EN12543 Good Quality Opaque Laminated Glass Sheet 4+0.76mm+4mm for wholesale and Distribution



1. What is opaque laminated glass sheet 4+0.76mm+4mm?

Opaque laminated glass sheet also called frosted white laminated glass, translucent laminated glass, or <u>milky white</u>

<u>laminated glass</u>, often choose two pieces of 4mm clear glass, low iron glass, or other kinds of glass, coming with 2 layers of the PVB interlayer or EVA interlayer, thickness reach 0.76mm, or .03, laminating by the Autoclave, after being subjected to high temperature and high-pressure environment, it becomes laminated glass finally.

The entire structure consists of two 4mm glass panes separated by a 0.76mm interlayer, making a total thickness of approximately 8.76mm or 44.2 laminated glass. This type of laminated glass is commonly used in applications where safety and security are priorities, such as in windows, doors, partitions, railing and automotive windshields.

2. Feature

Privacy

• Opaque laminated glass obstructs visibility, providing privacy for spaces where clear visibility is not desired. This feature makes it suitable for applications such as partitions, doors, and glass windows in bathrooms, conference rooms, or offices.

Security

• Like all laminated glass, opaque laminated glass offers enhanced security due to its construction. Even if the glass breaks, the interlayer holds the broken pieces together, preventing them from shattering and potentially causing harm. This feature makes it a preferred choice for security-sensitive environments.

Sound Insulation

• The interlayer (also can use acoustic PVB of laminated glass) in laminated glass also acts as a sound barrier, reducing noise transmission between spaces. Opaque laminated glass can help create quieter environments by minimizing external noise intrusion or internal noise propagation.

UV Protection

• Some types of opaque laminated glass are designed to block UV radiation, protecting interior spaces and occupants from harmful ultraviolet rays. This feature helps prevent fading of furniture, flooring, and other interior elements exposed to sunlight.

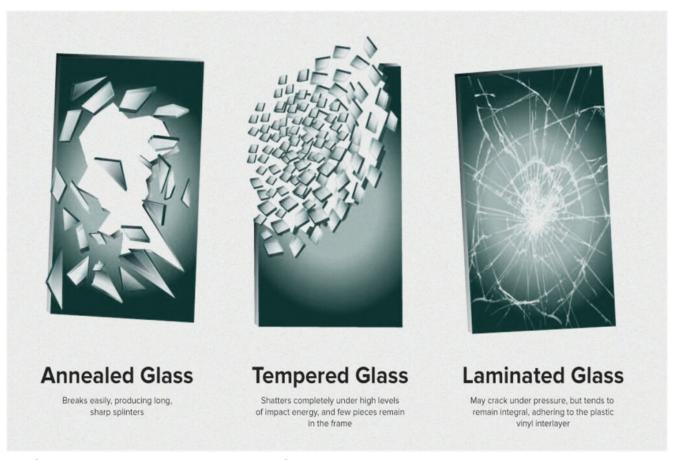
Design Versatility

• White laminated glass can be customized in terms of opacity level, color, and patterns to suit specific aesthetic requirements. It offers designers flexibility in creating unique and visually appealing spaces while maintaining the benefits of laminated glass.

Durability

• Laminated glass, including opaque variants, is durable and resistant to impact, scratches, and other forms of damage. This durability ensures a longer service life and reduces the need for frequent replacements, contributing to costeffectiveness in the long run.

Overall, milky white laminated glass combines privacy, security, sound insulation, UV protection, and design versatility, making it a versatile and practical choice for various architectural and interior design applications.



Laminated glass sheet vs different glass breaks

3. Quality Standard

<u>Dragon Glass</u> have being awarded so many certificates for 8.76mm frosted laminated glass, see below:

- Subject to BS standard
- Subject to SGCC-ANSI Z97.1 standard
- Subject to ASTM C1172 standard
- Subject to CE- EN12543 standard
- Subject to the ISO 9001 standard
- Subject to the AS/NZS 2208:1996 standard



Certificate NO.: LBTC2104201395

Declaration of Conformity

The following product has been assessed by us with the listing standards and found in conformity with the EC Council Regulation of (EU) No 305/2011. It is possible to use C€ marking to demonstrate the compliance with this CPR Regulation.

: LBTR2104201395

Sheruthen Dragon Glass Co., Ltd
 C106, Yunhai enterprise headquarters base,No. 42 Calyun Road, Jikiang community, Longcheng street, Longgang District, Sheruthen City, China.

Manufacturer : Shenzhen Dragon Glass Co., Ltd

Address : Yurhai enterprise headquarters base, No. 42 Calyun Road, Jixlang
community, Longcheng street, Longgang District, Shenzhen City, China
Product Name : Tempered glass

: N/A

Trade Name : NIA

Model No. : 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 15mm, 15mm, 15mm.

