

ARCHITECTURAL WINDOW FILMS

ABOUT US

Global Hi-Tech Films, a subsidiary of Garware Hi-Tech Films Ltd., is a global leader in high-performance specialty films for the architectural, automotive, and industrial sectors. Founded in 1957, the company is known for its innovation, especially in solar control, paint protection, and window films. It is fully vertically integrated and ranks among the top 3 window film brands in the U.S.

Operating the world's largest architectural film facility at a single location and one of only two with patented deep dyeing technology, the company maintains high quality standards through its ISO 9001:2015 certified facility. It has a global footprint in over 100 countries and offers a wide range of advanced solar control, safety, and decorative films. With a reputation for quality and innovation, it is a trusted choice worldwide.

- Global Footprint serving over 100 countries
- 350+ shades across sun control, safety, decorative, and specialty films
- Self-sufficient - maintain quality control from raw materials to finished products
- Superior performance and durability



ARCHITECTURAL WINDOW FILM

SALIENT FEATURES



Superior Energy Efficiency: Architectural Window Films reduce the load on air conditioner by rejecting upto 78%* of total solar energy incident on the glass as a result it also reduces electricity bill upto 10%*



Eliminates Glare: Architectural Window Films add to your comfort by eliminating upto 80%* of the sun glare.



Provides Privacy: Architectural Window Films shield interiors and occupants from prying eyes (depending on light intensity). Thereby, providing privacy in your offices and homes.



Rejects Harmful UV & IR Rays: Architectural Window Films protect your family from skin diseases by blocking 99%* UV rays.



Enhanced Safety: Architectural Window Films when bonded on glass makes your glass shatter resistant. This greatly reduces danger from flying splinters in the event of accidental breakage.



Enhances Aesthetics: Architectural Window Films are available in a variety of shades, which adds beauty and enhances the looks of your building.



APPLICATIONS

- Window Glazing • Glass Curtain Glazing • Overhead Canopies
- Shop Front Glass • Glass Partition



SEGMENTS

- Banks • Hospitals • Malls • Hotels
- Corporate Offices • Residence
- Commercial Buildings • Airports
- Government Buildings
- Educational Institutions
- Metro Stations
- Railways



SPECTRALLY SELECTIVE FILMS

The Global Spectrally Selective Film utilizes cutting-edge nanotechnology, is a sophisticated, multi-layered film. It boasts impressive visual light transmission, coupled with unparalleled heat mitigation properties and low solar absorption. This innovative film effectively diminishes heat, fostering a harmonious ambience within any space. During the sweltering summer season, it significantly eases the burden on air conditioning systems, leading to substantial energy and cost savings.

FEATURES & BENEFITS



Excellent glare control for enhanced comfort



Excellent clarity and aesthetics



Well suited for various residential and commercial applications



Allows more natural light



Blocks above 99%* harmful UV to limit fading



Blocks heat effectively



High Total Solar Energy rejection providing enhanced personal comfort



SSF 70 EXTERIOR	SSF 50 EXTERIOR	SSF 70 INTERIOR	SSF 50 INTERIOR
			
THICKNESS (MIL) 3.0	THICKNESS (MIL) 3.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0
VLT 70	VLT 54	VLT 69	VLT 53
UVR >99	UVR >99	UVR >99	UVR >99
TSER 48	TSER 57	TSER 55	TSER 61
NIRB 95 ±3.0	NIRB 95 ±3.0	NIRB 95 ±3.0	NIRB 95 ±3.0
TSA 36	TSA 49	TSA 36	TSA 45
WARRANTY (Years) 10	WARRANTY (Years) 10	WARRANTY (Years) 10	WARRANTY (Years) 10
SPECTRALLY SELECTIVE FILMS			



ICE COOL FILMS

Global Window Film's Ice Cool Film is a cutting-edge solution designed to provide optimal heat rejection and glare reduction while maintaining exceptional clarity. Engineered with advanced nanotechnology, this film offers superior solar performance, effectively blocking out harmful UV rays and significantly reducing interior temperatures. Its innovative construction ensures durability and longevity, making it a cost-effective choice for both residential and commercial applications. With its sleek appearance and outstanding performance, Global Window Film's Ice Cool Film sets a new standard in window film technology, enhancing comfort and energy efficiency in any space.

