

## Kitemark™ Certificate

This is to certify that:

Avdon Bristol Ltd  
Longbrook Trading Estate  
Ashton Vale Road  
Bristol  
BS3 2HT  
United Kingdom

Holds Certificate Number:

KM 646594

In respect of:

**BS 4873/PAS 24**  
**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:

Shahm Barhom, Group Product Certification Director

First Issued: 2016-02-23

Latest Issue: 2025-05-09

Effective Date: 2025-05-09

Expiry Date: 2027-03-11

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# Kitemark™ Certificate

No. KM 646594

**BS 4873:2016 / PAS 24:2022 - Enhanced security performance requirements for windows in the UK.**

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

<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 600 Window Manual	
<b>System description:</b>	The windows are thermally broken, internally or externally beaded, with at least one pane of laminated glass meeting the requirements of BS EN 356:2000, Class P1A or higher, where applicable, and shall be glazed in accordance with the BS 6262 series where required, multipoint locking only, with mechanically fixed transoms/mullions. The fitting of any connected or smart device to this product will invalidate this Kitemark Certificate unless BSI has been provided with objective evidence from a competent authority that the device has been tested and certified to EN 303645. BSI will update any Kitemark certificates with the relevant products as and when they have been tested.	
<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)	ETC610/ETC611/ETC612/ETC613/ETC614/ETC615/ ETC616/ETC619/ETC6101/ETC618
	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 646594

## Hardware - Alitherm 600 Aluminium Alloy Window System

### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Friction Hinge Securistyle Defender Nico ME-Egress Hinge (Yale)	Smart Systems	ACET070	Smart Systems
Securistyle/Yale hinge protector ASD/ASD-ST	Smart Systems	ACET067	Smart Systems
Trojan and ERA Shootbolt/mushroom bolt espagnolette locking system	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
Casement Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified below.

### Dummy vent windows\*

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

\*Glass retention as specified below.

**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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A member of BSI Group of Companies.

# Kitemark™ Certificate

No. KM 646594

**Alitherm 600 Aluminium Alloy Window System**  
**Classification for Operational strength in accordance with BS 6375**

Operating forces	Class 1
Resistance to Static Torsion	Class 3
Racking	Class 3
Load Bearing capacity of safety devices	Pass
Impact Resistance	Class 0
Resistance to opening and closing	Class 2



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# Kitemark™ Certificate

No. KM 646594

## Alitherm 600 Aluminium Alloy Window System

**Size Limitations and Performance Characteristics – to be read in conjunction with fabrication manual**

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
Sash dimensions for windows with approved sash profiles:									
Projecting top hungs Internally beaded	1400	1500	-	24"	-	4	9A	AE2400	2000+
Projecting top hungs Externally beaded	1400	1500	-	24"	-	4	E1200	AE2400	2000+
Projecting side hungs Internally beaded	1000	1400	-	16"	-	4	9A	AE2400	2000+
Projecting side hungs Externally beaded	1000	1400	-	16"	-	4	E1200	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixeds Internally Beaded	2100	2100	4.2	-	-	4	9A	AE2400	2000+
Fixeds Externally Beaded	2100	2100	4.2	-	-	4	E1200	AE2400	2000+
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilights ETC630 T/M Internally Beaded	2100	2100	2.5	-	1450	4	9A	AE2400	2000+
Multilights ETC630 T/M Externally Beaded	2100	2100	2.5	-	1450	4	E1200	AE2400	2000+

BS 4873:2016 has been issued by BSI under a flexible accreditation scope

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# Kitemark™ Certificate

No. KM 646594

**BS 4873:2016 / PAS 24:2022 - Enhanced security performance requirements for windows in the UK.**

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

<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 Eco Futural Windows and Doors Manual	
<b>System description:</b>	The windows are thermally broken, internally or externally beaded, with at least one pane of laminated glass meeting the requirements of BS EN 356:2000, Class P1A or higher, where applicable, and shall be glazed in accordance with the BS 6262 series where required, multipoint locking only, with mechanically fixed transoms/mullions. The fitting of any connected or smart device to this product will invalidate this Kitemark Certificate unless BSI has been provided with objective evidence from a competent authority that the device has been tested and certified to EN 303645. BSI will update any Kitemark certificates with the relevant products as and when they have been tested.	
<b>Ventilation:</b>	None	
<b>Window Types:</b>	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/SPD710
	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 646594

## Hardware - Eco Futural Aluminium Alloy Window System

### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Friction Hinge Securistyle Defender Sterling ME-Egress Hinge (Yale)	Smart Systems	ACET070	Smart Systems
Securistyle/Yale hinge protector ASD/ASD-ST	Smart Systems	ACET067	Smart Systems
ERA lock ACEF951-956	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
Casement Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified below

