

Declaration of Conformity

REF: 110
BS EN 12150
Thermally Toughened Safety Glass

This is to certify that:
CS Glazing (North Wales) Ltd
Chester Road/Jubilee Road
Buckley
Clwyd CH7 3AL

Have conformed to BS EN 12150
submitting toughened glass to BSI
for testing and successfully meeting all requirements.

Please refer to BSI test reports

7680975

Instigating and implementing a system
of factory production control.

Producing a technical file containing the test
reports and performance indication papers.

Signed:

Director

Date:

1.5.2013

TECHNICAL FILE

- A. EVALUATION OF CONFORMITY**
- B. FACTORY PRODUCTION CONTROL**
- C. TEST REPORTS**
- D. SUPPLIERS C.E. DECLARATION OF CONFORMITY**
- E. C. E. CONFORMITY IDENTIFICATION**

SECTION A
EVALUATION OF CONFORMITY
TO BS EN 12150-2

**EVALUATION OF CONFORMITY
TO BS EN 12150-2**

Table ZA.3.2 – Assignment of evaluation of conformity tasks for thermally toughened soda lime silicate safety glass under system 3

Task		Content of the task	Evaluation of conformity clauses to apply
Task for the Manufacturer	Factory production control (F.P.C.)	Parameters related to all relevant characteristics of Table ZA.	5.3
	Initial type testing	All other relevant characteristics of Table ZA.1 other than those shown below	5.2
Tasks for the notified body	Initial type testing	<p>External fire performance.</p> <p>Burglar resistance.</p> <p>Pendulum body impact resistance.</p> <p>Direct airborne sound insulation.</p> <p>Thermal properties.</p> <p>Radiation properties:</p> <p>- light transmittance and reflection.</p> <p>- solar energy characteristics.</p>	5.2

SECTION B

FACTORY PRODUCTION CONTROL

C S GLAZIERS (NORTH WALES) LTD

Issue No.

Date:

Authorised by:

**FACTORY PRODUCTION CONTROL
FOR TOUGHENED GLASS TO BS EN 12150 CLASS 1
TO BE READ IN CONJUNCTION WITH
EXISTING MANUAL**

CS GLAZIERS (NORTH WALES) LTD

REVISION 1

DATE: 05/09/2005

AUTHORISED BY:



WORKSTATION PROCEDURES
GLASS

- WS 1 - GLASS LOADING TO WASHING MACHINE
- WS 2 - GLASS EDGE POLISHING – MANUAL
- WS 3 - GLASS EDGE POLISHING – AUTOMATIC
- WS 4 - GLASS DRILLING
- WS 5 - INSPECTION OF GLASS INTO TOUGHENING PLANT

C S GLAZIERS (NORTH WALES) LTD

Issue No. 2

Date: 13.8.2007

Authorised by:



TEST PROCEDURES

BS EN 12150

- PROCEDURE NO. 1 - FRAGMENTATION TEST
PROCEDURE BS 6206 / BS EN12150**

- PROCEDURE NO. 2 - FRAGMENTATION TEST
RECALL PROCEDURE**

- PROCEDURE NO. 3 - MECHANICAL STRESS TEST PROCEDURE
TO BS EN 12150**

- PROCEDURE NO. 4 - LOCAL BOW TEST PROCEDURE**

- PROCEDURE NO. 5 - OVERALL BOW TEST PROCEDURE**

C S GLAZIERS (NW) LTD

ISSUE NO. 2

DATE: 13.8.2007 AUTHORIZED BY:



REGISTER OF TEST FORMS

All inspection and test records for the company are catalogued on the following pages and are as follows

- QA14.2.3 - Fragmentation Test
- TF2 - Mechanical Stress Test
- TF2A - Loading for Mechanical Stress Test
- TF3 - Local Bow test to BS EN 12150
- TF4 - Overall Bow Test BS EN 12150

SECTION C

TEST REPORTS

BSI Client Ref:

9601004

Certificate No:

KM 502606

Report Number:

7680975

Prepared by:

P Doyle

Date: **19/6/12**

**Continuing Inspection
Visit.**

**CS Glaziers
Chester Road
Buckley
North Wales
CH7 3AE**

Report

31-Aug-2010 12:06

Patrick.Doyle@bsigroup.com -> info@csglaziers.co.uk

FAO

Neil

Glass test report attached.

Regards

Pat.