FEATURES & BENEFITS



Minimum Light Reflection - provides better visibility



Soothing colours to enhance aesthetics of the building facade



Cost effective vsolution with better cooling effect



Reduces glare up to 96%*



Blocks 99%* UV ray - protects upholstery material



SSF 70 EXTERIOR	SSF 50 EXTERIOR	SSF 70 INTERIOR	SSF 50 INTERIOR
			
THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0
VLT 86	VLT 78	VLT 69	VLT 79
UVR >99	UVR >99	UVR >99	UVR >99
TSER 27	TSER 42	TSER 47	TSER 42
NIRB 35	NIRB 73	NIRB 88	NIRB 76
WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 5	WARRANTY (YEARS) 5
ICE COOL FILMS			



SPUTTERED FILMS

Global Window Film's Sputtered Film represents a pinnacle of window film technology, harnessing the power of sputtering deposition to create a high-performance solution for solar control and enhanced comfort. Utilizing a precise process where atoms are ejected from a target material and deposited onto a substrate, this film achieves exceptional optical clarity and durability. Engineered to effectively block UV rays, reduce heat transmission, and minimize glare, Global Window Film's Sputtered Film provides superior performance in both residential and commercial settings. Its advanced construction ensures longevity and reliability, making it a trusted choice for those seeking unparalleled solar protection without compromising visibility or aesthetics.

FEATURES & BENEFITS



Excellent glare control for enhanced comfort



Excellent clarity and aesthetics



Blocks above 99%* harmful UV to limit fading



Well suited for various residential and commercial applications



Maintains Day time Privacy



High Total Solar Energy rejection providing enhanced personal comfort



NICROME 20	NICROME 35	SOLAR BRONZE 20
		
THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0
VLT 21	VLT 34	VLT 21
UVR >99	UVR >99	UVR >99
TSER 68	TSER 56	TSER 74
NIRB 80	NIRB 65	NIRB 85
WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10
SPUTTERED FILMS		



EXTERIOR SPUTTERED FILMS

Global Window Film's Exterior Sputtered Film is a groundbreaking solution tailored for outdoor window applications, delivering unmatched solar control and durability. Engineered to withstand the elements, this film offers superior heat rejection, glare reduction, and UV protection. Applied externally, it acts as a shield against heat and UV rays, enhancing energy efficiency and comfort indoors. With its advanced design and weather-resistant features, Global Window Film's Exterior Sputtered Film is the premier choice for elevating both functionality and aesthetics in architectural projects.

FEATURES & BENEFITS



Excellent glare control for enhanced comfort



Excellent clarity and aesthetics



Blocks above 99%* harmful UV to limit fading



Well suited for various residential and commercial applications



Maintains Day time Privacy



High Total Solar Energy rejection providing enhanced personal comfort



NICROME 20 EXTERIOR	NICROME 35 EXTERIOR
	
THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0
VLT 22	VLT 34
UVR >99	UVR >99
TSER 68	TSER 58
NIRB 80	NIRB 65
WARRANTY (YEARS) 5	WARRANTY (YEARS) 5
EXTERIOR SPUTTERED FILMS	



CERAMIC DUAL REFLECTIVE FILM

This film provides clearer vision at night by providing improved outward vision, rejects solar energy up to 75%*, cuts glare up to 84%*, and blocks 99%* of harmful UV rays.

FEATURES & BENEFITS



Enhances night time views by minimizing interior reflectivity, ensuring clear visibility without distracting glare.



Protects against harmful skin problems due to blocking of UV rays.



Conserves energy due to high level of Total Solar Energy Rejection.



Prevents fading of interiors & furniture due to blocking of UV rays.



