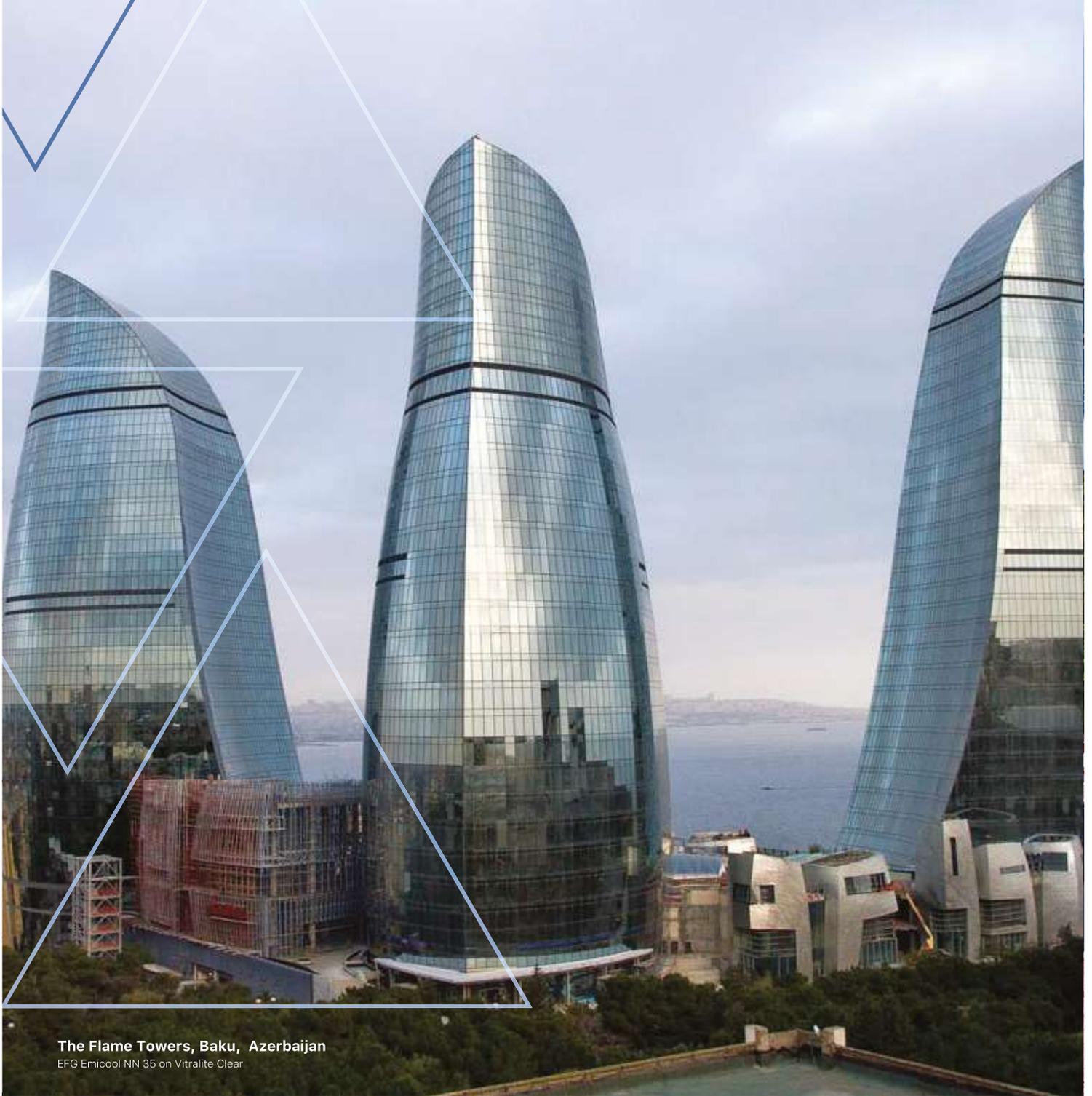




الإمارات لألواح
الرجاج الفسطح
EMIRATES FLOAT GLASS



The Flame Towers, Baku, Azerbaijan
EFG Emicool NN 35 on Vitralite Clear



EFG Product Brochure





CLEAR VISION UNBREAKABLE TRUST

EMIRATES TOWER

EmiCool NN48, NN51 & SS08 on Clear, NN41 on Pink, NN51 on Blue Green

EFG COMPANY PROFILE BRIEF

Company Profile- Brief

Organization Details

Company Name	Emirates Float Glass Co. LLC
Company Registration Number	576124
Registration Issued Year	06/02/2006
Address	353, MR-2, ICAD-2, P.O. Box: 8869, Mussafah, Abu Dhabi, UAE
Telephone No.	+971-2-5994000
Fax No.	+971-2-5502682
Email	info@efgme.com
EFG Website	www.efgme.com
Business Scope	Manufacture & Supply of Clear & Tinted Float glass (Bronze, Grey & Green), Pyrolytic & Magnetron Sputter Coated Solar Control Glass, Armax Anti-Reflective Glass
Technology Partner	Float Glass Plant - PPG, USA Magnetron Sputter Coated Plant - Applied Materials, USA
Sole Proprietor	Dubai Investments PJSC (www.dubaiinvestments.com)

Certification Details

Certification Name	Standard	Certificate Registration No.
Occupational Health and Safety Management System	ISO 45001:2018	12 117 47402 TMS
Quality Management System	ISO 9001:2015	12 100 47402 TMS
Environmental Management System	ISO 14001:2015	12 104 47402 TMS
Environmental Product Declaration (EPD)	ISO 14025 & EN 15804:2012+A2:2019/AC: 2021	

OUR MISSION STATEMENT



EFG's vision is to maintain continual growth by creating our own benchmark; we compete with our own performance to improve further by establishing clear goals with a vision and unbreakable trust driven by customer satisfaction, integrity, teamwork, and innovation.



