

ASG

UNDERSTANDING GLASS
COMPANY BROCHURE



PERTH CHILDREN'S HOSPITAL WA
FAÇADE AREA: 17041M²
ARCHITECTS: COX HOWLETT &
BAILEY WOODLAND, BILLARD LEECE
PARTNERSHIP WITH HKS
BUILDER: JOHN HOLLAND
PRODUCTS: DGU TRIPLE
LOW-E VISUALITE 65S-1
COATING ON CLEAR; 17.52MM
LAMINATED GLASS WITH WHITE
CERAMIC FRIT PATTERN



ABOUT US

ASG (formerly known as CSG Australia), has been established in Australia for over 20 years, in which we have become one of the largest suppliers of architectural glass by adhering to our philosophy of putting Innovation and customers first.

Our success is built upon understanding our customers' needs and maintaining stringent manufacturing standards, while ensuring the optimisation of energy efficiency in contemporary Australian building innovations.

From float glass, laminated glass, solar reflective coatings, Low-E DGUs, ceramic frit application, and customised innovations, ASG's diverse product range gives architects the flexibility to bring their big ideas into life. We are passionate about helping to shape our cities, and to supply quality products and excellent service to all our clients.

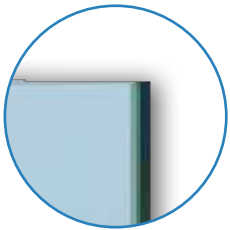


ST KILDA ROAD TOWER, MELBOURNE VIC
TOTAL FAÇADE AREA: 4000M2 | PRODUCTS DGU GLASS WITH
SOLARPRO SOLAR REFLECTIVE COATING

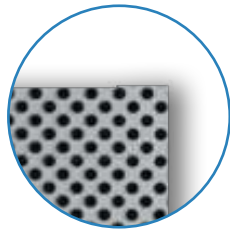


NISHI APARTMENTS ACT
 FAÇADE AREA: 4217M2
 ARCHITECTS: FENDER
 KATSALIDIS ARCHITECTS AND
 SUPPOSE DESIGN OFFICE
 FAÇADES CONSULTANT: ARUP
 PRODUCTS: DGU TRIPLE LOW-E
 VISUALITE 65S-1 COATING ON
 CLEAR

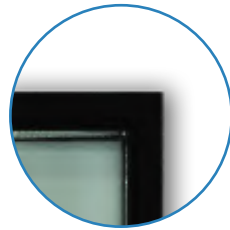
PRODUCTS WE OFFER



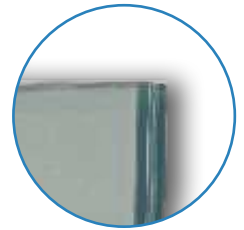
FLOAT GLASS



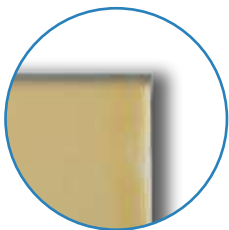
CERAMIC FRIT GLASS



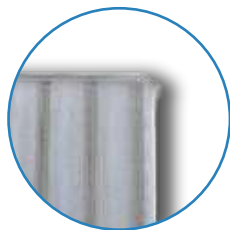
INSULATING GLASS



LAMINATED GLASS



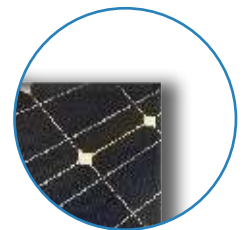
SOLAR REFLECTIVE
GLASS



PATTERN GLASS



CUSTOMISED PRODUCTS



SOLAR PANELS

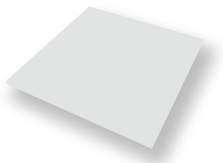
Disclaimer: ALL PICTURES OF GLASS SAMPLES ARE FOR REFERENCE ONLY. GLASS COLOUR MAY VARY SUBJECT TO DIFFERENT LIGHTING CONDITIONS



200 GEORGE STREET, SYDNEY NSW

TOTAL FAÇADE AREA: 26113M2 | ARCHITECT: FRANCIS-JONES MOREHEN THORP (FJMT) | BUILDER: MIRVAC |
FAÇADE CONTRACTOR: PERMASTEELISA | PRODUCTS: DGU TRIPLE LOW-E VISUALITE 65S-0 COATING ON LOW IRON;
DGU DOUBLE LOW-E CHAMPAGNE 46-7 COATING ON CRYSTAL GREY; LOW IRON GLASS

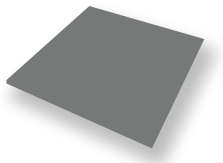
FLOAT GLASS



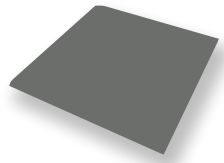
Clear Glass



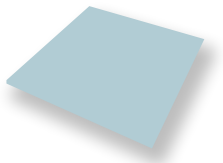
Low Iron Glass



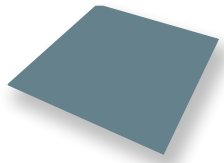
Crystal Grey



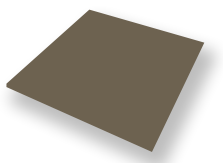
Euro Grey



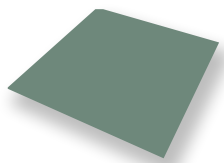
Light Blue



Dark Blue



Bronze



Green

Invented by A. Pilkington in 1952, float glass is the process of manufacturing glass by 'floating' on molten tin. Initially, raw materials are transported into a large furnace to be melted at approximately 1500 °C. Once physically transformed, the molten glass is then transported through the delivery canal and floats onto an enclosed molten tin around 1100°C, where the glass is gradually uniformed and smoothed, before being cooled and ready to be cut.

From clear, low iron and our diverse range of tinted float glass options, we ensure great visual light transmittance, outstanding flatness and uniformity, and high precision control. This also ensures that consistency is maximised for DGU, laminated, and other curtain wall glass configurations.

