

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:

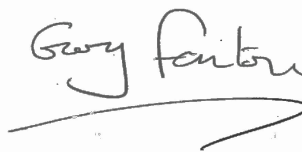
KM 54502

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:

Gary Fenton, Global Product Certification Director

First Issued: 2000-08-04

Latest Issue: 2017-05-30



Kitemark™ Certificate

No. KM 54502

BS EN 12150-1:2000 – 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
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)
Pilkington K	4.0	±0.2
Pilkington K	6.0	±0.2
Guardian 1.4 DT	4.0	±0.2
Guardian 1.4 DT	6.0	±0.2
Glaverbel G	4.0	±0.2
Glaverbel G	6.0	±0.2
Planitherm 1.3	4.0	±0.2
Planitherm 1.3	6.0	±0.2
Planitherm 1.2	4.0	±0.2
Planitherm 1.2	6.0	±0.2
Climaguard A	4.0	±0.2
Climaguard A	6.0	±0.2
Climaguard A	8.0	±0.3
Climaguard A	10.0	±0.3

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Kitemark™ Certificate

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

Coating	Thickness (mm)	Tolerance (mm)
Climaguard A+	4.0	±0.2
Climaguard A+	6.0	±0.2
Climaguard A+	8.0	±0.3
Climaguard A+	10.0	±0.3
Climaguard 1.0	4.0	±0.2
Climaguard 1.0	6.0	±0.2
Climaguard 1.0	8.0	±0.3
Climaguard 1.0	10.0	±0.3
Climaguard 1.1	4.0	±0.2
Climaguard 1.1	6.0	±0.2
Climaguard 1.1	8.0	±0.3
Climaguard 1.1	10.0	±0.3
Guardian SunGuard SN 70/41	4.0	±0.2
Guardian SunGuard SN 70/41	6.0	±0.2
Guardian SunGuard SN 70/41	8.0	±0.3
Guardian SunGuard SN 70/41	10.0	±0.3
Guardian SunGuard SN 70/37	4.0	±0.2
Guardian SunGuard SN 70/37	6.0	±0.2
Guardian SunGuard SN 70/37	8.0	±0.3
Guardian SunGuard SN 70/37	10.0	±0.3
Guardian SunGuard SN 70/35	4.0	±0.2
Guardian SunGuard SN 70/35	6.0	±0.2

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

Coating	Thickness (mm)	Tolerance (mm)
Guardian SunGuard SN 70/35	8.0	±0.3
Guardian SunGuard SN 70/35	10.0	±0.3
Guardian SunGuard SN 62/34	4.0	±0.2
Guardian SunGuard SN 62/34	6.0	±0.2
Guardian SunGuard SN 62/34	8.0	±0.3
Guardian SunGuard SN 62/34	10.0	±0.3
Guardian SunGuard SN 51/28	4.0	±0.2
Guardian SunGuard SN 51/28	6.0	±0.2
Guardian SunGuard SN 51/28	8.0	±0.3
Guardian SunGuard SN 51/28	10.0	±0.3
Guardian SunGuard SN 40/23	4.0	±0.2
Guardian SunGuard SN 40/23	6.0	±0.2
Guardian SunGuard SN 40/23	8.0	±0.3
Guardian SunGuard SN 40/23	10.0	±0.3
Guardian SunGuard SN 29/18	4.0	±0.2
Guardian SunGuard SN 29/18	6.0	±0.2
Guardian SunGuard SN 29/18	8.0	±0.3
Guardian SunGuard SN 29/18	10.0	±0.3
Planitherm Ultra NII	4.0	±0.2
Planitherm Ultra NII	6.0	±0.2
Planitherm Ultra NII	8.0	±0.3
Planitherm Ultra NII	10.0	±0.3