OUR CERTIFICATES

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

Standard : ISO 45001:2018
Certificate Registration No.: 12 117 47402 TMS

QUALITY MANAGEMENT SYSTEM

Standard : ISO 9001:2015
Certificate Registration No.: 12 100 47402 TMS

ENVIRONMENTAL MANAGEMENT SYSTEM

Standard : ISO 14001:2015
Certificate Registration No.: 12 104 47402 TMS

IN-COUNTRY VALUE CERTIFICATE

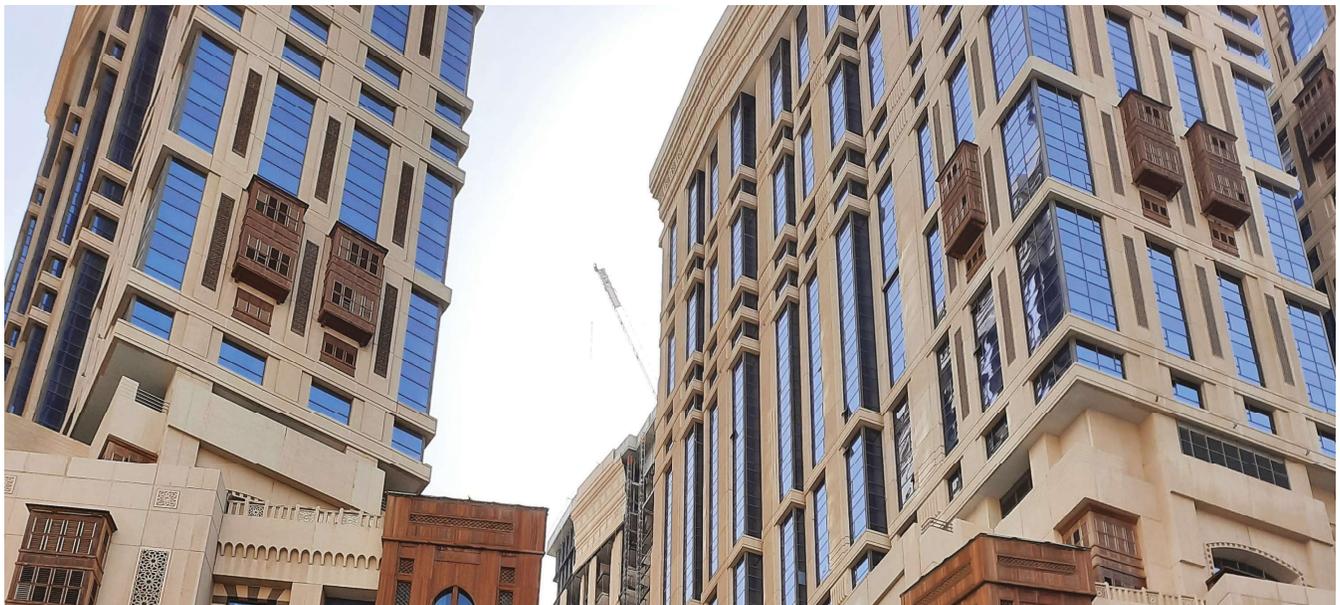
Standard : IN-1001318I

GOLDEN LISTED

<https://idb.added.gov.ae/incentives/Golden-List>

ENVIRONMENTAL PRODUCT DECLARATION (E.P.D)

Standard : ISO 14025 & EN 15804:2012+A2:2019/AC:2021



JABAL OMAR
- SAUDI ARABIA
EmiCool Elite Blue 30

CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

認證證書

CERTIFICATE

ZERTIFIKAT



Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that



Emirates Float Glass L.L.C
353MR2, ICAD 2, Mussafah,
Abu Dhabi
United Arab Emirates

has established and applies
a Quality Management System for

**Manufacture and Supply of Clear,
Tinted and Coated Float Glass Products.**

An audit was performed, Order No. **707020611**.
Proof has been furnished that the requirements
according to

DIN EN ISO 9001:2015

are fulfilled.

The certificate is valid from **2023-03-23** until **2026-02-12**.

Previous certificate valid until 2023-02-12.

Certificate Registration No.: **12 100 47402 TMS**.

Head of Certification Body
Munich, 2023-03-23



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認證證書

CERTIFICATE

ZERTIFIKAT



Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that



Emirates Float Glass L.L.C
353MR2, ICAD 2, Mussafah,
Abu Dhabi
United Arab Emirates

has established and applies
an Environmental Management System for

**Manufacture and Supply of Clear,
Tinted and Coated Float Glass Products.**

An audit was performed, Order No. **707020611**.

Proof has been furnished that the requirements
according to

DIN EN ISO 14001:2015

are fulfilled.

The certificate is valid from **2023-03-23** until **2026-02-12**.

Previous certificate valid until 2023-02-12.

Certificate Registration No.: **12 104 47402 TMS**.

Head of Certification Body
Munich, 2023-03-23



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Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that



Emirates Float Glass L.L.C
353MR2, ICAD 2, Mussafah,
Abu Dhabi
United Arab Emirates

has established and applies
an Occupational Health and Safety Management System for

**Manufacture and Supply of Clear,
Tinted and Coated Float Glass Products.**

An audit was performed, Order No. **707020611**.
Proof has been furnished that the requirements
according to

DIN ISO 45001:2018

are fulfilled.

The certificate is valid from **2023-03-23** until **2026-03-15**.

Previous certificate valid until 2023-03-15.

Certificate Registration No.: **12 117 47402 TMS**.

Head of Certification Body
Munich, 2023-03-23



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IN-COUNTRY VALUE CERTIFICATE



Certificate No.: 137472
Issue Date: 11.04.2025
Valid Until: 30.11.2025

EMIRATES FLOAT GLASS CO LLC BRANCH ABU DHABI

62.36%

Company General Information

License No.: IN-1001318
Company Type: Non SME in UAE
Financial Year End Date: 31.12.2023
Company Based In: Within UAE
Company Business: GOOD MANUFACTURER



For Cases of Re-Certification

Re-Certification (*) No.:

Reason for this Re-Certification: Scan the QR code to verify status

Signed By

On behalf of Supplier

Name:

Saleem Raza

Designation:

General Manager

Verified as per ICV Agreed Upon Procedures (AUP)

On behalf of Certification Body

Name:

Manish Laligam

Designation:

Managing Director

Electronically signed by
Manish Laligam

Company:

Protiviti Member Firm Middle East Consultancy L.L.C.

Certificate Issued Based on ICV Version: 3.0



OUR PRODUCTS

PRODUCT TYPE	PRODUCT FAMILY	PRODUCT	THICKNESS AVAILABILITY
FLOAT GLASS	VITRALITE CLEAR	CLEAR FLOAT GLASS	2MM, 2.5MM, 3MM, 3.5MM, 4MM, 5MM, 6MM, 8MM, 10MM, 12MM
TINTED FLOAT GLASS	VITRALITE BRONZE, GREY, GREEN	TINTED FLOAT GLASS	4MM, 5MM, 6MM, 8MM, 10MM, 12MM
PYROLYTIC SOLAR CONTROL GLASS	VITRACOO - CLEAR, BRONZE, GREY, GREEN	SOLAR CONTROL GLASS	
	VISTASOL CLEAR & GREEN		
MAGNETRON SPUTTER COATED VACUUM DEPOSITION (MSVD) COATING			
SOLAR CONTROL GLASS	EMICOOL - ST SERIES	SOLAR CONTROL GLASS	4MM, 5MM, 6MM, 8MM, 10MM, 12MM
	EMICOOL - CLASSIC SERIES (CR-14, SS20, SS25, SS30, AS 30)		
	EMICOOL VISION COOL SERIES GREY, GREEN, GOLD, BRONZE, LIGHT GREY, DARK GREY, BLUE, NEUTRAL 67		
SOLAR CONTROL & LOW E GLASS	EMICOOL NN SERIES - NN25, 30, 30 SL, 35, 40, 50, 60, 65	SOLAR CONTROL LOW E	
	EMICOOL ELITE SERIES - GOLD, BRONZE, BLUE 30, 40, 50, ELITE BLUE GREEN		
	EMICOOL DSR SERIES - DSR I, II, II Plus, III (SILVER TONALITY)		
CLEAR LOW E GLASS	Emicool Plus T NE 70, NE 72, NE 80	CLEAR LOW E GLASS	
ADVANCED LOW E SERIES	EMICOOL SUPERVISION (SV) SV 40-21, SV 50-25, SV 60-32, SV 70-36 (Neutral Series), SV Mistral 47-25	DOUBLE LOW E NEUTRAL GLASS	
	EMICOOL SUPERLITE (SL) SL 41-20 BLUE, 32-17 (NEUTRAL TINTED TONALITY) SUPERLITE BLUE 41-20 & SUPERLITE GREY 40 (NEUTRAL TINT TONALITY)	DOUBLE LOW E - NEUTRAL TINT TONALITY	
ARMAX ANTI-REFLECTIVE GLASS	EFG ARMAX SINGLE SIDE ANTI-REFLECTIVE GLASS	SS ANTI-REFLECTIVE GLASS FOR PRISTINE GLAZING	

EFG EMICOOL ADVANCED LOW E (DOUBLE LOW E) MAGNETRON SPUTTER COATED FLOAT GLASS

EFG DOUBLE LOW E ON #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)