EC Directives : CPR Regulation (EU) No.308/2011

Test Standards : EN 12150-1:2015

EN 12150-2:2004

The referred test reportisy show that the product complies with the assential requirements in the above issed standards. The applicant is authorized to use this certificate in connection with the EC declaration of CPR conformly according to the Regulation.

The CE marking as shown below can be affixed on the equipment after the preparation of the necessary inchinaci documentation as well as the conformity declaration by the manufacturer. Whereas the Manufacturer is responsible for the certification of the product(s) and not exempted from performing all the necessary activities before placing the product(s) on the market.

The Manufacturer is also responsible for the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Regulation(s).





This statement is based on a single evaluation of the sample(a) of above mentioned product. It does not imply an assessment of the whole production.

LABTEST TECHNOLOGY LABORATORY LTD

Machias Pulyo Bo Past, Junio Road, Projectus, CHOAL. http://www.claidest.com

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Certificate

Certificate NO.: LBTC210420140S

Declaration of Conformity

The following product has been assessed by us with the listing standards and found in conformity with the EC Council Regulation of (EU) № 305/2011. It is possible to use C € marking to demonstrate the compliance with this CPR Regulation.

Report No. : LBTR210420140S

Shenzhen Dragon Glass Co., Ltd
 C108, Yunhai enterprise headquarters base.No. 42 Calyun Road, Jixlang community, Longcheng street, Longgang District, Shenzhen City, China

rere : Shenzhen Dragon Glase Co., Ltd ... Yuzhai enterprise headquiefers base,No. 42 Calyun Road, Jixlang ... community, Longcheng street, Longgeng District, Shenzhen City, China

; Laminated (Safety) Glass

Trade Name : N/A

3mm+0.76PVB+3mm, 4mm+0.76PVB+4mm, 6mm+1.52PVB+6mm, 5el No. : 8mm+1.52PVB+8mm, 10mm+1.52PVB+10mm, 12mm+1.52PVB+12mm, 15mm+1.90PVB+15mm, 19mm+3.04PVB+19mm.

EC Directives : CPR Regulation (EU) No 305/2011

Test Standards : EN ISO 12543-2-2011 EN ISO 12543-3-2011

The referred test reports) show that the product complies with the essential requirements in the above stated standards. The applicant is authorized to use this certificate in connection with the EC declaration of CPR confirmity according to the Regulation. The CE marking as shown below can be affixed on the equipment after the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer. Whereas the Manufacturer is responsible for the certification of the product(s) and not axempted from performing all the necessary activities before placing the product(s) on the market. The Manufacturer is also responsible for the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Regulation(s).





This statement is based on a single evaluation of the sample(s) of above mentioned pro-not irruly an assessment of the whole production.

LIGHTEST TECHNOLOGY LABORATIONY LTD.

Stanus Pulyo Bio Park, Jinsiu Road, Prigotes

SEC safety glazing certification council Administrative Office, AMS, Inc. 205 West Main Street, PO Box 730 Sackets Harbor, NY 13655 Phone: (315)646-2234 E-mail: staff@amscert.com

ACKNOWLEDGEMENT OF CERTIFICATION

THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

Shenzhen Dragon Glass Co., Limited Shenzhen, Guangdong

IS A CURRENT LICENSEE AND HAS MET ALL QUIDELINES AND REQUIREMENTS FOR THE SOCCIS CERTIFICATI PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCTS JAS SOCCIO CERTIFIED REPRESENTATION SAMPLES OF THE SELOW PRODUCTS HAVE BEEN FOUND TO SE IN COMPLANCE WITH AN 2011-2009 OR 2015 AS INDICATED, CPSC 16 CFR 1201 STANDARDS, OR BOTH STANDARDS, KNOWN AS COMPOSITE CERTIFICATION (COMP), OR BOTH STANDARDS WITH CANCESSEE 12.1 KNOWN AS COMPLOATE.

SGCC#IN		мм	Attributes	INT	Type Code	Max Size	ANSI Class	Test Std	ANSI Z97 Year
4303	5/32	4			TTG	U	A	COMP+CAN	2009
4304	3/16	5			TTG	U	A	COMP+CAN	2009
4305	1/4	.0			TTG	U	A	COMP+CAN	2009
4306	5/16				TTG	U	A	COMP+CAN	2009
4307	3/8	10			TTG	U	A	COMP+CAN	2009
4308	1/2	12			TTG	U	A	COMP+CAN	2009
4309		15	(3)		TTG	U	A	COMP+CAN	2009
4310	3/4	19			TTG	U	A	COMP+CAN	2009
4312	0.0	8-16+	(b)(A)	(.030)	LTG.	U	A	COMP+CAN	2009
4575	0.0	10-16+	(ip)(A)	(.060)	LTG	U	A	COMP+CAN	2009
5052	1/4	0			TBG	U	A	COMP+CAN	2009
5053	5/16	8			TBG	U	A	COMP+CAN	2009
5054	3/8	10			TBG	U	A.	COMP+CAN	2009
5055	1/2	12			TBG	U	A	COMP+CAN	2009

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

Thursday, July 14, 2019 DATE OF ISSUE

CERTIFICATION PERIOD

ADMINISTRATIVE MANAGER

STANDARDSMARK LICENCE

SAI Global hereby grants

ShenZhen Dragon Glass Co., Ltd.

