



Window Film Selector Guide

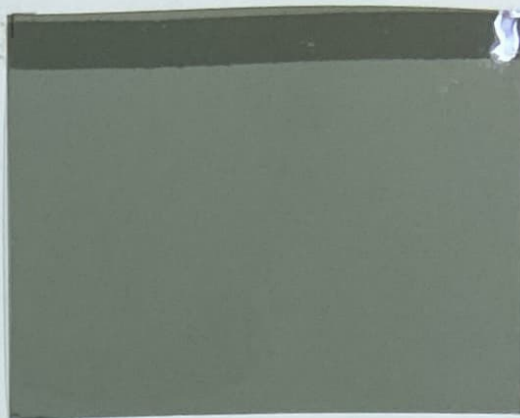
Architectural Window Films for Solar, Energy and Safety Solutions



LX 40

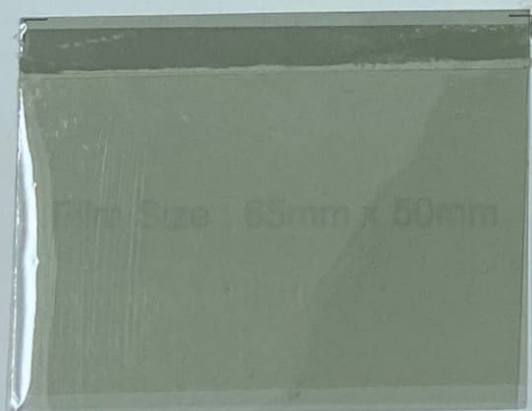


LX 55



		LX 40		LX 55		LX 70		Sentinel Plus SX 80	
PERFORMANCE RESULTS		4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm
VISIBLE LIGHT									
TR (%)	Transmittance	42	38	59	51	72	65	78	71
Re / Ri (%)	Reflectance Exterior / Interior	6 / 7	13 / 8	8 / 8	15 / 11	9 / 9	16 / 13	8 / 8	13 / 15
GL (%)	Glare Reduction	53	53	31	31	20	20	13	13
SOLAR ENERGY									
TR (%)	Transmittance	27	23	34	30	36	32	44	39
A (%)	Absorptance	45	52	36	43	30	39	49	52
R (%)	Reflectance	28	25	30	27	34	29	7	9
IR (%)	IR Rejection 780 to 2500nm	95	-	95	-	95	-	84	-
UV (%)	UV blocked @300 to 380 nm	>99	>99	>99	>99	>99	>99	>99	>99
SC	Shading Coefficient	0,46	0,56	-	-	0,52	0,57	-	-
G	Solar Heat Gain Coefficient (G-value)	0,39	0,48	0,44	0,50	0,45	0,49	0,56	0,46
SSI	Solar Selectivity Index (VLT/SHGC)	0,91	0,68	-	-	1,38	1,14	1,40	1,53
TSER (%)	Total Solar Energy Rejected	61	52	56	50	55	51	44	54
TSER (%) -60°	Total Solar Energy Rejected at 60° angle	65	-	-	-	59	-	51	62
SHGR (%)	Solar Heat Gain Reduction	53	35	48	33	47	34	36	40
E	Emissivity	0,75	0,77	0,78		0,77		0,87	0,87
U (W/m²K)	Winter U-Factor (W/m²°C)	5,66	2,66	1,01	0,47	5,66	2,66	5,7	2,8
U Red (%)	Winter Heat Loss Reduction	2	2	3	2	3	2	0	0
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	28	26	39	35	47	43	54	59
FR (%)	Fade Reduction Factor	67	65	54	46	45	42	-	-
PHYSICAL PROPERTIES									
Tnom / T(μm)	Thickness Nominal / Overall	75 / 95		-		75 / 95		75 / 95	
TS - kg/cm²	Tensile strength	2100 kg		2100 kg		2100 kg		2100 kg	
EPD	Environmental Product Declaration	YES		YES		YES		YES	

