



## **Arcoplast lead lined Panelling**

Radiation shielding embedded in the Arcoplast gel coated fiberglass reinforced polymer (GFRP) panels are particularly well suited for Healthcare, Animal Care and Medical Industries. Applications for Imaging facilities, X Ray, CT Scan and PET Scan can be designed and constructed, with ease and security, with minimum exposure to lead.

Arcoplast GFRP wall and ceiling liner panels, and dividing partitions, eliminate lead hazards with fully integrated lead shield plates, ensuring a safe working environment for humans and animals in high containment facilities and research laboratories.

Arcoplast manufacturing processes easily incorporates lead shielding plates of variable thickness and dimensions to suit user requirements. The final product is a fully fused and homogenous panel make-up, encapsulating the lead sheets that cannot leech out and contaminate the laboratory space.

The Arcoplast lead shielded panel's extreme performance is due to the unique construction process. The Arcoplast panel is not a laminated construction, the construction of the panel consists of a wetting out glass fiber and resin systems, in multiple applications, to meet specific thickness, physical and mechanical strength. During this assembly process, the specified lead sheets are incorporated in the panel make-up, and the entire panel in the exotherm process, fuses the glass fiber mats, fire rated resin and the lead sheeting.

The entire crafted process results in a very smooth, non-porous, high gloss gel coat surface, with a solid glass and resin matrix, fully encapsulated lead shield panel that is permanently sealed and will provide the security and protection for the occupants and environments for the entire duration of the laboratory.

Through the engineering advances in composite manufacturing, the lead shielded panels can now be handled safely, and the on-site installation methodology greatly simplify the constructability of high containment laboratories with specific radiation requirements, providing a lifetime, high performance wall and ceiling systems.