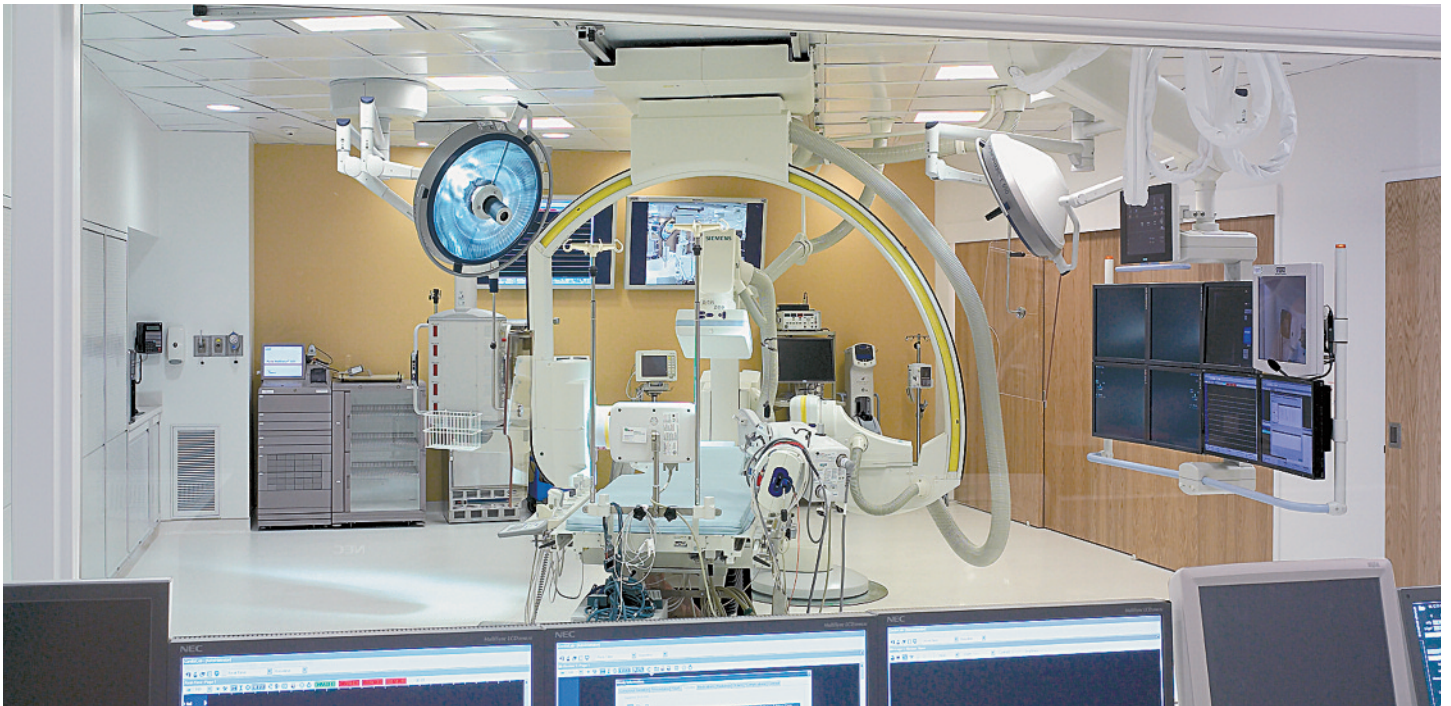


# CORNING

## Med-X<sup>®</sup>Glass

Radiation Shielding Glass for medical, technical and research applications.

Corning is the world leader in Radiation Shielding Glass offering the **largest glass sizes** available. Corning Med-X<sup>®</sup> Glass is supplied as polished plates with dimensions up to 2800 x 1400 mm and is available worldwide with **quick delivery times**.