Reduces infiltration of harmful 'Electromagnetic' Waves



DUAL REFLECTIVE CHARCOAL 05	DUAL REFLECTIVE CHARCOAL 15	DUAL REFLECTIVE CHARCOAL 25	DUAL REFLECTIVE CHARCOAL 35	DUAL REFLECTIVE CHARCOAL 45
				
THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0
VLT 7	VLT 15	VLT 23	VLT 35	VLT 45
UVR >99	UVR >99	UVR >99	UVR >99	UVR >99
TSER 82	TSER 75	TSER 69	TSER 58	TSER 50
NIRB 88	NIRB 82	NIRB 74	NIRB 62	NIRB 60
WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10
CERAMIC DUAL REFLECTIVE FILM				



REFLECTIVE FILM

Reflective Films are coated with a micro-thin, partially transparent layer of metal and have a mirror like finish. They prevent visibility from outside (area of greater light intensity) during the day and vice-versa during the night. Total solar energy rejection is on higher side.

FEATURES & BENEFITS



Highest cooling by reflecting solar light.



Maintains Day time Privacy



Reduces glare up to 92%*



Highest cooling by reflecting solar light.



REFLECTIVE SILVER 20	REFLECTIVE SILVER 35	REFLECTIVE SILVER 50	REFLECTIVE CHARCOAL 35	REFLECTIVE BRONZE 25
				
THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0
VLT 18	VLT 36	VLT 49	VLT 31	VLT 27
UVR >99	UVR >99	UVR >99	UVR >99	UVR >99
TSER 78	TSER 63	TSER 52	TSER 62	TSER 62
NIRB 80	NIRB 68	NIRB 55	NIRB 68	NIRB 68
WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10

REFLECTIVE GREY 20	REFLECTIVE GREY 15	REFLECTIVE CHARCOAL 20	REFLECTIVE CHARCOAL 20	REFLECTIVE GREEN 10
				
THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0
VLT 17	VLT 11	VLT 18	VLT 10	VLT 13
UVR >99	UVR >99	UVR >99	UVR >99	UVR >99
TSER 70	TSER 69	TSER 65	TSER 70	TSER 73
NIRB 68	NIRB 68	NIRB 68	NIRB 68	NIRB 80
WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10

REFLECTIVE BLUE 15	REFLECTIVE GREY 20	REFLECTIVE BRONZE 10	REFLECTIVE GOLD 15	REFLECTIVE GREY 10 AMS
				
THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 2.0
VLT 13	VLT 22	VLT 10	VLT 14	VLT 8
UVR >99	UVR >99	UVR >99	UVR >99	UVR >99
TSER 75	TSER 58	TSER 74	TSER 76	TSER 80
NIRB 80	NIRB 55	NIRB 80	NIRB 80	NIRB 80
WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 10

REFLECTIVE FILM

EXTERIOR REFLECTIVE FILM

Global Window Film's Exterior Reflective Film is a pioneering solution designed for outdoor window applications, providing exceptional solar control and durability. Engineered to endure various weather conditions, this film offers superior heat rejection, glare reduction, and UV protection. Applied externally, it acts as a shield against heat and UV rays, enhancing energy efficiency and indoor comfort. With its advanced design and reflective properties, Global Window Film's Exterior Reflective Film not only improves functionality but also adds a sleek and modern aesthetic to architectural projects.

FEATURES & BENEFITS



Highest cooling by
reflecting solar light.



Maintains Day
time Privacy



Reduces glare
up to 92%*



Best economical solution
for cooling purpose



R SILVER 15 EXTERIOR (THREEPLY)	R SILVER 20 EXTERIOR (THREEPLY)	ICE COOL GREY 70 EXTERIOR (THREEPLY)
		
THICKNESS (MIL) 2.5	THICKNESS (MIL) 2.5	THICKNESS (MIL) 2.5
VLT 14	VLT 19	VLT 68
UVR >99	UVR >99	UVR >99
TSER 85	TSER 81	TSER 47
NIRB 85	NIRB 80	NIRB 88
WARRANTY (YEARS) 7	WARRANTY (YEARS) 7	WARRANTY (YEARS) 7
EXTERIOR REFLECTIVE FILM		



HIGH PERFORMANCE FILM

This is a double ply (1.5mil) 37 microns thick dyed film with a metallic sheen, which has been specially developed to provide higher heat rejection and to be highly energy efficient, without compromising on light transmission.