### Tilt/Turn windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Chrono hinge stays	Smart Systems	Integral within gearing	Smart Systems
Chrono Safe Tilt/Turn gearing (Invision)	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 below

**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 646594

## Eco Futural Aluminium Alloy Window System

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Resistance to Static Torsion	Class 3
Racking	Class 3
Load Bearing capacity of safety devices	Pass
Impact Resistance	Class 0
Resistance to opening and closing	Class 2

## Size Limitations and Performance Characteristics – to be read in conjunction with fabrication manual

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 assigned in Table 1 of BS 6375-1
Sash dimensions for windows with approved sash profiles:									
Projecting top hungs	1440	2500	-	24"	-	3	8A	A5	2000
Projecting side hungs	838	1440	-	16"	-	4	E1050	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixed	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 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 646594

**BS 4873:2016 / PAS 24:2022 - Enhanced security performance requirements for windows in the UK.**

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**

<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 Heritage & Alitherm Heritage HD Window Manual	
<b>System description:</b>	The windows are thermally broken, internally or externally beaded, with at least one pane of laminated glass meeting the requirements of BS EN 356:2000, Class P1A or higher, where applicable, and shall be glazed in accordance with the BS 6262 series where required, multipoint locking only, with mechanically fixed transoms/mullions. The fitting of any connected or smart device to this product will invalidate this Kitemark Certificate unless BSI has been provided with objective evidence from a competent authority that the device has been tested and certified to EN 303645. BSI will update any Kitemark certificates with the relevant products as and when they have been tested.	
<b>Ventilation:</b>	None	
<b>Window Types:</b>	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)	W20015/20016/20017/20018/W20110
	Transom/Mullion(s)	W20032/20034/20035/20037/20039/W20130/W20131/W20133/W20139
	Sash(es)	W20024/20025/20026/20028/20029/W20120/20122
	Rebate Reverser	W20047/20147
<b>HD Profiles :</b>	Outer Frame(s)	W20310/20317
	Transom/Mullion	W20330/20331/20332/20333/20135N
	Sash(es)	W20320/20325
	Rebate Reverser	W20345

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# Kitemark™ Certificate

No. KM 646594

## Hardware -

### Alitherm Heritage & Alitherm Heritage HD Aluminium Alloy Window System

#### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Friction Hinge – Security Defender Sterling Nico ME-Egress Hinge	Smart Systems	ACET070	Smart Systems
Securistyle/Yale hinge protector ASD/ASD-ST	Smart Systems	ACET066	Smart Systems
Shootbolt/mushroom bolt espagnolette locking system ACW201-205 (ACW301-306 HD profiles)	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
Casement Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

#### Tilt/Turn windows

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Sobinco Chrono invasion safe tilt turn gearing , Sobinco Scissor Stay.	Smart Systems	Integral within gearing	Smart Systems
Tilt/Turn Key Locking Handles	Smart Systems	ACET069	Smart Systems

#### Dummy vent windows\*

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

**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 646594

**Alitherm Heritage & Alitherm Heritage HD Aluminium Alloy Window System**  
**Classification for Operational strength in accordance with BS 6375**

Operating forces	Class 1
Resistance to Static Torsion	Class 3
Racking	Class 3
Load Bearing capacity of safety devices	Pass
Impact Resistance	Class 0
Resistance to opening and closing	Class 2

BS 4873:2016 has been issued by BSI under a flexible accreditation scope



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# Kitemark™ Certificate

No. KM 646594

## Size Limitations and Performance Characteristics – to be read in conjunction with fabrication manual 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
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	9A	AE2400	2000+
Projecting top hungs HD Int/Ex Beaded	1750	1400			-	4	7A Int 9A Ex	AE2400	2000+
Projecting side hungs Internally beaded	900	1400	-	16"	-	4	7A	AE2400	2000+
Projecting side hungs Externally beaded	900	1400	-	16"	-	4	9A	AE2400	2000+
Projecting side hungs HD Int/Ex Beaded	838	1750			-	4	7A Int 9A Ex	AE2400	2000+
Tilt/Turn Internally beaded	1200	2100	-	-	-	4	9A	BE2400	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	9A	AE2400	2000+
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilights W2035 T/M Internally Beaded	2100	2100	2.5	-	1450	4	7A	AE2400	2000+
Multilights W2035 T/M Externally Beaded	2100	2100	2.5	-	1450	4	9A	AE2400	2000+
Multilights W21030 T/M Internally Beaded	2100	2100	-			4	7A	AE2400	2000+

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# Kitemark™ Certificate

No. KM 646594

**BS 4873:2016 / PAS 24:2022 - Enhanced security performance requirements for windows in the UK.**

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 400 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 400 Window Manual

**System description:** The windows are thermally broken, internally or externally beaded, with at least one pane of laminated glass meeting the requirements of BS EN 356:2000, Class P1A or higher, where applicable, and shall be glazed in accordance with the BS 6262 series where required, multipoint locking only, with mechanically fixed transoms/mullions. The fitting of any connected or smart device to this product will invalidate this Kitemark Certificate unless BSI has been provided with objective evidence from a competent authority that the device has been tested and certified to EN 303645. BSI will update any Kitemark certificates with the relevant products as and when they have been tested.