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

Coating	Thickness (mm)	Tolerance (mm)
Planitherm One II	4.0	±0.2
Planitherm One II	6.0	±0.2
Planitherm One II	8.0	±0.3
Planitherm One II	10.0	±0.3
Cool-Lite SKN 144	4.0	±0.2
Cool-Lite SKN 144	6.0	±0.2
Cool-Lite SKN 144	8.0	±0.3
Cool-Lite SKN 144	10.0	±0.3
Cool-Lite SKN 154	4.0	±0.2
Cool-Lite SKN 154	6.0	±0.2
Cool-Lite SKN 154	8.0	±0.3
Cool-Lite SKN 154	10.0	±0.3
Cool-Lite SKN 165	4.0	±0.2
Cool-Lite SKN 165	6.0	±0.2
Cool-Lite SKN 165	8.0	±0.3
Cool-Lite SKN 165	10.0	±0.3
Cool-Lite SKN 174	4.0	±0.2
Cool-Lite SKN 174	6.0	±0.2
Cool-Lite SKN 174	8.0	±0.3
Cool-Lite SKN 174	10.0	±0.3
Cool-Lite SKN 176	4.0	±0.2
Cool-Lite SKN 176	6.0	±0.2

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

Coating	Thickness (mm)	Tolerance (mm)
Cool-Lite SKN 176	8.0	±0.3
Cool-Lite SKN 176	10.0	±0.3
Cool-Lite Xtreme 60/28	4.0	±0.2
Cool-Lite Xtreme 60/28	6.0	±0.2
Cool-Lite Xtreme 60/28	8.0	±0.3
Cool-Lite Xtreme 60/28	10.0	±0.3
Cool-Lite ST150	4.0	±0.2
Cool-Lite ST150	6.0	±0.2
Cool-Lite ST150	8.0	±0.3
Cool-Lite ST150	10.0	±0.3
Cool-Lite Xtreme 50/22	4.0	±0.2
Cool-Lite Xtreme 50/22	6.0	±0.2
Cool-Lite Xtreme 50/22	8.0	±0.3
Cool-Lite Xtreme 50/22	10.0	±0.3
Cool-Lite Xtreme 70/33	4.0	±0.2
Cool-Lite Xtreme 70/33	6.0	±0.2
Cool-Lite Xtreme 70/33	8.0	±0.3
Cool-Lite Xtreme 70/33	10.0	±0.3
Sunguard HP Light Blue 62/52	4.0	±0.2
Sunguard HP Light Blue 62/52	6.0	±0.2
Sunguard HP Light Blue 62/52	8.0	±0.3
Sunguard HP Light Blue 62/52	10.0	±0.3

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

Coating	Thickness (mm)	Tolerance (mm)
Sunguard HP Neutral 60/40	4.0	±0.2
Sunguard HP Neutral 60/40	6.0	±0.2
Sunguard HP Neutral 60/40	8.0	±0.3
Sunguard HP Neutral 60/40	10.0	±0.3
Sunguard HP Neutral 41/33	4.0	±0.2
Sunguard HP Neutral 41/33	6.0	±0.2
Sunguard HP Neutral 41/33	8.0	±0.3
Sunguard HP Neutral 41/33	10.0	±0.3
Sunguard HP Silver 43/31	4.0	±0.2
Sunguard HP Silver 43/31	6.0	±0.2
Sunguard HP Silver 43/31	8.0	±0.3
Sunguard HP Silver 43/31	10.0	±0.3
Sunguard HP Royal Blue 41/29	4.0	±0.2
Sunguard HP Royal Blue 41/29	6.0	±0.2
Sunguard HP Royal Blue 41/29	8.0	±0.3
Sunguard HP Royal Blue 41/29	10.0	±0.3
Sunguard HP Amber 41/29	4.0	±0.2
Sunguard HP Amber 41/29	6.0	±0.2
Sunguard HP Amber 41/29	8.0	±0.3
Sunguard HP Amber 41/29	10.0	±0.3

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

Coating	Thickness (mm)	Tolerance (mm)
Sunguard HP Bright Green 40/29	4.0	±0.2
Sunguard HP Bright Green 40/29	6.0	±0.2
Sunguard HP Bright Green 40/29	8.0	±0.3
Sunguard HP Bright Green 40/29	10.0	±0.3
Sunguard HP Bronze 40/27	4.0	±0.2
Sunguard HP Bronze 40/27	6.0	±0.2
Sunguard HP Bronze 40/27	8.0	±0.3
Sunguard HP Bronze 40/27	10.0	±0.3
Sunguard HP Silver 35/26	4.0	±0.2
Sunguard HP Silver 35/26	6.0	±0.2
Sunguard HP Silver 35/26	8.0	±0.3
Sunguard HP Silver 35/26	10.0	±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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No. KM 54502

