

Kitemark™ Certificate

This is to certify that:

3D Aluminium Plas Limited
Horace House
Oakfields Industrial Estate
Witney
OX29 4TX
United Kingdom

Holds Certificate Number:

KM 634352

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:

Shahm Barhom, Group Product Certification Director

First Issued: 2015-05-13

Latest Issue: 2025-07-22

Effective Date: 2025-07-22

Expiry Date: 2026-08-31



Kitemark™ Certificate

No. KM 634352

BS 4873:2016 - Aluminium alloy windows and doorsets.

This Certificate covers the fabrication of windows from the range of profiles and components supplied by Hydro Building Systems UK Limited under Certificate Number KM 74159.

Technal DF75 Si Aluminium Alloy Window Systems

Technal FZ75 Si Aluminium Alloy Window System

Fabrication and Installation:

Fabricated and installed in accordance with the latest issue(s) of the following Hydro Building Systems UK Limited controlled manual incorporating Scope of Certification:
75mm Casement Window, 75mm Si Reversible Window, 75mm Si Casement Window, 75mm Si Tilt Before Turn Window, 75 Si Pivot Window

Size Limitations and Performance Characteristics

Technal DF75 Si Dualframe Aluminium Alloy Window Systems

Technal FZ75 Si 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 Standard vent	1315	1220	-	-	2	E1200	5	2000
Projecting top hungs HD vent	1720	1720	-	-	4	9A	C4	2000
Projecting side hungs Standard vent	665	1265	-	-	4	9A	2000	2000
Projecting side hungs HD vent	838	1828	-	-	4	9A	2000	2000
Projecting side hungs Reverse Rebated Fixed	646	1255	-	-	4	9A	C5	2000
Bottom Hung Open In	2000	701	-	-	3	E900	C5	2000
Reversibles	1400	1400	-	-	4	9A	5	2000
TBT	1453 1053	1953 2453	-	-	4	E1050	E2400	2400
Dummy vents	1497	1497	5272	-	(600)	(600)	(2400)	2400 Special*

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Kitemark™ Certificate

No. KM 634352

Size Limitations and Performance Characteristics

Technal DF75 Si Dualframe Aluminium Alloy Window Systems

Technal FZ75 Si 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
Overall dimensions for windows with approved outer frame profiles:								
Horizontal Pivot	1810	1810	7240	-	4	AE900	C5	2000
Vertical Pivot	1810	1810	7240	-	4	8A	C5	2000
Fixeds	2240	2240	8960	-	4	9A	C5	2000
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilights	3000	3000	10000	#	-	-	-	-

* as given in Table 1 of BS 6375-1:1989

Mullion and transom strengths are to be calculated for each projects application in accordance with current standards and design codes.

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Technal Crown Aluminium Alloy Window Systems

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Hydro Building Systems UK Limited controlled manual incorporating Scope of Certification: Crown Casement Window

Size Limitations and Performance Characteristics Technal Crown Aluminium Alloy Window Systems

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	1200	1355	-	-	3	9A	B5	2000
Projecting side hungs	756	1359	-	-	4	9A	C5	2000
Overall dimensions for windows with approved outer frame profiles:								
Fixeds	2236	2236	8944	-	4	9A	C5	2000
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilights	2200	1390	7180	#	-	-	-	-

Mullion and transom strengths are to be calculated for each project application in accordance with current standards and design codes

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Technal FY65 Aluminium Alloy Window Systems

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Hydro Building Systems UK Limited controlled manual incorporating Scope of Certification:
Technal Casement Window and Technal Parallel Window

Size Limitations and Performance Characteristics

Technal FY65 Aluminium Alloy Window Systems

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	1500	1800	-	-	4	E1050	C4	2000
Projecting side hungs HD vent	756	1359	-	-	4	9A	C5	2000
Parallel vent	1500	2044	-	-	4	E1200	CE2400	2000+
Tilt/Turns	1600	1800	-	-	2	8A	BE2400	2000+
Overall dimensions for windows with approved outer frame profiles:								
Fixeds	725	1130	-	-	4	E1050	C4	2000
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilights	2200	1390	7180	#	-	-	-	-

Mullion and transom strengths are to be calculated for each project application in accordance with current standards and design codes

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Wicline Evo 75 Aluminium Alloy Window Systems

Fabrication and Installation:

Fabricated and installed in accordance with the latest issue(s) of the following Hydro Building Systems UK Limited controlled manual incorporating Scope of Certification:
Wicona Casement Window

Size Limitations and Performance Characteristics Wicline Evo 75 Aluminium Alloy Window Systems

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	1800	-	-	4	E750	C5	2000
Projecting side hungs	850	1800	-	-	4	9A	C4	2000

Mullion and transom strengths are to be calculated for each project application in accordance with current standards and design codes

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Kitemark™ Certificate

No. KM 634352

BS 4873:2016 - Aluminium alloy windows and doorsets.

This Certificate covers the fabrication of windows from the range of profiles and components supplied by **Bailey CW Limited** under Certificate Number **KM 828849**.

System(s):	Comar 5Pi Aluminium Alloy Window System
Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation: Comar 5Pi Window System Technical Manual
System description:	The windows are internally glazed only, double glazed only, multipoint locking only with mechanically fixed transoms/mullions
Ventilation:	None
Window Types:	Tilt/turn windows Multilight windows comprising opening light(s) and/or fixed light(s)

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Kitemark™ Certificate

No. KM 634352

Comar 5Pi Aluminium Alloy Window System Size Limitations and Performance characteristics

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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 (except*)
Sash dimensions for approved tilt/turn sash profiles:								
Tilt/turns	1100	1600	-	-	4	7A	2400	2400*
Overall dimensions for approved outer frames & transom/mullion profiles:								
Multilight Tilt & Turn CS 435 Mullion	1200	1600	-	1550	4	5A	A5	2000

*as given in Table 1 of BS 6375-1:2004

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Kitemark™ Certificate

No. KM 634352

BS 4873:2016 - Aluminium alloy windows and doorsets.

