



الإمارات لألواح
الزجاج المسطح
EMIRATES FLOAT GLASS



EFG Product Brochure





**CLEAR VISION
UNBREAKABLE
TRUST**

WELCOME TO OUR COMPANY

Organization Details

Company Name : Emirates Float Glass Co. LLC

Company Registration Number : 576124

Registration Issued Year : 06/02/2006

Address : 353, MR-2, ICAD-II,

P.O. Box: 8869, Musaffah, 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.

Sole Proprietor : Dubai Investments PJSC
(www.dubaiinvestments.com)



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

ENVIRONMENTAL MANAGEMENT SYSTEM

Standard : ISO 14001:2015

Certificate Registration No.: 12 104 47402 TMS

GOLDEN LISTED

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

QUALITY MANAGEMENT SYSTEM

Standard : ISO 9001:2015

Certificate Registration No.: 12 100 47402 TMS

IN-COUNTRY VALUE CERTIFICATE

Standard : IN-1001318I



**JABAL OMAR
- SAUDI ARABIA**
EmiCool Elite Blue 30



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



ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆
CERTIFIKAT ◆ 認證證書 ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆



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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TÜV®



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
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 ID: 125614

Issue Date: 28.09.2023

Valid Until: 28.10.2024

Emirates Float Glass Co Llc Branch Abu Dhabi

53.47%

Company General Information

License No.: IN-1001318

Company Type: **Non SME in UAE**

Financial Year End Date: 31.12.2022

Company based in: **Within UAE**

Company Business: **GOOD MANUFACTURER**

For Cases of Re-Certification

Re-Certification (*) No.:

Reason for this Re-Certification

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	VITRACOOOL - 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 RANGE (GREY, GREEN, GOLD, BRONZE, LIGHT GREY, BLUE)		
SOLAR CONTROL & LOW E GLASS	EMICOOL NN SERIES - NN25, 30, 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, III (SILVER TONALITY)		
CLEAR LOW E GLASS	EMICOOL NE 70	CLEAR LOW E GLASS	
	EMICOOL NE 80		
ADVANCED LOW E SERIES	EMICOOL SUPERVISION (SV) SV 70-40, 60-30, 50-25, 40-21 (NEUTRAL SERIES)	DOUBLE LOW E NEUTRAL GLASS	
	EMICOOL SUPERLITE (SL) SL 41-20 BLUE, 40-22 BRONZE, 32-17 (NEUTRAL TINTED 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	82	17	29	0.23	1.60	1.35	1.60	1.34	0.22	0.25	168
EMICOOL SUPER VISION 50-25	NEUTRAL LIGHT BLUE	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 70-40	NEUTRAL	67	12	13	93	31	29	0.40	1.61	1.37	1.62	1.37	0.36	0.41	273
EMICOOL SUPER VISION 70-40 ON GREY	GREY	32	6	12	90	16	12	0.24	1.61	1.36	1.62	1.37	0.23	0.26	177
EMICOOL SUPER VISION 70-40 ON BRONZE	BRONZE	39	7	12	95	19	14	0.27	1.61	1.36	1.62	1.37	0.25	0.29	193
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 70-40	NEUTRAL LIGHT GREY	67	11	12	95	33	32	0.43	1.64	1.39	1.65	1.40	0.38	0.44	286

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 – SAUDI ARABIA
EmiCool NN40 n 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 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/ 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 LIGHT GREY	19	27	23	95	11	31	0.17	1.67	1.43	1.67	1.43	0.17	0.20	136	AS 20
EMICOOL SUN T NN 30	NEUTRAL LIGHT 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 LIGHT 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 LIGHT GREY	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	0.35	0.40	269	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	AS 20
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	304	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 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/ 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	74	14	12	97	48	22	0.56	1.64	1.40	1.62	1.37	0.54	0.62	399	ST LIGHT GREY
EMICOOL PLUS T NE 80 ON GREY	GREY	36	7	11	95	25	10	0.32	1.63	1.38	1.62	1.37	0.33	0.37	249	ST LIGHT GREY
EMICOOL PLUS T NE 80 ON BRONZE	BRONZE	44	8	11	93	29	12	0.36	1.63	1.38	1.62	1.37	0.36	0.41	271	ST BRONZE
EMICOOL PLUS T NE 80 ON GREEN	GREEN	64	12	12	92	31	10	0.40	1.63	1.38	1.62	1.37	0.38	0.43	284	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



