Solar Screen

CLEAR 12 C (NEW)

Safety

Security - Protection

Description

Clear12 C films help secure your windows by ensuring that the glass does not shatter, remaining transparent and retaining its overall integrity in the event of an impact, explosion or fire. Ideally suited to covering large glazed expanses, it complies with European Standard EN 12600.

Certifications

REACH / RoHS
Compliant

EN 12600
1B1

EN 356
P2A

Fire Resistance Rating
M1

Certified B Corporation

View test videos on the safety film

Solar Screen

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Security - Protection

Characteristics

Warranty
10 years

Fire Resistance Rating
M1

Storage in recommended conditions
3 years

REACH / RoHS
Compliant

EN 12600
1B1

EN 356
P2A

Widths Available
122 cm, 152 cm, 183 cm

Installation Type
Interior

Color From the Outside
Transparent

Length
30.5 m

Product Carbon Footprint (LCA)
2.6 kgCO2e/m²

Construction

1 Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
2 100 µm high optical quality polyester
3 Bonding adhesive
4 100 µm high optical quality polyester
5 Bonding adhesive
6 100 µm high optical quality polyester
7 Reinforced PS adhesive to accompany the elasticity of the film in case of impact, polymerizes with glass within 30 days
8 Protection PET release liner, disposable after installation

Composition
PET

Thickness
310 µm

Mechanical Properties

Tensile force at break
61 kg/cm

Elongation at break
160%

Optical and solar properties

	Single 3mm		Double Low-E	
Pane type	No film	With Film	No film	With Film
UV Rejection (%)	25	95	40	99
Visible Light Transmission (%)	**91**	**82**	**82**	**74**
Visible Light Reflection - External (%)	8	12	11	16
Visible Light Reflection - Internal (%)	8	12	12	16
Solar Energy Reflection (%)	5	10	28	24
Solar Energy Absorption (%)	8	9	12	23
Solar Energy Transmission (%)	87	81	60	53
Total Solar Energy Rejected (%)	**12**	**20**	**35**	**35**
Glare Reduction (%)	-	16	-	10
Shading Coefficient	-	0.90	-	1.0
g-value	**0.88**	**0.80**	**0.65**	**0.65**
U-value (W/m².°C)	5.8	5.7	1.1	1.1

Application advice[01]

Vertical situation and for a standard glazed surface

Clear Single Pane	✓
Tinted Single Pane	✓
Reflective Tinted Single Pane	✓
Clear Double Pane	✓
Tinted Double Pane	✓
Reflective Tinted Double Pane	✓
Gas-Filled Double Pane - Low E	✓
Stadip Ext. Clear Double Pane	✓
Stadip Int. Clear Double Pane	✓

✓ Yes × Not recommended ! Caution

Installation and Maintenance Advise

Safety film with reinforced PS adhesive, requiring a suitable application solution : Slide On (600-FO2) or Film On (600-F0355) diluted at 2 cL/L of water, and a suitable safety squeegee (150-054 / 150-055 / 150-056). Do not clean for at least one month or apply stickers/adhesives to the film.

Download the installation and maintenance advice

01 Advice based on glazed surface area up to 2.5 m², please contact us for any confirmation or thermal shock analysis.
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