EFG SUPER VISION SERIES	COLOR APPEARANCE	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS- NFRC 100 :2010 SUMMER DAY				
		TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-12MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQMTR/ KELVIN
EMICOOL SUPER VISION 40-21	NEUTRAL	41	19	14	81	17	29	0.23	1.60	1.35	1.61	1.35	0.22	0.25	168
EMICOOL SUPER VISION 50-25	NEUTRAL	49	20	16	90	21	31	0.28	1.62	1.37	1.61	1.36	0.25	0.29	195
EMICOOL SUPER VISION 60-32	NEUTRAL	62	16	19	89	27	34	0.35	1.60	1.35	1.59	1.34	0.32	0.37	241
EMICOOL SUPER VISION 70-36	NEUTRAL	66	12	14	93	31	29	0.40	1.63	1.38	1.63	1.38	0.36	0.42	273
EMICOOL SUPER VISION 70-36 ON GREY	GREY	32	6	12	90	16	12	0.24	1.61	1.36	1.63	1.38	0.23	0.26	177
EMICOOL SUPER VISION 70-36 ON BRONZE	BRONZE	39	7	12	95	19	14	0.27	1.61	1.36	1.63	1.38	0.25	0.29	193
EMICOOL SUPER VISION MISTRAL 47-25	NEUTRAL	45	17	14	93	19	31	0.26	1.70	1.40	1.66	1.40	0.24	0.27	181
EFG SUPER LITE SERIES															
EMICOOL SUPERLITE 41-20	BLUE	41	17	12	81	15	29	0.20	1.59	1.34	1.58	1.32	0.20	0.23	155
EMICOOL SUPERLITE GREY 40	NEUTRAL LIGHT GREY	36	11	14	85	16	24	0.22	1.66	1.42	1.67	1.42	0.22	0.25	168

EFG EMICOOL DSR LOW E ON NEUTRAL #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)

EMICOOL DSR SERIES	COLOR APPEARANCE	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS- NFRC 100 :2010 SUMMER DAY					SPANDREL GLASS
		TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-12MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQMTR/ KELVIN	
EMICOOL DSR 1	SILVER	23	36	22	88	13	36	0.18	1.65	1.41	1.65	1.40	0.18	0.21	143	SS 20
EMICOOL DSR 2	SILVER	29	35	17	88	16	38	0.22	1.61	1.36	1.62	1.36	0.21	0.24	161	SS 20
EMICOOL DSR 2 PLUS	SILVER	28	41	19	92	16	41	0.22	1.61	1.36	1.60	1.34	0.20	0.23	159	SS 20
EMICOOL DSR 3	SILVER	34	35	17	91	19	38	0.25	1.63	1.38	1.62	1.37	0.24	0.27	183	SS 20

ITCC – KSA
EmiCool NN 40 on Clear



EFG EMICOOL SUN T LOWE ON NEUTRAL ON #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)

EMICOOL SUN T SERIES	COLOR APPEARANCE	VISIBLE LIGHT			COLOUR REDEFINING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY					SPANDREL GLASS
		TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR- 6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-12MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQMTR/ KELVIN	
EMICOOL SUN T NN 25	NEUTRAL GREY	19	27	23	95	11	31	0.17	1.67	1.43	1.67	1.43	0.17	0.20	136	AS 14
EMICOOL SUN T NN 30 SL	NEUTRAL GREY	29	28	18	93	17	33	0.23	1.64	1.40	1.65	1.37	0.22	0.25	172	SS 30
EMICOOL SUN T NN 30	NEUTRAL GREY	30	26	14	93	18	28	0.25	1.76	1.54	1.77	1.54	0.24	0.28	189	AS 20
EMICOOL SUN T NN 35	NEUTRAL GREY	34	23	14	91	21	26	0.28	1.80	1.58	1.81	1.59	0.27	0.32	211	AS 20
EMICOOL SUN T NN 40	NEUTRAL	39	20	13	93	24	25	0.30	1.74	1.51	1.74	1.51	0.30	0.35	230	AS 20
EMICOOL SUN T NN 50	NEUTRAL	48	19	12	94	29	25	0.37	1.72	1.49	1.72	1.49	0.36	0.41	270	AS 20
EMICOOL SUN T NN 60	NEUTRAL	52	17	10	94	34	21	0.42	1.80	1.58	1.81	1.59	0.41	0.47	308	ST LIGHT GREY
EMICOOL SUN T NN 65	NEUTRAL	60	14	10	94	38	20	0.46	1.77	1.55	1.78	1.56	0.44	0.51	334	ST LIGHT GREY

EFG EMICOOL PLUS T NE 80 ON NEUTRAL & TINTED SUBSTRATE LOW E ON #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)

EMICOOL PLUS T SERIES	COLOR APPEARANCE	VISIBLE LIGHT			COLOUR REDEFINING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY					SPANDREL GLASS
		TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR- 6 (W/ SQMTR/ KEL)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-12MM AIR-6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQMTR/ KELVIN	
EMICOOL PLUS T NE 80 ON CLEAR	NEUTRAL	76	16	15	97	46	28	0.55	1.58	1.33	1.57	1.31	0.52	0.60	387	ST LIGHT GREY
EMICOOL PLUS T NE 80 ON GREY	GREY	36	7	13	94	23	11	0.30	1.58	1.33	1.57	1.31	0.31	0.36	235	ST LIGHT GREY
EMICOOL PLUS T NE 80 ON BRONZE	BRONZE	45	8	13	94	28	14	0.34	1.58	1.33	1.57	1.31	0.35	0.40	263	ST BRONZE
EMICOOL PLUS T NE 80 ON GREEN	GREEN	66	13	14	90	31	11	0.39	1.58	1.33	1.57	1.31	0.37	0.43	280	ST GREEN
EFG EMICOOL PLUS T NE 72 LOW E ON ON NEUTRAL & TINTED SUBSTRATES #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)																
EMICOOL PLUS T NE 72 ON CLEAR	NEUTRAL	72	14	12	95	43	25	0.51	1.69	1.46	1.71	1.46	0.49	0.56	366	ST LIGHT GREY
EMICOOL PLUS T NE 72 ON GREY	GREY	34	6	11	92	23	10	0.29	1.69	1.46	1.71	1.46	0.29	0.34	227	ST LIGHT GREY
EMICOOL PLUS T NE 72 ON BRONZE	BRONZE	42	7	11	95	25	13	0.33	1.69	1.46	1.71	1.46	0.33	0.38	252	ST BRONZE
EMICOOL PLUS T NE 72 ON GREEN	GREEN	62	12	12	88	29	10	0.37	1.69	1.46	1.71	1.46	0.36	0.41	271	ST GREEN
EFG EMICOOL PLUS T NE 70 LOW E ON ON NEUTRAL & TINTED SUBSTRATES #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)																
EMICOOL PLUS T NE 70 ON CLEAR	NEUTRAL	64	11	10	94	42	15	0.51	1.87	1.66	1.88	1.67	0.50	0.57	373	ST LIGHT GREY
EMICOOL PLUS T NE 70 ON GREY	GREY	31	6	9	93	22	8	0.30	1.87	1.66	1.88	1.67	0.31	0.36	241	ST LIGHT GREY
EMICOOL PLUS T NE 70 ON BRONZE	BRONZE	37	7	9	96	26	9	0.33	1.87	1.66	1.88	1.67	0.34	0.39	260	ST BRONZE
EMICOOL PLUS T NE 70 ON GREEN	GREEN	55	10	10	88	27	8	0.35	1.87	1.66	1.88	1.67	0.36	0.41	275	ST GREEN

EFG EMICOOL ELITE LOW E ON NEUTRAL #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)