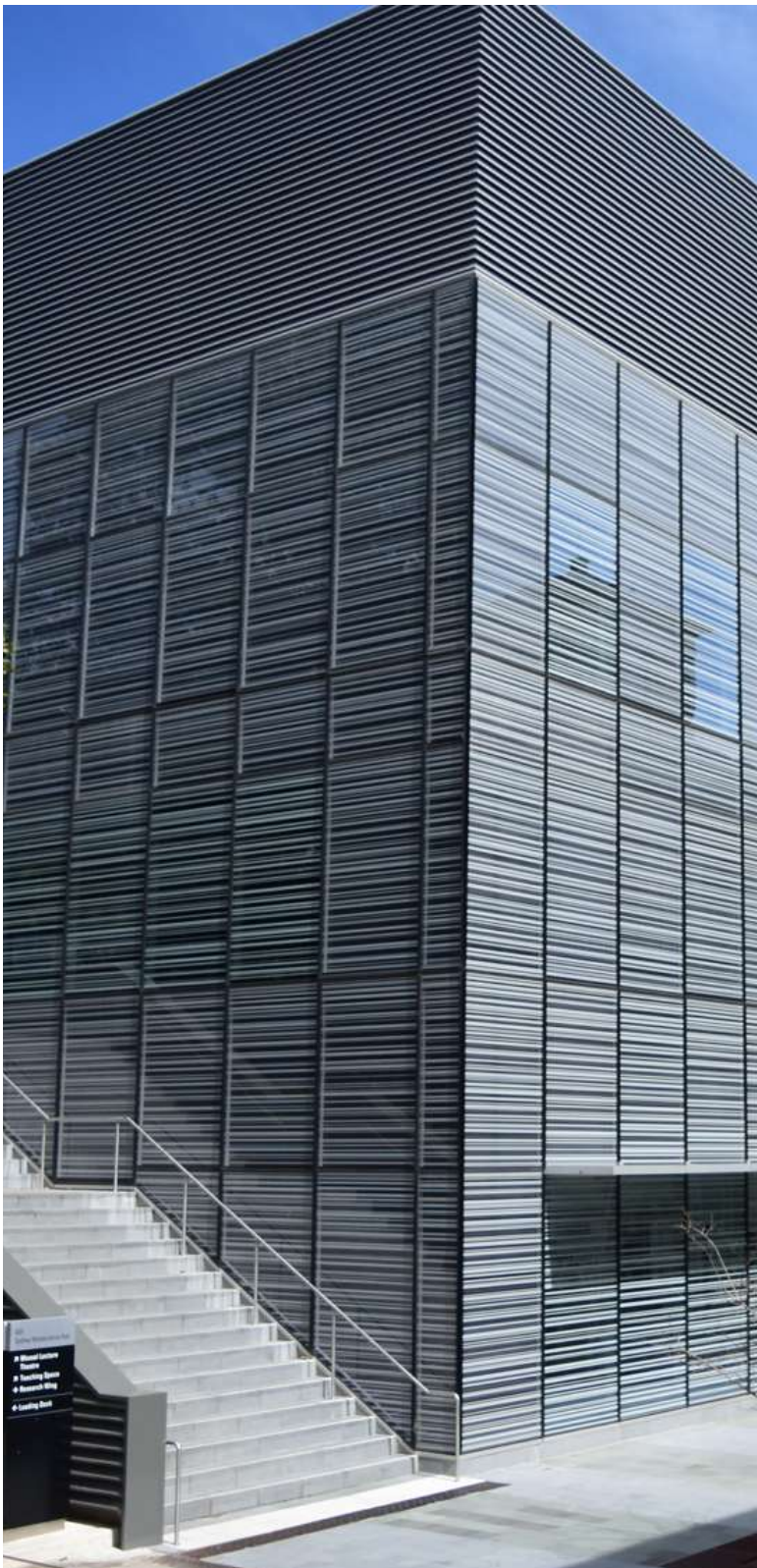
Our float glass selection conforms to a multitude of international standards. These include the Australian Standard AS/NZS 4667, American Standard ASTM C1036-5, British Standard BS952, Japanese Standard JISR3202, and Chinese standard GB11614. Our international compliance ensures the monolithic glass you are receiving are of the highest quality, which can be used wherever that is required.

Standard sizes and dimensions

Thickness(mm): 3.0, 4.0, 5.0, 6.0, 8.0, 10.0, 12.0, 15.0, 19.0

Dimensions(mm): 2440x3660

CERAMIC FRIT GLASS



Ceramic frit glass is tempered or heat strengthened glass with one surface either partially or totally covered with inorganic glazes. With its stable colour, our ceramic frit selection can serve as a great customisation for outstanding decorative effect, but also as a great colour back option that can be used for spandrels or as replacements for heavy deadweight materials.

We offer a dynamic range of colour and pattern options for your selection. Based on project requirements, we are able to match your colour and pattern preferences. Please contact our expert consultants for any advice required.

Standard sizes and dimensions

Thickness (mm): 4, 5, 6, 8, 10, 12, 15, 19

Dimensions (mm): 300 x 300 to 2250 x 4500



UNIVERSITY OF SYDNEY NANOSCIENCE INSTITUTE, SYDNEY NSW

TOTAL FAÇADE AREA: 3000M² | ARCHITECT: ARCHITECTUS | BUILDER: LENDLEASE | PRODUCTS: DGU DOUBLE LOW-E AQUA SHADE 60-0 COATING ON LOW IRON WITH WHITE STRIPPED CERAMIC FRIT PATTERN; LOW IRON GLASS WITH WHITE STRIPPED CERAMIC FRIT PATTERN

INSULATING GLASS



863 HAY ST PERTH WA
FAÇADE AREA: 4000M²
ARCHITECTS: THE BUCHAN
GROUP
BUILDER: PROBILD
PRODUCTS: DGU DOUBLE
LOW-E VISUALITE 67-3
COATING ON EURO GREY; DGU
DOUBLE LOW-E PLATI SHADE
39-1 COATING ON CLEAR;
EURO GREY GLASS WITH GREY
DOTTED CERAMIC FRIT
PATTERN; CLEAR GLASS WITH
GREY DOTTED CERAMIC FRIT
PATTERN

Insulating glass comprises of two or more plies of glass that are separated with aluminium spacer fully filled with desiccant, and sides sealed with high strength sealant. This allows Insulating Glass Units (IGUs) to increase thermal performance by reducing heat gain or loss.

Annealed clear glass, tinted glass, solar reflective glass, Low-E glass, laminated glass, tempered glass, heat-strengthened glass and curved glass can all be used to form insulating glass according to demands.

At ASG, we seek to build a dynamic range of insulating glazing that offers you the highest ratio of visual light transmittance against heat gain/ loss. From high transmittance products to our specialised aesthetic coatings, we deliver effective solutions tailored to satisfying contemporary architectural designs and ESD requirements.