This Certificate covers the fabrication of windows from the range of profiles and components supplied by **Bailey CW Limited** under Certificate Number **KM 828849**.

System(s):	Comar 5Pi Advanced Aluminium Alloy Window System
Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation: Comar 5Pi Advanced Window System Technical Manual
System description:	The windows are internally glazed only, double glazed only, multipoint locking only with mechanically fixed transoms/mullions
Ventilation:	None
Window Types:	Casement windows

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Comar 5Pi Advanced Aluminium Alloy Window System Size Limitations and Performance characteristics

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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 approved casement sash profiles:								
Projecting top hungs	1180	1430	-	-	4	9A	A5	2000

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BS 4873:2016 - Aluminium alloy windows and doorsets.

This Certificate covers the fabrication of windows from the range of profiles and components supplied by **Bailey CW Limited** under Certificate Number **KM 828849**.

System(s):	Comar 5Pi ECO 55/75 Aluminium Alloy Window System
Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation: Comar 5Pi ECO Window System Technical Manual
System description:	The windows are internally glazed only, double glazed only, multipoint locking only with mechanically fixed transoms/mullions
Ventilation:	None
Window Types:	Casement windows Multilight windows comprising opening light(s) and/or fixed light(s)

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Kitemark™ Certificate

No. KM 634352

Comar 5Pi ECO 55 & 75 Aluminium Alloy Window System Size Limitations and Performance characteristics

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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 (except*)
Sash dimensions for approved casement sash profiles:								
Projecting top hungs	1100	1116	-	-	4	7A	2400	2400*
Overall dimensions for approved outer frames & transom/mullion profiles:								
Multilight Projecting side hung next to Projecting side hung Mullion CS 835	1305	1330	-	1270	2	E750	AE	2400
Multilight Projecting side hung next to Fixed Mullion CS 835	1300	1320	-	1235	4	E600	E2400	2400

*as given in Table 1 of BS 6375-1:2004

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BS 4873:2016 - Aluminium alloy windows and doorsets.

This Certificate covers the fabrication of windows from the range of profiles and components supplied by **Bailey CW Limited** under Certificate Number **KM 828849**.

System(s): **Comar 5Pi ECO+ Aluminium Alloy Window System**

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation:

Comar 5Pi ECO+ Window System Technical Manual

System description: The windows are internally glazed only, double glazed only, multipoint locking only with mechanically fixed transoms/mullions

Ventilation: None

Window Types: Casement windows

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Kitemark™ Certificate

No. KM 634352

Comar 5Pi ECO+ Aluminium Alloy Window System Size Limitations and Performance characteristics

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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 approved casement sash profiles:								
Projecting top hungs	1152	1152	-	-	4	E750	2400	2400

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System(s):	Comar 9Pi Aluminium Alloy Window System
Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation: Comar 9Pi Window System Technical Manual
System description:	The windows are internally glazed only, double glazed only, multipoint locking only with mechanically fixed transoms/mullions
Ventilation:	None
Window Types:	Casement windows Tilt/turn windows

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Comar 9Pi Aluminium Alloy Window System Size Limitations and Performance characteristics

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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 approved casement sash profiles:								
Projecting top hungs	995	1595	-	-	4	E900	A5	2000
Projecting side hungs	1180	1440	-	-	4	9A	AE	2400
Sash dimensions for approved tilt/turn sash profiles:								
Tilt/turns	1180	1440	-	-	4	9A	AE	2400
Tilt/turns	1040	1650	-	-	4	E750	A5	2000

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BS 4873:2016 - Aluminium alloy windows and doorsets.

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System(s):	Comar 10 Passivhaus Tilt/Turn Aluminium Alloy Window System
Fabrication and Installation:	Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation: Comar 10 Passivhaus Tilt/Turn Window System Technical Manual
System description:	The windows are double or triple glazed , internally glazed only, multipoint locking only
Ventilation:	None
Window Types:	Tilt/turn windows

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Kitemark™ Certificate

No. KM 634352

Comar 10 Passivhaus Tilt/Turn Aluminium Alloy Window System Size Limitations and Performance characteristics

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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 (except*)
Overall dimensions for approved tilt/turn outer frames:								
Tilt/turns	1280	2220	-	-	4	9A	C5/B5	1600*

*as given in Table 1 of BS 6375-1:2004

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No. KM 634352

BS 4873:2016 - 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 400 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 400 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 400 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	E1200	AE2400	2000+
Projecting top hungs Externally Beaded	1400	1400	-	-	4	E1200	AE2400	2000+
Projecting side hungs Internally Beaded	600	1400	-	-	4	E1200	AE2400	2000+
Projecting side hungs Externally Beaded	600	1400	-	-	4	E1200	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:								
Fixeds Internally Beaded	2100	2100	8400	-	4	E1200	AE2400	2000+
Fixeds Externally Beaded	2100	2100	8400	-	4	E1200	AE2400	2000+
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilights, ETC4130/4135 T/M Internally Beaded	2100	2100	7100	1450	4	E1200	AE2400	2000+
Multilights, ETC4130/4135 T/M Externally Beaded	2100	2100	7100	1450	4	E1200	AE2400	2000+

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

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A member of BSI Group of Companies.

