

LEAD SHIELDED WINDOWS AND SCREENS FOR MEDICAL APPLICATIONS



European EMC Products Ltd

The use of ionising radiation in medical applications, such as X-Ray, CT, fluoroscopy and mammography rooms is essential and well established. Equally important is the radiation protection for the general public and operators. A number of materials can be used for radiation protection, but lead is the most common. Where windows or viewing screens are required, specialised glass containing lead and barium is needed to give the required protection.

EEP can supply, or supply and install lead shielded windows and screens for all types of medical applications.

As each project is unique, EEP can supply windows with a wide range of frame designs and finishes to match the rest of a building. All additional requirements, such as fire and acoustic ratings, can be included.



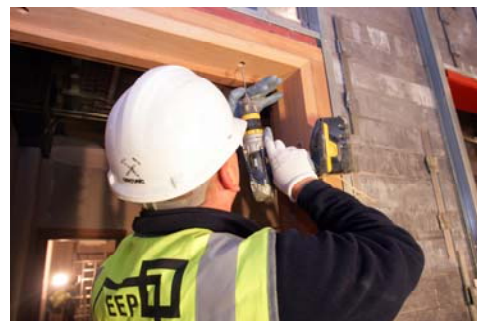
External view of veterinary X-ray room showing leaded windows and door



CT scanner room window

Thickness	Minimum lead equivalence (mm) for Stated X-Ray Tube Voltage					
	00kV	110kV	150kV	200kV	250kV	300kV
5.0-6.5	1.7	1.6	1.5 1	.3 1.	3	1.3
7.0-8.5	2.3	2.3	2.1 1	.8 1.	8	1.8
8.5-10.0	2.8	2.8	2.5 2	.2 2.	2	2.2
10.0-12.0	3.3	3.2	2.9 2	.5 2.	5	2.5
11.0-13.0	3.7	3.5	3.3 2	.8 2.	8	2.9
14.0-16.0	N/A	4.7	4.1 3	.5 3.	6	3.7
16.0-18.0	N/A	N/A	4.6 4	.0 4.	1	4.3

Lead glass shielding properties



EEP offers a full installation service

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X-ray Room Screen with integral desk and electrical distribution



Viewing window for PET scanner



Viewing window for CT scanner

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