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Ivory Gold 50-1 - On Clear

Purplelite 26-1 On Clear

EQ Pink 40-1 On Clear

Fluro Pink 40-1 On Clear

Aqualite 44-1 On Clear

Champagne 46-1 On Clear

Goldlite 47-1 On Clear

Sky Blue 45-1 On Clear

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Visualite 67-1 On Clear

Plati SHade 39-1 On Clear

Visualite 78-1 On Clear

Plati SHade 61-1 On Clear

Aqua SHade 69-1 On Clear

Standard sizes and Dimensions

Width of aluminium spacer (mm):

6, 9, 12, 16, 20

Dimensions (mm):

300 x 300 to 2440 x 6000

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SUPER N1 On Clear



SUPER N3 On Clear



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Super SHade 52S-1 On Clear



Visualite 65S-1 On Clear



Aqua SHade 52S-1 On Clear



Super SHade 50S-1 On Clear



Visualite 72S-1 On Clear



LAMINATED GLASS

Laminated glass is a form of high performing safety glass, comprised of two or more plies of glass held together with a polyvinyl butyral interlayer (PVB) in between. The infusion of PVB and glass results in the glass being stuck onto the PVB interlayer even when damaged or broken.

Safety, high visual light transmittance, great thermal properties, excellent acoustic attributes and ultra-violet protection are some of the features that results in laminated glass being prominently used on shop fronts, high end residential and commercial buildings, motor vehicles, ships, and airplanes.

STANDARD SIZES AND DIMENSIONS

Thickness of PVB interlayer (mm): 0.38- 3.04

Dimensions (mm): 300 x 300 to 2440 x 6000



1 BLIGH STREET, SYDNEY NSW
PRODUCT: 18.28MM LOW IRON
LAMINATED GLASS WITH SGP
INTERLAYER



PRODUCTS WE OFFER:

EXTERNAL SUBSTRATE/COATING:

- CLEAR, LOW IRON AND ALL AVAILABLE TINTED OPTIONS
- SOLAR REFLECTIVE COATINGS

INTERNAL SUBSTRATE:

- ALL AVAILABLE EXTERNAL SUBSTRATE AND COATING
- PLANIBEL PYROLYTIC LOW-E COATING
- SUNERGY PYROLYTIC LOW-E COATING

TYPICAL PVB INTERLAYER:

- CLEAR PVB
- ACOUSTIC PVB
- SOLAR ABSORBING PVB
- DUPONT SGP
- COLOURED PVB

BRANDS TO BE SAFLEX, VANCEVA, DUPONT, AND SEKISUI

AVAILABLE CONFIGURATIONS:

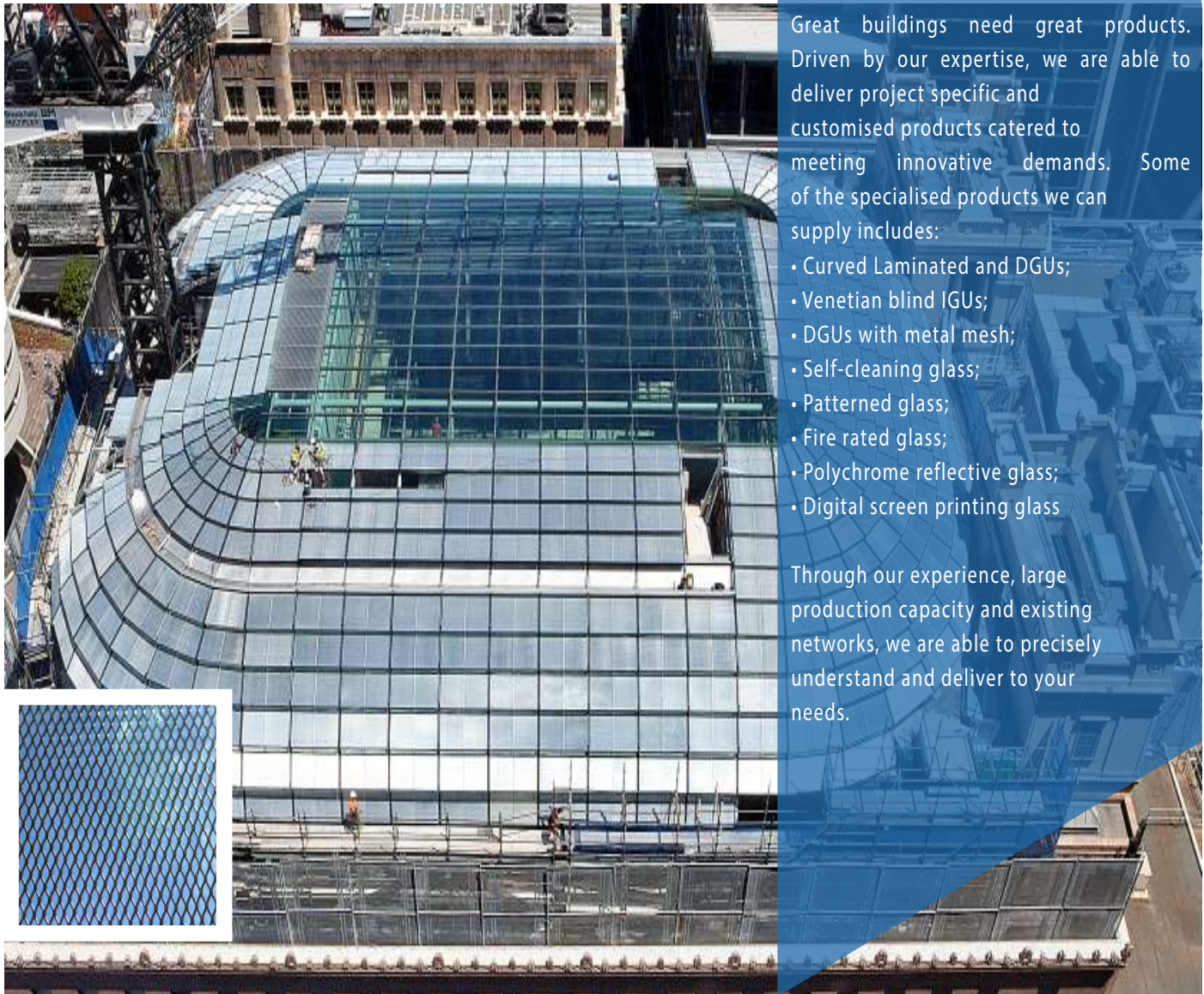
- LAMINATED ONLY
- DGU WITH LAMINATED INTERNAL
- DGU WITH LAMINATED EXTERNAL
- DGU WITH LAMINATED INTERNAL AND EXTERNAL

SOUTH AUSTRALIAN HEALTH AND MEDICAL RESEARCH INSTITUTE, ADELAIDE SA

FACADE AREA: 4500M2 | ARCHITECT: WOODS BAGOT |

FACADE CONTRACTOR: YUANDA | PRODUCT: LAMINATED DGU DOUBLE LOW-E COOL SHADE
57-0 COATING ON LOW IRON

CUSTOMISED PRODUCTS



Great buildings need great products. Driven by our expertise, we are able to deliver project specific and customised products catered to meeting innovative demands. Some of the specialised products we can supply includes:

- Curved Laminated and DGUs;
- Venetian blind IGUs;
- DGUs with metal mesh;
- Self-cleaning glass;
- Patterned glass;
- Fire rated glass;
- Polychrome reflective glass;
- Digital screen printing glass

Through our experience, large production capacity and existing networks, we are able to precisely understand and deliver to your needs.

