On the safe side

SCHOTT radiation shielding glass RD 30®

A good, clear view

SCHOTT RD 30® is drawn, clear flat glass that contains lead and is used as radiation shielding glass. It has the usual surface traits of drawn glass.

Not only for use in mammography

RD 30® was developed especially for use in mammography workstations with weak X-rays (a lead equivalent of 0.5 mm Pb at 56 kV is commonly used here). Nevertheless, RD 30® also has a lead equivalent of 0.5 mm Pb at a higher tube voltage(up to 150 kV) and can therefore also be used in workplaces for material testing and at all other workplaces with weak X-ray radiation.

To ensure safe handling of the glass, we recommend that you follow our "Instructions on Installing, Cleaning and Caring for radiation shielding glass."

Properties and processing options

The SCHOTT radiation shielding glass RD 30® is delivered in processed or refined form.
The following processing options are available with RD 30®:

- Special formats, also with edge processing and bored holes
- Safety glass (tempered)
- Laminated glass
- Curved glass
- Printed/painted glass

Delivery forms – RD 30® radiation shielding glass

- Single pane glass: 6 mm
  (max. delivery dimensions: 2,350 x 1,500 mm [92.5" x 59.1"])
- Laminated glass: > 6 mm (consisting of 2 × 3 mm RD 30®)

Examples of applications

SCHOTT RD 30® radiation shielding glass can be used in many areas of medicine, science and industry, in particular in X-ray rooms, operating rooms, irradiation stations, dental practices, radiology practices, laboratories and materials testing.

RD 30®: Lead equivalents in mm Pb and delivery dimensions of single pane glass

Thickness d mm	Attenuation equivalent in mm Pb and delivery dimensions:						Max. weight kg/m²	Max. dimensions mm × mm
	50 kV	56 kV	76 kV	80 kV	110 kV	150 kV		
6.0 ± 0.25	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	20	2,350 × 1,500 (92.5" x 59.1")

Technical data on RD 30® (single pane glass)

Optical properties	
Refractive index n_e at 20 °C (annealed at 40 °C/h)	1.579
Light transmission factor (d = 6.0 mm)	90.5 %
Chemical properties	
Hydrolytic class according to DIN ISO 719	HGB 3
Lead oxide content (PbO)	≥ 22 %
Total heavy metal oxide content	≥ 23 %
Mechanical characteristics	
Density in g/cm³ (delivery condition)	≥ 3.13
Other properties	
Glass thickness	6.0 mm
Evaluated sound insulation R_W	
Spectral adaptation values C and C_{tr}	
R_W (C; C_{tr}) =	34 (−2; −2) dB

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