

# Kitemark™ Certificate

This is to certify that:

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

Holds Certificate Number:

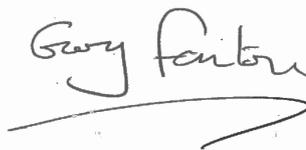
KM 647561

In respect of:

**BS 4873 / PAS24**  
**Enhanced Security 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



# Kitemark™ Certificate

No. KM 647561

## **BS 4873:2009 / PAS 24:2012 - Enhanced security performance requirements for window assemblies.**

This Certificate covers the fabrication of windows from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 81580.

### **Alitherm 300 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 Window 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) and/or dummy vent(s) or fixed light(s)

**Profiles:**

Outer Frame(s)	ETC303/304/305/306/308/310/313/
Transom/Mullion(s)	ETC333/335/336
Sash(es)	ETC321/323/324N/326/327/328N/329/423/424N
Rebate Reverser	ETC343/344/345/346N

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BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# Kitemark™ Certificate

No. KM 647561

## Hardware - Alitherm 300 Aluminium Alloy Window System

### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Securistyle Defender stays Nico Friction Hinges	Smart Systems	ACET070	Smart Systems
Securistyle Vector Excluder ASD2 hinge protectors	Smart Systems	ACET066	Smart Systems
Trojan Shootbolt/mushroom bolt espagnolette locking system	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
ACET081/ACET165 Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified for the fixed windows.

### Dummy vent windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Defender stays	Securistyle	ACET070	Smart Systems

\*Glass retention as specified for the fixed windows.

### Fixed windows

Glass retention: External: Glazing beads and Glaslok Securi-clip security glazing clips  
Internal: Glazing beads

### Multilight windows comprising opening light(s) and/or dummy vent(s) or fixed light(s)

Hardware/Fixing requirements are as specified for opening, dummy vent and fixed window types.

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# Kitemark™ Certificate

No. KM 647561

## Size Limitations and Performance Characteristics

### Alitherm 300 Aluminium Alloy Window System

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m <sup>2</sup> ) - Maximum	Friction Stays (up to and including)	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	-	24"	-	4	7A	AE2400	2000+
Projecting top hungs Externally beaded	1400	1400	-	24"	-	4	5A	AE2400	2000+
Projecting side hungs Internally beaded	600	1400	-	16"	-	4	7A	AE2400	2000+
Projecting side hungs Externally beaded	600	1400	-	16"	-	4	5A	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixeds Internally Beaded	2100	2100	4.2	-	-	4	7A	AE2400	2000+
Fixeds Externally Beaded	2100	2100	4.2	-	-	4	5A	AE2400	2000+
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilight ETC335 T/M Internally Beaded	2100	2100	2.5	-	1450	4	7A	AE2400	2000+
Multilight ETC335 T/M Externally Beaded	2100	2100	2.5	-	1450	4	5A	AE2400	2000+

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# Kitemark™ Certificate

No. KM 647561

## **BS 4873:2009 / PAS 24:2012 - Enhanced security performance requirements for window assemblies.**

This Certificate covers the fabrication of windows from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 81580.

### **Alitherm 600 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 Window 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) and/or dummy vent(s) or fixed light(s)

**Profiles:**

Outer Frame(s)	ETC610/ETC611/ETC612/ETC613/ETC614/ETC615/ ETC616/ETC619/ETC6101
Transom/Mullion(s)	ETC630/ETC631/ETC632/ETC633/ETC634/ETC635/ ETC636/ETC638/ETC639/ETC6301/
Sash(es)	ETC620/ETC621/ETC622/ETC623/ETC624/ETC625/ ETC627/ETC628
Rebate Reverser	ETC645/ETC647/ETC648

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# Kitemark™ Certificate

No. KM 647561

## Hardware - Alitherm 600 Aluminium Alloy Window System

### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Defender stays	Securistyle	ACET070	Smart Systems
Vector Excluder ASD2 hinge protectors	Securistyle	ACET066	Smart Systems
Trojan Shootbolt/mushroom bolt espagnolette locking system	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
ACET081/ACET165 Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified for the fixed windows.

### Dummy vent windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Defender stays	Securistyle	ACET070	Smart Systems

\*Glass retention as specified for the fixed windows.

### Fixed windows

Glass retention: External: Glazing beads and Glaslok Securi-clip security glazing clips  
Internal: Glazing beads

### Multilight windows comprising opening light(s) and/or dummy vent(s) or fixed light(s)

Hardware/Fixing requirements are as specified for opening, dummy vent and fixed window types.