### Key benefits

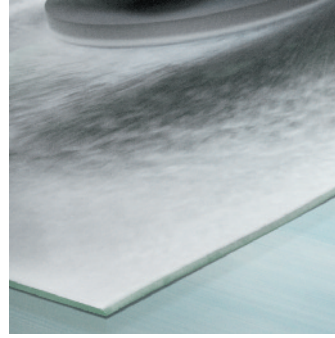
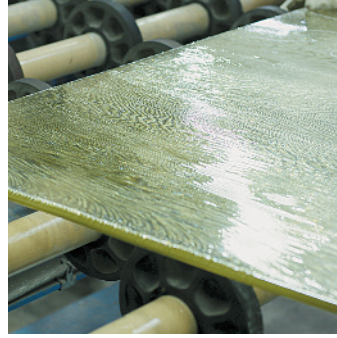
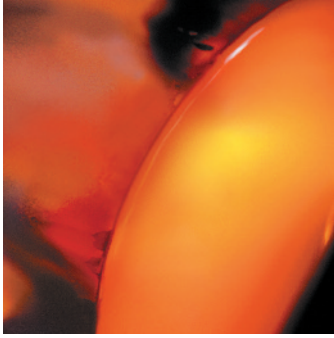
- Shields against X-Rays from equipment operating in the 80 to 300 kV range.
- High Barium and lead content providing optimum protection with excellent visual clarity.
- Supplied as polished plates cut to customer requirements up to 2800 x 1400 mm, allowing architects to design viewing windows with a wider field of vision.
- Also available in sizes cut specifically to customer requirements (with cut edges ground and finished with safety chamfers).
- Extensive stocks held in all plate sizes and thicknesses at distribution points worldwide, for immediate cutting and despatch.

### Applications

- Viewing windows for X-Ray, Angiography Rooms, CT Scans.
- Screens for medical diagnostics.
- Protection windows in laboratories.
- Airport security X-ray screens.
- Lenses for safety goggles.

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[www.corning.com/med-x](http://www.corning.com/med-x)



## Shielding Characteristics

Thickness		Minimum lead equivalence (mm) for stated X-Ray tube voltage							Max. Plate Mass	
mm	inches	80kV	100kV	110kV	150kV	200kV	250kV	300kV	kg/m <sup>2</sup>	lbs/ft <sup>2</sup>
3.5-5.0	0.138-0.197	1.2	1.3	1.2	1.1	1.0	1.0	1.0	24.0	4.9
5.0-6.5	0.197-0.256	1.7	1.7	1.7	1.5	1.3	1.3	1.3	31.2	6.4
7.0-8.5	0.276-0.335	2.3	2.3	2.3	2.0	1.8	1.7	1.8	40.8	8.4
8.5-10.0	0.335-0.394	2.8	2.8	2.8	2.6	2.1	2.1	2.1	48	9.8
10.0-12.0	0.394-0.472	3.3	3.3	3.3	2.9	2.5	2.6	2.6	57.6	11.8
11.0-13.0	0.433-0.512	N/A	3.5	3.6	3.2	2.7	2.7	2.8	62.4	12.8
14.0-16.0	0.551-0.630	N/A	4.4	4.7	4.2	3.5	3.6	4.0	76.8	15.7
16.0-18.0	0.630-0.709	N/A	N/A	N/A	4.8	4.0	4.1	4.3	86.4	17.7
18.0-20.0	0.709-0.787	N/A	N/A	N/A	5.4	4.4	4.5	4.7	96.0	19.7

Data provided by the UK Health Protection Agency: N/A = X-Ray transmission below level of detection

## Physical Properties

### Optical Properties

Refractive Index nd 1.76  
Transmission % @ 550nm through 5mm path ≥85.0

### Chemical Properties

Lead (Pb) 52%  
Barium (Ba) 17%

### Mechanical Properties

Density (g/cm<sup>3</sup>) 4.8  
Knoop Hardness (kg/mm<sup>2</sup>) 409  
Young's Modulus (GPa) 62.6  
Poisson's Ratio 0.26  
Coefficient of Thermal Expansion (x10<sup>-7</sup> /°C) 78.8

Suitable for laminating using PVB interlayers, and can be fitted into sealed double-glazed units.

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For more information contact:  
[radiationglass@corning.com](mailto:radiationglass@corning.com)

To contact the nearest Corning sales office:  
[www.corning.com/med-x](http://www.corning.com/med-x)



The production of Corning S.A.S. is strictly controlled and manufactured in accordance with the Quality Standard ISO 9001, the Environmental Standard ISO 14001 and the Health & Safety Standard OHSAS 18001.

Note: The high barium and lead content makes Corning Med-X® Glass susceptible to staining by acids and alkalis. We recommend this glass is not used or stored in conditions that will result in exposure to acid gases or excessive humidity.

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