EMICOOL ELITE SERIES	COLOR APPEARANCE	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673				AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY				SPANDREL GLASS
		TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR- 6 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-16MM AIR- 6 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-12MM AIR- 6 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-16MM AIR- 6 (W/ SQ.MTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQ.MTR/ KELVIN	
EMICOOL ELITE BLUE 30	NEUTRAL BLUE	24	27	13	95	16	27	0.22	1.77	1.54	1.79	1.56	0.23	0.26	179	ST BLUE
EMICOOL ELITE BLUE 40	NEUTRAL BLUE	38	21	16	95	23	24	0.30	1.72	1.49	1.74	1.50	0.29	0.33	222	ST BLUE
EMICOOL ELITE BLUE 50	NEUTRAL BLUE	46	23	16	94	29	24	0.36	1.73	1.50	1.76	1.52	0.36	0.41	272	ST BLUE
EMICOOL ELITE GREEN 30	NEUTRAL GREEN	23	41	13	90	20	29	0.26	1.75	1.52	1.76	1.53	0.27	0.31	205	ST GREEN
EMICOOL ELITE GOLD	GOLD	14	34	29	81	9	41	0.14	1.66	1.42	1.68	1.43	0.14	0.16	111	ST GOLD



EFG Vision Cool Solar Control Glass on #2- Airspace- 6mm EFG NE 80 Clear Low E Glass(Double Glazed Unit)

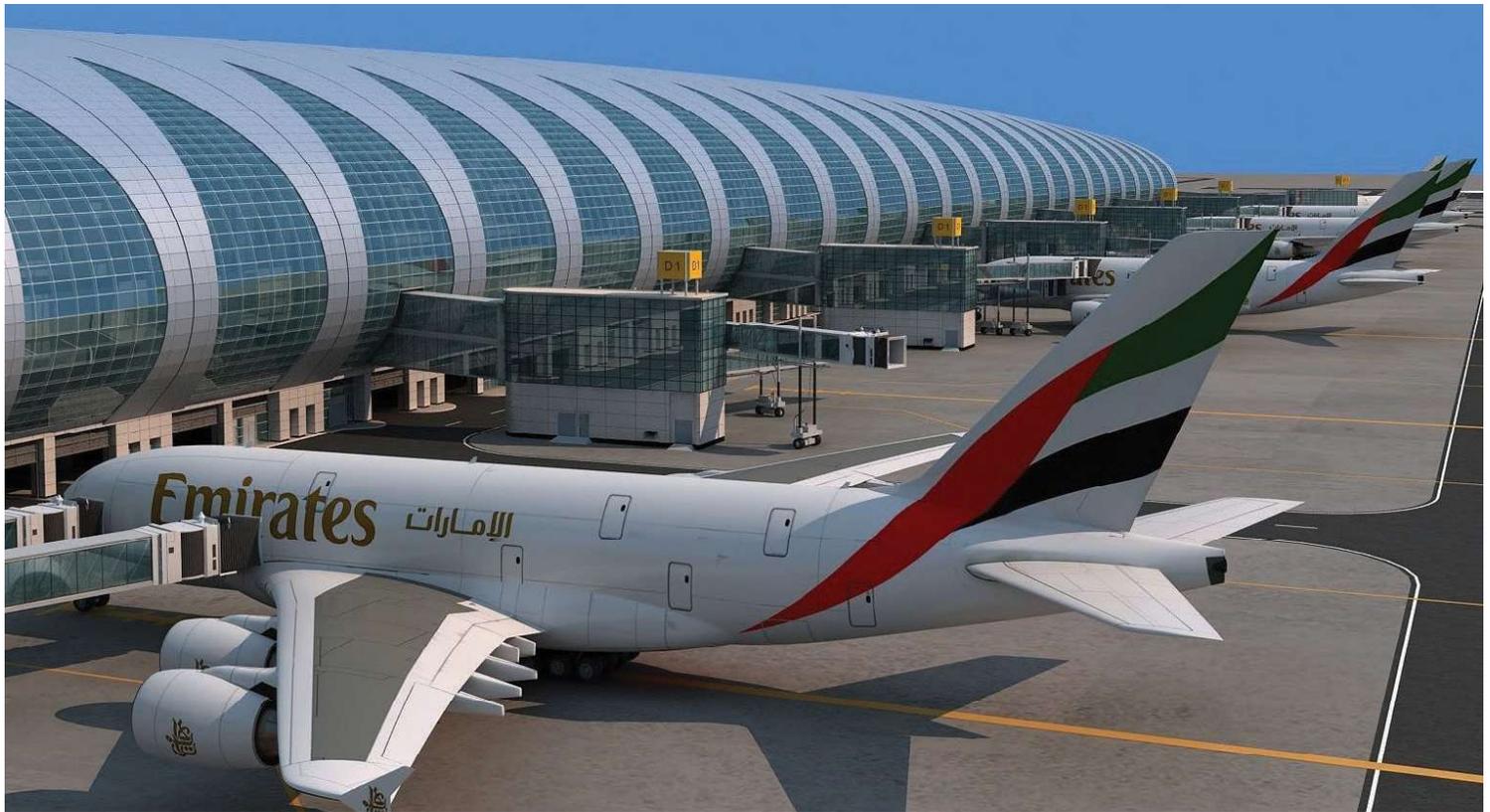
VISION COOL SERIES	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS - EN 410 / 673			AMERICAN STANDARDS - NFRC 100:2010 SUMMER DAY				
	TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR-S (W/SQ.MTR/ KELVIN)	U- VALUE 6-16MM AIR-S (W/SQ.MTR/ KELVIN)	U- VALUE 6-12MM AIR-S (W/SQ.MTR/ KELVIN)	U- VALUE 6-16MM AIR-S (W/SQ.MTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQ.MTR/ KELVIN
VISION COOL GREY	22	6	15	95	14	9	0.21	1.58	1.33	1.57	1.31	0.22	0.25	168
VISION COOL dark GREY	11	15	15	97	7	27	0.12	1.58	1.33	1.57	1.31	0.13	0.15	104
VISION COOL Light Grey	50	12	21	96	30	15	0.40	1.58	1.33	1.57	1.31	0.39	0.45	291
VISION COOL Blue	17	13	17	95	11	12	0.18	1.58	1.33	1.57	1.31	0.18	0.21	143
VISION COOL Bronze	16	11	13	95	9	15	0.16	1.58	1.33	1.57	1.31	0.17	0.19	131
VISION COOL Green	20	14	14	94	13	11	0.20	1.58	1.33	1.57	1.31	0.20	0.23	158
VISION COOL GOLD	23	22	18	95	14	23	0.20	1.58	1.33	1.57	1.31	0.21	0.24	162
VISION COOL Neutral 67	57	20	22	97	35	24	0.45	1.58	1.33	1.57	1.31	0.43	0.50	324

EFG Vision Cool Solar Control Glass on #2- Airspace- 6mm EFG Vitralite Clear Float Glass (Double Glazed Unit)

VISION COOL GREY	23	6	13	94	18	8	0.28	2.50	2.40	2.49	2.35	0.30	0.35	239
VISION COOL DARK GREY	12	15	14	97	9	26	0.32	2.33	2.20	2.38	2.23	0.18	0.21	151
VISION COOL Light Grey	52	12	15	96	42	9	0.51	2.71	2.59	2.70	2.59	0.52	0.60	398
VISION COOL blue	19	13	15	94	14	10	0.23	2.40	2.20	2.40	2.25	0.25	0.29	200
VISION COOL bronze	17	10	11	94	13	14	0.21	2.42	2.26	2.41	2.27	0.23	0.27	188
VISION COOL green	21	13	12	92	17	9	0.26	2.46	2.31	2.45	2.31	0.28	0.32	222
VISION COOL gold	24	22	16	96	19	21	0.27	2.48	2.33	2.47	2.33	0.29	0.33	229
VISION COOL Neutral 67	60	20	21	97	50	14	0.57	2.79	2.68	2.77	2.67	0.59	0.67	446

