

Sapphire AR 99 Protect 8,8 – 13,5 mm

Technical specification

SPEC.P.04-23
Version:1.0

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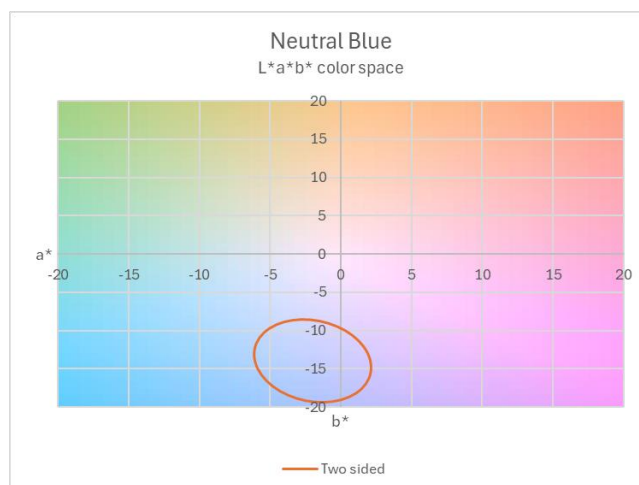
Sapphire AR 99 Protect is the highest quality, virtually invisible laminated glass. It offers the highest UV protection and is a physical safety solution. If it breaks, Sapphire AR 99 Protect remains attached to the laminating foil. Because of its durability and ease of handling, Sapphire AR 99 Protect is the preferred anti-reflective glass of the world's leading designers and architects.

Optical properties

The optical performance and additional information about the products are described below :

		Double sided
Visible light transmittance (380-780nm, according to EN410)	8,8 mm	≥ 97,6 %
	9,5 mm	≥ 97,5 %
	10,8 mm	≥ 97,3 %
	11,5 mm	≥ 97,1 %
	12,8 mm	≥ 97,0 %
	13,5 mm	≥ 97,0 %
Visible Light Reflection at 8° angle (380-780nm, according to EN410)	8,8 mm	≤ 1.0 %
	9,5 mm	
	10,8 mm	
	11,5 mm	
	12,8 mm	
	13,5 mm	
UV-light transmission (280-380nm, according to EN410)		Up to 0 % (Up to 100% UV protection)
Refelection colour ^[see graphs bellow]		Neutral blue
Glass Substrate Type*		Laminated Low Iron
Glass substrate Thickness, mm*		8,8 to 13,5 mm

* For other thicknesses or substrate type, please contact sales@groglass.com



Mechanical and chemical properties

The substrate used for products complies with EN 572 and ISO 12543. Magnetron sputtered coating is manufactured to comply with ISO 1096-2 Class A, and product Sapphire AR 99 Protect conforms to ISO 18916 – it passes Photographic Activity test. Sapphire AR 99 Protect also meets ISO 18902 by providing atleast 97 % UV protection and conservation level UV block is certified by the National Physical Laboratory in UK, according to EN 410.

Performance of product is listed below:

Weather resistance	PASS [according to EN 1096-2]
Neural salt spray	PASS [according to EN 1096-2]
Acid rain test	PASS [according to EN 1096-2]
UV and condensation	PASS [according to EN 1096-2]
Abrasion resistance	PASS [according to EN 1096-2]
ISO 18916 Photographic Activity test	PASS

Technical information

The size of a stock sheet (gross size) is 3210 x 2250 mm (126" x 88"). Standard packaging is in Endcaps (max. 2.2 t) and packed through polyethylene foil. For quantities in one package see the table below:

Thickness	Quantity
8,8 mm	13 pcs
9,5 mm	13 pcs
10,8 mm	10 pcs
11,5 mm	9 pcs
12,8 mm	9 pcs
13,5 mm	9 pcs

Information about Storage, Handling, Washing e.t.c. can be found in "Groglass Cleaning and Handling Guidelines" ([access through the link below](#))

<https://www.groglass.com/wp-content/uploads/2024/01/PROC.A.13-11-v.2-Groglass-Handling-Guidelines.pdf>