Patrick Doyle
Client manager
Mgt Systems Operations



BSI, Beech House, Breckland, Linford Wood, Milton Keynes, MK14 6ES, UK
T: +44 (0)1908 228160
M: +44 (0)7770 685067
E: patrick.doyle@bsigroup.com
W: www.bsigroup.co.uk/improve

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The British Standards Institution is incorporated by Royal Charter.

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Attachments

CSGlazierTestAug10.pdf

22,253 Bytes

8/31/2010 12:04:00

BSI Client Ref:

9601004

Certificate No:

KM 502606

Report Number:

7445188

Prepared by:

P Doyle

Date: **31/8/10**

**Continuing Inspection
Visit.**

**CS Glaziers
Chester Road
Buckley
North Wales
CH7 3AE**

INTRODUCTION

This report relates to the Kitemark **Continuing** inspection of **CS Glaziers N wales Ltd.**, on **31/8/2010**

The samples tested were considered to be representative of the clients production

If you wish to distribute copies of this report external to the organisation, then all pages must be included.

SCOPE

Thermally toughened safety glass

ASSESSMENT DETAILS

The inspection was conducted by **P Doyle**

The principal member of staff involved on behalf of the company was N Clarkson.

COMPANY'S DOCUMENTATION

Kitemark Quality Plan / **Quality Manual**

REFERENCE STANDARDS

The standards used as the basis for this inspection were:

Kitemark Scheme Document PCP638-2 (issue 3).

CONCLUSIONS

Continued Certification is recommended,

OBSERVATIONS

VISIT DATA

Glass production figures (per week)

TOTAL = 6,00 pieces/wk (2 shifts). Variable

NEXT VISITS for This test requirement

29 November 2010 P F Doyle

15 June 2011 P F Doyle

5 December 2011 P F Doyle

Test method

Glass samples were selected for testing to the fragmentation requirements detailed in clause 8 of BS EN 12150-1:2000.

The particle count was made in the region of coarsest fracture with a minimum particle count of 40 particles for all types.

The particle count and measuring of the dimension of the largest particle was made between 4 to 5 mins after fracture. The longest particle shall not exceed 100 mm.

Test Samples

Samples are selected to ensure both symmetric and asymmetric glass types are covered at each audit test visit with a minimum of three patterned glasses.

Test results

Item A	Type	Furnace Temp	Time (secs)	Pressure
	12mm Clear	Top=685 deg.C Bottom=680 deg.C	495	357
Fragmentation;				
1:- 101 2:-112 3:-111 4:-121 5:-119 6:-121 Longest spline :- N/A				PASS
Item B	Type	Furnace Temp	Time (secs)	Pressure
	4mm Clear	Top=695 deg.C Bottom=695 deg.C	160	90
Fragmentation;				
1:-91 2:-92 3:-95 4:-91 5:-92 6:- 92 Longest spline :- N/A				PASS
Item C	Type	Furnace Temp	Time (secs)	Pressure
	6mm Clear	Top 690 Deg c Bottom 690 Deg c	215	50
Fragmentation;				
1:-92 2:-94 3:-95 4:- 98 5:-98 6:- 97 Longest spline :- N/A				PASS
Item D	Type	Furnace Temp	Time (secs)	Pressure
	10 mm clear	Top 680 Deg c Bottom 680 Deg c	380	40
Fragmentation;				
1:-121 2:-120 3:-121 4:-121 5:-120 -Longest spline :- N/A				PASS
Item E	Type	Furnace Temp	Time (secs)	Pressure
	6 mm Grey	Top 690 Deg c Bottom 700 Deg c	209	50
Fragmentation;				
1:-98 2:-98 3:-97 4:-101 5:-101 6:-101 Longest spline :- N/A				PASS
Item F	Type	Furnace Temp	Time (secs)	Pressure
	4 mm Bronze	Top 680 Deg c Bottom 685 Deg c	156	90
Fragmentation;				
1:-89 2:-93 3:-94 4:-94 5:-95 6:-96 Longest spline :- N/A				PASS

Review of licensees test data

In house test records were checked from June - Aug. The test results examined were consistent with the results obtained from tests observed during the assessment.