LX 70



Sentinel Plus SX 80



TrueVue 15



TrueVue 40



		TrueVue 15		TrueVue 40		Sterling 50		Sterling 60	
PERFORMANCE RESULTS		4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm
VISIBLE LIGHT									
TR (%)	Transmittance	12	11	39	35	49	45	63	57
Re / Ri (%)	Reflectance Exterior / Interior	45 / 23	46 / 23	14 / 10	20 / 11	26 / 24	30 / 26	17 / 16	22 / 19
GL (%)	Glare Reduction	86	86	56	56	45	44	30	29
SOLAR ENERGY									
TR (%)	Transmittance	9	8	37	30	34	29	48	40
A (%)	Absorptance	42	51	42	49	35	43	29	38
R (%)	Reflectance	49	41	21	21	31	28	23	22
IR (%)	IR Rejection 780 to 2500nm	95	-	70	-	82	-	70	-
UV (%)	UV blocked @300 to 380 nm	>99	>99	>99	>99	>99	>99	>99	>99
SC	Shading Coefficient	0,24	0,37	0,56	0,62	0,51	0,56	0,65	0,66
G	Solar Heat Gain Coefficient (G-value)	0,21	0,32	0,49	0,54	0,44	0,48	0,56	0,57
SSI	Solar Selectivity Index (VLT/SHGC)	0,50	0,30	0,69	0,57	1,13	0,81	0,97	0,87
TSER (%)	Total Solar Energy Rejected	79	68	51	46	56	51	44	43
TSER (%) -60°	Total Solar Energy Rejected at 60° angle	83	-	59	-	62	-	51	-
SHGR (%)	Solar Heat Gain Reduction	76	57	42	27	48	44	34	23
E	Emissivity	0,75		0,75		0,69		0,78	
U (W/m²K)	Winter U-Factor (W/m²°C)	5,60	2,64	5,60	2,64	5,43	2,59	5,70	2,67
U Red (%)	Winter Heat Loss Reduction	4	2	4	2	7	4	4	2
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	10	9	28	25	38	35	45	41
FR (%)	Fade Reduction Factor	88	88	67	66	55	53	47	45
PHYSICAL PROPERTIES									
Tnom / T(µm)	Thickness Nominal / Overall	50 / 75		50 / 75		50 / 75		50 / 75	
TS - kg/cm²	Tensile strength	2100 kg		2100 kg		2100 kg		2100 kg	
EPD	Environmental Product Declaration	YES		YES		YES		YES	

Sterling 50



Sterling 60



Silver 20



Silver 70



		Silver 20	
PERFORMANCE RESULTS		4 mm	4 / 12 / 4 mm
VISIBLE LIGHT			
TR (%)	Transmittance	16	15
Re / Ri (%)	Reflectance Exterior / Interior	58 / 587	58 / 59
GL (%)	Glare Reduction	82	81
SOLAR ENERGY			
TR (%)	Transmittance	11	10
A (%)	Absorptance	39	47
R (%)	Reflectance	50	43
IR (%)	IR Rejection 780 to 2500nm	82	-
UV (%)	UV blocked @300 to 380 nm	>99	>99
SC	Shading Coefficient	0,25	0,36
G	Solar Heat Gain Coefficient (G-value)	0,22	0,31
SSI	Solar Selectivity Index (VLT/SHGC)	0,64	0,42
TSER (%)	Total Solar Energy Rejected	78	69
TSER (%) -60°	Total Solar Energy Rejected at 60° angle	82	-
SHGR (%)	Solar Heat Gain Reduction	74	58
E	Emissivity	0,70	
U (W/m²K)	Winter U-Factor (W/m²°C)	5,45	2,60
U Red (%)	Winter Heat Loss Reduction	7	4
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	14	13
FR (%)	Fade Reduction Factor	84	82
PHYSICAL PROPERTIES			
Tnom / T(µm)	Thickness Nominal / Overall	50 / 75	
TS - kg/cm²	Tensile strength	2100 kg	
EPD	Environmental Product Declaration	YES	

		Silver 70
PERFORMANCE RESULTS		4 mm
VISIBLE LIGHT		
TR (%)	Transmittance	70
Re / Ri (%)	Reflectance Exterior / Interior	11 / 10
GL (%)	Glare Reduction	23
SOLAR ENERGY		
TR (%)	Transmittance	-
A (%)	Absorptance	-
R (%)	Reflectance	-
IR (%)	IR Rejection 780 to 2500nm	21
UV (%)	UV blocked @300 to 380 nm	>99
SC	Shading Coefficient	-
G	Solar Heat Gain Coefficient (G-value)	-
SSI	Solar Selectivity Index (VLT/SHGC)	-
TSER (%)	Total Solar Energy Rejected	53
TSER (%) -60°	Total Solar Energy Rejected at 60° angle	-
SHGR (%)	Solar Heat Gain Reduction	23
E	Emissivity	-
U (W/m²K)	Winter U-Factor (W/m²°C)	-
U Red (%)	Winter Heat Loss Reduction	-
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	-
FR (%)	Fade Reduction Factor	-
PHYSICAL PROPERTIES		
Tnom / T(µm)	Thickness Nominal / Overall	50 / 75
TS - kg/cm²	Tensile strength	2100 kg
EPD	Environmental Product Declaration	YES