**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)	ETC4110/4112/4115/4111/4113/4117/4011/4014/4210
	Transom/Mullion(s)	ETC4130/4135/4136/4031/4230/4232/4236
	Sash(es)	ETC4120/4129/4124/4021/4229
	Rebate Reverser	ETC4146/4147

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# Kitemark™ Certificate

No. KM 646594

## Hardware - Alitherm 400 Aluminium Alloy Window System Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Friction Hinge Securistyle Defender/Sterling Nico ME-Egress Hinge (Yale)	Smart Systems	ACET070	Smart Systems
Securistyle/Yale hinge protector ASD/ASD-ST	Smart Systems	ACET066	Smart Systems
Trojan and ERA Shootbolt/mushroom bolt espagnolette locking system, ERA hook lock	Smart Systems	Espagnolette & keeps: ACET067	Smart Systems
Casement Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

\*Glass retention as specified below.

### Tilt/Turn Windows

Sobinco Chrono Invision Safe Tilt/Turn gearing Sobinco scissor stay	Smart Systems	Integral within gearing	Smart Systems
Tilt/Turn Key locking handles	Smart Systems	ACET069	Smart Systems

### Dummy vent windows\*

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

\*Glass retention as specified below.

**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 646594

**Alitherm 400 Aluminium Alloy Window System**  
**Classification for Operational strength in accordance with BS 6375**

Operating forces	Class 1
Resistance to Static Torsion	Class 3
Racking	Class 3
Load Bearing capacity of safety devices	Pass
Impact Resistance	Class 0
Resistance to opening and closing	Class 2



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# Kitemark™ Certificate

No. KM 646594

## Alitherm 400 Aluminium Alloy Window System

**Size Limitations and Performance Characteristics – to be read in conjunction with fabrication manual**

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:
Sash dimensions for windows with approved sash profiles:									
Projecting top hungs Internally beaded	1400	1500	-	24"	-	4	E1200	AE2400	2000+
Projecting top hungs Externally beaded	1400	1500	-	24"	-	4	E1200	AE2400	2000+
Projecting side hungs Internally beaded	1000	1400	-	16"	-	4	E1200	AE2400	2000+
Projecting side hungs Externally beaded	1000	1400	-	16"	-	4	E1200	AE2400	2000+
Tilt/Turn	1200	2100	-	-	-	4	9A	BE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixeds Internally Beaded	2100	2100	4.2	-	-	4	E1200	AE2400	2000+
Fixeds Externally Beaded	2100	2100	4.2	-	-	4	E1200	AE2400	2000+
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilights ETC4130/4135 T/M Internally Beaded	2100	2100	2.5	-	1450	4	E1200	AE2400	2000+
Multilights ETC4130/4135 T/M Externally Beaded	2100	2100	2.5	-	1450	4	E1200	AE2400	2000+

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# Kitemark™ Certificate

No. KM 646594

**BS 4873:2016 / PAS 24:2022 - Enhanced security performance requirements for windows in the UK.**

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 & Alitherm Heritage HD 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 Heritage & Alitherm Heritage HD Window Manual	
<b>System description:</b>	The windows are thermally broken, internally or externally beaded, with at least one pane of laminated glass meeting the requirements of BS EN 356:2000, Class P1A or higher, where applicable, and shall be glazed in accordance with the BS 6262 series where required, multipoint locking only, with mechanically fixed transoms/mullions. The fitting of any connected or smart device to this product will invalidate this Kitemark Certificate unless BSI has been provided with objective evidence from a competent authority that the device has been tested and certified to EN 303645. BSI will update any Kitemark certificates with the relevant products as and when they have been tested.	
<b>Ventilation:</b>	None	
<b>Window Types:</b>	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)	W20015/20016/20017/20018/W20110
	Transom/Mullion(s)	W20032/20034/20035/20037/20039/W20130/W20131/W20133/W20139
	Sash(es)	W20024/20025/20026/20028/20029/W20120/20122
	Rebate Reverser	W20047/20147
<b>HD Profiles :</b>	Outer Frame(s)	W20310/20317
	Transom/Mullion	W20330/20331/20332/20333/20135N
	Sash(es)	W20320/20325
	Rebate Reverser	W20345