EFG Vision Cool Solar Control Glass on #2- Monolithic(Single Glazing) Glass

VISION COOL SERIES	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS - EN 410 / 673		AMERICAN STANDARDS - NFRC 100:2010 SUMMER DAY				
	TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE (W/SQ.MTR/ KELVIN)	U- VALUE (W/SQ.MTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQ.MTR/ KELVIN	
VISION COOL GREY	26	5	7	96	23	8	0.39	4.90	4.0	0.40	0.46	322	
VISION COOL dark GREY	13	15	7	98	11	26	0.48	5.50	3.8	0.26	0.30	219	
VISION COOL Light Grey	58	9	15	97	51	7	0.62	5.40	4.7	0.63	0.72	493	
VISION COOL Blue	21	13	9	95	17	10	0.32	4.70	3.8	0.34	0.39	278	
VISION COOL Bronze	19	10	4	95	15	14	0.31	4.70	3.8	0.32	0.37	264	
VISION COOL Green	24	13	5	93	20	9	0.36	4.80	3.9	0.38	0.43	304	
VISION COOL GOLD	27	21	11	95	20	11	0.36	4.80	4.0	0.37	0.43	303	
VISION COOL Neutral 67	66	16	17	99	61	11	0.67	5.60	5.0	0.69	0.79	538	



DUBAI INTERNATIONAL AIRPORT
EmiCool NE270 on Azurlite

EFG CLASSIC SOLAR CONTROL SERIES ON #2 - AIRSPACE 12MM/16, - 6, EFG NE 80 CLEAR LOW E GLASS (DOUBLE GLAZED UNIT)

EMICOOL CLASSIC SERIES	COLOR APPEARANCE	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY				
		TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR- 6 (W/ SQMTR/ KELVIN)	U- VALUE 6-12MM AIR- 6 (W/ SQMTR/ KELVIN)	U- VALUE 6-12MM AIR- 6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQMTR/ KELVIN
EMICOOL CLASSIC T AS 14	SILVER GREY	10	35	42	95	7	29	0.13	1.58	1.33	1.57	1.31	0.13	0.14	101
EMICOOL CLASSIC T AS 20	SILVER GREY	17	25	35	95	11	21	0.17	1.58	1.33	1.57	1.31	0.18	0.20	138
EMICOOL CLASSIC T AS 30	SILVER GREY	24	18	30	94	15	16	0.22	1.58	1.33	1.57	1.31	0.22	0.26	172
EMICOOL CLASSIC T AS 35	SILVER GREY	30	14	26	96	19	14	0.27	1.58	1.33	1.57	1.31	0.27	0.31	206
EMICOOL CLASSIC T SS 08	SILVER	6	46	39	93	4	37	0.10	1.58	1.33	1.57	1.31	0.10	0.11	79
EMICOOL CLASSIC T SS 14	SILVER	11	39	34	90	7	31	0.13	1.58	1.33	1.57	1.31	0.13	0.15	104
EMICOOL CLASSIC T SS 20	SILVER	16	33	29	90	10	27	0.16	1.58	1.33	1.57	1.31	0.16	0.19	127
EMICOOL CLASSIC T SS 25	SILVER	21	30	24	91	13	24	0.19	1.58	1.33	1.57	1.31	0.19	0.22	151
EMICOOL CLASSIC T SS 30	SILVER	26	26	22	92	16	21	0.23	1.58	1.33	1.57	1.31	0.23	0.26	176
EMICOOL CLASSIC T CR 14	SILVER	12	46	23	92	7	36	0.12	1.58	1.33	1.57	1.31	0.12	0.14	100

EFG CLASSIC SOLAR CONTROL SERIES ON #2 - AIRSPACE 12MM/16, - 6, EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)

EMICOOL CLASSIC SERIES	COLOR APPEARANCE	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY				
		TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR- 6 (W/ SQMTR/ KELVIN)	U- VALUE 6-12MM AIR- 6 (W/ SQMTR/ KELVIN)	U- VALUE 6-12MM AIR- 6 (W/ SQMTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQMTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQMTR/ KELVIN
EMICOOL CLASSIC T AS 14	SILVER GREY	10	35	44	95	9	28	0.16	2.42	2.26	2.41	2.27	0.18	0.21	150
EMICOOL CLASSIC T AS 20	SILVER GREY	18	25	36	94	14	20	0.24	2.55	2.41	2.54	2.41	0.25	0.29	198
EMICOOL CLASSIC T AS 30	SILVER GREY	25	18	30	94	20	15	0.30	2.63	2.49	2.63	2.51	0.31	0.36	247
EMICOOL CLASSIC T AS 35	SILVER GREY	32	13	26	95	26	11	0.35	2.67	2.54	2.68	2.56	0.38	0.43	294
EMICOOL CLASSIC T SS 08	SILVER	7	46	40	93	6	36	0.12	2.30	2.13	2.29	2.14	0.13	0.15	113
EMICOOL CLASSIC T SS 14	SILVER	12	39	34	89	9	31	0.16	2.41	2.25	2.40	2.25	0.18	0.21	147
EMICOOL CLASSIC T SS 20	SILVER	17	33	29	89	13	26	0.21	2.48	2.33	2.47	2.33	0.22	0.25	179
EMICOOL CLASSIC T SS 25	SILVER	22	30	24	90	17	23	0.26	2.55	2.40	2.52	2.39	0.26	0.30	210
EMICOOL CLASSIC T SS 30	SILVER	27	26	21	91	21	20	0.30	2.59	2.45	2.59	2.47	0.31	0.36	245
EMICOOL CLASSIC T CR 14	SILVER	12	46	23	91	9	36	0.16	2.37	2.21	2.37	2.22	0.17	0.19	139



YAS MALL - SKYLIGHT

EFG CLASSIC SOLAR CONTROL SERIES ON #2 (SINGLE GLAZED UNIT)

EMICOOL CLASSIC SERIES	COLOR APPEARANCE	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673		AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY			
		TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE (W/ SQ.MTR/ KELVIN)	U- VALUE (W/ SQ.MTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/SQ.MTR/ KELVIN
EMICOOL CLASSIC T AS 14	SILVER GREY	11	35	44	96	10	28	0.23	4.69	3.81	0.25	0.29	211
EMICOOL CLASSIC T AS 20	SILVER GREY	19	24	39	96	17	19	0.33	5.01	4.19	0.34	0.39	276
EMICOOL CLASSIC T AS 30	SILVER GREY	27	18	28	95	25	14	0.39	5.21	4.49	0.41	0.47	334
EMICOOL CLASSIC T AS 35	SILVER GREY	35	12	22	97	32	10	0.46	5.30	4.65	0.48	0.56	386
EMICOOL CLASSIC T SS 08	SILVER	7	46	39	94	7	36	0.18	4.40	3.49	0.19	0.22	167
EMICOOL CLASSIC T SS 14	SILVER	13	39	32	90	11	31	0.24	4.66	3.78	0.25	0.28	209
EMICOOL CLASSIC T SS 20	SILVER	19	33	26	90	16	26	0.27	4.84	3.98	0.30	0.34	248
EMICOOL CLASSIC T SS 25	SILVER	24	29	20	91	20	23	0.33	5.00	4.14	0.35	0.40	284
EMICOOL CLASSIC T SS 30	SILVER	30	25	16	92	26	19	0.39	5.10	4.36	0.40	0.46	325
EMICOOL CLASSIC T CR 14	SILVER	14	46	18	92	11	36	0.22	4.59	3.68	0.23	0.27	197

EFG CLASSIC SERIES ON #2- AIRSPACE- 6MM EFG NE 80 CLEAR LOW E GLASS (DOUBLE GLAZED UNIT)

EMICOOL ST SERIES	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY				
	TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR- 5 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-12MM AIR- 5 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQ.MTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQ.MTR/ KELVIN
EMICOOL ST BLUE	20	29	20	90	12	25	0.17	1.58	1.33	1.57	1.31	0.18	0.21	143
EMICOOL ST BRONZE	21	14	15	95	13	17	0.19	1.58	1.33	1.57	1.31	0.20	0.23	153
EMICOOL ST GREEN	22	41	12	99	16	22	0.22	1.58	1.33	1.57	1.31	0.23	0.26	175
EMICOOL ST GREY	18	13	15	93	11	15	0.17	1.58	1.33	1.57	1.31	0.18	0.21	143
EMICOOL ST GOLD	15	39	25	96	10	29	0.15	1.58	1.33	1.57	1.31	0.16	0.19	128
EMICOOL ST LIGHT GREY	50	12	21	96	30	15	0.40	1.58	1.33	1.57	1.31	0.39	0.45	291