		Stainless Steel 30	
PERFORMANCE RESULTS		4 mm	4 / 12 / 4 mm
VISIBLE LIGHT			
TR (%)	Transmittance	34	31
Re / Ri (%)	Reflectance Exterior / Interior	20/17	25/18
GL (%)	Glare Reduction	62	62
SOLAR ENERGY			
TR (%)	Transmittance	30	25
A (%)	Absorptance	54	56
R (%)	Reflectance	16	19
IR (%)	IR Rejection 780 to 2500nm	69	-
UV (%)	UV blocked @300 to 380 nm	>99	>99
SC	Shading Coefficient	0,54	0,63
G	Solar Heat Gain Coefficient (G-value)	0,46	0,54
SSI	Solar Selectivity Index (VLT/SHGC)	0,63	0,48
TSER (%)	Total Solar Energy Rejected	54	46
TSER (%) -60°	Total Solar Energy Rejected at 60° angle	60	-
SHGR (%)	Solar Heat Gain Reduction	45	26
E	Emissivity	0,86	
U (W/m²K)	Winter U-Factor (W/m²°C)	5,93	2,73
U Red (%)	Winter Heat Loss Reduction	-1	-
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	24	22
FR (%)	Fade Reduction Factor	72	70
PHYSICAL PROPERTIES			
Tnom / T(µm)	Thickness Nominal / Overall	50/75	
TS - kg/cm²	Tensile strength	2100 kg	
EPD	Environmental Product Declaration	YES	

		Stainless Steel 50	
PERFORMANCE RESULTS		4 mm	4 / 12 / 4 mm
VISIBLE LIGHT			
TR (%)	Transmittance	48	44
Re / Ri (%)	Reflectance Exterior / Interior	13 / 13	20 / 13
GL (%)	Glare Reduction	46	46
SOLAR ENERGY			
TR (%)	Transmittance	43	35
A (%)	Absorptance	46	50
R (%)	Reflectance	11	15
IR (%)	IR Rejection 780 to 2500nm	-	-
UV (%)	UV blocked @300 to 380 nm	>99	>99
SC	Shading Coefficient	0,66	0,70
G	Solar Heat Gain Coefficient (G-value)	0,57	0,61
SSI	Solar Selectivity Index (VLT/SHGC)	0,73	0,62
TSER (%)	Total Solar Energy Rejected	43	39
TSER (%) -60°	Total Solar Energy Rejected at 60° angle	-	-
SHGR (%)	Solar Heat Gain Reduction	33	18
E	Emissivity	0,89	
U (W/m²K)	Winter U-Factor (W/m²°C)	6,02	2,75
U Red (%)	Winter Heat Loss Reduction	-	-
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	-	-
FR (%)	Fade Reduction Factor	-	-
PHYSICAL PROPERTIES			
Tnom / T(µm)	Thickness Nominal / Overall	50	
TS - kg/cm²	Tensile strength	2100 kg	
EPD	Environmental Product Declaration	YES	