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# Kitemark™ Certificate

No. KM 647561

## Size Limitations and Performance Characteristics

### Alitherm 600 Aluminium Alloy Window System

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area (m <sup>2</sup> ) - Maximum	Friction Stays (up to and including)	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	-	24"	-	4	7A	AE2400	2000+
Projecting top hungs Externally beaded	1400	1500	-	24"	-	4	5A	AE2400	2000+
Projecting side hungs Internally beaded	1000	1400	-	16"	-	4	7A	AE2400	2000+
Projecting side hungs Externally beaded	1000	1400	-	16"	-	4	5A	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixeds Internally Beaded	2100	2100	4.2	-	-	4	7A	AE2400	2000+
Fixeds Externally Beaded	2100	2100	4.2	-	-	4	5A	AE2400	2000+
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilight ETC335 T/M Internally Beaded	2100	2100	2.5	-	1450	4	7A	AE2400	2000+
Multilight ETC335 T/M Externally Beaded	2100	2100	2.5	-	1450	4	5A	AE2400	2000+

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# Kitemark™ Certificate

No. KM 647561

## **BS 4873:2009 / PAS 24:2012 - Enhanced security performance requirements for window assemblies.**

This Certificate covers the fabrication of windows from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 81580.

### **Alitherm 700 Aluminium Alloy Window System**

<b>Fabrication and Installation:</b>	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	
<b>System description:</b>	The windows are thermally broken, double glazed only, internally beaded, multipoint locking only, with mechanically fixed transoms/mullions	
<b>Ventilation:</b>	None	
<b>Window Types:</b>	Casement windows Parallel opening windows Fully reversible windows Fixed windows	
<b>Profiles:</b>	Outer Frame(s)	ETC710/ETC716/ETC717/ETC718
	Sash(es)	ETC720/ETC721/ETC725
	Mullion/Transom	ETC 730/ ETC733/ETC736/ETC737
	Rebate Reverser	ETC745/ETC746/ETC747

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# Kitemark™ Certificate

No. KM 647561

## Hardware - Alitherm 700 Aluminium Alloy Window System

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Defender stays	Securistyle	ACET070	Smart Systems
Vector Excluder ASD2 hinge protectors	Securistyle	ACET066	Smart Systems
Locking Kit ACE710	Smart Systems		Smart Systems
ACET081/ACET165 Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified for the fixed windows.

### Fixed windows

Glass retention: Internal: Glazing beads

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# Kitemark™ Certificate

No. KM 647561

## Size Limitations and Performance Characteristics

### Alitherm 700 Aluminium Alloy Window System

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m <sup>2</sup> ) - Maximum	Friction Stays (up to and including)	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	3.7	-	-	4	9A	AE2400	2000+
Reversible	1500	1558	2.2	-	-	4	9A	AE2400	2000+
Fixeds	2100	2100	4.2	-	-	4	9A	AE2400	2000+

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# Kitemark™ Certificate

No. KM 647561

## **BS 4873:2009 / PAS 24:2012 - Enhanced security performance requirements for window assemblies.**

This Certificate covers the fabrication of windows from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 81580.

### **Alitherm 800 Aluminium Alloy Window System**

<b>Fabrication and Installation:</b>	Fabricated and installed in accordance with the latest issue(s) of the following Smart Systems Limited controlled manual(s): Smart Systems Alitherm 800 Windows and Doors Manual	
<b>System description:</b>	The windows are thermally broken, double glazed only, internally or externally beaded, multipoint locking only, with mechanically fixed transoms/mullions	
<b>Ventilation:</b>	None	
<b>Window Types:</b>	Casement windows Fixed windows Multilight windows comprising opening light(s) and/or dummy vent(s) or fixed light(s)	
<b>Profiles:</b>	Outer Frame(s)	ETC810/ETC811/ETC812/ETC813/ ETC814/ETC815/ETC816/ETC817/ETC821 ETC8201
	Transom/Mullion(s)	ETC830/ETC832/ETC834/ETC835
	Sash(es)	ETC821/ETC823/ETC824/ETC825/ETC826 ETC827/ETC828/ETC829
	Rebate Reverser(Internal glazing)	ETC845/ETC846

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# Kitemark™ Certificate

No. KM 647561

## Hardware - Alitherm 800 Aluminium Alloy Window System

### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Defender stays	Securistyle	ACET070	Smart Systems
Vector Excluder ASD2 hinge protectors	Securistyle	ACET066	Smart Systems
Shootbolt/mushroom bolt espagnolette locking system	Trojan	Espagnolette & keeps: ACET066	Smart Systems
ACET081/ACET165 Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified for the fixed windows.

### Dummy vent windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Defender stays	Securistyle	ACET070	Smart Systems

\*Glass retention as specified for the fixed windows.

### Fixed windows

Glass retention: External: Glazing beads and Glaslok Securi-clip security glazing clips  
Internal: Glazing beads

### Multilight windows comprising opening light(s) and/or dummy vent(s) or fixed light(s)

Hardware/Fixing requirements are as specified for opening, dummy vent and fixed window types.