EFG CLASSIC ST SERIES ON #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)

EMICOOL ST SERIES	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY				
	TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR- 5 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-12MM AIR- 5 (W/ SQ.MTR/ KELVIN)	U- VALUE 6-16MM AIR-6 (W/ SQ.MTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQ.MTR/ KELVIN
EMICOOL ST BLUE	21	29	19	91	16	24	0.22	2.4	2.25	2.40	2.25	0.25	0.28	197
EMICOOL ST BRONZE	23	14	13	94	16	16	0.25	2.48	2.34	2.47	2.34	0.27	0.31	213
EMICOOL ST GREEN	24	41	10	98	21	20	0.29	2.56	2.42	2.57	2.44	0.31	0.36	244
EMICOOL ST GREY	19	13	13	94	14	15	0.23	2.42	2.27	2.41	2.27	0.25	0.29	199
EMICOOL ST GOLD	16	39	25	97	14	28	0.21	2.45	2.3	2.45	2.31	0.23	0.26	184
EMICOOL ST LIGHT GREY	52	12	15	96	42	9	0.51	2.71	2.59	2.70	2.59	0.52	0.60	398



EFG CLASSIC SOLAR CONTROL SERIES ON #2 (SINGLE GLAZED UNIT)												
EMICOOL ST SERIES	VISIBLE LIGHT			COLOUR REDEFINING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS - EN 410/ 673		AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY			
	TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE (W/SQ.MTR/ KELVIN)	U- VALUE (W/ SQ.MTR/ KELVIN)	SOLAR HEAT GAIN CO EFFICIENT (SHGC)	SHADING CO EFFICIENT (SC)	RELATIVE HEAT GAIN (RHG) W/ SQ.MTR/ KELVIN
EMICOOL ST BLUE	23	28	14	91	19	24	0.30	4.70	3.78	0.32	0.37	264
EMICOOL ST BRONZE	25	13	7	96	20	16	0.34	4.84	4.00	0.36	0.41	291
EMICOOL ST GREEN	26	40	3	97	26	19	0.38	5.04	4.29	0.40	0.46	323
EMICOOL ST GREY	21	12	7	92	17	14	0.32	4.69	3.82	0.34	0.39	275
EMICOOL ST GOLD	17	39	21	96	17	28	0.28	4.77	3.91	0.30	0.35	251
EMICOOL ST LIGHT GREY	58	9	15	97	51	7	0.62	5.40	4.74	0.63	0.72	493

EFG CVD COATED GLASS - VITRACOOOL & VISTASOL

A pyrolytic glass is one where the coating is chemically-bonded to the glass at the molecular level while it is still in the semi-molten stage by a process we call "Chemical Vapor Deposition." This results in an extremely durable and stable coating that is impregnated right into the surface of the Glass

EFG VITRACOOOL REFLECTIVE GLASS - 24MM DGU (6MM#2 + 12MM AIR GAP + 6MM EMICOOL PLUS T NE 80)									
GLASS	VISIBLE LIGHT		DIRECT ENERGY		UV	U VALUE (6-12-6)	U VALUE (6-16-6)	SHGC	SC
	TRANS%	REF OUT %	TRANS%	REF OUT %		W/SQ.MTR/KELVIN	W/SQ.MTR/KELVIN		
VITRACOOOL CLEAR REFLECTIVE	32	28	23	33	12	1.59	1.32	0.31	0.35
VITRACOOOL BRONZE REFLECTIVE	19	12	14	15	4	1.59	1.32	0.22	0.25
VITRACOOOL GREY REFLECTIVE	15	10	12	12	4	1.59	1.32	0.20	0.23
VITRACOOOL GREEN REFLECTIVE	28	23	14	14	6	1.59	1.32	0.22	0.25

EFG VITRACOOOL REFLECTIVE GLASS - 24MM DGU (6MM#2 + 12MM AIR GAP + 6MM VITRALITE CLEAR)									
GLASS	VISIBLE LIGHT		DIRECT ENERGY		UV	U VALUE (6-12-6)	U VALUE (6-16-6)	SHGC	SC
	TRANS%	REF OUT %	TRANS%	REF OUT %		W/SQ.MTR/KELVIN	W/SQ.MTR/KELVIN		
VITRACOOOL CLEAR REFLECTIVE	34	29	37	22	16	2.80	2.73	0.46	0.53
VITRACOOOL BRONZE REFLECTIVE	19	13	21	12	5	2.80	2.73	0.35	0.41
VITRACOOOL GREY REFLECTIVE	17	11	19	10	6	2.80	2.73	0.33	0.37
VITRACOOOL GREEN REFLECTIVE	27	24	19	12	7	2.79	2.73	0.32	0.37

EFG VITRACOOOL REFLECTIVE GLASS - MONOLITHIC 6MM COATING #2								
GLASS	VISIBLE LIGHT		DIRECT ENERGY		UV	U VALUE	SHGC	SC
	TRANS%	REF OUT %	TRANS%	REF OUT %		W/SQ.MTR/KELVIN		
VITRACOOOL CLEAR REFLECTIVE	37	27	46	20	21	5.09	0.56	0.64
VITRACOOOL BRONZE REFLECTIVE	20	13	26	11	6	5.09	0.45	0.52
VITRACOOOL GREY REFLECTIVE	18	10	24	9	7	5.09	0.44	0.51
VITRACOOOL GREEN REFLECTIVE	29	23	22	12	9	5.09	0.42	0.48

EFG VISTASOL REFLECTIVE GLASS - 24MM DGU (6MM#2 + 12MM AIR GAP + 6MM EMICOOL PLUS T NE 80)									
GLASS	VISIBLE LIGHT		DIRECT ENERGY		UV	U VALUE (6-12-6)	U VALUE (6-16-6)	SHGC	SC
	TRANS%	REF OUT %	TRANS%	REF OUT %		W/SQ.MTR/KELVIN	W/SQ.MTR/KELVIN		
VISTASOL CLEAR REFLECTIVE	59	31	38	35	32	1.59	1.32	0.46	0.53
VISTASOL GREEN REFLECTIVE	51	25	25	15	16	1.59	1.32	0.32	0.37

EFG VISTASOL REFLECTIVE GLASS - 24MM DGU (6MM#2 + 12MM AIR GAP + 6MM VITRALITE CLEAR)									
GLASS	VISIBLE LIGHT		DIRECT ENERGY		UV	U VALUE (6-12-6)	U VALUE (6-16-6)	SHGC	SC
	TRANS%	REF OUT %	TRANS%	REF OUT %		W/SQ.MTR/KELVIN	W/SQ.MTR/KELVIN		
VISTASOL CLEAR REFLECTIVE	62	31	54	22	45	2.79	2.72	0.62	0.71
VISTASOL GREEN REFLECTIVE	54	25	33	13	21	2.79	2.72	0.43	0.49

EFG VISTASOL REFLECTIVE GLASS - MONOLITHIC 6MM COATING #2								
GLASS	VISIBLE LIGHT		DIRECT ENERGY		UV	U VALUE	SHGC	SC
	TRANS%	REF OUT %	TRANS%	REF OUT %		W/SQ.MTR/KELVIN		
VISTASOL CLEAR REFLECTIVE	68	27	67	18	59	5.05	0.71	0.82
VISTASOL GREEN REFLECTIVE	59	22	39	11	26	5.05	0.54	0.62