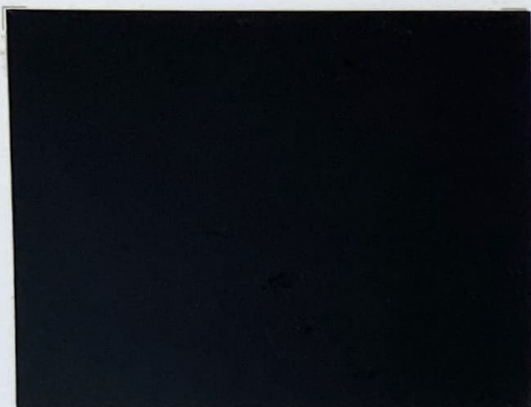
Stainless Steel 30



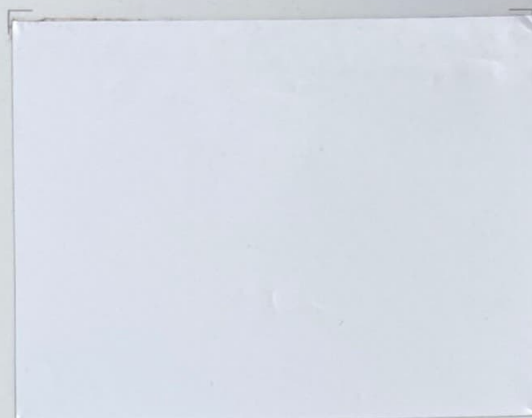
Stainless Steel 50



Black Opaque

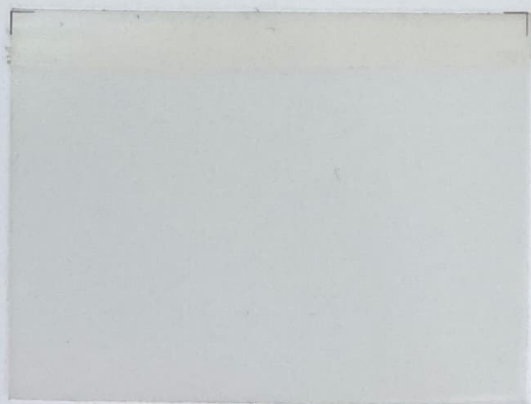


White Opaque



		Black Opaque		White Opaque		Clear Frost		UP Plus 80
PERFORMANCE RESULTS		4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	3 mm
VISIBLE LIGHT								
TR (%)	Transmittance	0	0	9	9	65	59	76
Re / Ri (%)	Reflectance Exterior / Interior	13 / 7	13 / 7	70 / 84	68 / 84	25 / 27	29 / 30	8 / 8
GL (%)	Glare Reduction	100	100	90	89	28	27	15
SOLAR ENERGY								
TR (%)	Transmittance	0	0	14	12	60	50	-
A (%)	Absorptance	95	89	33	42	21	29	-
R (%)	Reflectance	11	11	53	46	19	21	-
IR (%)	IR Rejection 780 to 2500nm	-	-	-	-	-	-	90
UV (%)	UV blocked @300 to 380 nm	>99	>99	>99	>99	>99	>99	>99
SC	Shading Coefficient	0,35	0,60	0,28	0,36	0,76	0,71	-
G	Solar Heat Gain Coefficient (G-value)	0,30	0,51	0,24	0,31	0,66	0,62	-
SSI	Solar Selectivity Index (VLT/SHGC)	0	0	0,33	0,24	0,85	0,85	-
TSER (%)	Total Solar Energy Rejected	70	49	76	69	33	37	45
TSER (%) -60°	Total Solar Energy Rejected at 60° angle	-	-	-	-	-	-	-
SHGR (%)	Solar Heat Gain Reduction	65	31	72	58	22	16	37
E	Emissivity	0,87		0,88		0,87		-
U (W/m²K)	Winter U-Factor (W/m²°C)	5,96	2,74	5,99	2,74	5,96	2,82	-
U Red (%)	Winter Heat Loss Reduction	-	-	-	-	-	-	-
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	0	0	7	6	45	41	-
FR (%)	Fade Reduction Factor	100	100	92	92	47	45	-
PHYSICAL PROPERTIES								
Tnom / T(µm)	Thickness Nominal / Overall	50 / 75		50 / 75		50 / 75		50 / 75
TS - kg/cm²	Tensile strength	2100 kg		2100 kg		2100 kg		2100 kg
EPD	Environmental Product Declaration	YES		YES		YES		YES

