

Magic Switchable glass 6mm+6mm Laminated PDLC glass windows and doors manufacturer



For builders looking to stay up-to-date with the latest glass innovations, PDLC (polymer dispersed liquid crystal) windows and doors have become a hot commodity.

Whether you're constructing commercial or residential buildings, these switchable glass solutions offer an impressive combination of style, security and convenience. With the 6mm+6mm PDLC glass window and door manufacturer from Shenzhen Dragon Glass Company you can easily install this cutting-edge technology in your projects for a truly modern finish. Not only do these products boast superior energy efficiency, but they also add aesthetic value while providing greater privacy control than traditional methods – ideal for both new builds and renovations alike!

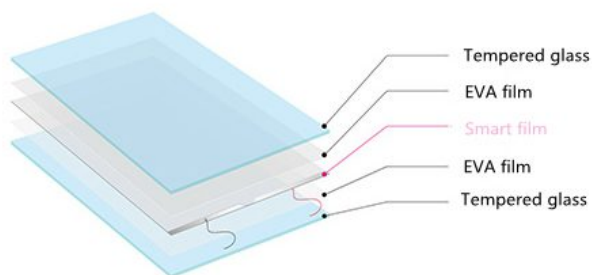
What is PDLC [smart glass](#) switchable glass?

PDLC smart glass, also known as switchable glass, is a dynamic and innovative technology that has revolutionized the world of glass manufacturing. This amazing glass is made using a special type of film that can be controlled via an electric current. When you need privacy, just switch off the current and the glass will turn opaque, providing you with a private and secure environment. Want to let in natural light? Simply switch on the current and the glass will instantly become

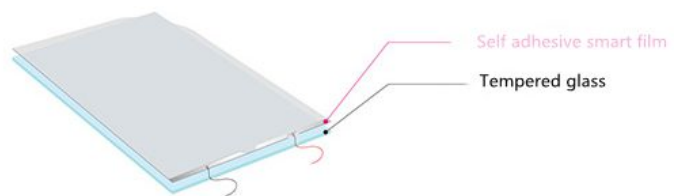
clear. In addition to the convenience of privacy and light control, PDLC smart glass also offers energy efficiency and noise reduction benefits, making it a highly sought-after product for both residential and commercial use.

What is the structure of PDLC glass?

The PDLC core layer, usually 1.5mm in thickness, comprises an array of liquid crystal droplets enclosed in a polymer film. It is interposed between layers of a transparent conductor, ITO (Indium Tin Oxide), and covered by inner panels of optically clear PET plastic (polyethylene terephthalate). The outermost panels are made of float glass, which can be low-iron and tempered.



Laminated smart glass structure diagram



Self-adhesive smart glass structure diagram





Exploit the Beauty of PDLC Glass

1. Experience Privacy and Versatility with Intelligent Dimming Glass:

One of the best features of intelligent dimming glass is its privacy protection function. It allows you to control the glass's transparency anytime, and it's responsive with instant switching between states.

2. Enjoy Peace and Quiet:

The protective film and dimming layer in intelligent dimming glass offer effective noise damping. With hollow form processing, it delivers even better results.

3. Embrace Sustainable Living with Intelligent Dimming Glass:

By blocking more than 99% of UV and over 98% of infrared radiation, intelligent dimming glass offers excellent

thermal insulation and promotes energy efficiency.

4. Save Energy and Cut Costs with Intelligent Dimming Glass:

Intelligent dimming glass saves power by remaining transparent while still allowing ample light to pass through. This feature not only ensures comfort but also reduces energy consumption and costs.

5. Stay Safe with Intelligent Dimming Glass:

With its strong and durable [laminated glass](#) and protective film layer, intelligent dimming glass can withstand impact and prevent debris from scattering in case of accidental breakage. Stay safe while enjoying the features of this innovative technology.

Transform homes and businesses into smart spaces

PDLC smart glass is revolutionizing residential and commercial spaces. The switchable technology allows users to instantly change from transparent to opaque, controlling light, privacy, and decoration in any room or office. This innovative solution is being integrated into a wide variety of applications including windows, partitions, skylights, conference rooms, meeting areas, retail spaces, and even glass furniture.







Quality:

- CE
- ASTM
- AS
- ISO9001
- CCC, etc

Product Applications

- Office, conference room
- high speed rail, subway, aviation applications
- CRH train, subway, aviation applications
- Special hospital application

- Projection touch application
- Bank Counter, Business Office
- Shower room, toilet

Specification:

- **Glass color:** clear, ultra-clear, grey, bronze, blue, green, etc
- **Switchable film color:** purple, green, orange, yellow, blue, red, grey, black, etc
- **Max size:** 2440 x 3660 mm
- **Shape:** flat/curved

Production details:





Packing:



Certifications:

DECLARATION OF CONFORMITY

LabTest Laboratory
Certificate NO.: LBTC131122CE

EC Declaration of CPD Conformity

The following product has been tested by Labtest Technology Laboratory Ltd. with the testing standards and found in conformity with the EC Council Directive of 89/106/EEC. It is possible to use CE marking to demonstrate the conformity with this CPD Directive.

Report No. : LBTR131122CE
 Applicant : SHENZHEN DRAGON GLASS CO., LTD
 Address : Yunhai enterprise headquarters base, Longcheng street, Longgang, Shenzhen, China
 Manufacturer : SHENZHEN DRAGON GLASS CO., LTD
 Address : Yunhai enterprise headquarters base, Longcheng street, Longgang, Shenzhen, China
 Product : Laminated Safety Glass
 Model No. :
 S1mm=1.52+5mm, 6mm=1.52+6mm,
 8mm=1.52+8mm, 10mm=1.52+10mm,
 12mm=1.52+12mm
 Trade Mark : N/A
 Test Standards : EN ISO 12543-2:2011
 EN ISO 12543-3:2011

The referred test report(s) show that the product complies with the essential requirements of the above listed standards. The applicant is authorized to use this certificate in connection with the EC declaration of CPD conformity according to the Directive.