FEATURES & BENEFITS



Minimum Light Reflection - provides better visibility



Soothing colours to enhance aesthetics of the building facade



Cost effective solution with better cooling effect



Reduces glare up to 96%*



Blocks 99%* UV ray - protects upholstery material



HP NATURAL 35	HP BLUE 35
	
THICKNESS (MIL) 1.5	THICKNESS (MIL) 1.5
VLT 39	VLT 41
UVR >99	UVR >99
TSER 51	TSER 56
NIRB 50	NIRB 42
WARRANTY (YEARS) 5	WARRANTY (YEARS) 5
HIGH PERFORMANCE FILM	



SAFETY & SECURITY FILM

These are optically clear, transparent, high impact resistant Polyester Films, which once installed on glass, gives additional strength to glass, reduce glare & prevent glass from splintering on impact.

FEATURES & BENEFITS



Protects from flying glass splinters.



Provides protection against injury due to accidental collision.



Deters thieves.



In case of fire, these films have self-extinguishing properties.



Doesn't compromise on the light factor and ensures clear visibility.



APPLICATIONS

- Facade Glasses
- Shower Cubicles
- Showroom fascia Windows
- Glass Doors & Windows
- Glass Railings
- Staircase Glasses
- French Windows



SEGMENTS

- Embassies
- Shopping Malls
- Government Buildings
- Hospitals
- Residential Complexes
- Metro Stations
- Banks
- Airports
- Hotels
- ATMS
- Educational
- Institutions

PRODUCT NAME	THICKNESS (MIL)	TENSILE STRENGTH AT BREAK (MD/TD)	ELONGATION AT BREAK MD	PEEL STRENGTH	IMPACT TEST BS6206 FOR CLASS 'B'
4 MIL SAFETY FILM	4.0	>1900 kg/cm2	>130%	Above 2,500 kg/inch	Passes
7 MIL SAFETY FILM	7.0	>1900 kg/cm2	>140%	Above 2,500 kg/inch	Passes
SAFETY FILM	8.0	>1900 kg/cm2	>140%	Above 2,500 kg/inch	Passes



8 MIL SAFETY FILM	4 MIL SAFETY FILM	7 MIL SAFETY FILM	C 4 MIL R SILVER 20	C 4 MIL R SILVER 35
				
THICKNESS (MIL) 8.0	THICKNESS (MIL) 4.0	THICKNESS (MIL) 4.0	THICKNESS (MIL) 2.0	THICKNESS (MIL) 4.0
VLT 89	VLT 90	VLT 17	VLT 10	VLT 36
UVR >99	UVR >99	UVR >99	UVR >99	UVR >99
TSER 16	TSER 13	TSER 78	TSER 70	TSER 62
NIRB 15	NIRB 15	NIRB 80	NIRB 68	NIRB 68
WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 5	WARRANTY (YEARS) 10	WARRANTY (YEARS) 5

C 4 MIL R SILVER 50	4 MIL CH 20 COMBINATION SAFETY	4 MIL CH 35 COMBINATION SAFETY	4 MIL CH 50 COMBINATION SAFETY
			
THICKNESS (MIL) 4.0	THICKNESS (MIL) 4.0	THICKNESS (MIL) 4.0	THICKNESS (MIL) 4.0
VLT 50	VLT 20	VLT 35	VLT 51
UVR >99	UVR >99	UVR >99	UVR >99
TSER 52	TSER 42	TSER 37	TSER 31
NIRB 55	NIRB 15	NIRB 15	NIRB 15
WARRANTY (YEARS) 10	WARRANTY (YEARS) 10	WARRANTY (YEARS) 5	WARRANTY (YEARS) 5
SAFETY & SECURITY FILM			



PRIVACY FILM

Experience the ultimate in privacy and versatility with Garware Hi-Tech's cutting-edge Privacy Film, designed to effortlessly transform any glass pane into Privacy Glass. Whether opting for a translucent or opaque finish, this innovative film offers the perfect balance of discretion and style.

FEATURES & BENEFITS



Improves ambience & aesthetics.



Provides partial privacy.



Substitute to designer glass.



Decorative designs possible.