Kitemark™ Certificate

No. KM 634352

BS 4873:2016 - 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 500 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 500 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 and dummy casement windows Multilight windows comprising opening light(s) with or without fixed light(s)

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Kitemark™ Certificate

No. KM 634352

Size Limitations and Performance Characteristics Alitherm 500 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:								
Top hungs Internally Beaded	1400	1400	-	-	2	E900	AE2400	2000+
Side hungs Internally Beaded	700	1400	-	-	4	E1050	AE2400	2000+
Dummy Sash Internally Beaded	1400	1400	-	1400	4	E1050	AE2400	2000+

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Kitemark™ Certificate

No. KM 634352

BS 4873:2016 - 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 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 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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Kitemark™ Certificate

No. KM 634352

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	9A	AE2400	2000+
Projecting top hungs Externally beaded	1400	1500	-	-	4	E1200	AE2400	2000+
Projecting side hungs Internally beaded	1000	1400	-	-	4	9A	AE2400	2000+
Projecting side hungs Externally beaded	1000	1400	-	-	4	E1200	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	E1200	AE2400	2000+
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilights, ETC630 T/M Internally beaded	2100	2100	7100	1450	4	9A	AE2400	2000+
Multilights ETC630 T/M Externally beaded	2100	2100	7100	1450	4	E1200	AE2400	2000+

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Kitemark™ Certificate

No. KM 634352

BS 4873:2016 - 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 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, double glazed only, internally beaded, multipoint locking only, with mechanically fixed transoms/mullions
Ventilation:	None
Window Types:	Casement windows Parallel opening windows Fully reversible windows Fixed windows

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Kitemark™ Certificate

No. KM 634352

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	2100	1600			4	9A	AE2400	2000+
Projecting Side Hungs	840	2100			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+

Maximum sizes subject to Ix/Iy checks and maximum weights -Side-hung 55kgs. Top-hung – 100kgs (check Iy)
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Kitemark™ Certificate

No. KM 634352

BS 4873:2016 - 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 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, 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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Kitemark™ Certificate

No. KM 634352

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	8400	-	3	E1050	AE	2000
Overall dimensions for windows with approved outer frame & transom/mullion profiles:								
Multilights, ETC831 T/M reinforcement	2100	2100	7100	1450	3	E1050	AE	2000

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Kitemark™ Certificate

No. KM 634352

BS 4873:2016 - 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 Heritage & Alitherm Heritage HD 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 & Alitherm Heritage HD 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
Tilt/Turn windows
Fixed windows
Multilight windows comprising opening light(s) with or without fixed light(s)

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Kitemark™ Certificate

No. KM 634352

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	7A	AE2400	2000+
Projecting top hungs Externally Beaded	1400	1400	-	-	4	9A	AE2400	2000+
Projecting top hng HD Int/Ex Beaded	1750	1400			4	7A	AE2400	2000+
Projecting side hungs Internally Beaded	600	1400	-	-	4	7A	AE2400	2000+
Projecting side hungs Externally Beaded	600	1400	-	-	4	5A	AE2400	2000+
Projecting side hungs HD Externally Beaded	838	1750			4	9A	AE2400	2000+
Tilt/Turns Internally Beaded	1200	2100	-	-	4	9A	BE2400	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	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	7A	AE2400	2000+
Multilight, W2035 T/M Externally Beaded	2100	2100	7100	1450	4	9A	AE2400	2000+
Multilight W21030 T/M Internally Beaded	2100	2100	-	-	4	7A	AE2400	2000+

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A member of BSI Group of Companies.

Kitemark™ Certificate

This is to certify that:

3D Aluminium Plas Limited
Horace House
Oakfields Industrial Estate
Witney
OX29 4TX
United Kingdom

Holds Certificate Number:

KM 634359

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: 2015-05-13

Latest Issue: 2025-07-22

Effective Date: 2025-07-22

Expiry Date: 2026-08-31



Kitemark™ Certificate

No. KM 634359

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 Hydro Building Systems UK Limited under Certificate Number KM 74141.

Technal DF75 Si Aluminium Alloy Window System

Fabrication and installation: Fabricated and installed in accordance with the latest issue(s) of the following Hydro Building Systems Limited controlled manual(s) incorporating the Scope of Certification:
75 Casement Window, 75 Si Reversible Window, 75 Si Casement Window, 75 Si Tilt Before Turn Window, 75 Si Pivot Window

System Description for Windows

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.

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.

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 634359

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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 (except *)
Sash dimensions for windows with approved sash profiles:									
Projecting top hungs	1315	1220	-	24"	-	2	E1200	5	2000
Standard vent									
Projecting top hungs	1720	1720	-	22"	-	4	9A	C4	2000
HD vent									
Projecting side hungs	665	1265	-	16"	-	4	9A	2000	2000
Standard vent									
Projecting side hungs	838	1828	-	16"	-	4	9A	2000	2000
HD vent									
Projecting side hungs	646	1255	-	16"	-	4	9A	C5	2000
Reverse Rebated Fixed									
Bottom Hung Open in	2000	701	-	-	-	3	E900	C5	2000
Reversibles	1400	1400	-	-	-	4	9A	5	2000
TBTs	1453 1053	1953 2453	-	-	-	4	E1050	E2400	2400
Dummy vents	1497	1497	2.22	-	-	(600)	(600)	(2400)	2400 Special*

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Kitemark™ Certificate

No. KM 634359

Size Limitations and Performance Characteristics Technal DF75 Si Aluminium Alloy Window System

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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 (except *)
Overall dimensions for windows with approved outer frame profiles:									
Horizontal Pivot	1810	1810	3.24	-	-	4	AE900	C5	2000
Vertical Pivot	1810	1810	3.24	-	-	4	8A	C5	2000
Fixeds	2240	2240	5.02	-	-	4	9A	C5	2000
Overall dimensions for windows with approved outer frame & transom/mullion profiles:									
Multilights,	3000	3000	6.00	-	#	-	-	-	-

* as given in Table 1 of BS 6375-1:1989

Mullion and transom strengths are to be calculated for each project application in accordance with current standards and design codes

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Kitemark™ Certificate

No. KM 634359

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 Hydro Building Systems UK Limited under Certificate Number KM 74141.