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

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

Glass Thickness (mm)	4		6		8		10		12		15		19		Interlayer Thickness (mm)
	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
4	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	Interlayer Thickness (mm)
6	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
8	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
10	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
12	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
15	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
19	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	

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

Glass Thickness (mm)	4		6		8		10		12		15		19		Interlayer Thickness (mm)
	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
4	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	Interlayer Thickness (mm)
6	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
8	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
10	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
12	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
15	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	
19	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	0.76	1.5	

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No. KM 54502

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

BS EN 12150-1:2000 - Thermally toughened soda lime silicate safety glass

BS EN 14179-1:2005 - 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
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)
Pilkington K	4.0	±0.2
Pilkington K	6.0	±0.2
Guardian 1.4 DT	4.0	±0.2
Guardian 1.4 DT	6.0	±0.2
Glaverbel G	4.0	±0.2
Glaverbel G	6.0	±0.2

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

Coating	Thickness (mm)	Tolerance (mm)
Planitherm 1.3	4.0	±0.2
Planitherm 1.3	6.0	±0.2
Planitherm 1.2	4.0	±0.2
Climaguard A	4.0	±0.2
Climaguard A	6.0	±0.2
Climaguard A	8.0	±0.3
Climaguard A	10.0	±0.3
Climaguard A+	4.0	±0.2
Climaguard A+	6.0	±0.2
Climaguard A+	8.0	±0.3
Climaguard A+	10.0	±0.3
Climaguard 1.0	4.0	±0.2
Climaguard 1.0	6.0	±0.2
Climaguard 1.0	8.0	±0.3
Climaguard 1.0	10.0	±0.3
Climaguard 1.1	4.0	±0.2
Climaguard 1.1	6.0	±0.2
Climaguard 1.1	8.0	±0.3
Climaguard 1.1	10.0	±0.3
Guardian SunGuard SN 70/41	4.0	±0.2
Guardian SunGuard SN 70/41	6.0	±0.2
Guardian SunGuard SN 70/41	8.0	±0.3
Guardian SunGuard SN 70/41	10.0	±0.3

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

Coating	Thickness (mm)	Tolerance (mm)
Guardian SunGuard SN 70/37	4.0	±0.2
Guardian SunGuard SN 70/37	6.0	±0.2
Guardian SunGuard SN 70/37	8.0	±0.3
Guardian SunGuard SN 70/37	10.0	±0.3
Guardian SunGuard SN 70/35	4.0	±0.2
Guardian SunGuard SN 70/35	6.0	±0.2
Guardian SunGuard SN 62/34	4.0	±0.2
Guardian SunGuard SN 62/34	6.0	±0.2
Guardian SunGuard SN 62/34	8.0	±0.3
Guardian SunGuard SN 62/34	10.0	±0.3
Guardian SunGuard SN 51/28	4.0	±0.2
Guardian SunGuard SN 51/28	6.0	±0.2
Guardian SunGuard SN 51/28	8.0	±0.3
Guardian SunGuard SN 51/28	10.0	±0.3
Guardian SunGuard SN 40/23	4.0	±0.2
Guardian SunGuard SN 40/23	6.0	±0.2
Guardian SunGuard SN 40/23	8.0	±0.3
Guardian SunGuard SN 40/23	10.0	±0.3
Guardian SunGuard SN 29/18	4.0	±0.2
Guardian SunGuard SN 29/18	6.0	±0.2
Guardian SunGuard SN 29/18	8.0	±0.3
Guardian SunGuard SN 29/18	10.0	±0.3
Planitherm Ultra NII	4.0	±0.2
Planitherm Ultra NII	6.0	±0.2
Planitherm Ultra NII	8.0	±0.3
Planitherm Ultra NII	10.0	±0.3

