

Kitemark™ Certificate

This is to certify that:

KCW Windows Limited
25a Shuttleworth Road
Bedford
MK41 0HS
United Kingdom

Holds Certificate Number:

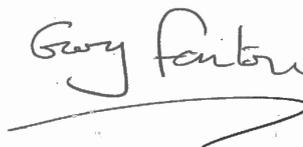
KM 647560

In respect of:

BS 4873
Aluminium Window Fabricator

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: 06/07/2016

Latest Issue: 06/07/2016



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...making excellence a habit.™

Kitemark™ Certificate

No. KM 647560

BS 4873:2009 - Aluminium alloy windows and doorsets.

This Certificate covers the fabrication of windows from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 81543.

Alitherm 300 System Aluminium Alloy Window system

Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Smart Systems Limited controlled manual(s): Smart Systems Alitherm 300 Windows Manual
System description:	The windows are thermally broken, internally or externally beaded, double glazed only, have multipoint locking only and mechanically fixed transoms/mullions.
Ventilation:	None
Window Types:	Casement windows Fixed windows Multilight windows comprising opening light(s) with or without fixed light(s)

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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 647560

Size Limitations and Performance Characteristics

Alitherm 300 Aluminium Alloy Window System

Window Type	Length (mm) Maximum	Height (mm) - Maximum	Perimeter (mm) - Maximum	Transom/Mullion Length (mm) inc frame - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009
Sash dimensions for windows with approved sash profiles:								
Projecting top hungs Internally Beaded	1400	1400	-	-	4	7A	AE2400	2000+
Projecting top hungs Externally Beaded	1400	1400	-	-	4	5A	AE2400	2000+
Projecting side hungs Internally Beaded	600	1400	-	-	4	7A	AE2400	2000+
Projecting side hungs Externally Beaded	600	1400	-	-	4	5A	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:								
Fixeds Internally Beaded	2100	2100	8400	-	4	7A	AE2400	2000+
Fixeds Externally Beaded	2100	2100	8400	-	4	5A	AE2400	2000+
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilight, ETC335 T/M Internally Beaded	2100	2100	7100	1450	4	7A	AE2400	2000+
Multilight, ETC 335 T/M Externally Beaded	2100	2100	7100	1450	4	5A	AE2400	2000+

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Alitherm 600 System Aluminium Alloy Window system

Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Smart Systems Limited controlled manual(s): Smart Systems Alitherm 600 Windows & Doors Manual
System description:	The windows are thermally broken, internally or externally beaded, double glazed only, have multipoint locking only and mechanically fixed transoms/mullions.
Ventilation:	None
Window Types:	Casement windows Fixed windows Multilight windows comprising opening light(s) with or without fixed light(s)

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Size Limitations and Performance Characteristics

Alitherm 600 Aluminium Alloy Window System

Window Type	Length (mm) Maximum	Height (mm) - Maximum	Perimeter (mm) - Maximum	Transom/Mullion Length (mm) inc frame - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009
Sash dimensions for windows with approved sash profiles:								
Projecting top hungs Internally beaded	1400	1500	-	-	4	7A	AE2400	2000+
Projecting top hungs Externally beaded	1400	1500	-	-	4	5A	AE2400	2000+
Projecting side hungs Internally beaded	1000	1400	-	-	4	7A	AE2400	2000+
Projecting side hungs Externally beaded	1000	1400	-	-	4	5A	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:								
Fixeds Internally beaded	2100	2100	8400	-	4	7A	AE2400	2000+
Fixeds Externally beaded	2100	2100	8400	-	4	5A	AE2400	2000+
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilight, ETC335 T/M Internally beaded	2100	2100	7100	1450	4	7A	AE2400	2000+
Multilight ETC335 T/M Externally beaded	2100	2100	7100	1450	4	5A	AE2400	2000+

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Alitherm 700 System Aluminium Alloy Window system

Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Smart Systems Limited controlled manual(s): Smart Systems Alitherm 700 Windows Manual
System description:	The windows are thermally broken, internally beaded, double glazed only, have multipoint locking only and mechanically fixed transoms/mullions.
Ventilation:	None
Window Types:	Casement windows Parallel opening windows Fully reversible windows Fixed windows

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Size Limitations and Performance Characteristics