Technal Crown Aluminium Alloy Window System

Fabrication and installation: Fabricated and installed in accordance with the latest issue(s) of the following Hydro Building Systems Limited controlled manual incorporating Scope of Certification:
Crown Casement Window

System Description for Windows

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.

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.

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 634359

Size Limitations and Performance Characteristics Technal Crown Aluminium Alloy Window System

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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	1200	1355	-	24"	-	3	9A	B5	2000
Projecting side hungs HD vent	756	1359	-	16"	-	4	9A	C5	2000
Overall dimensions for windows with approved outer frame profiles:									
Fixeds	2236	2236	-	-	-	4	9A	C5	2000
Overall dimensions for windows with approved outer frame & transom/mullion profiles:									
Multilights,	2200	1390	3,06	-	#	-	-	-	-

Mullion and transom strengths are to be calculated for each project application in accordance with current standards and design codes

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Kitemark™ Certificate

No. KM 634359

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 Hydro Building Systems UK Limited under Certificate Number KM 74141.

Technal FY65 Aluminium Alloy Window System

Fabrication and installation: Fabricated and installed in accordance with the latest issue(s) of the following Hydro Building Systems Limited controlled manual incorporating Scope of Certification:
Technal Casement Window and Technal Parallel Window

System Description for Windows

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.

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.

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 634359

Window Type	Length (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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	1500	1800	-	28"	-	4	E1050	C4	2000
Projecting side hungs HD vent	756	1359	-	16"	-	4	9A	C5	2000
Parallel vent	1500	2044	-	-	-	4	E1200	CE2400	2000+
Tilt/Turns	1600	1800	-	-	-	2	8A	BE2400	2000+
Overall dimensions for windows with approved outer frame profiles:									
Fixeds	725	1130	-	-	-	4	E1050	C4	2000
Overall dimensions for windows with approved outer frame & transom/mullion profiles:									
Multilights	2400	2550	-	-	#	-	-	-	-

Mullion and transom strengths are to be calculated for each project application in accordance with current standards and design codes

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

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Kitemark™ Certificate

No. KM 634359

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 **Bailey CW Limited** under Certificate Number **KM 828848**.

System(s): **Comar 5Pi Aluminium Alloy Window System**

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation:
Comar 5Pi Window System Technical Manual Comar 5Pi Enhanced Security Document

System description and Approved Hardware: The windows are internally glazed only, either double or triple glazed 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, Comar security multipoint locking 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

Window Types: Tilt/turn windows - Comar Enhanced Security Hardware
Multilight windows comprising opening light(s) and/or fixed light(s)

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 634359

Size Limitations and Performance characteristics

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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
Sash dimensions for approved tilt/turn sash profiles:								
Tilt/turns	1100	1600	-	-	4	7A	2400	2400
Overall dimensions for approved outer frames & transom/mullion profiles:								
Multilight Tilt & Turn CS 435 Mullion	1200	1600	-	1550	4	5A	A5	2000

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Kitemark™ Certificate

No. KM 634359

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 **Bailey CW Limited** under Certificate Number **KM 828848**.

System(s): **Comar 5Pi ECO 55/75 Aluminium Alloy Window System**

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation:
Comar 5Pi ECO Window System Technical Manual
Comar 5Pi ECO Enhanced Security Document

System description and Approved Hardware: The windows are internally glazed only, either double or triple glazed 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, and are fitted with Comar Security Hardware 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.

Window Types: Casement windows - Comar Security Hardware
Multilight windows comprising opening light(s) and/or fixed light(s)

First Issued: 2015-05-13

Latest Issue: 2025-07-22

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Kitemark™ Certificate

No. KM 634359

Comar 5Pi ECO 55/75 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

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area (m ²) - 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
Sash dimensions for approved casement sash profiles:								
Projecting top hungs	1100	1116	-	-	4	7A	2400	2400
Overall dimensions for approved outer frames & transom/mullion profiles:								
Multilight -Projecting side hung next to Projecting side hung Mullion CS 835	1305	1330	-	1270	2	E750	AE	2400
Multilight-Projecting side hung next to Fixed Mullion CS 835	1300	1320	-	1235	4	E600	E2400	2400

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Kitemark™ Certificate

No. KM 634359

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 **Bailey CW Limited** under Certificate Number **KM 828848.**

System(s): **Comar 5Pi ECO+ Aluminium Alloy Window System**

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation:
Comar 5Pi ECO+ Window System Technical Manual
Comar 5Pi ECO+ Enhanced Security Document

System description: The windows are internally glazed only, either double or triple glazed 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, and are fitted with ERA (LK5846XKIT) Locking and Securistyle (HN806XSLF) hinges 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.

Window Types: Casement windows

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Kitemark™ Certificate

No. KM 634359

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

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area (m ²) - 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
Sash dimensions for approved casement sash profiles:								
Projecting top hungs	1152	1152	-	-	4	E750	2400	2400

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

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Kitemark™ Certificate

No. KM 634359

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 **Bailey CW Limited** under Certificate Number **KM 828848.**

System(s): **Comar 9Pi Aluminium Alloy Window System**

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation:

Comar 9Pi Window System Technical Manual
Comar 9Pi Enhanced Security Document

System description: The windows are internally glazed, either double or triple glazed 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. Casements are fitted with Giesse locking system operated by a key locking handle and Giesse hinges or Winlock locking system operated by a key locking handle and Sterling hinges. Tilt/Turns are fitted with Giesse T/T locking system operated by a key locking handle and T/T Giesse hinges or Sobinco T/T gearing operated by a key locking handle, and have 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.

