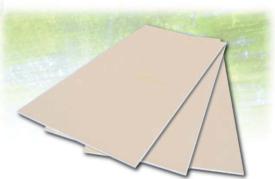


April 15, 2017 ITEM2017 Presentation

[Product Introduce]



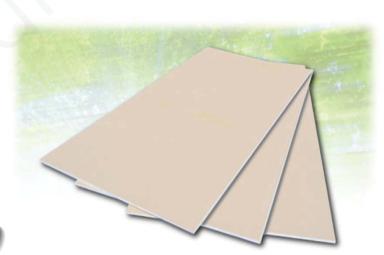


IKEN Engineering

Product Administration Center Shoho Shiraichi



Lead-Free Board Xp is a **UNLEADED**, Eco-Friendly X-ray shielding material.



Lead Free Board Xp



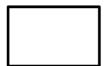
Lead Free Board Mp

Product	XP-075	XP-100		
Benchmark	Lead Equivalency	Lead Equivalency		
	0.75mm	1.00mm		
Thick	12.5 m m	15.0 m m		
Weight	About 30kg	About 40kg		
Size	910mm × 1,820mm			
Shape	Square			
Non-combustible Material #	Incombustible Material NM-3472			
Insulator	FP060NP-0349 (with insulator)			
Structure#	FP060NP-0351 (without insulator)			



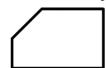
XEdge Shapes

First layer



Square Edge

Second layer



Bevel Edge

※Tested under 100kV machine

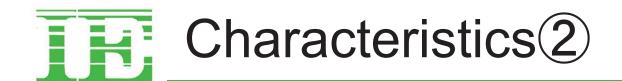


Lead-Free Board Xp uses **Barium** (BaSO4) as a shielding material, therefore, it is harmless for human body.

Usage of Barium

- Medicals (X-ray contrast medium)
- Ink, Paint, Ceramics, Resin, etc...
- Cosmetics (Foundation, Rouge, etc...)





◆Faster Construction

Weight per Board

Lead-Free Board Xp	Leaded Board
30 kg(t=12.5mm)	45kg(PB12.5+lead1.5)
40kg(t=15.0mm)	57kg(PB12.5+lead2.0)



Light, Fast



*Our construction technicians constructs **TWICE FASTER**.

Shorter Constructing Period





◆Does not require lead tapes

Just put corners or joints together



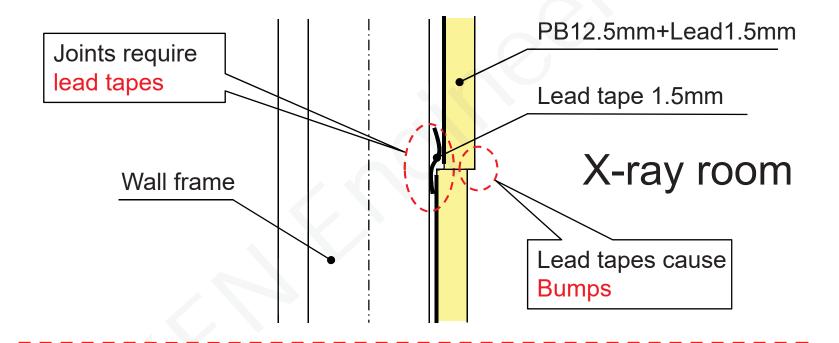


Joint

Corner



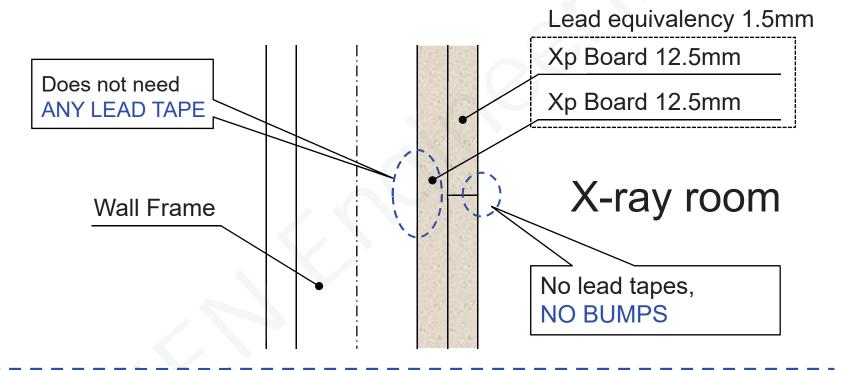
Leaded Board Case



Joints of boards require lead tapes behind them, and it causes uneven surfaces.