48-50 MARTIN PLACE, SYDNEY NSW

FACADE AREA: 2900M² | ARCHITECT: JOHNSON PILTON WALKER ARCHITECTS |

FACADE CONTRACTOR: SHARVAIN PROJECTS | PRODUCTS: LAMINATED TRIPLE GLAZED UNIT TRIPLE LOW-E VISUALITE 65S-0 COATING ON LOW IRON WITH CUSTOMISED SILVER METAL MESH; WHITE TRANSLUCENT LAMINATED TRIPLE GLAZED UNIT WITH CUSTOMISED SILVER METAL MESH; TRIPLE CLEAR SUNERGY LAMINATED GLASS

OTHER PRODUCTS



DGU With Copper Mesh



DGU With Venetian Blinds



DGU With 50MM Airspacer

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SOLAR PANEL



Products we offer:

- 1) CSGAAS2-60 - Power = 250W - 280W
- 2) CSGAAS2 - 72 - Power = 310W - 335W
- 3) CSG Smart - Power optimiser harvesting up to 25% more energy to solar modules

PROJECT: XM-5 SOLAR PARK | LOCATION: ARZFELD GERMANY PRODUCT: 1.5 MW



With several decades of experience in solar manufacturing, our ability to supply the entire PV chain including silicon materials, ingot, wafer, solar glass, solar cell and modules ensures excellent raw materials and production control and also adheres to ISO9001 & ISO14001 standards



Modules certified by TUV Rheinland and compliance to IEC612215, IEC 61730 standards. This includes salt mist corrosion test, fire test, ammonia resistance test, PID test, sand abrasion test and carbon footprint assessment in TUV.



Great performance capabilities even under cloudy conditions, bad weather and night time.



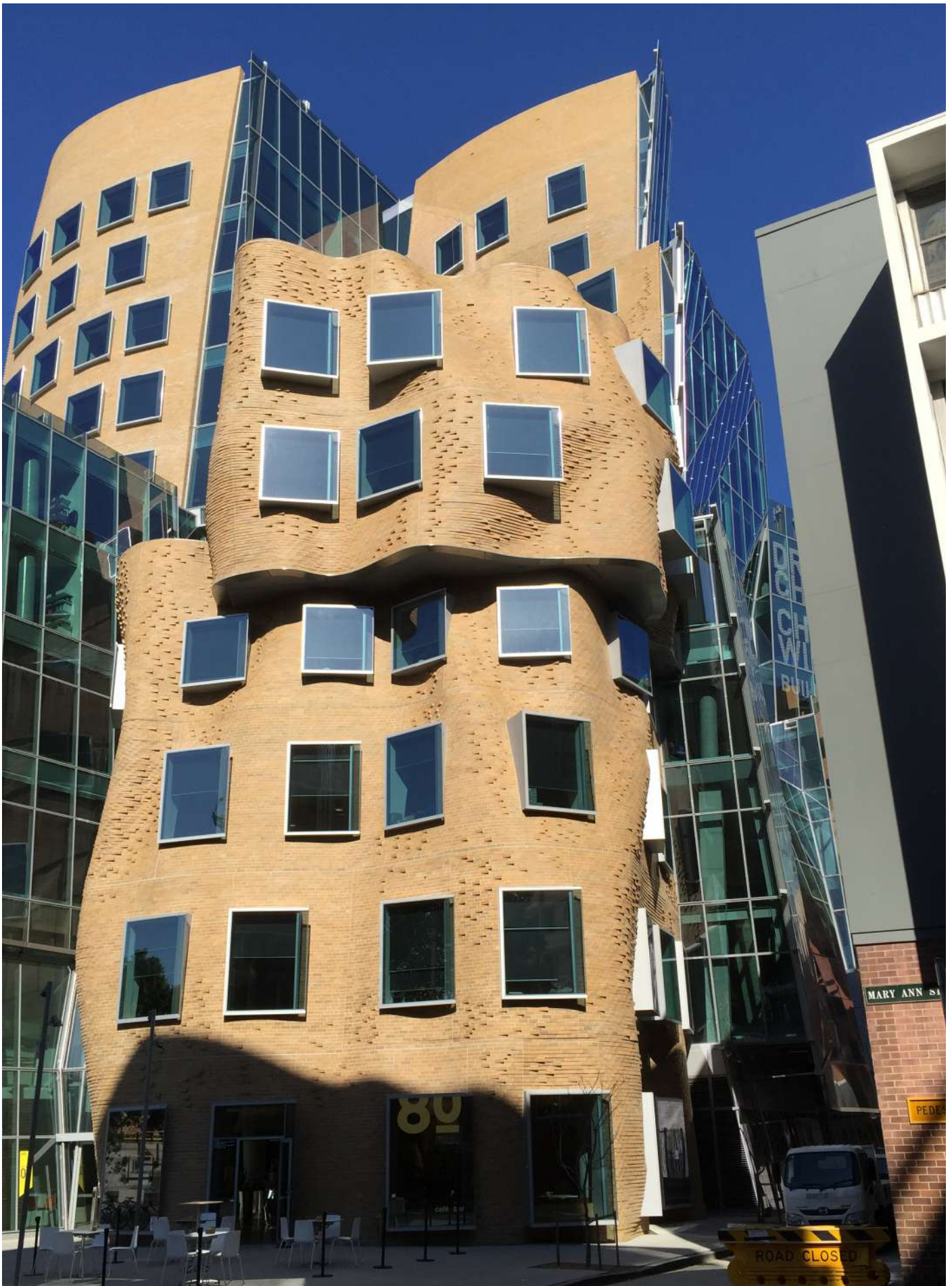
From power tolerance of 0 to +6w, we ensure up to 5.8% more power than conventional outputs.



We perform Electroluminescence testing before and after lamination in addition to finished products. This process guarantees the assurance of stringent quality standards assurance.