Window Types: Casement windows
Tilt/turn windows

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Kitemark™ Certificate

No. KM 634359

Comar 9Pi 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

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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
Sash dimensions for approved casement sash profiles:								
Projecting top hungs	995	1595	-	-	4	E900	A5	2000
Projecting side hungs	1180	1440	-	-	4	9A	AE	2400
Overall dimensions for approved outer frames & transom/mullion profiles:								
Tilt/turns	1230	1480	-	-	4	9A	AE	2400
Tilt/turns	1040	1650	-	-	4	E750	A5	2000

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Kitemark™ Certificate

No. KM 634359

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 **Bailey CW Limited** under Certificate Number **KM 828848.**

System(s): **Comar 10 Passivhaus Tilt/Turn Aluminium Alloy Window System**

Fabrication and Installation: Fabricated and installed in accordance with the latest issue(s) of the following Comar Architectural Aluminium Systems controlled documentation:
Comar 10 Passivhaus Tilt/Turn Window System Technical Manual
Comar 10 Passivhaus Tilt/Turn Enhanced Security Document

System description and Approved Hardware: The windows are internally glazed, either double or triple glazed 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, using Siegenia Concealed Hinge Tilt Turn Titan AF / PW001-PW077 and Comar Tilt Turn Locking Handle

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.

Window Types: Tilt/turn windows

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Effective Date: 2025-07-22

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Kitemark™ Certificate

No. KM 634359

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

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Area(m ²) - 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
Overall dimensions for approved tilt/turn outer frames:								
Tilt/turns	1280	2220	-	-	4	9A	C5/B5	1600

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Kitemark™ Certificate

No. KM 634359

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)

Profiles:

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 634359

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 634359

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 634359

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 ²) - 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 634359

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 500 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 500 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 and dummy casement windows
Multilight windows comprising opening light(s) and/or dummy vent(s)

Profiles:

Outer Frame(s)	ETC511
Transom/Mullion(s)	ETC531
Sash(es)	ETC521

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Kitemark™ Certificate

No. KM 634359

Hardware - Alitherm 500 Aluminium Alloy Window System

Casement windows*

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Butt Hinge ACET552	Smart Systems	M4 x 15mm –ACET490	Smart Systems
Trojan Reverse espagnolette locking system –ACET501-505	Smart Systems	Espagnolette & keeps: ACET064	Smart Systems
ACET460, 465. Key locking handles	Smart Systems	M5 x 12mm	Smart Systems
Run-up blocks ACET580 4 off per sash	Smart Systems-	ACET490	Smart Systems
Mullion anti-twist clip ACET157	Smart Systems		

*Glass retention as specified below.

Glass retention: 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.

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Kitemark™ Certificate

No. KM 634359

Alitherm 500 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 ²) - 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:									
Top hungs Internally beaded	1400	1400	-	-	-	2	E900	AE2400	2000+
Side hungs Internally beaded	700	1400	-	-	-	4	E1050	AE2400	2000+
Dummy Sash Internally beaded	1400	1400	-	-	1400	4	E1050	AE2400	2000+

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

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Kitemark™ Certificate

No. KM 634359

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

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, 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)

Profiles:

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 634359

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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Kitemark™ Certificate

No. KM 634359

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 634359

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 ²) - 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 634359

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 700 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, 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
Parallel opening windows
Fully reversible windows

Profiles: Fixed windows
Outer Frame(s) ETC710/ETC716/ETC717/ETC718
Sash(es) ETC720/ETC721/ETC726
Mullion/Transom ETC 730/ ETC733/ETC736/
ETC737
Rebate Reverser ETC745/ETC746/ETC747

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Kitemark™ Certificate

No. KM 634359

Hardware - Alitherm 700 Aluminium Alloy Window System

Hardware Reference	Hardware Supplier	Fixing Specification	Fixing Supplier
Friction Hinge Securistyle Parallel Plus Sterling Nico ME-Egress Hinge (Yale)	Smart Systems	ACET070	Smart Systems
Securistyle/Yale hinge protector ASD/ASD-ST	Smart Systems	ACET066	Smart Systems
Locking Kit ACET710	Smart Systems		Smart Systems
Casement 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

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Kitemark™ Certificate

No. KM 634359

Alitherm 700 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 ²) - 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	2100	1600	-	-	-	4	9A	AE2400	2000+
Projecting Side Hungs	838	2100	-	-	-	4	9A	AE2400	2000+
Parallel	1800	2100	3.7	-	-	4	9A	AE2400	2000+
Reversible	1500	1558	2.2	-	-	4	9A	AE2400	2000+
Fixed	2100	2100	4.2	-	-	4	9A	AE2400	2000+

Maximum sizes subject to lx/ly checks and maximum weights -Side-hung 55kgs. Top-hung – 100kgs (check by BS 4873:2016 has been issued by BSI under a flexible accreditation scope

First Issued: 2015-05-13

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Kitemark™ Certificate

No. KM 634359

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 800 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 and Doors 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)

Profiles:	Outer Frame(s)	ETC810/ETC811/ETC812/ETC813/ ETC814/ETC815/ETC816/ETC817/ETC819 ETC821/
	Transom/Mullion(s)	ETC830/ETC832/ETC834/ETC835/ETC8350/ETC839/ Sash(es)
	Rebate Reverser (Internal glazing)	ETC821/ETC823/ETC824/ETC826/ETC827/ETC8252/ ETC828/ETC829/ETC8201/ETC8250/ETC8255 ETC845/ETC846

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Kitemark™ Certificate

No. KM 634359

Hardware - Alitherm 800 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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Kitemark™ Certificate

No. KM 634359

Alitherm 800 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 ²) - 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	1400	1300	-	24"	-	3	8A	A2	800
Projecting side hungs	865	1400	-	16"	-	3	E1050	AE	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:									
Multilight ETC831 Transom/Mullion	2100	2100	2.9	-	1450	3	E1050	AE	2000

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Kitemark™ Certificate

No. KM 634359

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

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 & Alitherm Heritage HD 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)

Profiles:	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
HD Profiles :	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 634359