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EmiCool NN40T on Clear

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	0.35	0.40	271	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)

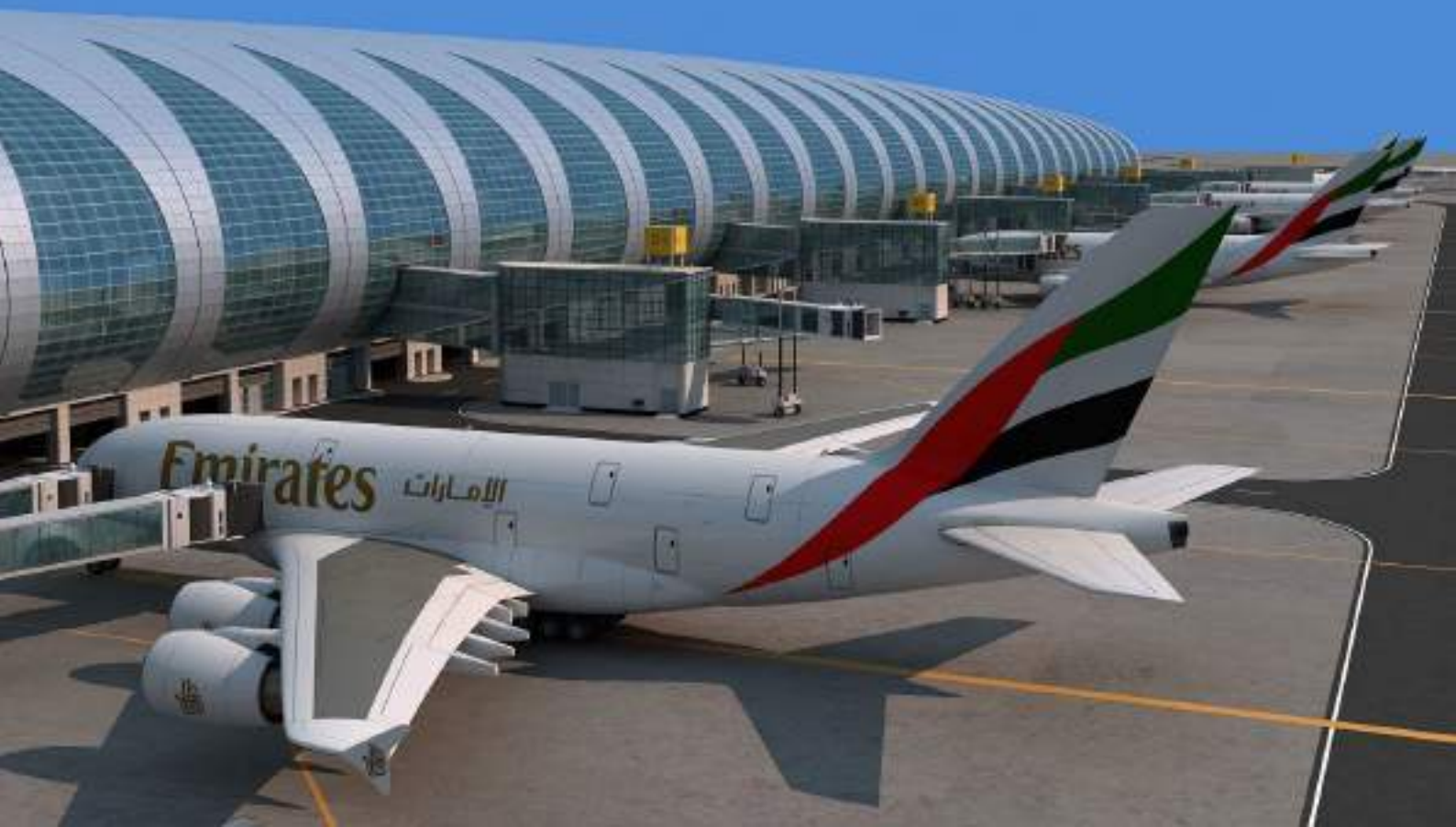
VISION COOL SERIES	VISIBLE LIGHT			COLOUR REDERING INDEX (RA)	SOLAR ENERGY		EUROPEAN STANDARDS- EN 410/ 673			AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY				
	TRANSMISSION (VLT)	REF OUT (RO)	REF IN (RIN)		DIRECT TRANSMISSION (TE)	REFLECTION OUT (PE)	SOLAR FACTOR (G-VALUE) EN 410	U- VALUE 6-12MM AIR- 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 VISION COOL GREY	22	5	13	95	14	8	0.24	1.65	1.40	1.61	1.36	0.24	0.27	181
EMICOOL VISION COOL LIGHT GREY	49	11	15	96	31	13	0.45	1.66	1.42	1.62	1.37	0.42	0.48	317
EMICOOL VISION COOL BLUE	17	13	15	95	11	11	0.20	1.65	1.41	1.61	1.36	0.20	0.23	153
EMICOOL VISION COOL BRONZE	16	10	11	95	10	14	0.17	1.65	1.41	1.61	1.36	0.18	0.21	141
EMICOOL VISION COOL GREEN	20	13	12	93	13	10	0.22	1.65	1.41	1.61	1.36	0.22	0.25	170
EMICOOL VISION COOL GOLD	22	21	16	95	15	21	23	1.65	1.41	1.61	1.36	0.23	0.26	176

