

## Kitemark™ Certificate

This is to certify that:

Ravensby Glass Company Limited  
Fowler Road  
West Pitkerro Industrial Estate  
Dundee  
DD5 3RU  
United Kingdom

Holds Certificate Number:

KM 54502

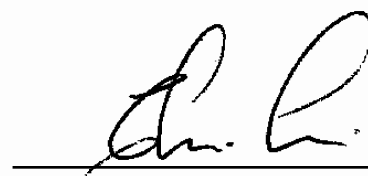
In respect of:

**Safety glass**  
**Safety glass for use in buildings - BS EN 12150 - 1, BS EN 14179 - 1 and BS EN 14449**

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI:



Chris Lewis - Certification Director, Product Certification

First Issued: 2000-08-04

Latest Issue: 2019-09-09

Effective Date: 2019-09-09

Expiry Date: 2022-09-08



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...making excellence a habit.™

# Kitemark™ Certificate

No. KM 54502

## BS EN 12150-1:2015 – Thermally toughened soda lime silicate safety glass

### Clear/tinted toughened glass meeting Impact Class 1 (BS EN 12600)

Thickness (mm)	Tolerance (mm)
4.0	±0.2
5.0	±0.2
6.0	±0.2
8.0	±0.3
10.0	±0.3
12.0	±0.3
15.0	±0.5
19.0	±1.0

### Coated toughened glass meeting Impact Class 1 (BS EN 12600)

Coating	Thickness (mm)	Tolerance (mm)
Planitherm 1.2	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Climaguard range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3

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BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
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# Kitemark™ Certificate

No. KM 54502

## Coated toughened glass meeting Impact Class 1 (BS EN 12600) (continued)

Coating	Thickness (mm)	Tolerance (mm)
Guardian SunGuard SN range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Planitherm Ultra NII	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Planitherm One II	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Cool-Lite SKN range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3

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## Coated toughened glass meeting Impact Class 1 (BS EN 12600) (continued)

Coating	Thickness (mm)	Tolerance (mm)
Cool-Lite Xtreme range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Guardian SunGuard HP range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Guardian SunGuard HD range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Guardian SunGuard Solar range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3

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No. KM 54502

## Coated toughened glass meeting Impact Class 1 (BS EN 12600) (continued)

Coating	Thickness (mm)	Tolerance (mm)
Cool-Lite ST150	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
Guardian SunGuard Extra Selective range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3

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## Modified toughened glass meeting Impact Class 1 (BS EN 12600).

Glass Type	Thickness (mm)	Tolerance (mm)
Satin acid etched	4.0	±0.2
Satin acid etched	6.0	±0.2
Satin acid etched	8.0	±0.3
Satin acid etched	10.0	±0.3

## Patterned toughened glass meeting Impact Class 1 (BS EN 12600) in 4 and 6mm thickness.

Artic	Cotswold	Florielle	Pelerine	Canterbury
Autumn	Digital	Mayflower	Stippolyte	
Chantilly	Everglade	Minster	Sycamore	
Charcoal Sticks	Flemish	Oak	Tafetta	

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# Kitemark™ Certificate

No. KM 54502

## BS EN 14449:2005 - Laminated glass and laminated safety glass.

Clear/coated laminated float safety glass meeting Impact Class 1 (BS EN 12600) using Trosifol PVB Interlayer with the following thickness combinations:

Glass Thickness (mm)	4	5	6	8	10	12	15	19	Interlayer Thickness (mm)
4	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
5	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
6	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
8	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
10	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
12	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
15	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
19	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	

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# Kitemark™ Certificate

No. KM 54502

## BS EN 14449:2005 - Laminated glass and laminated safety glass.

Clear/coated laminated float safety glass meeting Impact Class 1 (BS EN 12600) using EVALAM Interlayer with the following thickness combinations:

Glass Thickness (mm)	4	5	6	8	10	12	15	19	Interlayer Thickness (mm)
4	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
5	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
6	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
8	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
10	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
12	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
15	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
19	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	