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 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: 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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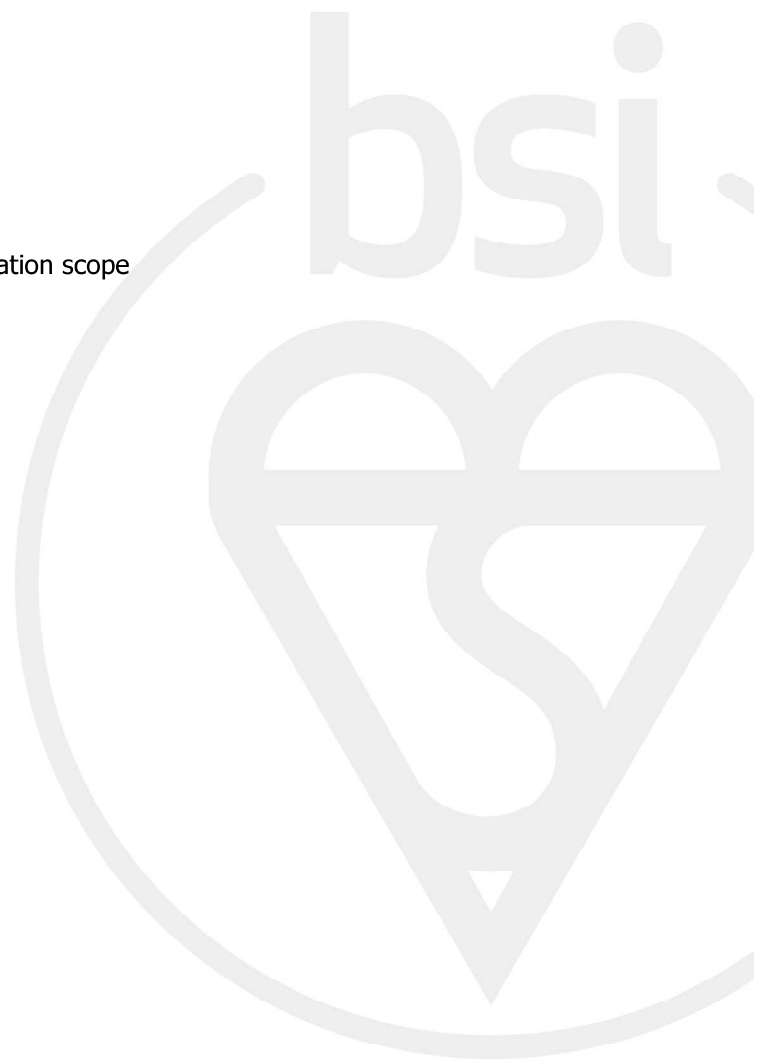
Kitemark™ Certificate

No. KM 634359

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 634359

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 ²) - Maximum Friction Stays	Transom/Mullio (up including)	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 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+

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

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Latest Issue: 2025-07-22

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Kitemark™ Certificate

This is to certify that:

3D Aluminium Plas Limited
Horace House
Oakfields Industrial Estate
Witney
OX29 4TX
United Kingdom

Holds Certificate Number:

KM 634360

In respect of:

BS 4873/PAS 24
Enhanced Security Aluminium Door 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: 2015-05-13

Latest Issue: 2025-07-22

Effective Date: 2025-07-22

Expiry Date: 2026-08-31



Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Hydro Building Systems UK Limited under Certificate Number KM 90215.

Technal 75mm Dualframe Aluminium Alloy Residential Door System

Fabricated and installed in accordance with the latest issue of the following Hydro Building Systems Limited manual incorporating the Scope of Certification:

Dualframe 75mm High Performance Entrance Door Product Manual

System Description

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

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

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

First Issued: 2015-05-13

Latest Issue: 2025-07-22

Effective Date: 2025-07-22

Expiry Date: 2026-08-31

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Kitemark™ Certificate

No. KM 634360

Size Limitations and Performance Characteristics

Dual secure

Door Type	Length (mm) - Maximum	Height (mm) - Maximum (including sill)	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009 (except *)
Sash dimensions for doors with approved outer frame and sash profiles:						
Open Out Standard Threshold Single Leaf Doors	1250	2500	2	9A	C4	1600
All other Single leaf doors (Incl Low Threshold)	1250	2500	2	7A	C4	1600
Overall dimensions for doors with approved outer frame and sash profiles:						
Open Out Standard Threshold Double Leaf Doors	2446	2500	2	9A	C3	1200
All other Double leaf doors (Incl Low Threshold)	2446	2500	2	3A	A2	1200

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Hydro Building Systems UK Limited under Certificate Number KM 90215.

Technal Crown Bifolding Doorset Technal Slim Line Crown Bifolding Doorset

Fabricated and installed in accordance with the latest issue of the following Hydro Building Systems Limited manual incorporating the Scope of Certification:

Technal Crown Bifolding Door Product Manual.

System Description

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

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

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

First Issued: 2015-05-13

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Kitemark™ Certificate

No. KM 634360

Size Limitations and Performance Characteristics

Door Type	Length (mm) - Maximum	Height (mm) - Maximum (including sill)	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009
Sash dimensions for doors with approved outer frame and sash profiles:						
Individual Leaf	1021	2425	2	6A	C4	1600
Slim Line Sash dimensions for doors with approved outer frame and sash profiles:						
Individual Leaf	1021	2425	3	4A	C3	1200

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Hydro Building Systems UK Limited under Certificate Number KM 90215.

Technal Crown Aluminium Alloy Residential Door System

Fabricated and installed in accordance with the latest issue of the following Hydro Building Systems Limited manual incorporating the Scope of Certification:

Crown Single and Double Leaf Entrance Door Product Manual.

