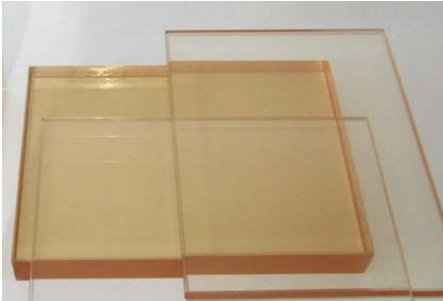
Provides instant switchable privacy for an opaque, milky white, laminated panel to become transparent with the application of an electrical current to an embedded layer of liquid crystal particles.

Switching options available from a basic single-pole/single throw switch to advanced integration into custom automation systems.



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## Lead Acrylic

State-of-the-art-in-house Machining

Ultraray Radiation Protection offers shatter resistant lead acrylic plastic in six thicknesses/lead equivalencies (lead equivalency range from 0.3mm to 2.0mm)

Lead acrylic provides excellent light transmission with effective radiation protection. Additionally it is easy and safe to cut, drill, and machine.



## High Density Concrete

Chevron (interlocking) | Flat (straight)

Ultraray Radiation Protection's High Density (HD) Concrete is an ideal choice of material for radiation shielding in various settings utilizing half the space of traditional concrete structure would, while providing twice the density. Its versatility in both application and usability matches conventional concrete, yet it provides a more effective shield for both neutron and gamma radiation.



## Borated Polyethylene

1% (Grade II, yellow) | 2% (Grade III, red) or 5% (Industrial Grade, purple or green)

Ultraray Radiation Protection's Borated Polyethylene is an effective neutron shielding material widely used in medical, nuclear and industrial conditions. Consistent in density and homogeneity, its ability to attenuate and absorb neutron radiation has made it an attractive polymer of choice in a variety of applications.

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