KING ABDULLAH INTERNATIONAL AIRPORT PROJECT – SAUDI ARABIA

EmiCool Solite Jar with Ceramic Frit

EFG VITRALITE FLOAT GLASS - MONOLITHIC											
GLASS	THICKNESS	VISIBLE LIGHT			DIRECT ENERGY			UV TRANS%	U VALUE	SHGC	SC
		TRANS%	REF OUT%	REF IN %	TRANS%	REF OUT%	REF IN %		W/SQ.MTR/KELVIN		
VITRALITE CLEAR	3MM	90	8	8	86	8	8	75	5.15	0.88	1.01
	4MM	90	8	8	84	8	8	70	5.13	0.86	0.99
	5MM	89	8	8	81	7	7	67	5.10	0.84	0.97
	6MM	89	8	8	80	7	7	64	5.07	0.84	0.96
	8MM	88	8	8	77	7	7	61	5.02	0.81	0.94
	10MM	87	8	8	73	7	7	55	4.96	0.79	0.91
	12MM	86	8	8	70	7	7	52	4.91	0.77	0.88
VITRALITE BRONZE	3MM	69	6	6	65	6	6	37	5.15	0.73	0.84
	4MM	64	6	6	60	6	6	31	5.13	0.7	0.80
	5MM	58	6	6	54	5	5	26	5.10	0.66	0.76
	6MM	53	6	5	50	5	5	21	5.07	0.63	0.72
	8MM	44	5	5	41	5	5	15	5.02	0.57	0.66
	10MM	37	5	5	34	5	5	11	4.97	0.53	0.61
	12MM	30	4	5	27	4	5	8	4.92	0.48	0.55
VITRALITE GREY	3MM	63	6	6	62	6	6	37	5.15	0.71	0.82
	4MM	56	6	6	54	6	5	30	5.12	0.66	0.76
	5MM	50	5	5	49	5	5	25	5.10	0.62	0.72
	6MM	44	5	5	43	5	5	20	5.07	0.58	0.67
	8MM	34	5	5	33	5	5	15	5.02	0.52	0.59
	10MM	26	5	4	26	5	4	10	4.97	0.47	0.54
	12MM	19	4	4	20	4	4	7	4.91	0.44	0.50
VITRALITE GREEN	3MM	83	8	8	62	6	6	41	5.14	0.71	0.82
	4MM	81	7	7	57	6	6	35	5.13	0.68	0.78
	5MM	80	7	7	53	6	6	31	5.1	0.65	0.75
	6MM	77	7	7	47	6	6	28	5.07	0.61	0.71

Notes/Disclaimer : All the above NFRC 100-2010 calculations are made as per LBNL Windows 7.8 Simulation software. EN 410-EN 673 calculations are based On third party software and is validated by the renowned Stanzone Sperimentale Del Vetro (SSV) Scpa – The Glass Research Centre at Italy. EFG Reserves the right to change product performance without notice or obligation.

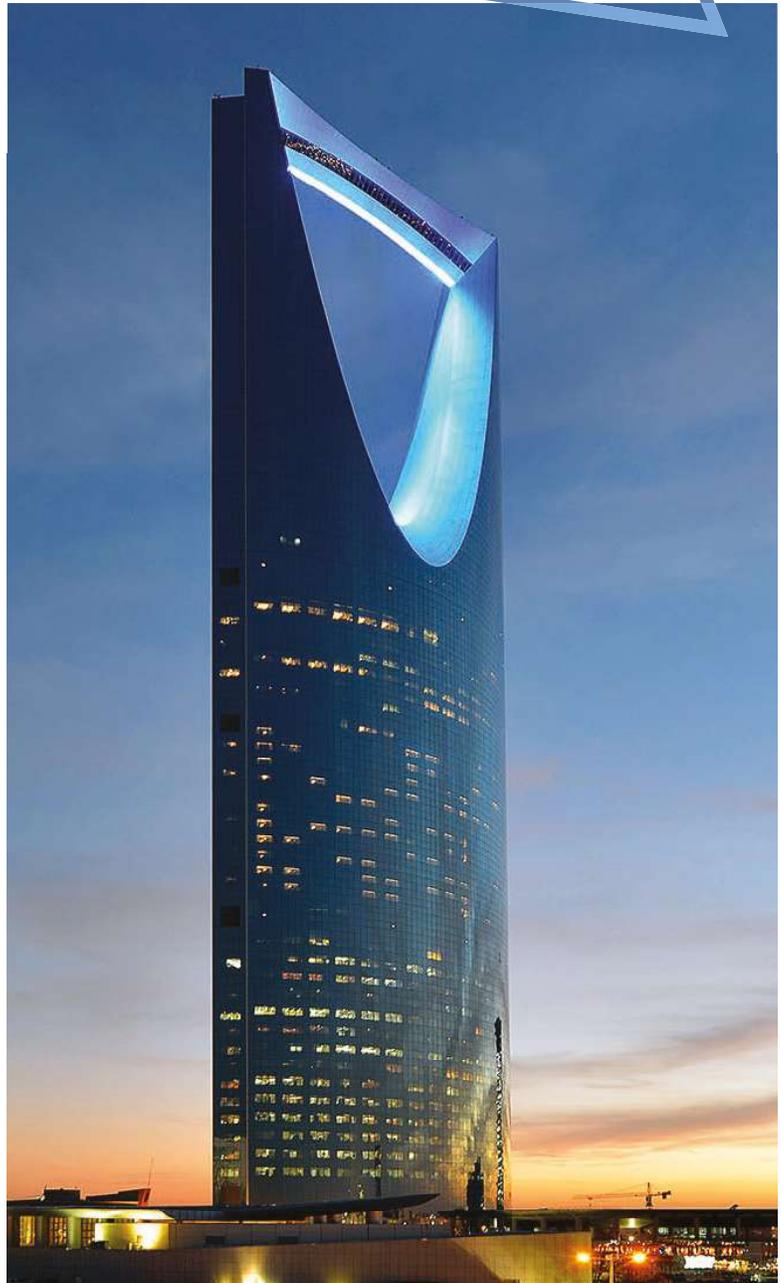
Please contact EFG Sales Team for further details or mail to us sales@efgme.com

EMICOOL WARRANTY

EMICOOL® limited warranty certificate - Emirates Float Glass Co LLC, hereafter referred to as "EFG", warrants to its immediate customers only that Emicool products (referred as Emicool Solar Control Coated Glass) will not contain manufacturing defects or visible deterioration of the coating.

Limited warranty - during a period of ten (10) years from the date of delivery, the Emicool glass is warranted, subject to the terms and conditions of this warranty, not to develop surface defects (peeling or deterioration) on the metallic film under normal conditions contact authorized glass processor for details and draft warranty..

Customer must provide separate warranty for processed glass units from the glass processor/ IGU provider in accordance with EFG installation instructions contact EFG authorized glass processor for details.