Date of Issue: Nov 22, 2013

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above-mentioned product. It does not imply an assessment of the whole production and other relevant Directives have to be observed.

40, Dongfangjiaohu Building, Fiyun Road, Bao'an District, Shenzhen, P.R.China
 Tel: No. 755-8311 9383 Fax: No. 755-8311 9385 http://www.labtest.com

RED Research Engineering Development Facade Consultants Limited
 研究發展建築外圍護牆顧問有限公司
 • Tel: (852) 2867-0930 • Fax: (852) 2862-6395

Report R19H01-1A
 on
Calibration of Oven No. 3
 for
Heat Soak Process for Tempered Glass
 to BS EN 14179-1: 2016
 and
 fulfilling the requirements of
Sections 8.1 & 9.3 of Code of Practice for
Structural Use of Glass 2018 of
Buildings Department of Hong Kong

Prepared for:
 Glass Supplier & Glass Fabricator:
SHENZHEN DRAGON GLASS CO., LTD
 Yunhai enterprise headquarters base, Longcheng,
 Longgang District, Shenzhen, China

Research Engineering Development
 Facade Consultants Limited
 Valid Period: from 2 August 2019 to 1 August 2024
 Issue Date: 2 August 2019

QUALITY MANAGEMENT SYSTEM
CERTIFICATE

Certificate No.: 18716Q110200R05

We hereby certify that
Shenzhen Dragon Glass Co., Ltd
 Unified social credit code/Organization code:91440300062733391Q
 Address : Yunhai enterprise headquarters base, Longcheng,
 Longgang District, Shenzhen, China
 by means of its
 Quality Management System
 has been awarded this certificate for compliance with the standard
ISO 9001:2015

The Quality Management System Applies in the following area
Sales of Building Glass (Float Glass, Tempered Glass, Laminated
Glass, Insulated Glass, Mirror Glass and Other Special Glass)
 Inapplicable Clause: 8.5.3

Date of Issue: Nov 09, 2016 Date of Validity: Nov 09, 2019

Surveillance Audit (The first time)	Surveillance Audit (The second time)	Surveillance Audit (The third time)

(The quality management system is subject to yearly surveillance audit within the period of validity; the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by SDC.)

Issued by 

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic of China (www.cca.gov.cn)

SHENZHEN SHENMA INTERNATIONAL CERTIFICATION CO., LTD
 Address: 201, A Building, Guangxin Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen

IGCC International Glazing Certification Council
 Administrative Office, AAM, Inc.
 205 West Main Street, P.O. Box 730
 Sakata Harbor, NY 13885
 Phone: (315) 846-2274
 Fax: (315) 846-2297
 E-mail: igcc@amc.com

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 Administrative Office, AAM, Inc.
 205 West Main Street, P.O. Box 730
 Sakata Harbor, NY 13885
 Phone: (315) 846-2274
 Fax: (315) 846-2297
 E-mail: igcc@amc.com

ACKNOWLEDGEMENT OF CERTIFICATION
 THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE
Shenzhen Dragon Glass Co., Ltd
 Shenzhen, Guangdong

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 PRODUCTS AS IGCC/IGMA CERTIFIED. THE FOLLOWING ARE IN COMPLIANCE WITH ASTM E1363 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	IGCA
4333	UK2	MA	BC4GSLC	LF	P1B5Z	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.

Issue: February 13, 2019 February 13, 2019 - February 13, 2020
 DATE OF ISSUE CERTIFICATION PERIOD


 ADMINISTRATIVE MANAGER

SGCC safety glazing certification council
 Administrative Office, AAM, Inc.
 205 West Main Street, P.O. Box 730
 Sakata Harbor, NY 13885
 Phone: (315) 846-2274
 Fax: (315) 846-2297
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SGCC#IN	MM	Attributes	IKT	Typn.Code	Max.Size	ANSI Class	Test Std	ANSI Z39.10.6
4303	6/32	A		TYG	U	A	CGMP-CAN	2008
4304	3/16	B		TYG	U	A	CGMP-CAN	2008
4305	1/4	B		TYG	U	A	CGMP-CAN	2008
4306	5/16	B		TYG	U	A	CGMP-CAN	2008
4307	3/8	B		TYG	U	A	CGMP-CAN	2008
4308	1/2	B		TYG	U	A	CGMP-CAN	2008
4309	1/2	B	CS	TYG	U	A	CGMP-CAN	2008
4310	3/4	B		TYG	U	A	CGMP-CAN	2008
4312	0/0	8-18+ (WGA)	(.580)	LYG	U	A	CGMP-CAN	2008
4875	0/0	10-18+ (WGA)	(.580)	LYG	U	A	CGMP-CAN	2008
5052	1/4	B		TBG	U	A	CGMP-CAN	2008
5053	5/16	B		TBG	U	A	CGMP-CAN	2008
5054	3/8	B		TBG	U	A	CGMP-CAN	2008
5055	1/2	B		TBG	U	A	CGMP-CAN	2008

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.

Issue: Feb 14, 2019
 DATE OF ISSUE CERTIFICATION PERIOD


 ADMINISTRATIVE MANAGER

Discover a world of possibilities to transform your space with **Shenzhen Dragon** Glass's Switchable PDLC Glass. Our intuitive and revolutionary products offer an extensive selection that is not only easy to use but also sure to amaze you. Contact us today to unlock the potential of your space.