EFG VISION COOL SOLAR CONTROL GLASS ON #2- AIRSPACE- 6MM EFG VITRALITE CLEAR FLOAT GLASS (DOUBLE GLAZED UNIT)

EMICOOL VISION COOL GREY	23	6	13	94	18	8	0.28	2.50	2.40	2.49	2.35	0.30	0.35	239
EMICOOL 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
EMICOOL VISION COOL BLUE	19	13	15	94	14	10	0.23	2.40	2.20	2.40	2.25	0.25	0.29	200
EMICOOL VISION COOL BRONZE	17	10	11	94	13	14	0.21	2.42	2.26	2.41	2.27	0.23	0.27	188
EMICOOL VISION COOL GREEN	21	13	12	92	17	9	0.26	2.46	2.31	2.45	2.31	0.28	0.32	222
EMICOOL VISION COOL GOLD	24	22	16	96	19	21	0.27	2.48	2.33	2.47	2.33	0.29	0.33	229

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
EMICOOL VISION COOL GREY	26	5	7	96	23	8	0.39	4.90	4.0	0.40	0.46	322
EMICOOL VISION COOL LIGHT GREY	58	9	15	97	51	7	0.62	5.40	4.7	0.63	0.72	493
EMICOOL VISION COOL BLUE	21	13	9	95	17	10	0.32	4.70	3.8	0.34	0.39	278
EMICOOL VISION COOL BRONZE	19	10	4	95	15	14	0.31	4.70	3.8	0.32	0.37	264
EMICOOL VISION COOL GREEN	24	13	5	93	20	9	0.36	4.80	3.9	0.38	0.43	304
EMICOOL VISION COOL GOLD	27	21	11	95	20	11	0.36	4.80	4.0	0.37	0.42	303



DUBAI INTERNATIONAL AIRPORT
EmiCool NE270 on Azurlite



EFG CLASSIC SOLAR CONTROL SERIES ON #2- AIRSPACE- 6MM 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	0.24	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

