



Auto & Architectural

NR Black 20% - Safety 100

NR Black 20% 100-Micron safety window film enhances security by reinforcing glass against breakage, reducing the risk of injury from shattered glass. It provides 99% UV protection, blocking harmful rays that cause fading, and improved comfort. This durable film also increases safety while maintaining privacy. It's a good solution for both residential and commercial properties, improving safety, energy efficiency, and overall protection.

Technical Performance Data

Calculated on 3mm glass

Natural Light & Glare

VLT (Visible Light Transmission)	21%
Visible Light Reflectance (internal)	12%
Glare Reduction	71%

Solar Energy

Transmittance	32%
Reflectance	17%
Absorption	51%
TSER (Total Solar Energy Rejected)	55%

Thermal Energy

Shading Coefficient	0.56
Solar Heat Gain Coefficient	0.50
U-Value - (W/m ² K)	5.8
R-Value - (m ² K/W)	0.17

Ultraviolet & Infrared

UV Rejection	99%
IR Rejection	11%
Anti-Fade Rating (0 - 100)	72

Manufactured Specifications

Thickness	120 µm
Structure	2 Ply
Composition	PET
Warranty	5 Years
Colour	Natural
Stock Code	SAF20

Product Care & Maintenance:

After installation allow 30 – 60 days to cure. Never try to remove bubbles during the curing process. After curing you may clean the windows with soapy water and non-abrasive cloths or sponges and paper towels. Do not attempt to clean the film with chemicals containing ammonia or abrasives.

Installation Guidelines

Vertical Installation on standard glass surface

Single Pane Glazing

Clear Standard Glass	✓
Thermally Toughened Safety Glass	✓
PVB / Laminated Glass with correct spacing	✓
Glass Panes Exceeding 2 SQM	✓
Low-E Glass	!
Glass with poor quality edging and spacing	X

Double Pane / Double Glazing

Clear Double Pane	!
Tinted Double Pane	X
Gas-Filled Double Pane (Low-E)	!
Glass Panes Exceeding 2 SQM	X
PVB / Laminated Glass with correct spacing	X
Thermally Toughened Safety Glass	✓
Glass with poor quality edging and spacing	X

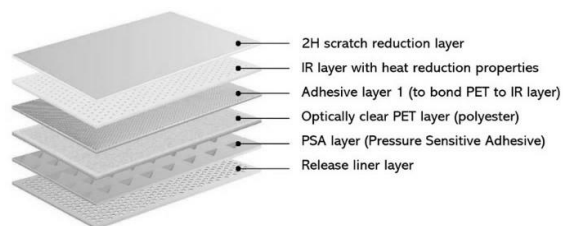
Safety Guideline Symbols

Safety Guideline Symbols	Symbol
Safe to install	✓
Unsafe to install	X
Caution, will cause thermal stress	!

Safety Performance

Break Strength M.D. (kg/cm)	22.3
Tensile Strength M.D. (kg/cm ²)	1940
Peel Strength (gr/inch)	>1800

Guidelines provided are based on a single glass surface up to 2.5 m² with no single length or width greater than 2 meters.



Distributed by: **Tint Zone**

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