

# Technical Specification

## Leadlined plasterboard

### Leadlined Plasterboard

Mainly used in the construction of X-ray rooms in Hospitals and other types of diagnostic imaging rooms, leadlined plasterboard provides peace of mind.

A single layer provides protection for standalone facilities and for builds consisting of adjacent multiple X-ray rooms the dividing partition will require additional radiation shielding boards and applied to both sides of the stud framework. However, we advise that for every application an approved Radiation Protection Advisor (RPA) is consulted to ensure the appropriate thickness of lead is specified for sufficient protection.

A continuous barrier is paramount to the protection of operators, and upon fixing the bonded panels to steel or timber stud framework, a 50mm lead strip is required.

The lead has at least 99.77 % purity and is factory bonded by ourselves to our unique MegaExcel plasterboard, using a strong two part PUR adhesive. MegaExcel is used due to its high strength, fire resistant and handling durability properties.

### Fixing recommendations

We recommend leadlined plasterboard is fixed using steel studs with 32mm drywall screws at 300mm horizontal centres. Vertical studs are 600mm at centres so there is a vertical joint over every stud. This joint must have a vertical lead strip of 50mm width applied plus any horizontal joints, service penetrations and door jambs.

### Health & Safety

Lead is a toxic substance, even when applied between two pieces of plasterboard and must be handled and fixed by operatives trained to handle such substances.

If the boards are 2200mm in length, a two person crew is required for lifting and carrying to the place of fixture. Lead shielding has to be applied to a specific height depending on the type of equipment and we recommend that you seek independent advice from an approved Radiation Protection Advisor (RPA)

### Specifications

|                            | Length   | Width | Thickness            | Weight /m2 |
|----------------------------|--|-------|----------------------|------------|
| Lead Sheet                 | 1100mm   | 595mm | 3.15mm               | Laminated  |
| MegaExcel                  | 1100mm   | 595mm | 15mm                 | 48.7kg     |
| Compliance and Regulations |  |       |                      |            |
| Lead Sheet                 | BS EN 12588:2006   |       | ASTM B749 -03        |            |
| MegaExcel                  | BS EN 520 Type D,F,I,R   |       | ASTM C 1396 – Type X |            |
| Face Colour                | Yellow   |       |                      |            |
| Edging                     | One Bound edge and one cut edge<br>(When sizing 595mm from 1200mm sheet) |       |                      |            |