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# Kitemark™ Certificate

No. KM 54502

## BS EN 14449:2005 - Laminated glass and laminated safety glass.

Clear/coated laminated float safety glass meeting Impact Class 1 (BS EN 12600) using UNILAM EVA Interlayer with the following thickness combinations:

Glass Thickness (mm)	4	5	6	8	10	12	15	19	Interlayer Thickness (mm)
4	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
5	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
6	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
8	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
10	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
12	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
15	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
19	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	

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# Kitemark™ Certificate

No. KM 54502

## BS EN 14449:2005 - Laminated glass and laminated safety glass.

Clear/coated laminated float safety glass meeting Impact Class 1 (BS EN 12600) using Saflex RB41 PVB Interlayer with the following thickness combinations:

Glass Thickness (mm)	4	5	6	8	10	12	15	19	Interlayer Thickness (mm)
4	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
5	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
6	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
8	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
10	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
12	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
15	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
19	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	

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# Kitemark™ Certificate

No. KM 54502

## BS EN 14449:2005 - Laminated glass and laminated safety glass.

Clear/coated laminated float safety glass meeting Impact Class 1 (BS EN 12600) using Saflex DG41 PVB Interlayer with the following thickness combinations:

Glass Thickness (mm)	4	5	6	8	10	12	15	19	Interlayer Thickness (mm)
4	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
5	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
6	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
8	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
10	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
12	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
15	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
19	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.50
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	

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# Kitemark™ Certificate

No. KM 54502

**Ravensby Glass Co Ltd**  
**Unit 8**  
**Tom Johnston Road**  
**Dundee**  
**DD4 8XG**

**BS EN 14179-1:2016 - Heat soaked thermally toughened soda lime silicate safety glass**  
**Clear/tinted toughened glass meeting Impact Class 1 (BS EN 12600)**

Thickness (mm)	Tolerance (mm)
4.0	±0.2
5.0	±0.2
6.0	±0.2
8.0	±0.3
10.0	±0.3
12.0	±0.3
15.0	±0.5
19.0	±1.0

**Coated toughened glass meeting Impact Class 1 (BS EN 12600)**

Coating	Thickness (mm)	Tolerance (mm)
Planitherm 1.2	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3

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# Kitemark™ Certificate

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**BS EN 14179-1:2016 - Heat soaked thermally toughened soda lime silicate safety glass**  
**Modified toughened glass meeting Impact Class 1 (BS EN 12600)**

<b>Coating</b>	<b>Thickness (mm)</b>	<b>Tolerance (mm)</b>
Satin	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3

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# Kitemark™ Certificate

No. KM 54502

## Coated toughened glass meeting Impact Class 1 (BS EN 12600) (continued)

Coating	Thickness (mm)	Tolerance (mm)
Climaguard range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Guardian SunGuard SN range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Planitherm Ultra NII	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Planitherm One II	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3

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# Kitemark™ Certificate

No. KM 54502

## Coated toughened glass meeting Impact Class 1 (BS EN 12600) (continued)

Coating	Thickness (mm)	Tolerance (mm)
Cool-Lite SKN range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Cool-Lite Xtreme range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Guardian SunGuard HP range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Guardian SunGuard HD range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3
Guardian SunGuard Solar range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3

First Issued: 2000-08-04

Latest Issue: 2019-09-09

Effective Date: 2019-09-09

Expiry Date: 2022-09-08

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# Kitemark™ Certificate

No. KM 54502

## Coated toughened glass meeting Impact Class 1 (BS EN 12600) (continued)

Coating	Thickness (mm)	Tolerance (mm)
Cool-Lite ST150	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
Guardian SunGuard Extra Selective range	4.0	±0.2
	6.0	±0.2
	8.0	±0.3
	10.0	±0.3
	12.0	±0.3

## Modified toughened glass meeting Impact Class 1 (BS EN 12600).

Glass Type	Thickness (mm)	Tolerance (mm)
Satin acid etched	4.0	±0.2
Satin acid etched	6.0	±0.2
Satin acid etched	8.0	±0.3
Satin acid etched	10.0	±0.3

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