



الإمارات لألواح  
الزجاج المسطح  
EMIRATES FLOAT GLASS



**EFG Product Brochure**





**CLEAR VISION  
UNBREAKABLE  
TRUST**

**EMIRATES TOWER**

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

# 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

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



TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstrasse 57 • 80339 München • Germany  
[www.tuev-sued.de/certificate-validity-check](http://www.tuev-sued.de/certificate-validity-check)

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05



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 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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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:

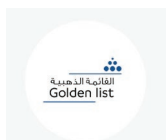
Managing Director

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  |   |  |
| <b>MAGNETRON SPUTTER COATED VACUUM DEPOSITION (MSVD) COATING</b> |   |   |  |
| 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, DARK 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                                       |
| <b>EFG SUPER LITE SERIES</b>         |                    |                    |              |              |                            |                          |                     |                                 |   |  |  |  |                                     |                           |   |
| 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/ 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 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/ 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          | 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      |



**HEYDAR ALIYEV CENTER - AZERBAIJAN**  
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)**

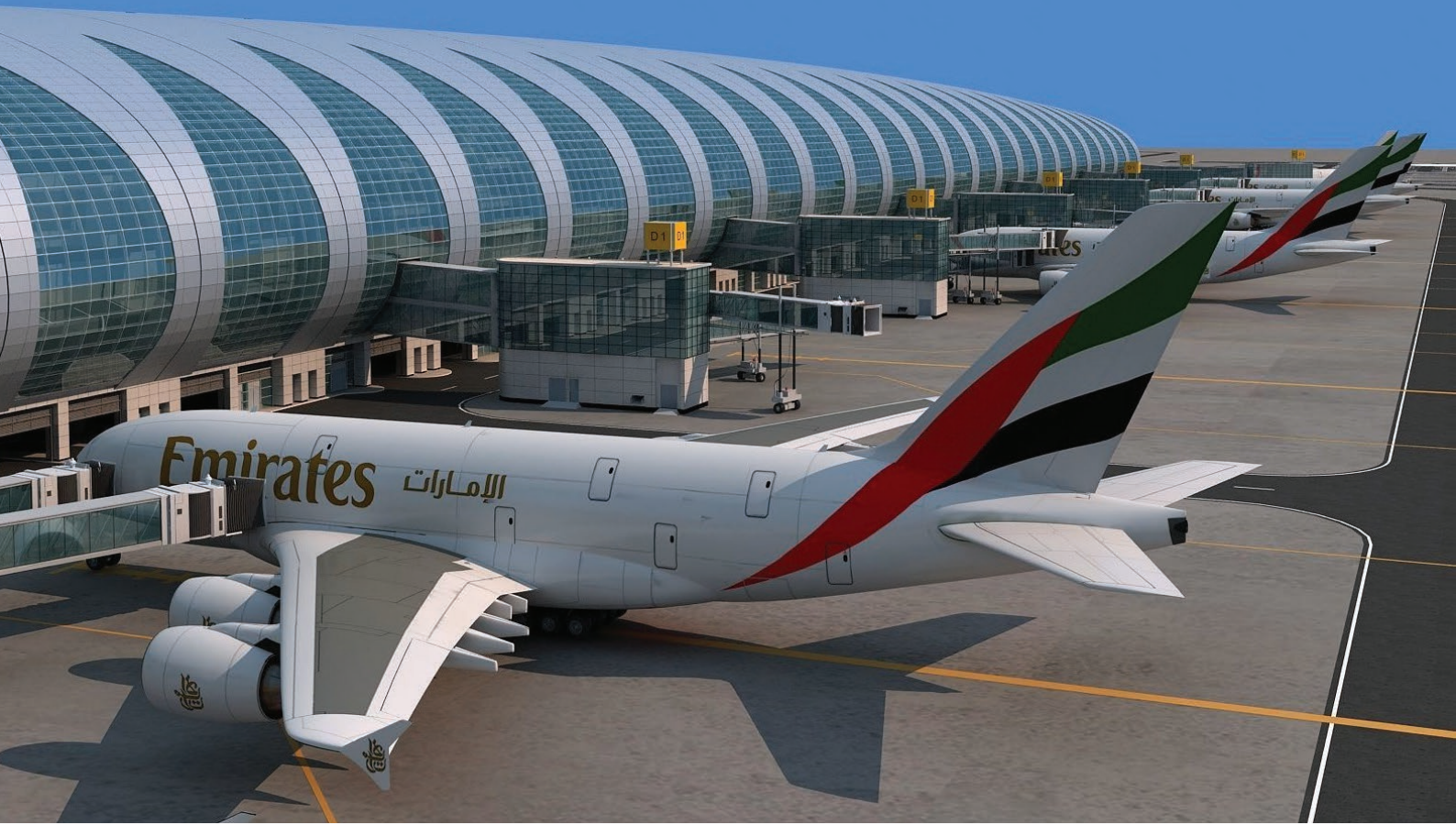
| VISION COOL SERIES            | VISIBLE LIGHT      |              |              | COLOUR REDERING INDEX (RA) | SOLAR ENERGY             |                     | EUROPEAN STANDARDS- EN 410/ 673 |  |   | AMERICAN STANDARDS - NFRC 100 :2010 SUMMER DAY |   |                                     |                           |  |
|-------------------------------|--------------------|--------------|--------------|----------------------------|--------------------------|---------------------|---------------------------------|--|---|--|---|-------------------------------------|---------------------------|--|
|                               | 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 DARK GREY | 11                 | 15           | 14           | 96                         | 7                        | 27                  | 0.21                            | 1.62                                       | 1.45                                      | 1.62   | 1.367                                     | 0.14                                | 0.16                      | 111  |
| 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 DARK GREY | 12 | 15 | 14 | 97 | 9  | 26 | 0.32 | 2.33 | 2.20 | 2.38 | 2.23 | 0.18 | 0.21 | 151 |
| 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 DARK GREY | 13                 | 15           | 7            | 98                         | 11                       | 26                  | 0.48                            | 5.5                        | 3.77   | 0.26                                | 0.30                      | 219                                       |
| 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                                       |



