

# 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)
- Laminated glass: > 6 mm (consisting of 2 x 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<br>d<br>mm | Attenuation equivalent in mm Pb and delivery dimensions: |       |       |       |        |        | Max.<br>weight<br>kg/m <sup>2</sup> | Max.<br>dimensions<br>mm x 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 x 1,500                 |

### 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/cm<sup>3</sup> (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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