EFG CLASSIC SOLAR CONTROL SERIES ON #2- AIRSPACE- 6MM 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	40	95	7	29	0.13	1.62	1.38	1.61	1.36	0.13	0.15	106
EMICOOL CLASSIC T AS 20	SILVER GREY	16	25	33	95	11	20	0.20	1.62	1.38	1.62	1.37	0.19	0.21	146
EMICOOL CLASSIC T AS 30	SILVER GREY	23	18	28	94	15	16	0.24	1.63	1.38	1.62	1.37	0.24	0.27	184
EMICOOL CLASSIC T AS 35	SILVER GREY	29	13	24	96	19	13	0.30	1.63	1.38	1.62	1.37	0.29	0.33	221
EMICOOL CLASSIC T SS 08	SILVER	6	46	36	93	4	37	0.09	1.62	1.37	1.61	1.36	0.10	0.11	83.1
EMICOOL CLASSIC T SS 14	SILVER	11	39	31	90	7	31	0.13	1.62	1.38	1.61	1.36	0.14	0.16	109
EMICOOL CLASSIC T SS 20	SILVER	16	33	27	90	10	27	0.17	1.62	1.38	1.61	1.36	0.17	0.20	134
EMICOOL CLASSIC T SS 25	SILVER	20	30	23	91	13	24	0.21	1.62	1.38	1.62	1.37	0.21	0.24	160
EMICOOL CLASSIC T SS 30	SILVER	25	26	20	92	16	21	0.25	1.62	1.38	1.62	1.37	0.24	0.28	187
EMICOOL CLASSIC T CR 14	SILVER	11	46	22	92	7	36	0.13	1.62	1.37	1.61	1.36	0.13	0.15	108



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 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- 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 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 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- 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 ST BLUE	19	29	18	90	12	24	0.19	1.62	1.38	1.61	1.36	0.19	0.22	152
EMICOOL ST BRONZE	21	14	14	95	13	17	0.21	1.62	1.38	1.61	1.36	0.21	0.24	162
EMICOOL ST GREEN	22	41	11	99	16	21	0.24	1.62	1.38	1.61	1.37	0.24	0.28	187
EMICOOL ST GREY	18	13	14	93	11	15	0.19	1.62	1.38	1.61	1.36	0.19	0.22	151
EMICOOL ST GOLD	15	39	24	96	10	29	0.17	1.62	1.38	1.61	1.36	0.17	0.20	137
EMICOOL ST LIGHT GREY	49	11	15	96	31	13	0.45	1.66	1.42	1.62	1.37	0.42	0.48	317



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 CHEMICAL VAPOUR DEPOSITION 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 - MONOLITHIC 6MM COATING #2

GLASS	THICKNESS	VISIBLE LIGHT			DIRECT ENERGY			UV	U VALUE		SHGC	SC
		TRANS%	REF OUT %	REF IN %	TRANS%	REF OUT %	REF IN %		TRANS%	W/SQ.MTR/KELVIN		
VITRACOOOL CLEAR REFLECTIVE	6 MM	34	29	37	41	21	31	18	5.072	0.53	0.59	
VITRACOOOL BRONZE REFLECTIVE	6 MM	21	13	36	27	11	30	6	5.07	0.46	0.53	
VITRACOOOL GREY REFLECTIVE	6 MM	17	11	36	23	9	30	6	5.071	0.43	0.50	
VITRACOOOL GREEN REFLECTIVE	6 MM	30	23	37	23	12	30	8	5.072	0.43	0.49	

EFG VITRACOOOL REFLECTIVE GLASS - 24MM DGU (6MM#2 + 12MM AIR GAP + 6MM VITRALITE CLEAR)

GLASS	THICKNESS	VISIBLE LIGHT			DIRECT ENERGY			UV	U VALUE		SHGC	SC
		TRANS%	REF OUT %	REF IN %	TRANS%	REF OUT %	REF IN %		TRANS%	W/SQ.MTR/KELVIN		
VITRACOOOL CLEAR REFLECTIVE	24 MM	31	30	38	32	22	28	14	2.79	0.45	0.51	
VITRACOOOL BRONZE REFLECTIVE	24 MM	19	13	38	22	11	28	5	2.79	0.35	0.40	
VITRACOOOL GREY REFLECTIVE	24 MM	15	10	37	19	10	28	5	2.79	0.32	0.37	
VITRACOOOL GREEN REFLECTIVE	24 MM	27	24	38	19	12	28	7	2.79	0.32	0.36	

EFG VITRACOOOL REFLECTIVE GLASS - 24MM DGU (6MM#2 + 12MM AIR GAP + 6MM EMICOOL PLUS T NE 80)