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**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) | 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) |
| 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) | 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) |
| 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 REORDERING 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 % | TRANS%        | REF OUT % | REF IN % |    | W/SQ.MTR/KELVIN |      |      |
| VITRACOOOL CLEAR REFLECTIVE  | 6 MM      | 34            | 29        | 41            | 21        | 31       | 18 | 5.072           | 0.53 | 0.59 |
| VITRACOOOL BRONZE REFLECTIVE | 6 MM      | 21            | 13        | 27            | 11        | 30       | 6  | 5.07            | 0.46 | 0.53 |
| VITRACOOOL GREY REFLECTIVE   | 6 MM      | 17            | 11        | 23            | 9         | 30       | 6  | 5.071           | 0.43 | 0.50 |
| VITRACOOOL GREEN REFLECTIVE  | 6 MM      | 30            | 23        | 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 % | TRANS%        | REF OUT % | REF IN % |    | W/SQ.MTR/KELVIN |      |      |
| VITRACOOOL CLEAR REFLECTIVE  | 24 MM     | 31            | 30        | 32            | 22        | 28       | 14 | 2.79            | 0.45 | 0.51 |
| VITRACOOOL BRONZE REFLECTIVE | 24 MM     | 19            | 13        | 22            | 11        | 28       | 5  | 2.79            | 0.35 | 0.40 |
| VITRACOOOL GREY REFLECTIVE   | 24 MM     | 15            | 10        | 19            | 10        | 28       | 5  | 2.79            | 0.32 | 0.37 |
| VITRACOOOL GREEN REFLECTIVE  | 24 MM     | 27            | 24        | 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 % | TRANS%        | REF OUT % | REF IN % |    | TRANS%  |      |      |
| VITRACOOOL CLEAR REFLECTIVE  | 24 MM     | 29            | 29        | 23            | 31        | 34       | 9  | 1.62    | 0.33 | 0.38 |
| VITRACOOOL BRONZE REFLECTIVE | 24 MM     | 17            | 13        | 14            | 15        | 34       | 4  | 1.62    | 0.24 | 0.27 |
| VITRACOOOL GREY REFLECTIVE   | 24 MM     | 14            | 10        | 12            | 12        | 34       | 3  | 1.62    | 0.22 | 0.25 |
| VISTASOL GREEN REFLECTIVE    | 24 MM     | 25            | 23        | 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 % | TRANS%        | REF OUT % | REF IN % |    | TRANS%  |      |      |
| VISTASOL CLEAR REFLECTIVE | 6 MM      | 68            | 28        | 64            | 18        | 22       | 53 | 5.049   | 0.71 | 0.82 |
| VISTASOL GREEN REFLECTIVE | 6 MM      | 59            | 23        | 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 % | TRANS%        | REF OUT % | REF IN % |    | TRANS%  |      |      |
| VISTASOL CLEAR REFLECTIVE | 24 MM     | 62            | 32        | 55            | 22        | 22       | 40 | 2.79    | 0.63 | 0.72 |
| VISTASOL GREEN REFLECTIVE | 24 MM     | 54            | 26        | 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 % | TRANS%        | REF OUT % | REF IN % |    | TRANS%  |      |      |
| VISTASOL CLEAR REFLECTIVE | 24 MM     | 57            | 31        | 39            | 32        | 30       | 27 | 1.62    | 0.50 | 0.58 |
| VISTASOL GREEN REFLECTIVE | 24 MM     | 50            | 25        | 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<br>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 |

