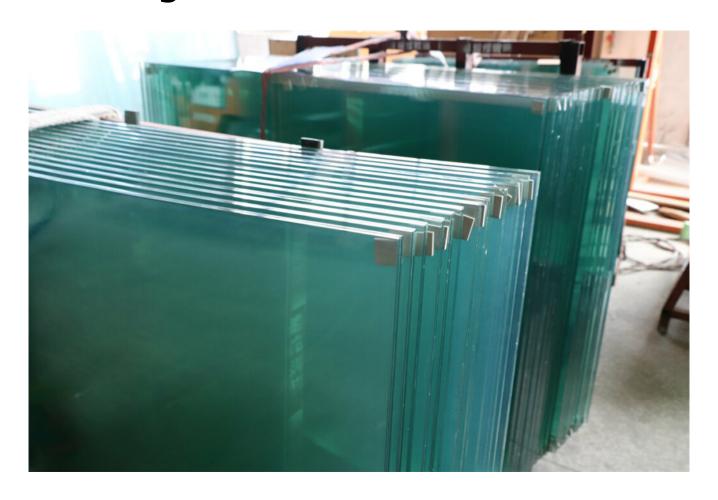
## Best Selling — 442 VSG 8.76mm Toughened Laminated Glass for Railing



1-What is 442 VSG 8.76mm toughened laminated glass?



442 VSG, 44.2 VSG glass, also called 8.76mm <u>toughened</u> <u>laminated glass</u>, which often uses two pieces of 4mm toughened glass panel after a lamination.

This is a hot-selling item in residential and commercial railing projects, they are hot selling in the Scandinavian areas, compared to 17.52mm VSG, which is very cost-effective, so many customers will choose this item.

Besides, we also provide <u>sheet laminated glass</u> but non-toughened versions, so you can adjust locally for different customized sizes. Available size from 1830x2440mm until 2440x3660mm

# 2- Why use 8.76mm ESG VSG for glass railing?

## Safety performance

When 8.76mm laminated glass railing shatters, the fragments remain adhered to the film and do not fall off. The entire piece of glass retains its shape until it is replaced, thereby reducing the risk of injury.

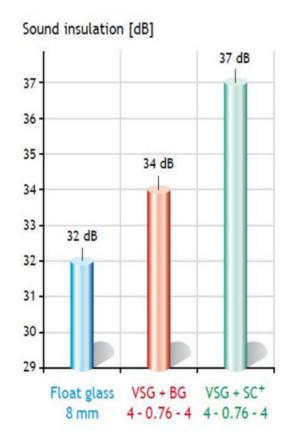
Here is a break testing showing monolithic glass and laminated glass

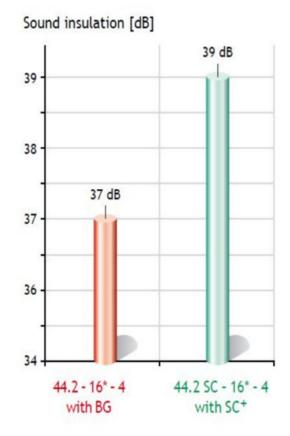
### Nice View

Through the 442 VSG toughened laminated glass railing, you can clearly see the outside scenery, the transmission often can reach around 87%.

## Sound insulation performance

The 8.76mm tempered laminated glass can reduce noise, as the PVB film can block sound to a certain extent. Especially, they use for Guillotine Glass, the noise reduction effects will be better.





Different glass sound insulation performance

## High strength performance

Compared to <u>monolithic toughened glass railings</u>, the 8.76mm toughened laminated glass is much harder. Because there have two pieces of 4mm glass with PVB film, the anti-impact performance can be significantly improved.

### Other Colors Available

The PVB color can be customized. We support <a href="RAL/Panton color">RAL/Panton color</a>, or vanceva glass number to meet your requirements.



Our stock PVB color VSG for reference

## 3- Specification of 442 VSG glass

Product name	442 VSG glass, 8.76mm toughened laminated glass, 4+4mm laminated glass							
Thickness	4mm toughened glass + 0.76 PVB + 4mm toughened glass							
Size range	Normal clear, ultra clear, or other PVB colors, like red, yellow, blue, pink, green							
Color choice Normal clear, ultra clear, or other PVB color choice like red, yellow, blue, pink, green								
Shape choice	Shaped, curved, flat							

Customized	Polished edge, drill holes, cutout, cut notches, safety corner, etc.							
Delivery time	around 15 days							
Trade term	EXW, FOB, CIF, DDP, DDU							

# 4-Quality control for 8.76mm toughened VSG glass

Nowadays, toughened laminated glass is widely used in construction, and controlling the quality of glass railings is very important. The toughened laminated glass produced by <a href="https://doi.org/10.1001/journal.com/">Dragon Glass</a> meets the following standards:

- Subject to BS standard
- Subject to SGCC-ANSI Z97.1 standard
- Subject to ASTM C1172 standard
- Subject to CE- EN12543, EN14449 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

Shenzhen Dragen Glass Co., Ltd
 C106, Yunhai enterprise headquarters base.No. 42 Calyun Road, Jinlang community, Longcheng street, Longgang District, Shenzhen City, China

ner : Shenzhen Dragon Glass Co., Ltd ; Yushai eriterprise headquarters base No. 42 Calyun Road, Jikiang community, Longcheng street, Longgang District, Shenzhen City, China

: N/A

: 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 15mm, 19mm.

Model No. : 4mm, 5mm, 6mm, 1mm, 12mm, 15mm, 15mm, 15mm.

