

Specification	TP					
Technical properties	RD 50 [™]					
Short description:	DESAG RD 50 TM radiation shielding glass is used to provide protection against X-ray and gamma radiation in medical and technical applications					
Intended purpose:	Use in radiation protection d	loors and windows				
Glass type:	RD 50 TM					
Comment:	We only supply glasses of type VI according DIN EN 61331-2:					
	"Lead glass panels with low attenuation characteristics w clear and transparent shield	which are used to obtain optically				
Note:		nout any aids under workplace ure from a distance of approx. for approx. 30 seconds.				
The subsequent properties are based pand measuring methods. They are defined we retain the right to change the data in Non-toleranced numerical values are re-	ned in corresponding "Measuring and head in corresponding "Measuring and head in keeping with the latest technical	and Test Procedures". standards.				
Values marked with ◊ do not apply to the	ne type of glass or no values are a	vailable.				
Requirements deviating from these spe	ecifications must be defined in writi	ing in a customer agreement .				



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1. Geometry

1.1 Length: in accordance with drawing or customer's guidelines

1.2 Width: in accordance with drawing or customer's guidelines

1.3 Diameter: in accordance with drawing or customer's guidelines

Maximum possible dimensions are showed in the following table including the nominal thickness and the attenuation equivalent:

Nominal thickness*	Min. thickness	Max. thickness	Attenuation equivalent in mm Pb for a tube voltage of:				Max. dimension		
[cm]	[mm]	[mm]	80 kV	90 kV	100 kV	110 kV**	150 kV	200 kV	[cm]
0,65	5,0	6,5	1,5	-	1,5	1,5	1,5	1,4	170 x 100
0,75	6,0	7,5	1,8	-	1,8	1,8	1,8	1,7	170 x 100
0,85	7,0	8,5	2,0	-	2,1	2,1	2,1	2,0	210 x 105
1,0	8,5	10,0	-	2,5	2,5	2,5	2,5	2,4	210 x 105
1,2	10,0	12,0	-	2,9	3,0	3,0	3,0	2,8	200 x 100
1,45	12,5	14,5	-	3,7	3,7	3,7	3,7	3,6	200 x 80
1,8	16,0	18,0	-	4,7	4,8	4,8	4,8	4,6	150 x 80
2,5	23,0	25,0	-	6,8	6,9	6,9	6,9	6,6	130 x 80

^{*} acc. DIN EN 61331-2

For tube voltages > 200 kV the attenuation equivalent for 200 kV should be taken as the basis.

1.4 Rectangularity

The length of the diagonals of the panels may not be larger or smaller, as applicable, than the length of the diagonals of the largest or smallest permissible panels cut exactly at right angles.

2. Glass defects

2.1 Inclusions (Bubbles, Stones, Knots)
No inclusions are permitted which impede free viewing with the eye.

2.2 Cords

No cords are permitted which impede free viewing with the eye.

^{**} tube voltage not enclosed in DIN EN 61331-1



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3. Surface defects

No surface defects are permitted which impede free viewing with the eye.

4. Form features

All glasses are processed with a cut edge and 2 x seam.

5. Labeling

According to the standard the glasses are marked durably as follows: name of the manufacturer type attenuation equivalent IEC 61331-2:1994 serial No.* e.g.:

SCHOTT AG RD 50 2,4 mm Pb 100 kV IEC 61331-2:1994 123456

VW 0050/1e

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^{*} for traceability