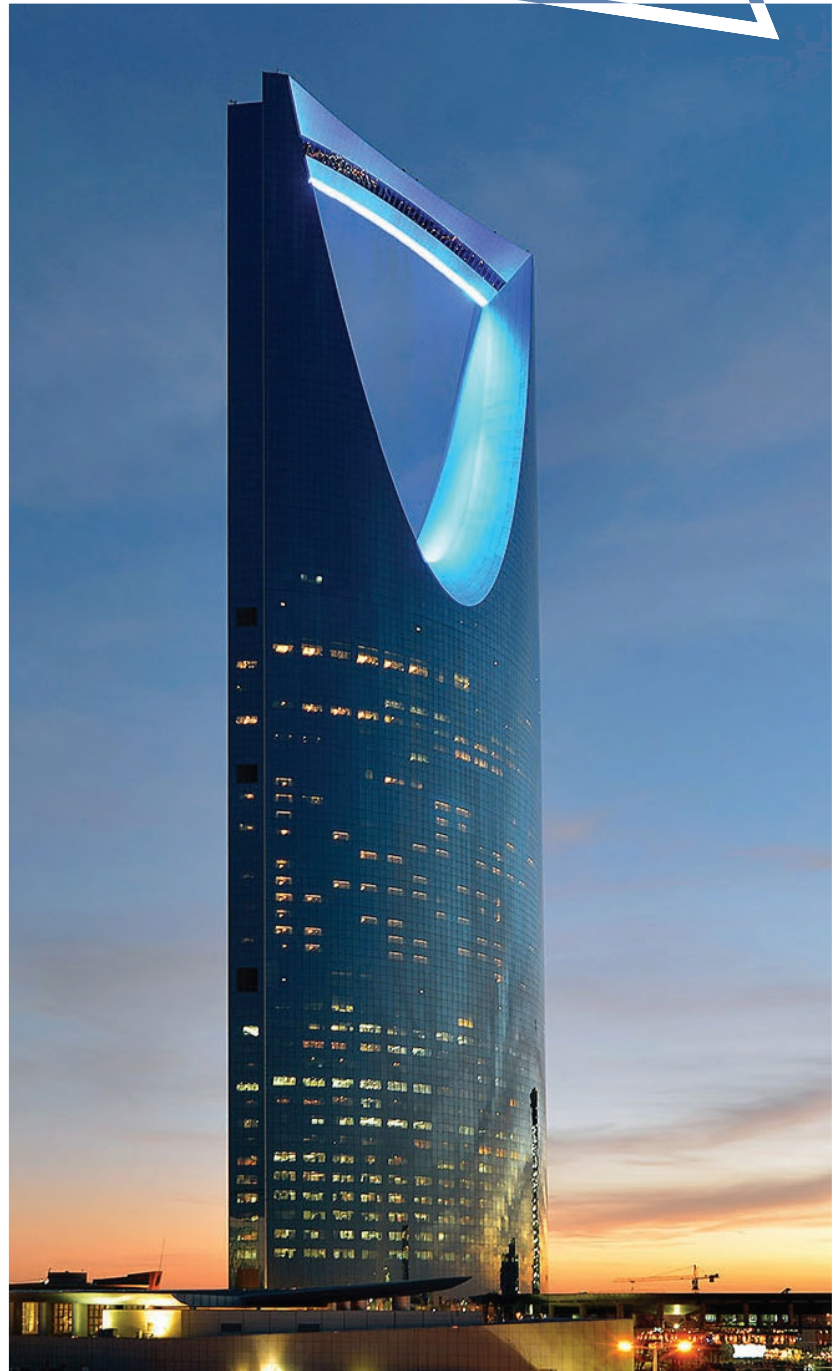
**Notes/Disclaimer :** All the above NFRC 100-2010 calculations are made as per LBNL Windows 7.8 Simulation. Software of IGDB & EN410-EN673 calculations are based on Simulation Software developed by OMT Solutions BV, Netherlands. EFG Reserves the right to change Product Performance without Notice or 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.