GLASS	THICKNESS	VISIBLE LIGHT			DIRECT ENERGY			UV	U VALUE	SHGC	SC
		TRANS%	REF OUT %	REF IN %	TRANS%	REF OUT %	REF IN %		TRANS%		
VITRACOOOL CLEAR REFLECTIVE	24 MM	29	29	35	23	31	34	9	1.62	0.33	0.38
VITRACOOOL BRONZE REFLECTIVE	24 MM	17	13	34	14	15	34	4	1.62	0.24	0.27
VITRACOOOL GREY REFLECTIVE	24 MM	14	10	34	12	12	34	3	1.62	0.22	0.25
VISTASOL GREEN REFLECTIVE	24 MM	25	23	34	13	14	34	5	1.62	0.23	0.26

EFG VISTASOL REFLECTIVE GLASS - MONOLITHIC 6MM COATING #2

GLASS	THICKNESS	VISIBLE LIGHT			DIRECT ENERGY			UV	U VALUE	SHGC	SC
		TRANS%	REF OUT %	REF IN %	TRANS%	REF OUT %	REF IN %		TRANS%		
VISTASOL CLEAR REFLECTIVE	6 MM	68	28	30	64	18	22	53	5.049	0.71	0.82
VISTASOL GREEN REFLECTIVE	6 MM	59	23	29	39	12	21	23	5.049	0.54	0.62

EFG VISTASOL REFLECTIVE GLASS - 24MM DGU (6MM#2 + 12MM AIR GAP + 6MM VITRALITE CLEAR)

GLASS	THICKNESS	VISIBLE LIGHT			DIRECT ENERGY			UV	U VALUE	SHGC	SC
		TRANS%	REF OUT %	REF IN %	TRANS%	REF OUT %	REF IN %		TRANS%		
VISTASOL CLEAR REFLECTIVE	24 MM	62	32	32	55	22	22	40	2.79	0.63	0.72
VISTASOL GREEN REFLECTIVE	24 MM	54	26	32	33	13	22	19	2.79	0.43	0.50

EFG VISTASOL REFLECTIVE GLASS - 24MM DGU (6MM#2 + 12MM AIR GAP + 6MM EMICOOL PLUS T NE 80)

GLASS	THICKNESS	VISIBLE LIGHT			DIRECT ENERGY			UV	U VALUE	SHGC	SC
		TRANS%	REF OUT %	REF IN %	TRANS%	REF OUT %	REF IN %		TRANS%		
VISTASOL CLEAR REFLECTIVE	24 MM	57	31	30	39	32	30	27	1.62	0.50	0.58
VISTASOL GREEN REFLECTIVE	24 MM	50	25	29	25	15	30	13	1.62	0.35	0.40



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	0.8
	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
	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	0.5
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
	8MM	74	7	7	41	5	5	23	5.02	0.57	0.66

Notes/Disclaimer : All the above NFRC 100-2010 calculations are made as per LBNL Windows 7.8 Simulation. Software of IGDB & EN410-EN673 calculations are based on Simulation Software developed by OMT Solutions BV, Netherlands. EFG Reserves the right to change Product Performance without Notice or obligation. May require Heat Treatment to resist Thermal stress. EFG Emi cool Products are Available on Vitralite Clear Substrate. However it is also available on Tinted Substrates on Specific Request.