PRODUCT DIMENSIONS SUMMARY

Float Glass	Thickness (mm)	4	5	6	8
		10	12	15	19
	Dimension (mm)	Up to 2440*3660			
Low-E Glass	Thickness (mm)	4	5	6	8
		10	12	15	19
	Dimension (mm)	300*300 to 2440*6000			
Solar Reflective Glass	Thickness (mm)	4	5	6	8
		10	12	15	19
	Dimension(mm)	300*300 to 2440*6000			
Ceramic Frit Glass	Thickness (mm)	4	5	6	8
		10	12	15	19
	Dimension (mm)	300*300 to 2250*4500			
Laminated Glass	Thickness (mm)	0.38 - 3.04			
	Dimension (mm)	300*300 to 2440*6000			
Insulating Glass	Thickness of Airspacer (mm)	6	9	12	16
		20			
	Dimension (mm)	300*300 to 2440*6000			
Tempered Glass	Thickness (mm)	4	5	6	8
		10	12	15	19
	Dimension (mm)	300*800 to 2440*6000			
Heat Strengthened Glass	Thickness (mm)	4	5	6	8
	Dimension (mm)	300*800 to 2440*6000			
Heat Soak Test	Thickness (mm)	4	5	6	8
		10	12	15	19
	Dimension (mm)	300*300 to 2440*6000			
Curved Tempered Glass	Thickness (mm)	5	6	8	10
		12	15	19	
	Dimension (mm)	600*400 to 2440*4200			
	Minimum Radius (mm)	1000			



UTS CHAU CHAK WING BUILDING, SYDNEY NSW

FAÇADE AREA: 6000M² | ARCHITECT: GEHRY PARTNERS | BUILDER: LENDLEASE
FAÇADE CONTRACTOR: SHARVAIN PROJECTS | PRODUCTS: DGU DOUBLE LOW-E PLATI SHADE 39-1 COATING ON
CLEAR; WHITE CERAMIC DOTTED FRIT APPLICATION

PROJECTS GALLERY - NEW SOUTH WALES



INTERNATIONAL TOWERS SYDNEY, BARANGAROO
Product: DGU Triple Low-E Neutral Coating On Clear Glass



DARLING HARBOUR LIVE THEATRE, SYDNEY
Product: DGU Double Low-E High Transmittance Coating On Clear Glass

PROJECTS GALLERY - NEW SOUTH WALES



INTERNATIONAL CONVENTION CENTRE, SYDNEY
Product: DGU Double Low-E High Transmittance Coating On Clear Glass



WESTFIELD CBD,
SYDNEY

Product: Clear Sunergy
Laminated Glass;

DGU Triple Low-E
Neutral Coating On Dark
Blue Glass

PROJECTS GALLERY - NEW SOUTH WALES



177 PACIFIC HIGHWAY, NORTH SYDNEY

Product: DGU Triple Low-E Neutral Coating On Crystal Grey Glass



ONE PARRAMATTA SQUARE, PARRAMATTA

Product: DGU Triple Low-E Coating On Neutral Coating Clear Glass

PROJECTS GALLERY - VICTORIA

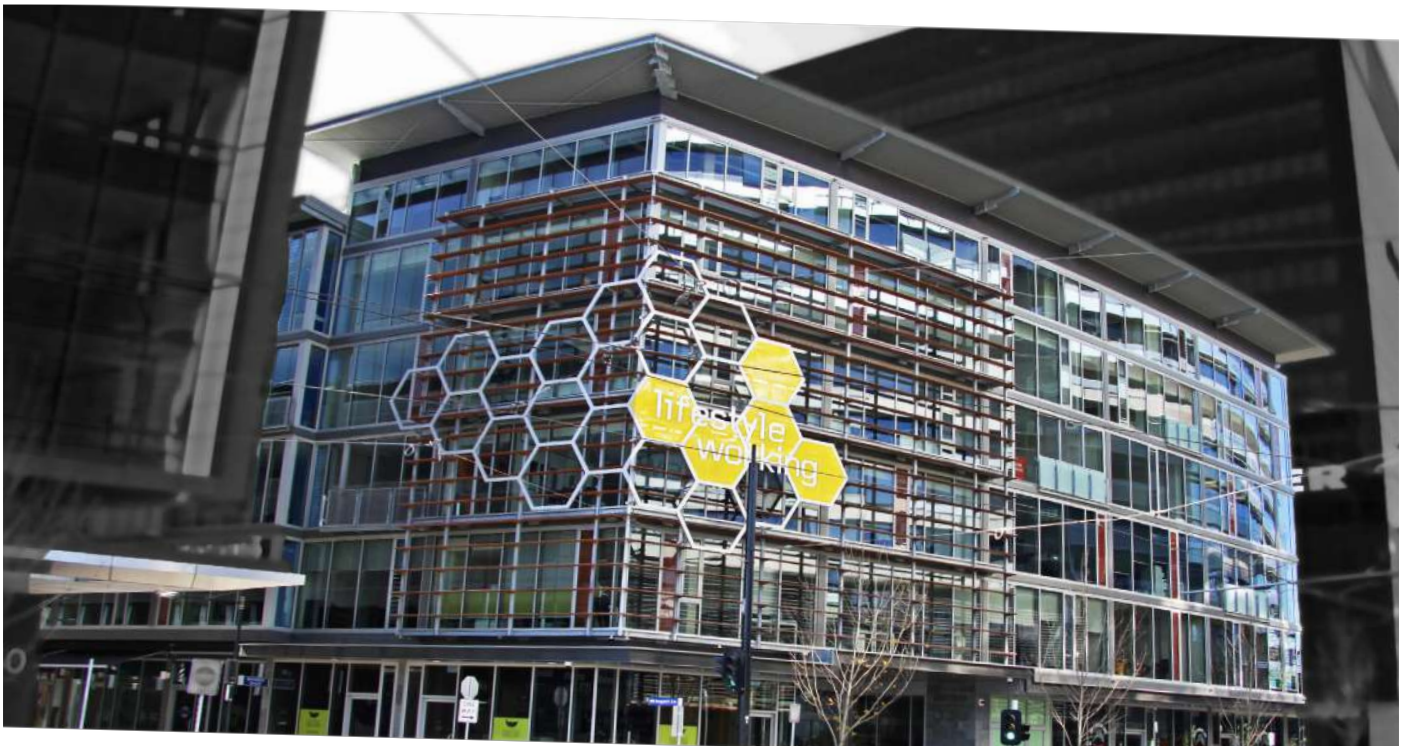


717 BOURKE STREET, MELBOURNE
Product: DGU Double Silver Low-E Coating on Clear Glass;
Laminated Glass; Clear Glass with Colourback coverage