Alitherm 700 Aluminium Alloy Window System

Window Type	Length (mm) Maximum	Height (mm) - Maximum	Perimeter (mm) - Maximum	Transom/Mullion Length (mm) inc frame - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009
Sash dimensions for windows with approved sash profiles:								
Projecting Top Hungs	1600	1600			4	9A	AE2400	2000+
Projecting Side Hungs	840	1500			4	9A	AE2400	2000+
Parallel	1800	2100	7200	-	4	9A	AE2400	2000+
Reversible	1500	1558	6116	-	4	9A	AE2400	2000+
Fixeds	2100	2100	7800		4	9A	AE2400	2000+

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Alitherm 800 System Aluminium Alloy Window system

Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Smart Systems Limited controlled manual(s): Smart Systems Alitherm 800 Windows & Doors Manual
System description:	The windows are thermally broken, internally or externally beaded, double glazed only, have multipoint locking only and mechanically fixed transoms/mullions.
Ventilation:	None
Window Types:	Casement windows Fixed windows Multilight windows comprising opening light(s) with or without fixed light(s)

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Size Limitations and Performance Characteristics

Alitherm 800 Aluminium Alloy Window System

Window Type	Length (mm) Maximum	Height (mm) - Maximum	Perimeter (mm) - Maximum	Transom/Mullion Length (mm) inc frame - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009
Sash dimensions for windows with approved sash profiles:								
Projecting top hungs	1400	1300	-	-	3	8A	A2	800
Projecting side hungs	800	1400	-	-	3	E1050	AE	2000
Overall dimensions for windows with approved outer frame profiles:								
Fixeds	2100	2100	4800	-	3	E1050	AE	2000
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilight, ETC831 T/M reinforcement	2100	2100	7100	1450	3	E1050	AE	2000

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Eco Futural System Aluminium Alloy Window system

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Smart Systems Limited controlled manual(s):

Smart Systems Eco Futural Windows & Doors Manual

System description: The windows are thermally broken, double glazed only, internally or externally beaded, multipoint locking only, with mechanically fixed transoms/mullions

Ventilation: None

Window Types: Casement windows
Tilt/Turn windows
Fixed windows
Multilight windows comprising opening light(s) with or without fixed light(s)

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Size Limitations and Performance Characteristics

EcoFutural Aluminium Alloy Window System

Window Type	Length (mm) Maximum	Height (mm) - Maximum	Perimeter (mm) - Maximum	Transom/Mullion Length (mm) inc frame - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009
Sash dimensions for windows with approved sash profiles:								
Projecting top hungs	1440	2500	-	-	3	8A	A5	2000
Projecting side hungs	840	1440	-	-	4	E1050	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:								
Fixeds	2100	2100	4800	-	4	E1050	AE	2000
Tilt/Turns	1600*	2400	-	-	4	E900	AE	2400
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilights,	2400	2100	7680	1345	4	E1050	AE	2000

***Width of the Tilt/Turn Sash must not exceed 1½ times the height.**

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Alitherm Heritage System Aluminium Alloy Window system

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Smart Systems Limited controlled manual(s):

Smart Systems Alitherm Heritage Windows Manual

System description: The windows are thermally broken, double glazed only, internally or externally beaded, multipoint locking only, with mechanically fixed transoms/mullions

Ventilation: None

Window Types: Casement windows
Fixed windows
Multilight windows comprising opening light(s) with or without fixed light(s)

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Size Limitations and Performance Characteristics Alitherm Heritage Aluminium Alloy Window System

Window Type	Length (mm) Maximum	Height (mm) - Maximum	Perimeter (mm) - Maximum	Transom/Mullion Length (mm) inc frame - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009
Sash dimensions for windows with approved sash profiles:								
Projecting top hungs Internally Beaded	1400	1400	-	-	4	9A	AE2400	2000+
Projecting top hungs Externally Beaded	1400	1400	-	-	4	9A	AE2400	2000+
Projecting side hungs Internally Beaded	600	1400	-	-	4	9A	AE2400	2000+
Projecting side hungs Externally Beaded	600	1400	-	-	4	9A	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:								
Fixeds Internally Beaded	2100	2100	8400	-	4	9A	AE2400	2000+
Fixeds Externally Beaded	2100	2100	8400	-	4	9A	AE2400	2000+
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilight, W2035 T/M Internally Beaded	2100	2100	7100	1450	4	9A	AE2400	2000+
Multilight, W2035 T/M Externally Beaded	2100	2100	7100	1450	4	9A	AE2400	2000+

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