Clear Frost



UP Plus 80



AC 2 Mil Clear



AC 4 Mil Clear

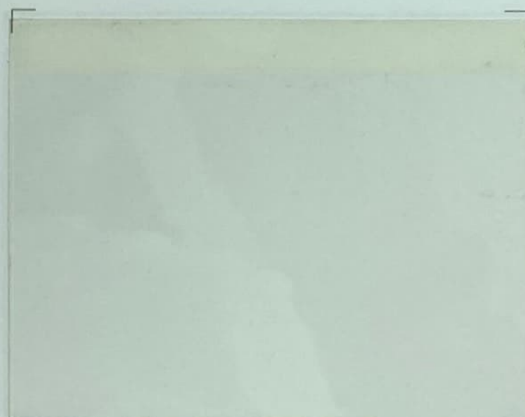


		AC 2 Mil Clear		AC 4 Mil Clear		AC 7 Mil Clear		AC 8 Mil Clear	
		4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm
PERFORMANCE RESULTS									
VISIBLE LIGHT									
TR (%)	Transmittance	85	77	89	80	88	80	84	76
Re / Ri (%)	Reflectance Exterior / Interior	-	-	-	-	-	-	-	-
GL (%)	Glare Reduction	-	-	-	-	-	-	-	-
SOLAR ENERGY									
IR (%)	IR Rejection 780 to 2500nm	23	-	24	-	26	-	28	-
UV (%)	UV blocked @300 to 380 nm	>99	>99	>99	>99	>99	>99	>99	>99
SC	Shading Coefficient	-	-	-	-	-	-	-	-
G	Solar Heat Gain Coefficient (G-value)	-	-	-	-	-	-	-	-
SSI	Solar Selectivity Index (VLT/SHGC)	-	-	-	-	-	-	-	-
E	Emissivity	-	-	-	-	-	-	-	-
U (W/m²K)	Winter U-Factor (W/m²°C)	-	-	-	-	-	-	-	-
U Red (%)	Winter Heat Loss Reduction	-	-	-	-	-	-	-	-
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	63	57	63	57	63	57	62	56
FR (%)	Fade Reduction Factor	26	23	26	23	26	23	27	24
PHYSICAL PROPERTIES									
Tnom / T(µm)	Thickness Nominal / Overall	50 / 75		100 / 125		175 / 200		200 / 225	
TS - kg/cm²	Tensile strength	2,11		2,11		2,11		2,11	
EPD	Environmental Product Declaration	-	-	-		-		-	
SAFTY TESTING									
EN 12600	Human Impact	N/A		2B2		1B1		1B1	
EN 356	Resistance to Manual Attack	N/A		N/A		N/A		Y	
ISO 16933, GSA or ASTM	Bomb Blast Resistance	N/A		N/A		N/A		Y	

AC 7 Mil Clear



AC 8 Mil Clear



AC 11 Mil Clear



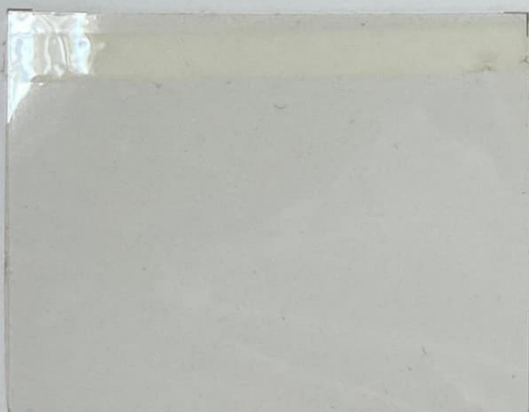
AC 14 Mil Clear



		AC 11 Mil Clear	
PERFORMANCE RESULTS		4 mm	4 / 12 / 4 mm
VISIBLE LIGHT			
TR (%)	Transmittance	88	79
Re / Ri (%)	Reflectance Exterior / Interior	-	-
GL (%)	Glare Reduction	-	-
SOLAR ENERGY			
IR (%)	IR Rejection 780 to 2500nm	30	-
UV (%)	UV blocked @300 to 380 nm	>99	>99
SC	Shading Coefficient	-	-
G	Solar Heat Gain Coefficient (G-value)	-	-
SSI	Solar Selectivity Index (VLT/SHGC) E	-	-
Emissivity		-	-
U (W/m²K)	Winter U-Factor (W/m²°C)	-	-
U Red (%)	Winter Heat Loss Reduction	-	-
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	62	56
FR (%)	Fade Reduction Factor	27	24
PHYSICAL PROPERTIES			
Tnom / T(µm)	Thickness Nominal / Overall	275 / 300	
TS - kg/cm²	Tensile strength	2,11	
EPD	Environmental Product Declaration	-	
SAFTY TESTING			
EN 12600	Human Impact	1B1	
EN 356	Resistance to Manual Attack	Y	
ISO 16933, GSA or ASTM	Bomb Blast Resistance	Y	