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

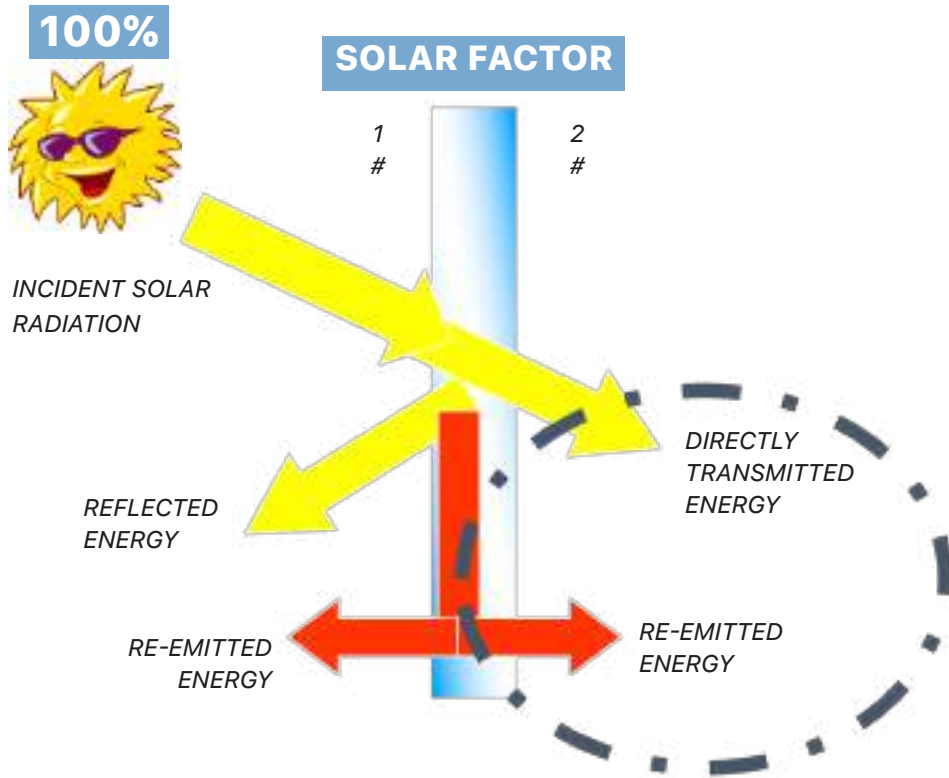
CODE	BUILDING TYPE	GLASS COVERAGE (WWR %)	VLT MIN %	U- VALUE GLASS W/ SQMTR/ KELVIN	UG VALUE	SHGC MAX	SC MAX	
DUBAI GREEN BUILDING REGULATIONS & SPECS	FAÇADE	0-40	32	2.1			0.4	
	FAÇADE	40-60	25	1.9			0.32	
	FAÇADE	60-100	25	1.9			0.25	
	SHOWROOM		N/A	1.9			0.76	
	SKYLIGHT	0-100	32	1.9			0.32	
	SKYLIGHT	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				1.6	0.3	0.34	
	PEARL 3				1.5	0.3	0.34	
	PEARL 4				1.3	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			0.35 (BTU)	0.25		
	RESIDENTIAL	16-50			0.59 (BTU)	0.25		
	RESIDENTIAL	0-15			0.64 (BTU)	0.4		
	GOVT & COMM				.20 (BTU)	0.22		
QATAR	KAHRAAMA REGULATION	5-40%	10% MIN (QCS 2014)	3.3 (0.58 BTU)		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.

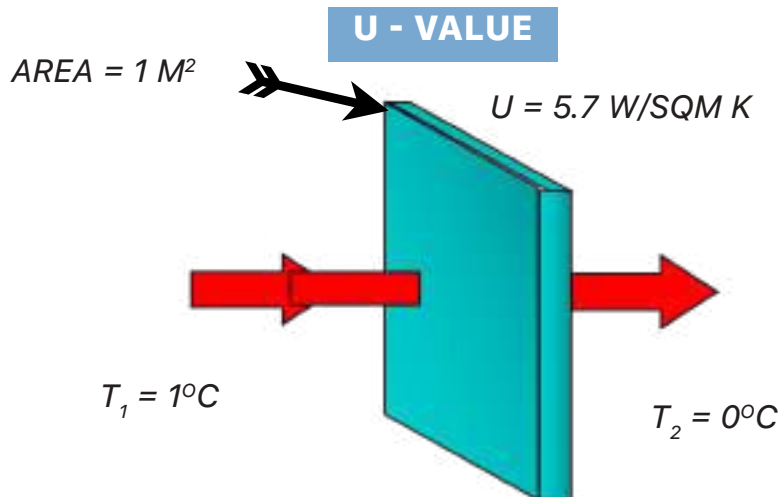


KEY GLAZING PERFORMANCE FACTORS

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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