







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.)	Thickness	Glass substrate	Luminous reflectance	Luminous transmittance	Color rendering index	Thermal transmittance	Total solar energy transmittance	UV-transmittance
	mm x mm	mm		ρ_{VD65} %	τ_{VD65} %	R_a	U_g W/(m ² ·K)	g %	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 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 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	approx. 8	90	98	5.8	86	62
			Extra-clear low-iron float glass	approx. 8	91	99	5.8	91	84
Insulating glass	Dependant on the manufacturer	Dependant on the manufacturer	Float glass	approx. 15	80	97	2.6	75	39
			Extra-clear low-iron float glass	approx. 15	84	99	2.6	83	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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