AC 14 Mil Clear		Sentinel Plus 4 Mil		4 Mil Stainless Steel 35			
4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm	4 mm	4 / 12 / 4 mm		
PERFORMANCE RESULTS							
VISIBLE LIGHT							
TR (%)	Transmittance	87	79	89	81	44	40
Re / Ri (%)	Reflectance Exterior / Interior	-	-	-	-	-	-
GL (%)	Glare Reduction	-	-	-	-	-	-
SOLAR ENERGY							
IR (%)	IR Rejection 780 to 2500nm	32	-	60	-	41	33
UV (%)	UV blocked @300 to 380 nm	>99	>99	>99	>99	>99	>99
SC	Shading Coefficient	-	-	-	-	-	-
G	Solar Heat Gain Coefficient (G-value)	-	-	-	-	0,54	0,59
SSI	Solar Selectivity Index (VLT/SHGC) E	-	-	-	-	-	-
Emissivity		-	-	-	-	-	-
U (W/m²K)	Winter U-Factor (W/m²°C)	-	-	-	-	-	-
U Red (%)	Winter Heat Loss Reduction	-	-	-	-	-	-
Tdw (%)	Fade Control UV Tdw-ISO @300 to 700 nm	62	56	60	55	32	29
FR (%)	Fade Reduction Factor	27	24	29	26	62	61
PHYSICAL PROPERTIES							
Tnom / T(µm)	Thickness Nominal / Overall	350 / 375		100 / 25		100 / 150	
TS - kg/cm²	Tensile strength	2,11		2,11		2,11	
EPD	Environmental Product Declaration	-		-		-	
SAFTY TESTING							
EN 12600	Human Impact	1B1		2B2		2B2	
EN 356	Resistance to Manual Attack	Y		N/A		N/A	
ISO 16933, GSA or ASTM	Bomb Blast Resistance	Y		N/A		N/A	

Sentinel Plus 4 Mil



4 Mil Stainless Steel 35*

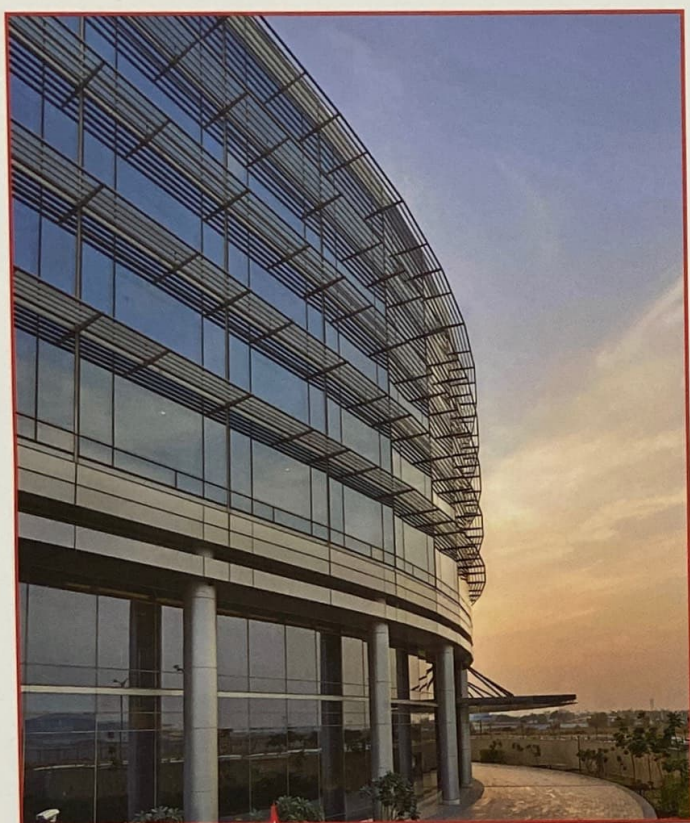


*Combo Film



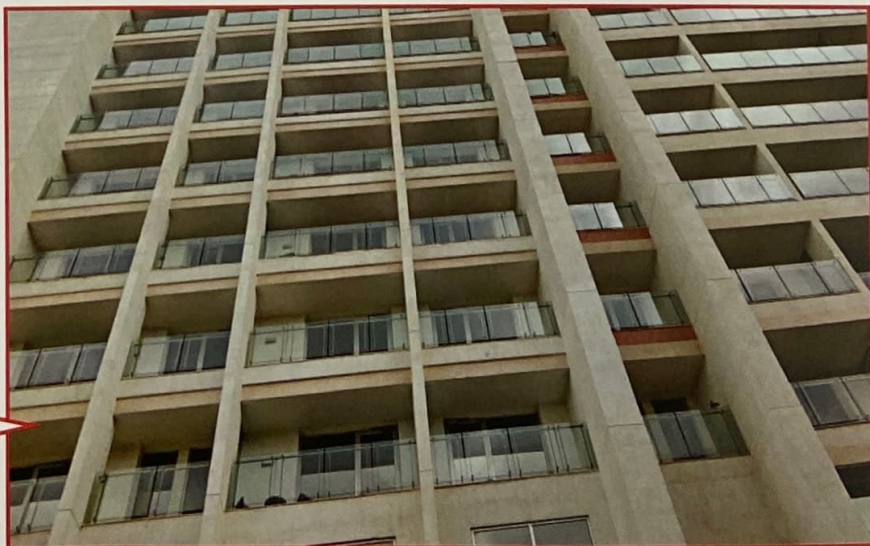
Market segment : Institutional
 Product category : Safety film
 Location : Sonipat
 Project : Ashoka University
 Product & Qty : AC 4 Mil, 12000 sq. ft