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# Kitemark™ Certificate

No. KM 647561

## Size Limitations and Performance Characteristics

### Alitherm 800 Aluminium Alloy Window System

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m <sup>2</sup> ) - Maximum	Friction Stays (up to and including)	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	-	24"	-	3	8A	A2	800
Projecting side hungs	800	1400	-	16"	-	3	E1050	AE	2000
Overall dimensions for windows with approved outer frame profiles:									
Fixeds	2100	2100	4.2	-	-	3	E1050	AE	2000
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilights ETC831 Transom/Mullion	2100	2100	2.9	-	1450	-	E1050	AE	2000

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# Kitemark™ Certificate

No. KM 647561

**BS 4873:2009 / PAS 24:2012 - Enhanced security performance requirements for window assemblies.**

This Certificate covers the fabrication of windows from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 81580.

## Eco Futural 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 and 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) and/or dummy vent(s) or fixed light(s)

<b>Profiles:</b>	Outer Frame(s)	EF010/EF011/EF019/EF110/EF910
	Transom/Mullion(s)	EF030/EF031/EF032/EF033/EF034/ EF035/EF036/EF130/EF131/EF930
	Sash(es)	EF020/EF023/EF926
	Rebate Reverser(Internal glazing)	EF044/EF045/EF945/EF946

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# Kitemark™ Certificate

No. KM 647561

## Hardware - Eco Futural Aluminium Alloy Window System

### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Securistyle Defender stays Nico Friction Hinges	Smart Systems	ACET070	Smart Systems
Securistyle Vector hinge protectors	Smart Systems	ACET066	Smart Systems
ERA lock ACEF951-956	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
ACET081/ACET165 Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified for the fixed windows.

### Tilt/Turn windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Chrono hinge stays	Smart Systems	Integral within gearing	Smart Systems
Chrono Safe TiltTurn gearing	Smart Systems	Integral within gearing	Smart Systems
Tilt/Turn Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified for the fixed windows.

### Fixed windows

Glass retention: External: Glazing beads and Glaslok Securi-clip security glazing clips  
Internal: Glazing beads

### Multilight windows comprising opening light(s) and/or dummy vent(s) or fixed light(s)

Hardware/Fixing requirements are as specified for opening, dummy vent and fixed window types.

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# Kitemark™ Certificate

No. KM 647561

## Size Limitations and Performance Characteristics

### Eco Futural Aluminium Alloy Window System

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m <sup>2</sup> ) - Maximum	Friction Stays (up to and including)	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	-	24"	-	3	8A	A5	2000
Projecting side hungs	840	1440	-	16"	-	4	E1050	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixeds	2100	2100	4.2	-	-	3	E1050	AE	2000
Tilt/Turns	1600*	2400	-	-	-	4	E900	AE	2400
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilights ETC831 Transom/Mullion	2400	2100	3.1	-	1345	4	E1050	AE	2000

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

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# Kitemark™ Certificate

No. KM 647561

## **BS 4873:2009 / PAS 24:2016 - Enhanced security performance requirements for window assemblies.**

This Certificate covers the fabrication of windows from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 81580.

### **Alitherm Heritage 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 Window 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) and/or dummy vent(s) or fixed light(s)

**Profiles:**

Outer Frame(s)	W20015/20016/20017/20018
Transom/Mullion(s)	W20032/20034/20035/20037/20039
Sash(es)	W20024/20025/20026/20028/20029/20122
Rebate Reverser	W20047/20147

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# Kitemark™ Certificate

No. KM 647561

## Hardware - Alitherm Heritage Aluminium Alloy Window System

### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Securistyle Restrictor stays Nico Friction Hnges	Smart Systems	ACET070	Smart Systems
Securistyle Vector Excluder ASD2 hinge protectors	Smart Systems	ACET066	Smart Systems
Shootbolt/mushroom bolt espagnolette locking system ACW201-205	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
ACET165 Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified for the fixed windows.

### Dummy vent windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Securistyle Defender stays	Smart Systems	ACET070	Smart Systems

\*Glass retention as specified for the fixed windows.

### Fixed windows

Glass retention: External: Glazing beads and Glaslok Securi-clip security glazing clips  
Internal: Glazing beads

### Multilight windows comprising opening light(s) and/or dummy vent(s) or fixed light(s)

Hardware/Fixing requirements are as specified for opening, dummy vent and fixed window types.

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## Size Limitations and Performance Characteristics

### Alitherm Heritage Aluminium Alloy Window System

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m <sup>2</sup> ) - Maximum	Friction Stays (up to and including)	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	-	24"	-	4	7A	AE2400	2000+
Projecting top hungs Externally beaded	1400	1400	-	24"	-	4	5A	AE2400	2000+
Projecting side hungs Internally beaded	600	1400	-	16"	-	4	7A	AE2400	2000+
Projecting side hungs Externally beaded	600	1400	-	16"	-	4	5A	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixeds Internally Beaded	2100	2100	4.2	-	-	4	7A	AE2400	2000+
Fixeds Externally Beaded	2100	2100	4.2	-	-	4	5A	AE2400	2000+
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilight W2035 T/M Internally Beaded	2100	2100	2.5	-	1450	4	7A	AE2400	2000+
Multilight W2035 T/M Externally Beaded	2100	2100	2.5	-	1450	4	5A	AE2400	2000+

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