SECTION D

SUPPLIERS C.E. MARKING

A. PILKINGTON

B. GUARDIAN

C. ST. GOBAIN

PILKINGTON

EC Declaration of Conformity

CE DOC 001



The undersigned, representing the following:

Manufacturer

**Pilkington plc
Head Office
Prescot Road
St Helens
WA10 3TT
United Kingdom**

Manufacturing plants: See Product Matrix Report No. P 2012 AT15 (Technical File)

herewith declare that the products Pilkington Optifloat™, Arctic Blue™, EverGreen™ and Optiwhite™ are in conformity with the provisions of the following EC Directive(s) when installed in accordance with the installation instructions contained in the product documentation:

89/106/EEC Construction Products Directive

and that the product standard referenced below has been applied:

EN 572-9: Glass in building – Basic soda lime silicate glass products – Part 9: Evaluation of conformity/Product standard

and that the supporting standards referenced below have been applied:

EN 410: Glass in building – Determination of luminous and solar characteristics of glazing

EN 572-1: Glass in building – Basic soda lime silicate glass products – Part 1: Definitions and general physical and mechanical properties

EN 572-2: Glass in building – Basic soda lime silicate glass products – Part 2: Float glass

EN 673: Glass in building – Determination of thermal transmittance (U value) – Calculation method

EN 12758: Glass in building – Glazing and airborne sound insulation – Product descriptions and determination of properties

EN 13501-1: Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests

Provisions to which the product conforms:

Directive	Product standard	Report
Construction Products Directive	EN 572-9	TC-RAP-05-13225

EC Declaration of Conformity

The undersigned, representing

Guardian Europe S.à r.l.

herewith declares that the basic soda lime silicate glass intended to be used in buildings and construction works

Float 0300 to Float 1000

produced by Guardian Industries U.K.Ltd., is in conformity with the provisions of the following EC Directives when installed in accordance with the installation instructions contained in the product documentation

89/106/EEC Construction Product Directive – system 3
2002/95/EC RoHS Directive

This product applies to the standard : EN 572-9:2004

Initial Type testing by:

CSTB
Identification number: 079
F – 38400 Saint Martin d'Hères
France

Name:  René Fiorese



Guardian Industries UK Glass Division

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Technical Centre

Welcome to the Guardian Technical Support Centre, there are many issues and questions surrounding the topic of glass and glazing. Specifically created for Guardian Plus members, the Technical Centre provides instant answers to the most common questions you are likely to receive during your day to day business, as well as tackling the more advanced enquiries you may receive.

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- [Sustainability \(2\)](#)
- [Green Issues \(3\)](#)
- [WER's \(3\)](#)
- [ISO \(6\)](#)
- [CE Marking \(10\)](#)
- [British Standards \(17\)](#)
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<p>Laminated Glass 7.5 (33.4) P4A - EN 356 Test Certificate Test on Safety Glass Compliance with the requirements of EN 356</p>	<p>Updated 6 months ago</p>	<p> Download</p>
<p>Laminated Glass 8.8 (44.2) P2A - EN 356 Test Certificate Test on Safety Glass Compliance with the requirements of EN 356</p>	<p>Updated Last month</p>	<p> Download</p>
<p>Laminated Glass 9.5 (44.4) P4A - EN 356 Test Certificate Test on Safety Glass Compliance with the requirements of EN 356</p>	<p>Updated Last month</p>	<p> Download</p>
<p>Laminated Glass 9.5 (44.4) P4A - EN 356 Test Certificate Test on Safety Glass Compliance with the requirements of EN 356</p>	<p>Updated Last month</p>	<p> Download</p>
<p>Laminated Glass 10.3 (44.6) P5A - EN 356 Test Certificate Test on Safety Glass Compliance with the requirements of EN 356</p>	<p>Updated Last month</p>	<p> Download</p>
<p>The Light and solar Performance of Glass In addition to admitting light and providing a view out, windows also allow the heat from the sun to enter a building. During the winter this can be considered a benefit - offsetting heating costs by providing 'free' heat on sunny days during the heating season.</p>	<p>Updated Last month</p>	<p> Download</p>
<p>Acoustic Laminated Glass 8.8 (44.2) P2A - EN 356 Certificate Soloutla Compliance with the requirements of the EN356 Standard for flat safety glass (resistance against manual attack)</p>	<p>Updated Last month</p>	<p> Download</p>
<p>Resistance to Manual Attack The performance of security glazing is now defined in EN 356: Glass in building - Security glazing-Testing and classification of resistance against manual attack.</p>	<p>Updated Last month</p>	<p> Download</p>
<p>Glossary C Glass and Glazing Glossary of terms</p>	<p>Updated Last month</p>	<p> Download</p>
<p>Declaration of Conformity of Float Glass to EN 572 Certificate of Declaration of Conformity of Float Glass to EN 572</p>	<p>Updated Last month</p>	<p> Download</p>

Technical Centre Information

How does it work?

