

CASE STUDY

MIDLAND LEAD DELIVERS RADIATION SHIELDING SOLUTIONS FOR BON SECOURS HOSPITAL



MIDLAND LEAD SUPPLIED HIGH-PERFORMANCE LEAD LINED PLASTERBOARDS AND LEAD STRIPS FOR THE CONSTRUCTION OF THE NEW DIAGNOSTIC IMAGING DEPARTMENT AT BON SECOURS HOSPITAL, LIMERICK.

THE PRODUCTS WERE SUPPLIED THROUGH MIDLAND LEAD'S TECHNICAL AND DISTRIBUTION PARTNER, TRADECRAFT BUILDING PRODUCTS, AND EXPERTLY INSTALLED BY SPECIALIST TURNKEY CONTRACTOR, THE CASTLE GROUP.

The project required reliable, compliant radiation shielding materials capable of meeting the demanding performance standards expected within modern healthcare environments. Midland Lead's proven shielding solutions provided the necessary protection while supporting efficient installation and long-term durability.

SUPPORTING ADVANCED HEALTHCARE INFRASTRUCTURE

The new Diagnostic Imaging Department represents a significant investment in advanced healthcare for the region. In partnership with Alliance Medical, one of Europe's leading diagnostic imaging providers, the department delivers a comprehensive range of imaging services including CT, MRI, Digital X-ray, Ultrasound, DEXA, Mammography and PET-CT.

These advanced imaging technologies enable clinicians to diagnose conditions earlier, develop more effective treatment plans and deliver faster, more accurate patient care. As diagnostic equipment continues to evolve, the importance of robust, fully compliant radiation shielding becomes increasingly critical to protect patients, clinicians and adjacent occupied areas.

THE MIDLAND LEAD SOLUTION

Midland Lead's radiation shielding systems were specified to provide continuous protection throughout the imaging suites.

LEAD LINED PLASTERBOARDS

Manufactured using high-quality lead bonded to plasterboard, Midland Lead's Lead Lined Boards provide an efficient solution for constructing radiation-shielded walls.

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Available in a range of lead thicknesses to suit project-specific shielding calculations, the boards are manufactured to precise tolerances, ensuring consistent quality and dependable performance.

The system offers:

- Reliable X-ray radiation shielding.
- Accurate lead equivalency to meet project specifications.
- Fast and efficient installation using conventional drylining techniques.
- High manufacturing quality for consistent performance across every board.
- Compatibility with standard partition systems.

LEAD STRIPS

To maintain continuous shielding integrity, lead jointing strips were installed behind every vertical and horizontal board joint. Additional lead shielding was provided around all service penetrations, with lead collars, wraps, or infill pieces installed as required to ensure continuity of the radiation shielding and eliminate any potential leakage paths.

This work eliminates potential weak points within the partition system, ensuring uninterrupted radiation protection across the complete wall construction and helping the installation comply with shielding design requirements.

DELIVERING COMPLIANCE AND CONFIDENCE

Radiation shielding is only as effective as the products specified and the quality of their installation. By combining Midland Lead's specialist shielding products with The Castle Group's installation expertise and the technical and supply support provided by Tradecraft Building Products, the project delivered a robust, compliant shielding solution for a modern diagnostic imaging environment.

The completed installation provides long-term protection for healthcare professionals, patients and visitors while supporting the hospital's commitment to delivering safe, high-quality diagnostic services.

PROJECT SUMMARY

Project: Bon Secours Hospital – New Diagnostic Imaging Department

Location: Limerick, Republic of Ireland

Manufacturer: Midland Lead

Products Supplied:

- 860 Lead Lined Plasterboards
- 6,500 kg of Lead Jointing Strips

Distribution & Technical Support: Tradecraft Building Products

Installation Contractor: The Castle Group