699 BOURKE STREET, MELBOURNE
Product: DGU Triple Low-E Neutral Coating with Clear Glass

PROJECTS GALLERY - VICTORIA



838 COLLIN STREET, MELBOURNE
Product: DGU Triple Low-E Coating On Low Iron Glass



737 BOURKE STREET, MELBOURNE
Product: Grey glass with Ceramic Frit;
DGU with Low-E Coating and Solar Reflective Coating on Clear Glass

PROJECTS GALLERY - VICTORIA



800 COLLINS STREET, MELBOURNE
Product: DGU Double Low-E Neutral Coating With Clear Glass



ROYAL CHILDREN'S HOSPITAL, MELBOURNE
Product: DGU Double Low-E Coating On Green Tinted Glass;
Laminated Glass Pink, White, Green Colourback With
Performance Glass

PROJECTS GALLERY - AUSTRALIAN CAPITAL TERRITORY



18 MARCUS CLARKE, CANBERRA
Product: DGU Double Low-E Neutral Coating on Clear Glass;
Clear Laminated Glass

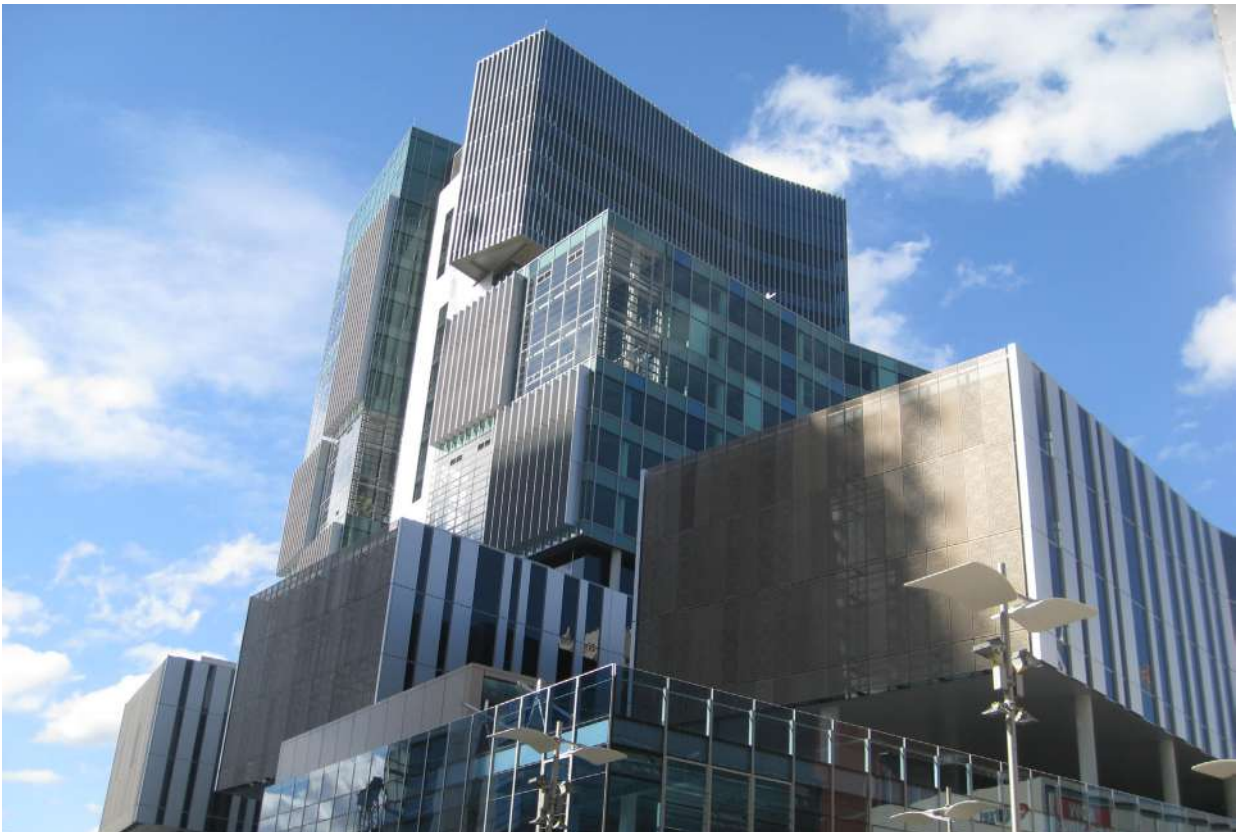


28 SYDNEY AVENUE, CANBERRA
Product: DGU Double Low-E Neutral Coating With Grey Tinted Glass

PROJECTS GALLERY - WESTERN AUSTRALIA



CENTURY CITY, PERTH
Product: DGU Double Low-E Coating
On Dark Blue Tinted Glass



140 WILLIAM STREET, PERTH
Product: Laminated Glass Green, Grey, Blue Tinted Glass

PROJECTS GALLERY - SOUTH AUSTRALIA



CITY CENTRAL TOWER, ADELAIDE
Product: DGU Double Low-E Coating With Green Tinted Glass



FLINDERS UNIVERSITY, TONSLY PARK, ADELAIDE
Product: DGU Triple Low-E Neutral Coating On Laminated Exterior With Ceramic Frit On Low Iron Glass

PROJECTS GALLERY - QUEENSLAND



180 ANN STREET, BRISBANE

Product: DGU Double Silver
Low-E coating with Grey, Green,
Clear Glass; Ceramic Frit Glass;
Laminated Glass



480 QUEEN STREET, BRISBANE

Product: DGU Triple Low-E Neutral Coating On Clear Glass;
DGU Double Low-E Silver Coating On Clear Glass

Our Certificates

CSG Tianjin Factory Architectural Glass



STANDARDSMARK LICENCE

SAI Global hereby grants:
Tianjin CSG Energy Conservation Glass Co., Ltd

No. 12 Quanfeng Road, Tianjin New Technology Industrial Park Zones, Tianjin, China

StandardsMark Licence

Manufactured to:
AS/NZS 2208:1996 - Safety glazing materials in buildings

"the StandardsMark Licensee" the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee and which comply with the appropriate Standard referred to above as from time to time amended. The License is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Licence No: SMKB21562
Issued: 2 September 2014
Expires: 4 September 2018
Originally Certified: 5 September 2008
Current Certification: 2 September 2014

Paul Butcher
Paul Butcher
Global Head - Assurance Services

Samir Chauk
Samir Chauk
Head of Policy, Risk and Certification



SAI GLOBAL
* For details of manufacture, refer to the licensee
 The STANDARDSMARK is a registered certification trademark of SAI Global Limited (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited (A.C.N. 108 716 660) (SAI Global) 180 George Street, Sydney NSW 2000, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to www.saiglobal.com for the list of product models.