Characteristic	Performance declaration	Report
Resistance to fire	NPD	N/A
Reaction to fire	(See Note, below)	CWFT (EN 572-9)
External fire performance	NPD	N/A
Bullet resistance	NPD	N/A
Explosion resistance	NPD	N/A
Burglar resistance	NPD	N/A
Pendulum body impact resistance	NPD	N/A
Resistance against sudden temperature changes and temperature differentials	(See Note, below)	N/A
Wind, snow, permanent and imposed load resistance	(See Note, below)	N/A
Direct airborne sound insulation	(See Note, below)	EN 12758
Thermal properties	(See Note, below)	TFS 0153
Radiation properties:		
Light transmittance and reflectances	(See Note, below)	TFS0007, 0012, 0016, 0020, 0050, 0092, 0099, 0104, 0115, 0044, 0047, 0051, 0054, 0129, 0120, 0122, 0070, 0101, 0113, 0138, 0145
Solar transmittance and reflectances	(See Note, below)	TFS0007, 0012, 0016, 0020, 0050, 0092, 0099, 0104, 0115, 0044, 0047, 0051, 0054, 0129, 0120, 0122, 0070, 0101, 0113, 0138, 0145

Note: Declared values for each characteristic can be found at www.pilkington.com/CE

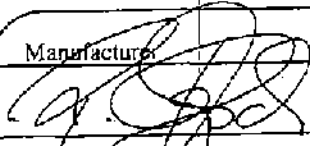

Description of the product: Pilkington **Optifloat™**, **Arctic Blue™**, **EverGreen™** and **Optiwhite™**

Basic soda lime silicate glass, intended to be used in buildings and construction works. [Product description for Float Glass conforming with hEN 572-9' P 2012 AT07 – Technical File.]

Name and address of notified laboratories involved:

Spectroscopy Laboratory, Hall Lane, Lathom, L40 5UF, United Kingdom, notified under registration number 1680

TNO Science & Industry, PO Box 6235, 5600 HE Eindhoven, The Netherlands, notified under registration number 1154

	
Name: Reinhard Banasch Position: Commercial Director, Building Products Europe Date: 9 th June 2005	Name: Paul McKeon Position: Operations & Technology Director, Building Products Worldwide Date: 9 th June 2005



Dear Sir or Madam ,

CERTIFICATE OF CONFORMITY

This confirms that the Float glass manufactured by Saint-Gobain Glass UK Ltd is in line with the requirements of BS EN 572 and that coated products we supply are in line with EN 1096.

We are also internally regulated to ensure that our control measures meet the requirements for CE marking for Float, Coated and Laminated glasses.

Yours faithfully,

Ian H. Anderson
Quality Systems Manager
Saint-Gobain Glass UK Ltd

06 December 2012

SECTION E

C. E. CONFORMITY IDENTIFICATION

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MDD- Medical Devices Cosmetics
 IVDD- In Vitro Diagnostic Medical Devices
 PPE- Personal Protective Equipment
 LVD- Low Voltage Electrical Equipment
 Machinery, Toys, R&TTE, EMC, etc.

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- Other Products
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- EU Authorized Representative

Questions & Answers

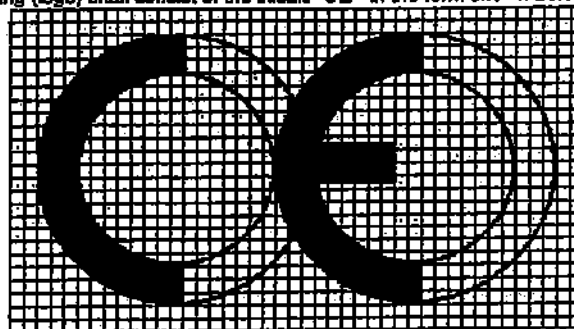


Wellkang Ltd (www.CE-marking.eu)
 29 Harley St., London W1G 9QR, UK

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1. The CE conformity marking (logo) shall consist of the initials "CE" in the form shown below;



2. If the CE marking is reduced or enlarged the proportions given in the above graduated drawing must be respected.
 - The various components of the CE marking must have substantially the same vertical dimension, which may not be less than 5 mm;
3. The affixing of markings on the products which are likely to deceive third parties as to the meaning and form of the CE marking shall be prohibited. Any other marking may be affixed to the products or the data plate provided that the visibility and legibility of the CE marking is not thereby reduced;

Attention:

It should be noted that the C and E are not formed by perfect semi-circles, i.e. the top and bottom arms extend one square beyond the semi-circles, and the middle arm of the E stops one square short.



Left
are correct and real
CE Conformity Marking

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Below are mis-use or fake CE Conformity Marking