Market segment : Builder
 Product category : Safety film
 Location : Noida
 Client : Omaxe Ltd.
 Product & Qty : AC 4 Mil, 17000 sq. ft



Market segment : Hospitality
 Product category : Safety film
 Location : Delhi
 Project : Hyatt Andaz
 Product & Qty : AC 7 Mil, 12000 sq. ft

Market segment : Hospitality
 Product category : Safety film (Exterior)
 Location : Bangalore
 Project : DT Hilton
 Product & Qty : Sentinel 4 Mil, 15000 sq. ft





Market segment : Hospitality
Product category : Safety film
Location : Bangalore
Project : ITC Windsor
Product & Qty : AC 8 Mil, 2000 sq. ft

Market segment : Residential
Product category : Solar film
Location : Pune
Project : Castel Royale Apts
Product & Qty : TrueVue 40, 2000 sq. ft



Market segment : Residential
Product category : Solar film
Location : Bangalore
Project : Embassy Boulevard Villa
Product & Qty : LX 70, 1500 sq. ft

Market segment : Corporate
Product category : Solar film
Location : Gurgaon
Project : Global Reality
Product & Qty : Sterling 60, 1500 sq. ft



Solar Control, Safety and Security Window Films

Solar Gard® Armorcoat® at a Glance

The Department of Energy gets efficient with Solar Gard® Armorcoat® safety and security film

Tough, resilient Solar Gard Armorcoat safety and security window films are composed of incredibly strong, optical quality polyester, high-grade ultraviolet inhibitors and special laminating and mounting adhesives, with a protective, scratch-resistant coating.

Pressure-sensitive mounting adhesive helps hold glass in place when natural disasters, vandalism, explosions, bomb blasts and other incidents result in glass breakage.

Solar versions of Solar Gard Armorcoat safety films reject up to 80% of the sun's total solar energy to improve occupant comfort, reduce energy consumption, and improve exterior aesthetics, while still affording increased protection.

Both clear safety and solar safety versions block 99% of the sun's destructive ultraviolet rays from entering through windows to provide protection from premature fading and deterioration of furnishings. Solar Gard Armorcoat safety

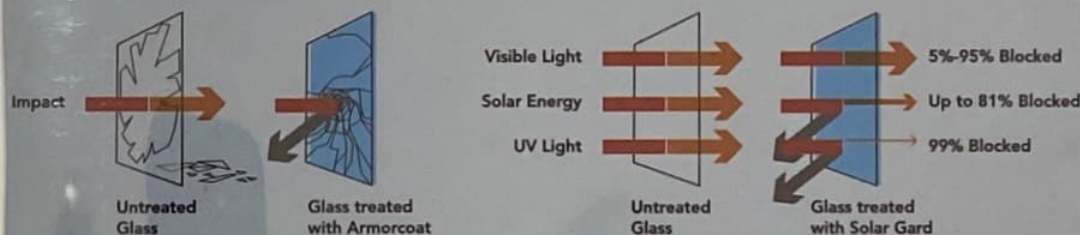
window films are manufactured in thickness between 2 Mil (50 micron) and 14 Mil (350 micron).

All Solar Gard Armorcoat safety window films are backed by a strong manufacturer's warranty and are easy to clean and maintain.