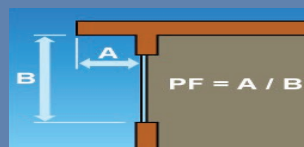


**KINGDOM TRADE CENTER – SAUDI ARABIA**  
EmiCool KR-1 on Clear

# G.C.C GLAZING BUILDING CODES

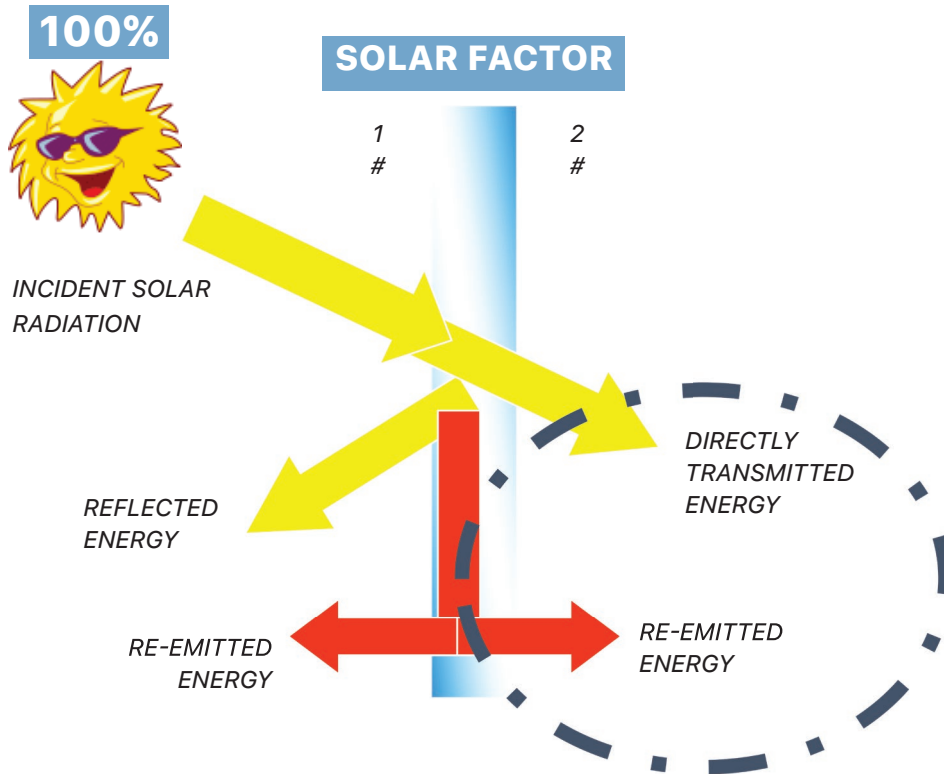
| CODE                                     | BUILDING TYPE          | GLASS COVERAGE (WWR %) | VLT MIN %                    | U- VALUE GLASS W/ SQMTR/ KELVIN | UG VALUE   | SHGC MAX | SC MAX |      |
|--|------------------------|------------------------|------------------------------|---------------------------------|------------|----------|--------|------|
| DUBAI GREEN BUILDING REGULATIONS & SPECS | FAÇADE                 | 0-40                   | 40                           | 2.1                             |            |          | 0.4    |      |
|  | FAÇADE                 | 40-60                  | 32                           | 1.9                             |            |          | 0.32   |      |
|  | FAÇADE                 | 60-100                 | 25                           | 1.7                             |            |          | 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                |                        |                              |                                 | 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.