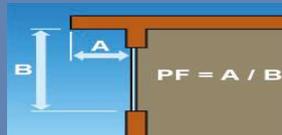


KINGDOM TRADE CENTER – SAUDI ARABIA
EmiCool KR-1 on Clear

G.C.C GLAZING BUILDING CODES

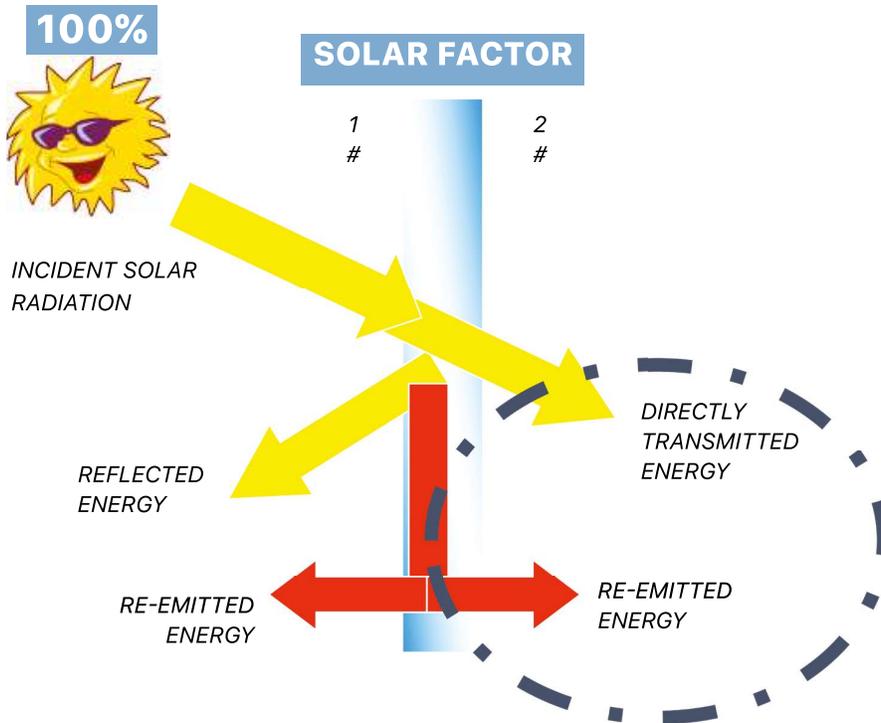
CODE	BUILDING TYPE	GLASS COVERAGE (WWR %)	VLT MIN %	U- VALUE GLASS W/ SQMTR/ KELVIN	UG VALUE	SHGC MAX	SC MAX	
DUBAI GREEN BUILDING REGULATIONS & SPECS	FAÇADE	0-40	32		2.1		0.4	
	FAÇADE	40-60	25		1.9		0.32	
	FAÇADE	60-100	25		1.9		0.25	
	SHOWROOM		N/A	1.9			0.76	
	SKYLIGHT	0-10	32	1.9			0.32	
	SKYLIGHT	10-100	25	1.9			0.25	
TRAKHEES	OPTION 1	0-30	25		2.1	0.25	0.29	
	OPTION 2	30-100	10		1.9	0.2	0.23	
	SKYLIGHT & DOME				1.9	0.17	0.2	
ABU DHABI ESTIDAMA	PEARL 1	CW/STORE FRONT	PROJECTION FACTOR (PF) <0.25		1.9	0.23	0.26	
		ENTRANCE	PF 0.25 < 0.50		2.6	0.3	0.34	
		ALL OTHER	PROJECTION FACTOR (PF).50 >		1.9	0.36	0.41	
	SKYLIGHT		3.8		0.3			
PEARL 2	GLAZED AREA LESS THAN 15% OF CFA			2.2		0.3	0.34	
BAHRAIN	SHOP FRONT & SHOWROOMS			1.9			0.76	
	SKYLIGHT & DOME		10%	1.9			0.25	
	ALL TYPES	0-40	25	2.1			0.4	
	ALL TYPES	40-100	20	1.9			0.3	
SAUDI ARABIA	FAÇADE	0-40			2.8	0.25		
	FAÇADE	40-50			2.28	0.25		
	FAÇADE	50-100			1.8	0.25		
	RES BUILDING	UP TO 25%			2.6	0.25		
KUWAIT	RESIDENTIAL	51-100			2	0.22		
	RESIDENTIAL	16-50			3.33	0.25		
	RESIDENTIAL	0-15			3.61	0.4		
	GOVT & COMM					1.14(0.20 Btu)		0.22
QATAR	KAHRAAMA REGULATION	5-40%	10% MIN (QCS 2014)	2		0.3		
		ABOVE 40%	10% MIN (QCS 2014)	2.1 (0.36BTU)		0.25		
		SHOWROOM	30% +	2.1 (0.36 BTU)		0.3		
	GSAS STAR RATING	TWO STAR **	10% MIN (QCS 2014)	1.8				0.32
		THREE STAR***	10% MIN (QCS 2014)	1.6				0.25
		FOUR STAR****	10% MIN (QCS 2014)	1.3				0.25
		FIVE STAR*****	10% MIN(QCS 2014)	1.1				0.21

- Ug Value indicates the thermal performance of the Whole System Assembly (Glass + Frame)
- PF (Projection Factor) is the ratio of the distance the overhang projects from the window surface to its height above the sill of the window
- 1 Btu (IT) per Hour per Square Foot per Fahrenheit = 5.678 Watt / Sq.Mtrs / Kelvin.

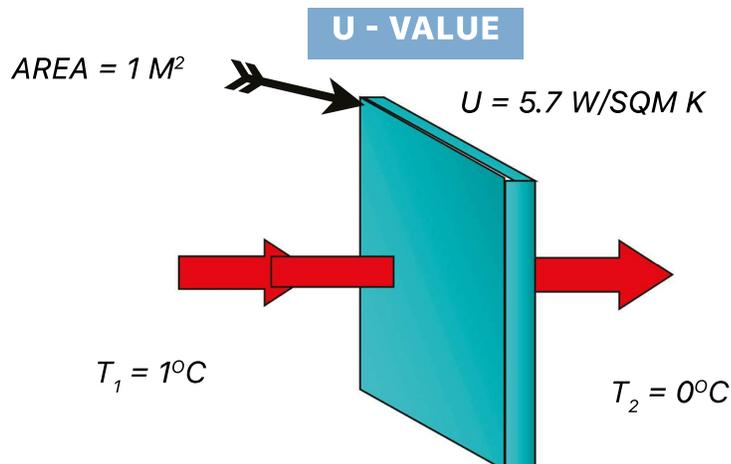


KEY GLAZING PERFORMANCE FACTORS

SOLAR ENERGY = UV+ VISIBLE LIGHT + NEAR INFRA RED



U - Value (Thermal Transfer Coefficient)



U - VALUE : amount of heat transferred (lost / gain), due to a temperature differential of 1° c through 1 square meter.

TECHNICAL GLOSSARY

- **Visible Light Transmission (VLT)** - the percentage of visible light (380nm-780nm) that is transmitted through the glass.
- **Reflection Out (Ro) & Reflection In.(Rin)** - the percentage of incident visible light reflected by the glass outdoors and indoors respectively.
- **Solar Heat Gain Coefficient (SHGC) or Solar Factor (G-Value)** - the percentage sum of incident solar radiation directly transmitted through the glass + re emitted energy absorbed by the glass indoors. A glass with a high SHGC rating is more effective at collecting solar heat during the winter for a cold climate. A glass with a low SHGC rating is more effective at reducing cooling loads during the summer by blocking heat gain from the sun for a hot & dry climate
- **Shading Coefficient (SC)** - it is the ratio of solar heat gain (due to direct sunlight) passing through a glass unit to the solar energy which passes through 3mm clear float glass. it is calculated by dividing solar factor (G-Value) / 0.87
- **U-Value** - this is the amount of far infra-red radiation transferred (gain/lost) due to a temperature differential of 1 degree through one square meter of glass. A low U-Value denotes higher thermal insulation property of glass. It is measured in Wats/ Sq.mtr/Kelvin.
- **Relative Heat Gain / Total Heat Gain (RHG)** - the sum heat gained through a glass due to direct solar radiation (shading coefficient) and conductive heat gain (U-Value) due to temperature difference. the lower the RHG the more the glass product restricts heat gain. It is measured in Wats/Sq. mtr/ Kelvin
- **Light To Solar Gain Ratio / Selectivity Ratio** - the ratio is equal to the visible light transmittance divided by the solar heat gain coefficient. The us department of energy's federal technology alert publication of the federal energy management program (femp) views an lsg of 1.25 or greater to be green glazing/spectrally selective glazing. It helps to optimize the use of natural daylight and reduce the need for artificial lighting, which can save energy and improve the indoor ambience quality.





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