System Description

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

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

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

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Kitemark™ Certificate

No. KM 634360

Size Limitations and Performance Characteristics

Door Type	Length (mm) - Maximum	Height (mm) - Maximum (including sill)	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009 (except *)
Sash dimensions for doors with approved outer frame and sash profiles:						
Open In Std Threshold Single leaf doors	1000	2155	2	5A	C3	1200
All other Single Leaf Doors Incl. Low Threshold	1000	2155	2	3A	C3	1200
Overall dimensions for doors with approved outer frame and sash profiles:						
Open Out Std Threshold Double leaf doors	2080	2230	2	8A	A3	1200
All other Double Leaf Doors Incl. Low Threshold	2080	2230	2	3A	A3	1200
Individual leaf maximum size	1005	2140	-	-	-	-

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Hydro Building Systems UK Limited under Certificate Number KM 90215.

Technal STII Commercial Doorset

Fabricated and installed in accordance with the latest issue of the following Hydro Building Systems Limited manual incorporating the Scope of Certification:
Technal STII Product Manual.

System Description

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

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

Hardware

Single/Double Door Manual Locking	Multipoint Lock (CFC154) and keeps (STP335), Level/Lever security handle set (DFP1010) Security Handle Supplementary Fixing Pack (STP338) and Kitemark Cylinder (DFP1197) Slave Leaf additionally Shootbolt Gear Box (STP314), Rods (CDP252 or CFP161), Rod Head Keep (STP315) and Rod Threshold Keep (STP332). Or 2 x Single Point Security Deadlocks (STP309) and Keeps (STP331) and 2 x 3 Star Euro Cylinders (STP385) or (STP386) Slave Leaf additionally Shootbolt Gear Box (STP314), Rods (CDP252) or (CFP161), Rod Head Keep (STP315) and Rod Threshold Keep (STP332).
Single/Double Door Surface Mounted Panic Bolt	Panic bolt Kits (STP 374) or (STP 375), Panic Bolt Transom Bracket (STP377 single leaf) (STP378 Double Leaf), External Access Device with BS EN 1303:2005 Rim Cylinder (STP418)
Single/Double Door Electromagnetic lock	Single Door 2 x Electromagnetic locks (STP394), Fixing bracket pack (STP390), Reinforcing Bracket pack (STP391), 2x stile tapping plates (STP392) Double Door 2 x Electromagnetic locks (STP 394), Continuous fixing bracket (ST292), Continuous Bracket tapping plates (STP396), 2 x top rail tapping plates (STP 393), 2 x Bottom Rail Deadlock kits (STP 363) 2 x 3 Star Euro Cylinders (STP385) or (STP 386)

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Kitemark™ Certificate

No. KM 634360

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

Size Limitations and Performance Characteristics

Door Type	Length (mm) - Maximum	Height (mm) - Maximum (including sill)	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375- 1:2009
Sash dimensions for doors with approved outer frame and sash profiles:						
Individual Leaf	1032	2400	3	3A	B5	1200

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 593756.

System(s): Comar 7Pi Eco Door System

Door Type(s): Single leaf hinged doors

Fabrication and Installation: Fabricated and installed in accordance with the latest issue of the following controlled manual:
Comar Architectural Aluminium Systems, Performance Framing System, Framing, Windows, Doors (Comar 7Pi Eco) Control Manual.

System description: The door assemblies are single leaf open in or out, glaze in double or triple glazed 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 with standard threshold. Doors are classified D

Approved Hardware Fitted with Comar Security Hardware and a handle and cylinder or cylinder guard combination achieving a minimum of 3* in accordance with TS 007.
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

Classification for Operational strength in accordance with BS 6375

Operating forces	Vertical Load	Resistance to Static Torsion	Soft and Heavy body Impact	Hard Body Impact	Load Bearing capacity of safety devices	Closure against obstruction	Resistance to opening and closing
Class1	Class 2	Class 2	Class 2	Class 2	N/A	Pass	Class 4

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Kitemark™ Certificate

No. KM 634360

Size Limitations and Performance Characteristics

Door Type	Length (mm) - Maximum	Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table ¹ of BS 6375-1
Sash dimensions for doors with approved outer frame and sash profiles:						
Single doors open in & open out	909	2139	3	E900	A3	1200

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 593756.

System(s): Comar 9Pi Door System

Door Type(s): Single leaf hinged doors

Fabrication and Installation: Fabricated and installed in accordance with the latest issue of the following controlled manual:
Comar Architectural Aluminium Systems, Performance Framing System, Framing, Windows, Doors (Comar 9Pi Door System) Control Manual.

System description: The door assemblies are single leaf open in or out, glaze in double or triple glazed 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 with standard threshold with or without sidescreen. Doors are classified D

Approved Hardware Fitted with Comar Security Hardware and a handle and cylinder or cylinder guard combination achieving a minimum of 3* in accordance with TS 007.
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

Classification for Operational strength in accordance with BS 6375

Operating forces	Vertical Load	Resistance to Static Torsion	Soft and Heavy body Impact	Hard Body Impact	Load Bearing capacity of safety devices	Closure against obstruction	Resistance to opening and closing
Class1	Class 2	Class 2	Class 2	Class 2	N/A	Pass	Class 4

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Kitemark™ Certificate

No. KM 634360

Size Limitations and Performance Characteristics

Door Type	Length (mm) - Maximum	Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
Sash dimensions for doors with approved outer frame and sash profiles:						
Single doors open in & open out	951	2180	4	9A	A3	1200
Sidescreen	1810	2530	4	9A	C3	1200

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 593756.

System(s): Comar 7Pi CD Commercial Pivoted Single & Double Doors

Door Type(s): Pivoted Single & Double Doors

Fabrication and Installation: Fabricated and installed in accordance with the latest issue of the following controlled manual:
Comar Architectural Aluminium Systems, Performance Framing System, Framing, Windows, Doors (Comar 7Pi CD Commercial Pivoted Single & Double Doors) Control Manual.