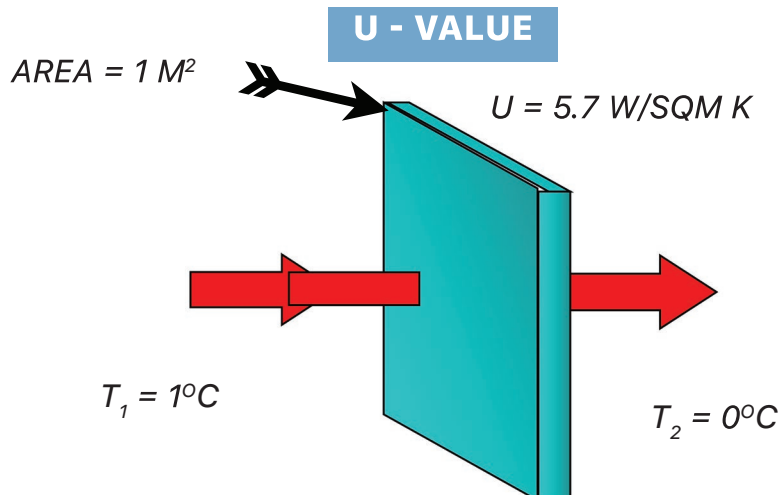


# KEY GLAZING PERFORMANCE FACTORS

SOLAR ENERGY = UV+ VISIBLE LIGHT + NEAR INFRA RED



**U - Value (Thermal Transfer Coefficient)**

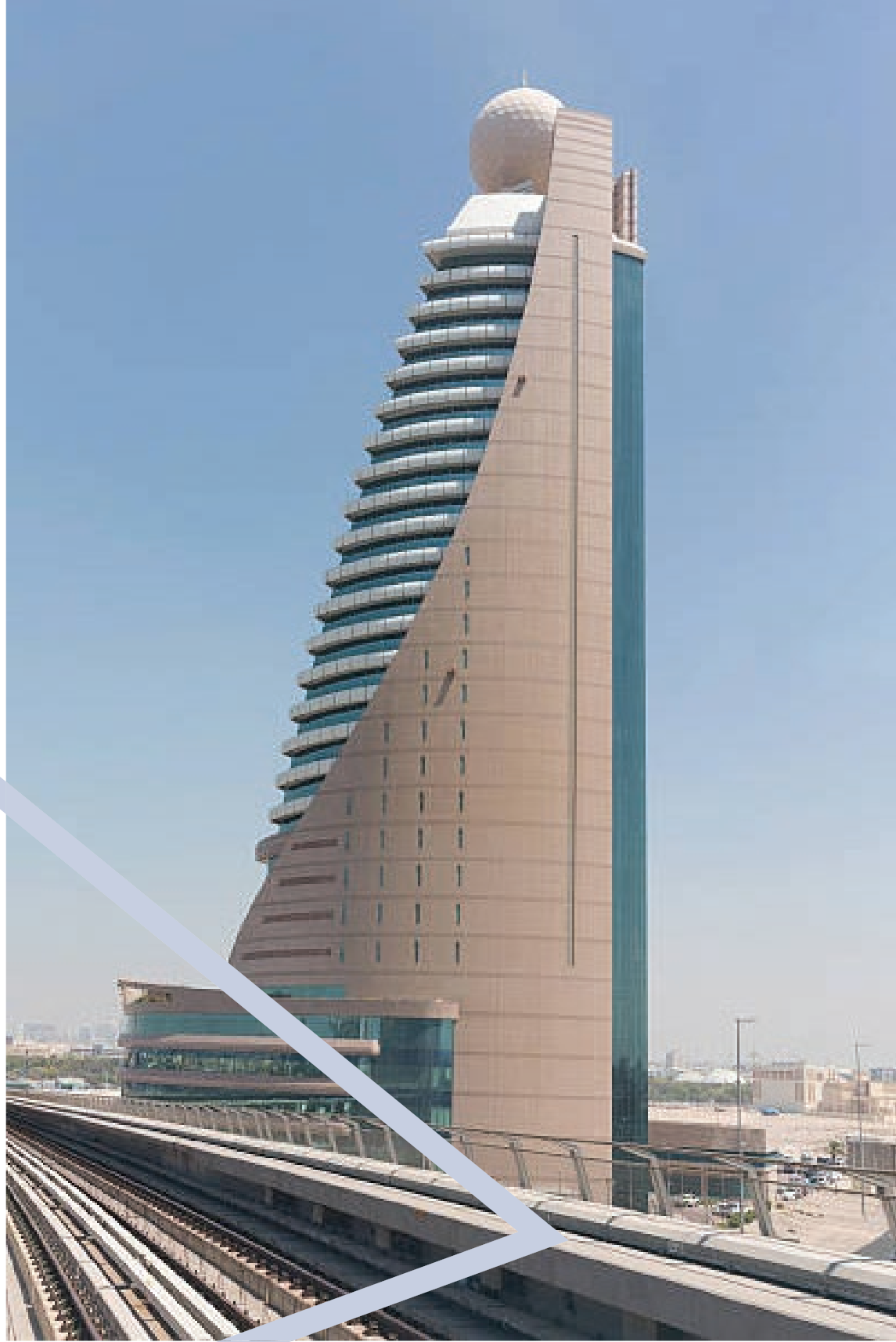


**U - VALUE** : amount of heat transferred (lost / gain), due to a temperature differential of 1° c through 1 square meter.

# 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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