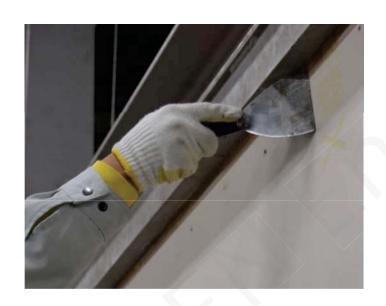
Lead Free Board Xp Case



Lead-Free Board Xp does NOT require lead tapes, so it makes its surface very even.



■ If there are gaps between boards, fill the Lead-Free Filling.



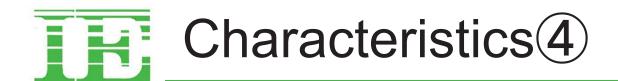




♦Lead-Free Board Xp allows wallpaper or paint with sealer done on its surface.







♦ Certifications by Minister

□ Certificated as NON-COMBUSTIBLE MATERIAL by Minister of Land, Infrastructure, Transport and Tourism

Certification #: NM-3472

*Leaded board is not an incombustible material

□ Certificated as 1 hr of FIRE RESISTANCE NON-LOADBEARING PARTITION by Minister of Land, Infrastructure, Transport and Tourism

Certification #: FP060NP-0349(without insulator)

Certification #: FP060NP-0351(with insulator)



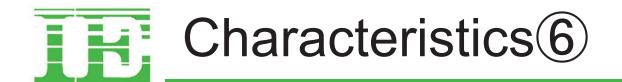
Helps reducing carbon dioxide emission

 \Box Leaded board(1.5mmPb) exhausts 72.0kg of CO² per board.

Roll extension of a lead block exhausts 72.0kg of CO² per board, and realistically lead boards exhaust the amount of CO² shown in the table below.

Lead-Free board Xp can avoid exhaust of CO² from roll extension of lead.

	Room type	Amount of leaded boards	CO ² emission (kg)	Note
CO ² emission examples	Dental X-ray	15	1,080	**Calculated by IKEN Engineering
	General X=ray	20	1,440	
	X-ray TV	35	2,520	
	X-ray CT	40	2,880	
	Angiogram	100	7,200	



Can be disposed as general construction material and is recyclable.





■ Stable Pricing

Barium, the main material of Lead-Free Board Xp, is very stable in price change, therefore, we are able to provide the boards with the same price for a long time.

XOfficial prices will be answered by our sales staffs.



Scope of Application

- ○General X-ray
- OX-ray TV
- OX-ray CT
- Angiography
- Mammography
- OC-Arm
- Dental X-ray
- Bone Density









*Apply shielding calculation when to design architecture plan



Achievement

- Since we started providing the board in 2006, a lot of medical facilities including national hospitals have chosen our board because of its eco-friendliness and easiness for installation.
- □ Chosen by <u>over 2,500</u> organizations









About us — Iken Engineering Co,. Ltd.

Consistent Quality Control ~Total Solution for X-ray Shielding~

Leaktech

We calculate the necessary thickness for the X-ray rooms.

Ho-shut

We install the Lead Free Board Xp.

Calculations

Installation

We provide safe and secure X-ray control.

Sales of X-ray, MRI and other related products

Measurement of X-ray leakage

Medisale

We have a wide product range for your needs.

Leaktech

Measurement of X-ray leakage with high technology and quality based trust.



We have provided safe, reliable X-ray shielding. We will continue our work through our products such as Lead-Free Board Xp.





Thanks for your time!

Displaying at Booth No.122

Local Froe Board Mo