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

Coating	Thickness (mm)	Tolerance (mm)
Planitherm One II	4.0	±0.2
Planitherm One II	6.0	±0.2
Planitherm One II	8.0	±0.3
Planitherm One II	10.0	±0.3
Cool-Lite SKN 144	4.0	±0.2
Cool-Lite SKN 144	6.0	±0.2
Cool-Lite SKN 144	8.0	±0.3
Cool-Lite SKN 144	10.0	±0.3
Cool-Lite SKN 154	4.0	±0.2
Cool-Lite SKN 154	6.0	±0.2
Cool-Lite SKN 154	8.0	±0.3
Cool-Lite SKN 154	10.0	±0.3
Cool-Lite SKN 165	4.0	±0.2
Cool-Lite SKN 165	6.0	±0.2
Cool-Lite SKN 165	8.0	±0.3
Cool-Lite SKN 165	10.0	±0.3
Cool-Lite SKN 174	4.0	±0.2
Cool-Lite SKN 174	6.0	±0.2
Cool-Lite SKN 174	8.0	±0.3
Cool-Lite SKN 174	10.0	±0.3
Cool-Lite SKN 176	4.0	±0.2
Cool-Lite SKN 176	6.0	±0.2
Cool-Lite SKN 176	8.0	±0.3
Cool-Lite SKN 176	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)
Cool-Lite Xtreme 60/28	4.0	±0.2
Cool-Lite Xtreme 60/28	6.0	±0.2
Cool-Lite Xtreme 60/28	8.0	±0.3
Cool-Lite Xtreme 60/28	10.0	±0.3
Cool-Lite ST150	4.0	±0.2
Cool-Lite ST150	6.0	±0.2
Cool-Lite ST150	8.0	±0.3
Cool-Lite ST150	10.0	±0.3
Cool-Lite Xtreme 50/22	4.0	±0.2
Cool-Lite Xtreme 50/22	6.0	±0.2
Cool-Lite Xtreme 50/22	8.0	±0.3
Cool-Lite Xtreme 50/22	10.0	±0.3
Cool-Lite Xtreme 70/33	4.0	±0.2
Cool-Lite Xtreme 70/33	6.0	±0.2
Cool-Lite Xtreme 70/33	8.0	±0.3
Cool-Lite Xtreme 70/33	10.0	±0.3
Sunguard HP Light Blue 62/52	4.0	±0.2
Sunguard HP Light Blue 62/52	6.0	±0.2
Sunguard HP Light Blue 62/52	8.0	±0.3
Sunguard HP Light Blue 62/52	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)
Sunguard HP Neutral 60/40	4.0	±0.2
Sunguard HP Neutral 60/40	6.0	±0.2
Sunguard HP Neutral 60/40	8.0	±0.3
Sunguard HP Neutral 60/40	10.0	±0.3
Sunguard HP Neutral 41/33	4.0	±0.2
Sunguard HP Neutral 41/33	6.0	±0.2
Sunguard HP Neutral 41/33	8.0	±0.3
Sunguard HP Neutral 41/33	10.0	±0.3
Sunguard HP Silver 43/31	4.0	±0.2
Sunguard HP Silver 43/31	6.0	±0.2
Sunguard HP Silver 43/31	8.0	±0.3
Sunguard HP Silver 43/31	10.0	±0.3
Sunguard HP Royal Blue 41/29	4.0	±0.2
Sunguard HP Royal Blue 41/29	6.0	±0.2
Sunguard HP Royal Blue 41/29	8.0	±0.3
Sunguard HP Royal Blue 41/29	10.0	±0.3
Sunguard HP Amber 41/29	4.0	±0.2
Sunguard HP Amber 41/29	6.0	±0.2
Sunguard HP Amber 41/29	8.0	±0.3
Sunguard HP Amber 41/29	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)
Sunguard HP Bright Green 40/29	4.0	±0.2
Sunguard HP Bright Green 40/29	6.0	±0.2
Sunguard HP Bright Green 40/29	8.0	±0.3
Sunguard HP Bright Green 40/29	10.0	±0.3
Sunguard HP Bronze 40/27	4.0	±0.2
Sunguard HP Bronze 40/27	6.0	±0.2
Sunguard HP Bronze 40/27	8.0	±0.3
Sunguard HP Bronze 40/27	10.0	±0.3
Sunguard HP Silver 35/26	4.0	±0.2
Sunguard HP Silver 35/26	6.0	±0.2
Sunguard HP Silver 35/26	8.0	±0.3
Sunguard HP Silver 35/26	10.0	±0.3

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