Yunhai enterprise headquarters base, No. 42 Calyun Road, Jixlang community, Longcheng street, Longgang District, Shenzhen, Guangdong, China, 518172

StandardsMark Licence

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

Model standbuston of the goods on which the STA

Description		Glass Thickress Range (mm)	Colours	7	Furnace / Laminuming Line	Maximum Loseding / Laminated Size	Piles	r Organic Film	interlayer / Organic Film Thickness	Date Endorse
	Hear Strengthened Laminsted	10 -34	Clear		Line 1	3440mm x 8000mm	Kinghourd. Traulal		0.76mm 1.62mm	8.Dec 2023
Flat Plant	Larrenated	8 - 16	Clear	A	Lamerante Line 7	2440mm s 6000mm	Hinghoard, Treatur	Char FVB	0.38mm - 1.62mm	8 Dec. 2023
Flati Plant	Toughened	5 - 19	Chest	Α	Furnise 1	2440mm x 6000mm				8 Dec 2023
	Toughened Languaged	10 - 30	Clear		Larrenate Line 1	2440 ryn o 6000 ren	Kinghoard. Treafur		1.14mm- 2.25mm	8 Dec. 2023

End of Record

* For details of manufacture, refer to the Standard

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4. Applications



Opaque VSG glass office partitions

Nowadays, so many offices consider using glass as a replacement for concrete, wood, and panels. Because the glass has a wonderful fire proof performance, is easy to clean, and also has a very good view with light transmission.

Using translucent laminated glass will be better than normal clear glass because you can save privacy from both sides, and when the light from outside passes through, it is not

dazzling.



Opaque laminated glass windows

Why windows also use frosted laminated glass? Someone will ask this question, it's will oftenly use for some privacy location, such as shower room windows, such as lab, such as school, or special ranges uses.



Frosted white laminated glass Doors

The doors especially french door is popular to use laminated glass, such grey laminated glass, bronze laminated glass, clear laminated glass 44.2, and also frosted laminated glass, which can give very good decorative effects, also can give a privacy environment for your house.

5. Specifications

Item name: 8.76mm opaque laminated glass, 44.2 frosted VSG

glass, 4+4mm white PVB laminated glass

Glass color: Frosted white, milky white, pure white,

Translucent

Glass shape: flat/curved;

Glass size: Stock size for products like 1830x2440mm, 2140x3300mm, 2140x3660mm, 2250x3300mm, 2440x3660mm, 2440x3300mm, customized size, max: 2500mmx3800mm;

Quality: IGCC/ASTM/CCC/IS09001, etc;

Production time: 15 days, if have holes or cutouts will reach

15-20 days

Packing: Export level strong plywood crates;

Payment term: 100% before delivery, others can negotiate

6. Production Details

Cutting line

<u>Dragon Glass group</u> have over 7 cutting line, including Bottero, Lisec auto cutting line, CNC cutting line, and so on, according to the customer's CAD drawing, our professional team will try our best to help you with your glass sizes and shapes.



Edging line

Support over 12 types of edge polishing, including Flat polished, beveling, round edge, no matter building glass, but also furniture glass edges, or if you have other glass requirements, kindly contact our team.



Laminating line

The professional workers will combine two pieces 4mm glass together with the interlayers like PVB or EVA, and make a prelaminate before high temperature and pressure.



Autoclave

All the laminated glass will be transferred to the Autoclave, after hours high temperature and pressure, which is cooling, will go to the inspection room.



7. Packing and Delivery

Package information of 44.2 milky white VSG glass

 Dragon Glass use plywood crates only Because which made by compressing and bonding processed wood, and can be exported without any complex procedures, making it very convenient.

- 2. The size of the safety 8.76mm white laminated glass is often not uniform. For safety transportation, the interior of the plywood box is filled with pads and blocks to provide corks between the tempered esg glass panel. Then, it is wrapped with plywood strips because the more exposed it is, the safer it is. Diagonal bracing of the plywood strips is essential to enhance the strength of the box.
- 3. Clients asked why we don't use fully sealed packaging. That's due to the more exposed it is, the safer it is. During transportation by forklift or crane, it is immediately clear that there is fragile thick toughened glass inside, prompting extra attention to safety.

Strict inspection before delivery



Laminated glass inspection by flash light in Dragon Glass



Packaging and delivery for opaque laminated glass 4+4mm

Dragon Glass also work for other types of laminated glass, such acoustic PVB laminated glass, ultra clear laminated glass, color laminated glass and so on, this is for different clients their different projects, if you have any inquiries or questions, please do not hesitate to contact us anytime.