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 00115021224R2L/1200

We hereby certify that
Tianjin CSG Energy Conservation Glass Co.,Ltd.

Organization Code Certificate: 79251058-3

No. 12 Quanfeng Road, Wuqing Development Area, New-tech Industrial Park, Tianjin, China

by reason of its
Quality Management System
has been awarded this certificate for compliance with the standard
ISO9001:2008 GB/T19001-2008

The Quality Management System Applies in the following area:
Design and Manufacture of Tempered Glass Unit, Coating Glass, Laminated Glass & Insulating Glass Unit

Certified since: Feb. 16, 2009 Valid from: Feb. 02, 2015 Valid until: Feb. 01, 2018

After a surveillance cycle, the certificate & seal only can be used together with an Acceptance Notice of Surveillance Audit issued by CQC. Please access www.cqc.com.cn for checking validity of the certificate. This certificate and its relevant information can query in the website of Certification and Administration Administration of the People's Republic of China: www.cqc.gov.cn



Signed by: Wang Kejian

CHINA QUALITY CERTIFICATION CENTRE
 Section 9, No.118, Nanshaofu South Fourth Ring Road, Xiba'otai Road, Beijing 100070, China
 100070 www.cqc.com.cn

Q 0193861



INSULATING GLASS CERTIFICATION COUNCIL

Administrative Management Systems, Inc.
205 West Main Street, PO Box 730
Sackett Harbor, NY 13685
Phone: (315) 646-2234
Fax: (315) 646-2297
E-mail: staff@ams-cert.com

IGMA INSULATING GLASS MANUFACTURERS ASSOCIATION

ACKNOWLEDGEMENT OF CERTIFICATION
THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

Tianjin CSG Energy Conservation Glass Co., Ltd
Tianjin, China

IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE IGCC®/IGMA® CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS IGCC®/IGMA® CERTIFIED. THE FOLLOWING ARE IN COMPLIANCE WITH ASTM E2190 FOR SEAL DURABILITY OF INSULATING GLASS UNITS AND PASSING GAS CONTENT INITIAL AND AFTER WEATHERING (IGCA) CERTIFICATION REQUIREMENTS AS INDICATED.


CERT #	GLASS	SPACER	FRAME CONST.	DESICCANT	SEALANT	G/C/A
2336	U/C2	AA	BC4/GSJ	LF	PB/PS	Yes
2276	U/C2	AA	BC4/GSJ	LF	PB/S2	Yes

THIS IGCC®/IGMA® PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE. CERTIFICATION IN THE IGCC®/IGMA® PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE CURRENT CERTIFIED PRODUCTS DIRECTORY OR THIS OFFICE FOR MOST CURRENT INFORMATION.

Tuesday, January 24, 2017 DATE OF ISSUE
 February 1, 2017 - January 31, 2018 CERTIFICATION PERIOD

[Signature]
ADMINISTRATIVE MANAGER

IG-14 Last Revised By: TDS 6/1/16 Last Approved By: EMA 6/1/16



safety glazing certification council

Administrative Office, AMS, Inc.
205 West Main Street, PO Box 730
Sackett Harbor, NY 13685
Phone: (315) 646-2234
E-mail: staff@ams-cert.com

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THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

Tianjin CSG Energy Conservation Glass Co., Ltd
Tianjin, China

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SGCC#	IN	MM	Attributes	INT	Type Code	Max Size	ANSI Class	Test Std	Year
4021	5/32	4			TTG	U	A	COMP-CAN	2015
4022	3/16	5			TTG	U	A	COMP-CAN	2015
4023	1/4	6			TTG	U	A	COMP-CAN	2015
4024	5/16	8			TTG	U	A	COMP-CAN	2015
4025	3/8	10			TTG	U	A	COMP-CAN	2015
4026	1/2	12			TTG	U	A	COMP-CAN	2015
4027	*	15	(3)		TTG	U	A	COMP-CAN	2015
4028	3/4	19			TTG	U	A	COMP-CAN	2015
4030	(H)	8	(b)(A)	(.030)	LTG	U	A	COMP-CAN	2015
4106	(H)	10	(b)(A)	(.045)	LTG	U	A	COMP-CAN	2015
4107	(H)	12	(b)(A)	(.060)	LTG	U	A	COMP-CAN	2015
4108	(H)	16*	(b)(A)	(.090)	LTG	U	A	COMP-CAN	2015

THIS SGCC® PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE. CERTIFICATION IN THE SGCC® PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE SGCC WEBSITE AT WWW.SGCC.ORG OR THIS OFFICE FOR MOST CURRENT INFORMATION.


Thursday, February 09, 2017 DATE OF ISSUE
 February 1, 2017 - January 31, 2018 CERTIFICATION PERIOD

[Signature]
ADMINISTRATIVE MANAGER

SG-13 Last Revised By: KS 4/11/16 Last Approved By: JK 4/11/16

Our Certificates

CSG Dongguan Factory Architectural Glass



Administrative Office
100 West Main Street, P.O. BOX 730
Sackets Harbor, NY 13685
Phone: (315) 646-2234
Fax: (315) 646-2297
E-mail: staff@amscert.com

safety glazing certification council

ACKNOWLEDGEMENT OF CERTIFICATION
THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE


Dongguan CSG Architectural Glass Co., Ltd.
Dongguan, Guangdong, China

IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE SGCC® CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS SGCC® CERTIFIED. THE FOLLOWING ARE IN COMPLIANCE WITH ANSI Z97.1-2015, CPSC 16 CFR 1201 STANDARDS, OR BOTH STANDARDS, KNOWN AS COMPOSITE CERTIFICATION, OR BOTH STANDARDS WITH CAN/CSB 12.1 KNOWN AS COMP+CAN.