PRODUCT NAME	THICKNESS (MIL)	VLT	UVR	TSER	NIRB	WARRANTY (YEARS)
BLACKOUT	2.5	0	99	82	97	5
WHITEOUT 2M	2.0	8	99	77	90	5
MATTE WHITE	2.0	66	99	34	40	5
MATTE BRONZE	2.0	35	99	44	40	5
MATTE GREY	2.0	35	99	44	40	5
MATTE SILVER	2.0	19	99	75	80	5
2 MIL CW FILM	2.0	89	99	15	14	5



DESIGNER FILM

Designer Films offers wide scope for creating different environments and desired ambience for home and office interiors. They are available in unique designs.

FEATURES & BENEFITS



Improves ambience & aesthetics.



Provides partial privacy.



Substitute to designer glass.



Decorative designs possible.

PRODUCT NAME	THICKNESS (MIL)	VLT	UVR	TSER	NIRB	WARRANTY (YEARS)
GRAPHIC BLUE 35	1	36	99	34	15	3
GRAPHIC YELLOW 80	1	83	99	22	15	3
GRAPHIC RED 20	1	23	99	31	15	3
ICE CUBE	1	0	0	0	0	0
ICE LINE	1	0	0	0	0	0
ICE BLINDS	1	0	0	0	0	0



ANTIGRAFFITY FILM

Antigraffiti Films are made with a specially made mounting adhesive, which makes it easy to remove and replace with a fresh layer of protective film, these films can be applied on exterior surface of the glass. These are specially designed optically clear, distortion-free films and can be applied to windows, mirrors, and other surfaces. The films nearly invisible once installed, provide a removable, surface that can reduce or eliminate the need for expensive glass replacement. These films have a specially developed Scratch resistance coating which can withstand exterior climatic conditions without disturbing the clarity of laminate.

Anti Graffiti Film is available in 4 MIL and 6 MIL thicknesses for both interior and exterior applications.

FEATURES & BENEFITS



Highest cooling by reflecting solar light.



Maintains Day time Privacy



Reduces glare up to 92%

PRODUCT NAME	THICKNESS (MIL)	TENSILE STRENGTH AT BREAK (MD/TD)	ELONGATION AT BREAK MD	PEEL STRENGTH
CLEAR EXTERIOR ANTIGRAFFITY FILM	4.0	>1800 kg/cm2	130%	2020 Grams/inch



WHITEBOARD FILM

Garware "Quick Erase Whiteboard Film" is a multilayer laminate produced by laminating specially formulated white opaque film with a permanent pressure-sensitive adhesive and silicon release liner. Laminate has a strong hard coat and long-lasting surface.

It has the ability to transform your any flat surfaces in meeting rooms, offices, classrooms, residences & hotels into writable & projectable Whiteboard without sacrificing interior space.

FEATURES & BENEFITS



Easy to install on any smooth surface eg. Glass, Acrylic sheet, CRCA sheet, Oil painted smooth wall, MDF etc.



Excellent dimensional stability and conversion properties on computerized cutters.



Excellent write-on and easy wipe-off performance.



Lower cost compared to a new Whiteboard



Excellent adhesion to various substrates.



Can be cut into any size or shape and affixed like a sticker on any flat surface.



APPLICATIONS

- Writing Menu Board in Kitchen
- Whiteboard for Hospitals
- School / Colleges / Institutions
- Coaching Classes
- Offices / Meeting Rooms
- Hotels
- Retail Shops
- Study Rooms

FILM TYPE	PET FILMS THICKNESS	ADHESIVE TYPE	LINER	PEEL ADHESION	FLAMMABILITY	TENSILE STRENGTH AT BREAK MD	ELONGATION AT BREAK MD	SERVICE TEMPERATURE	SURFACE TYPE
Polyester Film	150 Micron	Acrylic Solvent based Pressure - Sensitive Adhesive	Silicon Coated Polyeste	2.5 Kgs / 25mm 180 peel	Self Extinguishing	1500 kg / cm2	Above 125%	-20° c to + 50° c	Flat



AWARDS & ACCOLADES

All our products are tested and certified by global and regional agencies, validating our technical excellence



Certification for products that offer significant UV protection to help reduce skin cancer risks.



