



NEWLIFE
NEW MATERIAL

radbar®

0%
LEAD

50%
WEIGHT

200%
FASTER

radbar® WALL PANEL

Lead Free X-Ray Shielding Panel

radbar panels are composed of flame-retardant polymer materials combined with rare-earth-based shielding components. it widely used in the construction of various radiation protection facilities, including medical imaging rooms and radiation therapy rooms, operation areas and laboratories in the nuclear industry, industrial Non Destructive Testing (NDT) and scientific research institutions.



Lead-Free & Eco-Friendly

Utilizes rare-earth-based Lead Free shielding materials to replace traditional lead panels, offering excellent protection against X-rays, γ-rays and other rays.



Ultra-Lightweight

Weighs only about 50% of traditional barium sulfate boards per square meter, reducing structure load and costs.



Class A Fire Rated

Made of high-quality flame-retardant polymer material, meeting Class A fire safety standards.



Streamlined Structure & Fast Installation

Simplified two structural layers (base layer + shielding board) enables quick Installation by using eco-friendly adhesives or convenient hanging buckles.



Decorative Surface

Nano-polished surface with a refined texture, combine aesthetics with easy cleaning.

Standard Decorative Finishes



Dark Walnut Wood Grain



Light Walnut Wood Grain

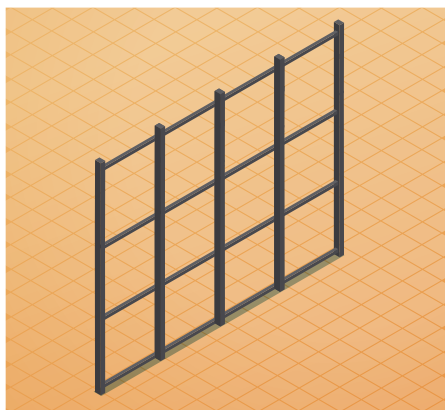


Light Oak Grain

Specification

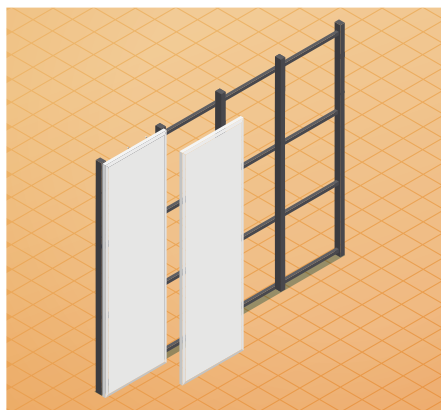
Part No.	Size (mm)	Lead Equivalent (mmPb)	Sheet weight (kg/sheet)	Unit Weight (kg/m²)
NFPb200-1	2440X1220X6	2	77	25
NFPb200-2	2440X1220X10	2	110	37

Construction Method



Step 1: To Install Rectangular Pipes

- 1 Install a 40 x 60mm rectangular tube longitudinally every 400mm.
- 2 Install corner codes every 500mm vertically. Corner codes are used to fix and adjust the horizontal flatness of rectangular tubes.
- 3 Install the transverse rectangular pipe for installing the next step **radbar** panels.



Step 2: To Install **radbar** Panels

- 1 Bond panels to the rectangular tube with dry-hanging adhesive or other quick-drying adhesives.
- 2 Attach panels to the rectangular tubes so that all panels are at the same level.
- 3 Reinforce the transverse rectangular tubes at the top of the plate with self-tapping screws.

Comparison of Different X-Ray Shielding Methods

	radbar Panel		Barium Sulfate Panels	steel plate	Lead Sheet
Type	NFPb200-1	NFPb200-2			
Thickness	6mm	10mm	24~30mm	100mm	2mm
Pb-equivalence	2mmPb	2mmPb	2mmPb	2mmPb	2mmPb
Weight	25kg/m ²	37kg/m ²	70kg/m ²	785kg/m ²	25kg/m ²
Safety	non-toxic	non-toxic	non-toxic	non-toxic	toxic
Strength	good flexibility, anti-break		easy to break	easy to deform	easy to deform
Construction Process	one layer to composite		three layers to composite	extremely heavy	five layers to composite
Extra Surface Decoration	not required		required	required	required

Comparison of Different X-Ray Shielding Installation Structure



radbar Panel



Traditional Barium Sulfate Panel



Traditional Lead Protection System



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