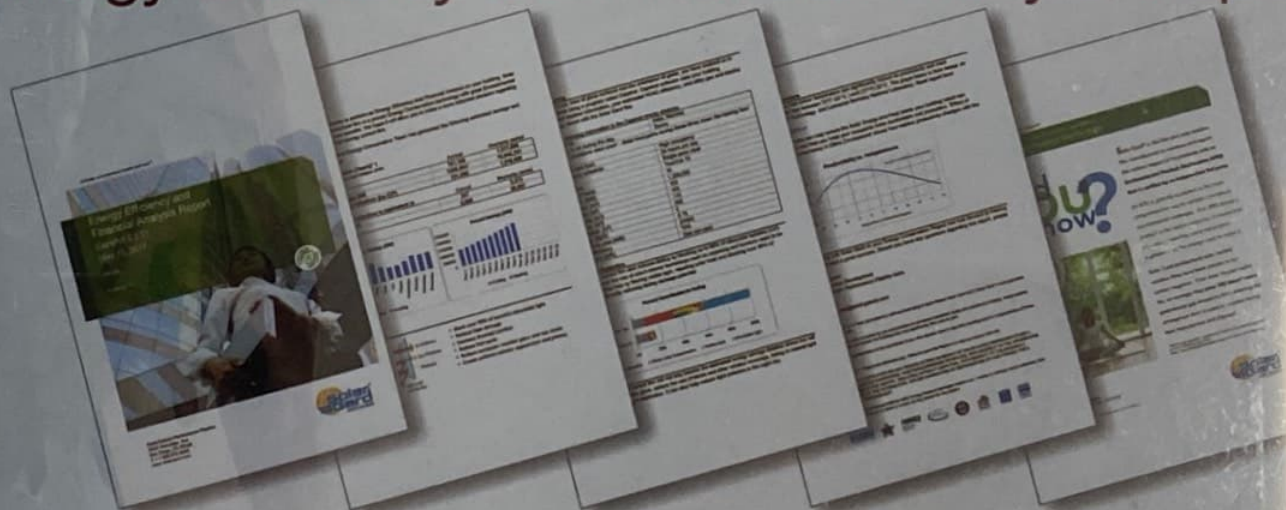
More than 80,000 square feet of Solar Gard Armorcoat has been installed on government buildings, such as the U.S. Capitol, the Pentagon, the FBI Headquarters and the U.S. Department of Energy (DOE) reducing energy loss and maintaining comfortable air temperatures for the employees within.

Solar Gard Armorcoat offers you:

- Reduced glare from direct sunlight.
- Reduced energy loss.
- Increased occupant comfort.
- Increased protection from flying glass shards in the event of explosion, severe weather or accidental breakage.



Energy Efficiency and Financial Analysis Report



Solar Gard®, a subsidiary of Saint-Gobain, is a leading North American manufacturer of architectural solar control window films. Solar Gard® embraces a culture of sustainability from top to bottom. Saint-Gobain has received the ENERGY STAR Sustained-Excellence award for four consecutive years. Solar Gard® has implemented a waste and recycling management program with our suppliers and accountability programs with our employees. We continue to improve the energy efficiency of our facilities and have achieved ENERGY STAR certification. Our packaging materials contain a significant percentage of recycled content and are 100% recyclable. Most significantly, the energy savings and corresponding reduced environmental impacts realized by our products far exceeds the environmental impacts required to make, distribute, and install the film in most cases. We choose to quantify, validate, and transparently communicate our impacts and the resulting benefits through the publication of an Environmental Product Declaration





What matters most to you...
We're On It!



Marketed by:
Grindwell Norton Limited
Devanahalli Road,
Off Old Madras Road
Bangalore - 560049
India

Tel: +91 80 4697 8888 / 6813 8888

South Region: +91 7829546999
North Region: +91 8826677332
West Region : +91 9004696365

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MAGNUM MARKETING

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About Solar Gard®

Solar Gard® protects what matters most to you: your family, your home, your business, your car. Headquartered in San Diego, California, Solar Gard® makes state-of-the-art window films and protective coatings for the architecture and automotive markets. Solar Gard® is a division of Saint-Gobain Performance Plastics, a subsidiary of Saint-Gobain, the world leader in habitat and construction markets. Our proven carbon-negative solutions positively impact lives and reduce global greenhouse gas emissions. Solar Gard® products are sold in more than 90 countries under the Solar Gard®, Quantum®, and Solar Gard® Armorcoat® brands.

Earn LEED credits using Solar Gard® window film

As you pursue LEED certification through the U.S. Green Building Council (USGBC), you will be exploring many options to meet your goals. Solar Gard window film is a proven energy saving product that can directly help you achieve LEED Credits.



Shade & performance results mentioned are indicative only actual may differ.