BS EN 12600 certification ensuring resistance of glass to attacks, & ability of films to withstand break-ins or intrusions.



ASHRAE 90.1 Energy performance standard for buildings, including films that contribute to energy saving



Quality management standard ensuring consistent production and high quality of window films.



Rating system for window films regarding thermal and optical performance for buildings.



Tested & align to the ASTM standards for peel adhesion, tear resistant, puncture resistance & tensile strength.



European Union regulation, restricts hazardous substances in film, ensuring safety and environmental compliance



Globally recognized trademark that indicates a product has been tested for safety, quality, and sustainability



WINDOW FILM TERMINOLOGY

Ply: Ply is used to display the number of separate layers of polyester film that are used in the manufacturing process to make a particular window film product.

Example: A 1-ply product would consist of one single layer of polyester film where a 3-ply product would be made with three separate layers of various types of polyester film.

MIL THICKNESS: Mil is the unit of measurement equal to one thousandth of an inch (.001). Mil thickness is used in the GWF nomenclature to display the overall thickness of the window film product. 1 MIL = 25 micron

SOLAR ENERGY TRANSMITTED: Solar energy transmitted is the ratio of the total solar energy passing through the glazing system to the amount of total solar energy falling on that glazing system.

SOLAR ENERGY ABSORBED: Solar energy absorbed is the ratio of the amount of total solar energy directly absorbed by the glazing system to the amount of total solar energy falling on that glazing system.

SOLAR ENERGY REFLECTED: Solar energy reflected is the ratio of the amount of the total solar energy directly reflected by the glazing system to the amount of total solar energy falling on that glazing system.

VISIBLE LIGHT TRANSMITTED (VLT): Visible light transmitted is the ratio of visible solar energy (380 - 750nm) that passes through the glazing system to the total visible solar energy falling on the glazing system.

VISIBLE LIGHT REFLECTED (VLR): Visible light rejected is the total percentage of visible light reflected by a glazing system that can be seen visually. GWF performance results includes Interior and exterior VLR specifications on all films.

ULTRAVIOLET REJECTED (UVR): Ultraviolet rejected is the ratio of ultraviolet solar energy (wavelength of 300 - 380nm) that is transmitted by a glazing system to the total solar ultraviolet energy falling on the glazing system. Note: UV energy is not visible to human eye and is mainly responsible for the degradation and fading of organic matter, upholstery, colors, etc.

SHADING COEFFICIENT (SC): Shading coefficient is the ratio of the solar heat gain through a given glazing system to the solar heat gain under the same conditions for clear, unshaded double strength window glass. The lower the shading coefficient number, the better the sun control capability of the glazing system.

SOLAR HEAT REDUCTION (SHR): Solar heat reduction, is the reduction in solar energy gained by a building from the sun, often by the addition of solar control window film.

TOTAL SOLAR ENERGY REJECTED (TSER): Total solar energy rejected is the percentage of incident solar energy rejected by a glazing system which is equal to solar reflectance plus the part of solar absorption which is re-radiated outward.

GLARE REDUCTION (GR): Glare reduction is the percentage of reduction in visible light transmission through a glazing system without film to that with film.

EMISSION (E): Emissivity is a measure of surface's ability to absorb or reflect far-infrared radiation. The lower the emissivity the higher the far-infrared reflection. Infrared radiation is that which is sensed by the body as heat. The lower the emissivity rating, the better the insulating qualities of the glazing system.

U-VALUE: U-value is a measure of the rate of heat conductivity of a glazing system, independent of solar radiation. When multiplied by the difference between indoor and outdoor temperature in Fahrenheit, it gives the amount of heat in BTUs/hours/square foot of glazing. Note: the greater the difference between indoor and outdoor temperatures, the greater the U-value, so it is important to use the U-values closely representing your conditions. The lower the U-value the better the insulation qualities of the glazing system.

NIRB: Near Infra Red Blocking.

Disclaimer:

* All the values as applied on 1/8" (3mm) thick clear glass.

* Possible Variation (+/-) 5%

* Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.



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