SCHOTT AMIRAN® – Anti-Reflective Glass

Technical Data Sheet

Base material: Extra-clear low-iron float glass

Processing: Thermally toughened safety glass / heat strengthened glass / laminated safety glass / Curved glass / insulating glass / sun protection glass / sound protecting glass / alarm glass / security glazing / screen printing / drilling of holes / edge processing

	Max. net dimensions (min.) mm x mm	Thickness mm	Glass substrate	Luminous reflectance ρ_{vD65} %	Luminous transmittance τ_{vD65} %	Color rendering index R_a	Thermal transmittance U_g W/(m²·K)	Total solar energy transmittance g %	UV-transmittance τ_{UV} %
AMIRAN®	3,770 × 1,770	4, 6, 8, 10, 12	Extra-clear low-iron float glass	1	98	100	5.8	90	63
AMIRAN® **Thermally toughened safety glass / heat strengthened glass**	3,770 × 1,770	4, 6, 8, 10, 12	Extra-clear low-iron float glass	1	98	100	5.8	90	63
AMIRAN® **LSG** with a PVB film	3,770 × 1,770	Dependant on assembly	Extra-clear low-iron float glass	1	97	100	5.7	89	1
AMIRAN® **Insulating glass** optionally as thermally toughened safety glass	3,770 × 1,770 Dependant on the processor	Dependant on assembly	Extra-clear low-iron float glass	2	96	99	2.6	87	49
AMIRAN® **Insulating glass** with sun protection, optionally as thermally toughened safety glass	3,770 × 1,770 Dependant on the processor	Dependant on assembly	Extra-clear low-iron float glass	3	85	98	1.1	48	14
AMIRAN® **Insulating glass** with heat protection, optionally as thermally toughened safety glass								64	

Conventional glass in comparison

Thermally toughened safety glass	Dependant on the manufacturer	Dependant on the manufacturer	Float glass Extra-clear low-iron float glass	approx. 8 approx. 8	90 91	98 99	5.8 5.8	86 91	62 84
Insulating glass	Dependant on the manufacturer	Dependant on the manufacturer	Float glass Extra-clear low-iron float glass	approx. 15 approx. 15	80 84	97 99	2.6 2.6	75 83	39 72

- Glass pane
- AMIRAN® anti-reflective coating
- PVB film
- Spacer
- Space between the panes (filled with air or gas)
- Solar control coating (Arcon Sunbelt Platin)

1. The values refer to a glass thickness of 4 mm for monolithic glasses. The structure selected for laminated safety glass is 4 / 0.76 / 4 mm; for insulating glass units 4 / 16 / 4 mm filled with argon gas.
2. The values are calculated based on the standards DIN EN 410 and DIN EN 673.

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