

## Technical Information Sight Glass

### Dimensional Tolerances

<b>Diameter [mm]</b>	
up to 135	± 0.5 mm
150 to 200	± 0.8 mm
above 200	± 1.0 mm
<b>Thickness [mm]</b>	
up to 20	+ 0.50 mm - 0.25 mm
above 20	+ 0.80 mm - 0.40 mm
<b>Bending strength</b>	
>= 160 N/mm <sup>2</sup>	23.000 psi
<b>Surface compressive stress</b>	
>=100 N/mm <sup>2</sup> - 140 N/mm <sup>2</sup>	14.500 psi - 20.000 psi
<b>Parallelism</b>	
<= 0.20 mm	0.008 inches
<b>Diameter Flatness</b>	
up to 100mm:	<= 0.05
100mm - 150mm:	<= 0.08
150mm - 200mm:	<= 0.12
above 200 mm:	<= 0.15
<b>Thermal shock resistance:</b>	
265 K	
<b>Max. permissible temp.</b>	
300 °C	572 °F
<b>protected with mica</b>	
320 °C	608 °F

Part Number	Diameter [mm]	Thickness [mm]	Part Number	Diameter [mm]	Thickness [mm]
8.51.443	24	10	8.51.043	100	10
8.51.302	30	12	8.51.446	100	12
8.51.002	30	15	8.51.046	100	15
8.51.109	31.6	12.75	8.51.047	100	20
8.51.006	33	14	8.51.656	105	15
8.51.417	34	17	8.51.257	110	20
8.51.001	35	7	8.51.756	113	15
8.51.304	40	10	8.51.256	115	15
8.51.004	40	12	8.51.557	115	20
8.51.203	44	10	8.51.255	120	10
8.51.018	44	12	8.51.356	120	15
8.51.003	45	10	8.51.657	120	18
8.51.005	45	12	8.51.056	125	15
8.51.011	50	10	8.51.057	125	20
8.51.014	50	12	8.51.058	125	25
8.51.224	50	20	8.51.059	125	30
8.51.312	55	6.5	8.51.466	130	15
8.51.012	55	10	8.51.366	130	20
8.51.013	60	10	8.51.266	135	15
8.51.015	60	12	8.51.468	135	25
8.51.016	60	15	8.51.670	140	15
8.51.217	60	20	8.51.368	140	25

<b>8.51.021</b>	63	8
<b>8.51.023</b>	63	10
<b>8.51.024</b>	63	12
<b>8.51.026</b>	63	15
<b>8.51.325</b>	65	10
<b>8.51.229</b>	65	15
<b>8.51.025</b>	70	12
<b>8.51.029</b>	70	15
<b>8.51.237</b>	70	20
<b>8.51.234</b>	75	12
<b>8.51.032</b>	80	10
<b>8.51.034</b>	80	12
<b>8.51.036</b>	80	15
<b>8.51.037</b>	80	20
<b>8.51.243</b>	86	12
<b>8.51.033</b>	90	10
<b>8.51.235</b>	90	12
<b>8.51.305</b>	92	10
<b>8.51.746</b>	94	12
<b>8.51.543</b>	95	10
<b>8.51.035</b>	95	15

<b>8.51.268</b>	145	25
<b>8.51.666</b>	150	10
<b>8.51.066</b>	150	15
<b>8.51.067</b>	150	20
<b>8.51.068</b>	150	25
<b>8.51.069</b>	150	30
<b>8.51.270</b>	160	20
<b>8.51.477</b>	170	15
<b>8.51.677</b>	170	20
<b>8.51.077</b>	175	20
<b>8.51.078</b>	175	25
<b>8.51.079</b>	175	30
<b>8.51.487</b>	178	19
<b>8.51.087</b>	200	20
<b>8.51.088</b>	200	25
<b>8.51.089</b>	200	30
<b>8.51.397</b>	210	20
<b>8.51.298</b>	210	25
<b>8.51.798</b>	250	20
<b>8.51.098</b>	250	25
<b>8.51.099</b>	250	30
<b>8.51.320</b>	265	30