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

Test Standards : EN 12150-1:2015

EN 12150-1:2015

EN 12150-1:2015

EN 12150-1:2016

EN 12150-1:2016

EN 12150-1:2016

EN 12150-1:2016

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

The CE matring as shown before can be efficient on the equipment after the preparation of the necessary stochnical 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 maxiful or the product(s) are in compliance with the essential requirements of the above mentioned Regulation(s).





증명서

Certificat

認証書

Сертификат

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) No 305/2011. It is possible to use **〔**€ marking to demonstrate the compliance with this CPR Regulation.

Report No. : LBTR210420140S

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

rer : Shenzhen Dragon Glass Co., Lift
: Yunha enterprise headquarters base No. 42 Calyun Road, Jivian
: Yunha enterprise headquarters base No. 42 Calyun Road, Jiviang
community, Longcheng street, Longgang District, Shenzhen City, China
time : Laminated (Safety) Glass

ii NiA

Septial 2881 (1988)

de Name : NA 3mm+0.76PVB+3mm, 4mm+0.76PVB+4mm, 6mm+1.52PVB+6mm, det No. : 8mm+1.52PVB+8mm, 10mm+1.52PVB+10mm, 12mm+1.52PVB+12mm, 15mm+1.52PVB+15mm, 10mm+3.04PVB+19mm.

Directives : CPR Regulation (EU) No 305/2011

EC Directives : CPR Regula

EC Directives : GPR Regulation (EU) to 205/2011

Test Standards : EN ISO 12543-3-2011

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

The CIE making as shown below can be affiliated on the equipment after the preparation of the necessary technical documentation as well as the conformity declaration by the manufacture.

Whereas the Manufacture 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).





not imply an assessment of the whole production.

LATEST TECHNICION LABORATORY LTD.

Milenus Pulyo Bio Park, Jineio Road, Progriso, Sherchen, CHINA. http://www.ciat.



Administrative Office, AMS, Inc. 205 West Main Street, PO Box 73 Sackets Harbor, NY 13665 Phone: (315)646-2234 E-mail: staff@amsced.

#### 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 CERTIFICA PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCTION AS SOCCIO CERTIFICA REPRESENTATION SAMPLES OF THE SELOW PRODUCTS HAVE BEEN FOUND TO BE IN COMPAJANCE WITH 2011-2004 OR 2015 AS INDICATED, CPSC 16 CPR 1201 STANDARDS, ON BOTH STANDARDS, INDICAN AS COMPOSITE CERTIFICATION (COMP), OR BOTH STANDARDS WITH CANCEDS BY 11 NOWAN AS COMPA-CAN FORT STANDARDS.

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

Thursday, July 14, 2019 DATE OF ISSUE

CERTIFICATION PERIOD

#### SCHEDULE TO STANDARDSMARK LICENCE

### SAI Global hereby grants

#### ShenZhen Dragon Glass Co., Ltd.

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

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

Description		Glass Thickress Range (mm)	Colours		Landnating Line	Maximum Loading / Laminated Size	Interlayer / Organic Pitos Manufacture	Interlayer I Organic Film Type	Interlayer / Organic Film Thickness	Deto Endors of
	Hear Strengthered Laminated	10 -34	Clear		Line 1	3440mm x 8000mm			0.76mm 1.52mm	8 Dec 2023
Flat Plant	Lambaled	8 - 16	Clear	A	Lamerante Line 7	2440mm s 6000mm	Hingboard, Tresitor	Clear PVB		8 (No
Flati Plant	Toughened	5 - 19	Chest	Α	Furnise 1	2440mm x 6000mm				8 Dec 2923
Flat Plan	Toughened Lanewird	10 - 30	Clear		Larrenate Line 1	2440 ryn o 6000 ren	Kingboard. Treafor	Clear FVB	1.14mm- 2.25mm	8 Dec. 2023

End of Record



All processing such as polished edges, rounded corners, drilling, notches, and grooves must be completed before tempering and laminating.

## 5- Applications

Besides railing, they still can be used for balustrades, terraces, balconies, swimming pool fences, guillotine glass and so on.



Different glass railing projects

# 6- Processing details for 442 VSG glass

## **Cutting line**

<u>Dragon Glass group</u> has over 7 cutting lines, 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**

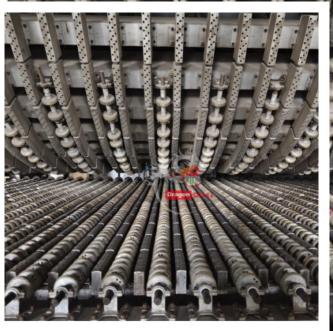
Support over 12 types of edge polishing, including Flat polished, beveling, and round edge, no matter whether building glass, or furniture glass edges or if you have other glass requirements, kindly contact our team.



## Bending and tempered line

Besides flat toughened glass, we also can curve the glass, to ensure safety and durability, you will get very nice quality <u>curved toughened glass</u>.





## **Laminating line**

The professional workers will combine two pieces of 4mm toughened glass (5/32 toughened glass) with interlayers 0.76 PVB, and make a pre-laminate before high temperature and pressure.



## **Autoclave**

All the laminated glass will be moved to the Autoclave from Dragon Glass, and after hours of high temperature and pressure, which is cooling, will be moved to the inspection room for our QA & QC checking.



## 7. Packing and Delivery

Strict inspection for laminated glass before delivery



Laminated glass inspection by flashlight in Dragon Glass



Safety packing

Recently, we are sending such kind of glass, 442 VSG per 3 weeks, if you are interested, you can let us anytime, and we can put your order in our bulk order production, it will save more budget from your side.

Please don't miss this opportunity to place your order, we can deliver it very soon to your hand. <u>Contact us now!</u>