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# Kitemark™ Certificate

No. KM 646594

## Hardware -

### Alitherm Heritage & Alitherm Heritage HD Aluminium Alloy Window System

#### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Friction Hinge – Security Defender Sterling Nico ME-Egress Hinge	Smart Systems	ACET070	Smart Systems
Securistyle/Yale hinge protector ASD/ASD-ST	Smart Systems	ACET066	Smart Systems
Shootbolt/mushroom bolt espagnolette locking system ACW201-205 (ACW301-306 HD profiles)	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
Casement Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

#### Tilt/Turn windows

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Sobinco Chrono invasion safe tilt turn gearing , Sobinco Scissor Stay.	Smart Systems	Integral within gearing	Smart Systems
Tilt/Turn Key Locking Handles	Smart Systems	ACET069	Smart Systems

#### Dummy vent windows\*

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

**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 646594

**Alitherm Heritage & Alitherm Heritage HD Aluminium Alloy Window System**  
**Classification for Operational strength in accordance with BS 6375**

Operating forces	Class 1
Resistance to Static Torsion	Class 3
Racking	Class 3
Load Bearing capacity of safety devices	Pass
Impact Resistance	Class 0
Resistance to opening and closing	Class 2

BS 4873:2016 has been issued by BSI under a flexible accreditation scope



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# Kitemark™ Certificate

No. KM 646594

## Size Limitations and Performance Characteristics – to be read in conjunction with fabrication manual 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
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	9A	AE2400	2000+
Projecting top hungs HD Int/Ex Beaded	1750	1400			-	4	7A Int 9A Ex	AE2400	2000+
Projecting side hungs Internally beaded	900	1400	-	16"	-	4	7A	AE2400	2000+
Projecting side hungs Externally beaded	900	1400	-	16"	-	4	9A	AE2400	2000+
Projecting side hungs HD Int/Ex Beaded	838	1750			-	4	7A Int 9A Ex	AE2400	2000+
Tilt/Turn Internally beaded	1200	2100	-	-	-	4	9A	BE2400	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	9A	AE2400	2000+
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilights W2035 T/M Internally Beaded	2100	2100	2.5	-	1450	4	7A	AE2400	2000+
Multilights W2035 T/M Externally Beaded	2100	2100	2.5	-	1450	4	9A	AE2400	2000+
Multilights W21030 T/M Internally Beaded	2100	2100	-			4	7A	AE2400	2000+

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# Kitemark™ Certificate

No. KM 646594

**BS 4873:2016 / PAS 24:2022 - Enhanced security performance requirements for windows in the UK.**

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

## Visotherm 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 Windows Manual

**System description:** The windows are thermally broken, internally or externally beaded, with at least one pane of laminated glass meeting the requirements of BS EN 356:2000, Class P1A or higher, where applicable, and shall be glazed in accordance with the BS 6262 series where required, multipoint locking only, with mechanically fixed transoms/mullions. The fitting of any connected or smart device to this product will invalidate this Kitemark Certificate unless BSI has been provided with objective evidence from a competent authority that the device has been tested and certified to EN 303645. BSI will update any Kitemark certificates with the relevant products as and when they have been tested.

**Ventilation:** None

**Window Types:** 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)	UL010/UL011
	Transom/Mullion(s)	UL030/031/032/033
	Sash(es)	UL020/023/025/026/027
	Rebate Reverser (Internal glazing)	UL040/043/045

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# Kitemark™ Certificate

No. KM 646594

## Hardware - Visotherm Aluminium Alloy Window System

### Casement windows\*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Friction Hinge Sterling ME-Egress Hinge (Yale)	Smart Systems	ACET070	Smart Systems
Securistyle/Yale hinge protector ASD/ASD-ST	Smart Systems	ACET067	Smart Systems
ERA Hook lock	Smart Systems	Espagnolette & keeps: ACET066	Smart Systems
Casement Key locking handles	Smart Systems	ACET069	Smart Systems
Run-up blocks 4 off per sash	-		

**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.

### Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Resistance to Static Torsion	Class 3
Racking	Class 3
Load Bearing capacity of safety devices	Pass
Impact Resistance	Class 0
Resistance to opening and closing	Class 2

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# Kitemark™ Certificate

No. KM 646594

## Size Limitations and Performance Characteristics – to be read in conjunction with fabrication manual Visotherm 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
Sash dimensions for windows with approved sash profiles:									
Projecting top hungs	1440	2500	-	24"	-	3	8A	A5	2000
Projecting side hungs	838	1440	-	16"	-	4	E1050	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixed	2100	2100	4.2	-	-	3	E1050	AE	2000
Overall dimensions for approved outer frames & transom/mullion profiles:									
Multilights Transom/Mullion	2400	2100	3.1	-	1345	4	E1050	AE	2000

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