SGCC#	IN	MM	Attributes	INT	Type Code	Max Size	ANSI Class	Test Std
3932	5/32	4			TTG	U	A	COMP+CAN
3933	3/16	5			TTG	U	A	COMP+CAN
3934	1/4	6			TTG	U	A	COMP+CAN
3935	5/16	8			TTG	U	A	COMP+CAN
3936	3/8	10			TTG	U	A	COMP+CAN
3937	1/2	12			TTG	U	A	COMP+CAN
3938	*	15	(3)		TTG	U	A	COMP+CAN
3939	3/4	19			TTG	U	A	COMP+CAN
4167	(H)	8-12	(b)(A)	(.030)	LTG	U	A	COMP+CAN

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Wednesday, January 20, 2016 F16
DATE OF ISSUE CERTIFICATION PERIOD


ADMINISTRATIVE MANAGER

JAS (Inspection & Testing) Ltd

A
Calibration Report
of the
Heat Soak Process Oven "F"
For
Dongguan CSG Architectural Glass Co., Ltd.
To
BS EN 14179-1:2005

Prepared by: **JAS (Inspection & Testing) Ltd.**
Date: 7th January 2016
Our Ref.: J3372-R01-160107



1712-14 17// Topsail Plaza, 11 On Sum Street, Shatin N1, Hong Kong
Tel +852 2834 1663 fax +852 2834 1178 email jasassoc@hkstar.com

INSULATING GLASS
IGCC
CERTIFICATION COUNCIL

Administrative Management Systems, Inc.
205 West Main Street, PO Box 730
Sackets Harbor, NY 13685
Phone: (315) 646-2234
Fax: (315) 646-2297
E-mail: staff@amscert.com

IGMA
INSULATING
GLASS
MANUFACTURERS
ALLIANCE

ACKNOWLEDGEMENT OF CERTIFICATION
THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

Dongguan CSG Architectural Glass Co., Ltd.
Dongguan, Guangdong, China

IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE IGCC®/IGMA® CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS IGCC®/IGMA® CERTIFIED. THE FOLLOWING ARE IN COMPLIANCE WITH ASTM E2190 FOR SEAL DURABILITY OF INSULATING GLASS UNITS AND PASSING GAS CONTENT INITIAL AND AFTER WEATHERING (GCIA) CERTIFICATION REQUIREMENTS AS INDICATED.

CERT #	GLASS	SPACER	FRAME CONST.	DESICCANT	SEALANT	GCIA
2660	U/U	AA	BC4/GSJ	LF	HM/S2	No
1476	U/U	AA	BC4/GSJ	LF	HM/PS	No

THIS IGCC®/IGMA® PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE. CERTIFICATION IN THE IGCC®/IGMA® PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE CURRENT CERTIFIED PRODUCTS DIRECTORY OR THIS OFFICE FOR MOST CURRENT INFORMATION.

Wednesday, December 28, 2016 February 1, 2017 - January 31, 2018
DATE OF ISSUE CERTIFICATION PERIOD


ADMINISTRATIVE MANAGER

ID-14 Last Revised By: TDS 6/1/16 Last Approved By: EMA 6/1/16

Our Certificates

CSG Dongguan Factory Architectural Glass

JAS (Inspection & Testing) Ltd

A

Calibration Report

of the

Heat Soak Process Oven "G"

For

Dongguan CSG Architectural Glass Co., Ltd.

To

BS EN 14179-1:2005

Prepared by: **JAS (Inspection & Testing) Ltd.**

Date: 9th January 2016

Our Ref.: 33373-R01-160109



1712-14 17/1 Topsail Plaza, 11 On Sum Street, Shatin NT, Hong Kong
Tel +852 2834 1663 fax +852 2834 1178 email jasassoc@hkstarcom

Certificate of Registration

Intertek

This is to certify that the quality management system of

Dongguan CSG Architectural Glass Co., Ltd.

Xinjili Village, Machong Town, Dongguan, Guangdong Province, P. R. China


has been assessed and registered by Intertek as conforming to the requirements of

ISO 9001: 2008

The quality management system is applicable to:

Design, manufacture, sales and technical service of coating glass, tempered glass, laminated glass, ceramic glass, insulating glass

Unified Social Credit Identifier:	91441900781176331B
Certificate Number:	9511022-01
Initial Certification Date:	15 February 1996
Date of Certification Decision:	19 January 2017
Certificate Issue Date:	19 January 2017
Valid Until:	14 September 2018



Authorized Signature: Colin McClelland - President, Business Assurance
Intertek Certification Limited, 10A Victoria Park, Victoria Road, Derby DE24 8DE, United Kingdom

Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.

In the absence of this certificate, Intertek assumes no liability to any party other than to the client, and then only in accordance with the signed upon Certification Agreement. The certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for the systems certification. Validity may be confirmed via email of certification@intertek.com or by scanning the code to the right with a smartphone. Annual validity is subject to the successful regular surveillance audit. Certification information can be checked through <http://www.cncas.gov.cn/> of CNCA in China.



The certificate remains the property of Intertek, to whom it must be returned upon request.

Certificate of Management System Certification

This is to certify the environmental management system of

DONGGUAN CSG ARCHITECTURAL GLASS CO.,LTD.

Organizational Code : 7817633-1

ADDRESS: XINJILI VILLAGE, MACHONG TOWN, DONGGUAN, GUANGDONG PROVINCE, P.R.CHINA P.C.: 523111

Is in conformity with

ISO 14001: 2004

This certificate covers the following area

DESIGN, MANUFACTURE AND SALE OF COATING GLASS, TEMPERED GLASS, LAMINATED GLASS, CERAMIC GLASS, INSULATING GLASS (HAVE LICENSING REQUIREMENTS WITHIN THE SCOPE OF 3 C CERTIFICATE)

Initial Certification Date: JUN. 29, 2012 Issue Date: FROM JUN. 15, 2015

Validity Period: From JUN. 15, 2015 To JUN. 14, 2018

Certificate No.: M4311SE20259R1W General Manager: 郑宇兵





Certified client shall receive at least one surveillance audit over the validity period. The certificate shall only be valid together with the Notice Letter of Annual Surveillance Certification Decision. Please visit www.daluhangxing.com or <http://www.cncas.gov.cn/> to check the certificate's status.

Beijing Daluhangxing Quality Certification Center Co., Ltd.

Address: No. Jia 12, Yuquan road, Haidian district, Beijing, P.R. China P.C.: 100143

STANDARDSMARK LICENCE

SAI Global hereby grants:

Dongguan CSG Architectural Glass Co Ltd

CSG Green Energy Industrial Zone, Machong Town, Dongguan, Guangdong China

StandardsMark Licence

Manufactured to:

AS/NZS 2208:1996 - Safety glazing materials in buildings

"The StandardsMark Licensee's" right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee and which comply with the appropriate Standard referred to above so, from time to time amended. The License is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Licence No: SMK1009

Issued : 12 October 2012 Originally Certified : 1 October 1991

Expires : 30 September 2017 Current Certification : 12 October 2012

Daver Chook
Fuzhou, Risk and Certification Manager

Tony Scotton
Chief Executive Officer




* For details of manufacture, refer to the license. THE STANDARDSMARK is a registered certification trademark of SAI GLOBAL LIMITED (A.C.N. 105 644 641) and is issued under license by SAI Global Certification Services Pty Limited (A.C.N. 716 651) (SAI Global), 285 Garsfield Drive, Sydney NSW 2002, GPO Box 5429 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to www.sai-global.com for the list of product models.



ASG

UNDERSTANDING GLASS

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