**Benefits**

- Lead-free X-ray radiation protection
- As easy to install and joint as standard plasterboard
- Eliminates the need for complex installation procedures usually associated with installing lead-based lining solutions
- Enhances other important performance requirements such as noise control and fire ratings

**GIB X-BLOCK®** system is a unique lead-free plasterboard and jointing compound designed for X-ray radiation protection. The lead-free plasterboard contains barium sulphate which forms an effective barrier against X-ray radiation. The jointing compound used on the GIB X-Block plasterboard is designed to give lead equivalent joints on walls and ceilings and it provides a uniform X-ray radiation barrier.

The GIB X-Block system also offers high sound insulation performance.

<table>
<thead>
<tr>
<th><strong>Product Information</strong></th>
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<tr>
<td><strong>SHEET SIZE</strong></td>
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<td>12</td>
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**FIRE HAZARD PROPERTIES**

- Group 1 material according to the requirements of BCA Section C1.10
- Average Specific Extinction Area < 250 m²/kg as required by BCA Specification C1.10a, Clause 3(c)

**COMBUSTIBILITY**

- Classified as non-combustible according to the BCA Section C1.12

**VOLATILE ORGANIC COMPOUNDS**

- Less than 0.5mg/m²TVOC

*Weights indicated are nominal

**Application**

The GIB X-Block system consisting of GIB X-Block plasterboard and jointing compound has been designed to provide X-ray radiation protection in X-ray diagnostic rooms within medical facilities, dental clinics and veterinary clinics. The main applications for this system are walls and operator barriers, but it may also be used as a ceiling lining.
**Performance**

**X-Ray Resistant**
Lead-free plasterboard and jointing compound designed for X-ray radiation protection.

**Fire**
 Gib X-Block has been fire tested in accordance with Australian Standard 1530.4 Methods for fire tests on building materials, components and structures.

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**X-Ray Resistant**

X-ray shielding requirements are typically specified as a thickness of lead. The lead equivalence of Gib X-Block systems depends upon the radiation energy level. Refer to Table 1 for the lead equivalence of Gib X-Block systems at various X-ray energy levels. Always seek advice from a Health Physicist to ensure that the requirements for radiation shielding are met.

**Fire**

Gib X-Block systems have been designed to meet the performance requirements of the BCA Volume 1, Fire Resistance section and Volume 2 Fire Safety section.

All fire rated plasterboard systems in the technical literature have been independently tested or assessed by qualified fire engineers.

Refer to the latest Knauf Technical Manual on the website for further radiation test results, systems, installation and construction details.

**Installation**

Gib X-Block is installed using the 'Fastener Only Method'.

Gib X-Block compound must be used:

- In the gap between the sheets
- To fill the recessed joints on every layer
- As the bedding coat with paper tape and as the second coat for the face layer
- To fill any other gaps and to cover all face layer fastener heads

Never joint sheets with fire sealant.
**X-Ray Resistance Energy Levels**

X-ray radiation is measured in kilovolts peak (kVp). Depending on the type of radiation equipment used in the room, diagnostic facilities will have different requirements for shielding:

- CT 120-140 kVp
- General radiographic rooms 60-90 kVp
- Dental 60-80 kVp
- Mammography 25-35 kVp

**Warranty**

Knauf's products are guaranteed by a 10 Year Warranty. Visit knaufplasterboard.com.au for details.

**Technical Advice**

For technical advice, please call Knauf technical services on 1300 724 505.