System description: The door assemblies are single or double leaf open in and out, and have internal and external riveted beads and gaskets, double or triple glazed 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 with or without midrail and with low threshold with or without sidescreen. Doors are classified D

Approved Hardware Master leaf two point Axim key locking hardware (two hook bolts) two key lockable cylinders and pivot hinge. Slave leaf two point Axim finger operated hardware (two shoot bolts) and pivot hinge and a handle and cylinder or cylinder guard combination achieving a minimum of 3* in accordance with TS 007.
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

Classification for Operational strength in accordance with BS 6375

Operating forces	Vertical Load	Resistance to Static Torsion	Soft and Heavy body Impact	Hard Body Impact	Load Bearing capacity of safety devices	Closure against obstruction	Resistance to opening and closing
Class1	Class 2	Class 2	Class 2	Class 2	N/A	Pass	Class 4

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Kitemark™ Certificate

No. KM 634360

Comar 7Pi CD Commercial Pivoted Single and Double Door System Size Limitations and Performance Characteristics

Door Type	Length (mm) - Maximum	Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
Sash dimensions for doors with approved outer frame and sash profiles:						
Double doors overall	1800	2200	2	3A	A3	1200
Active leaf	817	2105				
Slave leaf	817	2105				
Single doors overall	1250	2370	2	3A	A3	1200

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 593756.

System(s):	Comar 7Pi CDE Commercial Pivoted Single & Double Doors
Door Type(s):	Pivoted Single & Double Doors
Fabrication and Installation:	Fabricated and installed in accordance with the latest issue of the following controlled manual: Comar Architectural Aluminium Systems, Performance Framing System, Framing, Windows, Doors (Comar 7Pi CDE Commercial Pivoted Single & Double Doors) Control Manual.
System description:	The door assemblies are single or double leaf open in and out, and have internal and external riveted beads and gaskets, double or triple glazed 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 with or without midrail and with low threshold with or without sidescreen. Doors are classified D
Approved Hardware	Hardware options for single door assemblies with electronic lock (Fuhr Autotronic 834), electronic panic exit lock with panic exit bar (Fuhr Autotronic 834P), multi point lock (Fuhr Autosafe 833) and multi point panic exit lock with panic exit bar (Fuhr Autosafe 833P). and a handle and cylinder or cylinder guard combination achieving a minimum of 3* in accordance with TS 007 Hardware options for double door assemblies with shoot bolts locking off 1 leaf and electronic lock (Fuhr Autotronic 834) the other leaf, with shoot bolts locking off 1 leaf and electronic panic exit lock with panic exit bar (Fuhr Autotronic 834P), with shoot bolts locking off 1 leaf and multipoint lock (Fuhr Autosafe 833) and with shoot bolts locking off 1 leaf and multipoint panic exit lock with panic exit bar (Fuhr Autosafe 833P). and a handle and cylinder or cylinder guard combination achieving a minimum of 3* in accordance with TS 007. 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

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Kitemark™ Certificate

No. KM 634360

Classification for Operational strength in accordance with BS 6375

Operating forces	Vertical Load	Resistance to Static Torsion	Soft and Heavy body Impact	Hard Body Impact	Load Bearing capacity of safety devices	Closure against obstruction	Resistance to opening and closing
Class1	Class 2	Class 2	Class 2	Class 2	N/A	Pass	Class 4



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Kitemark™ Certificate

No. KM 634360

Comar 7Pi CDE Commercial Pivoted Single & Double Doors Size Limitations and Performance Characteristics

Door Type	Length (mm) - Maximum	Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table ¹ of BS 6375-1
Sash dimensions for doors with approved outer frame and sash profiles:						
Double doors overall door leaf	2300 1070	2100 2010	-	2A	A2	800U
Single doors overall door leaf	1230 1070	2100 2010	-	2A	A2	800U

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK

This Certificate covers the fabrication of doors from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 593756.

System(s): Comar 7Pi LS Lift Slide Door

Door Type(s): Horizontal Lift and Slide Doorset

Fabrication and Installation: Fabricated and installed in accordance with the latest issue of the following controlled manual:
Comar Architectural Aluminium Systems, Performance Framing System, Framing, Windows, Doors (Comar 7Pi LS Lift Slide Door) Control Manual.

System description: The door assemblies have internal beads and gaskets double glazed or triple glazed 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, and are fully glazed with standard threshold. Three point key locking Giese handle (three hook bolts) Giese espagnolette system, key lockable, one Comar continuous lock hinge and two rollers and a handle and cylinder or cylinder guard combination achieving a minimum of 3* in accordance with TS 007. Door classification D.
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

Classification for Operational strength in accordance with BS 6375

Operating forces	Vertical Load	Resistance to Static Torsion	Soft and Heavy body Impact	Hard Body Impact	Load Bearing capacity of safety devices	Closure against obstruction	Resistance to opening and closing
Class1	Class 2	Class 2	Class 2	Class 2	N/A	Pass	Class 4

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 530838.

Alitherm Plus Aluminium Alloy Residential Door System

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

Alitherm Plus Technical Manual

System description:

The door assemblies are open in or open out, hinged on outer frame or mullion, internally 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, with or without mechanically fixed midrails (either glass/midrail/glass or full glass), with either standard or mechanically fixed low threshold. Doors are classified D and can be fitted with letterplates which meets the requirements of TS008 Enhanced Security Grade 2. 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.

Profiles:	Outer Frame:	ETD012/015/017/196
	Leaf:	ETD024N/025N
	Midrail:	ETD030/033/034
	Frame Filler:	PCX17
	Leaf Filler:	PCX15
Hardware:	Locking:	ACET272/273/276/277/282/283/217, Shootbolts ACDV737/738/742/744 Secondary door lock set ACET 285. Keeps ACET 268/269
	Hinges:	ACET 250. Protectors ACET 252
	Handle:	ACDV251, ACET 484/486/487/488, ACET480 (Security) ACCY3045S1 - (Security), ACCY3045 & 4530 (Standard)
	Cylinder:	ACCY3045S1/4530- (Standard Handles)

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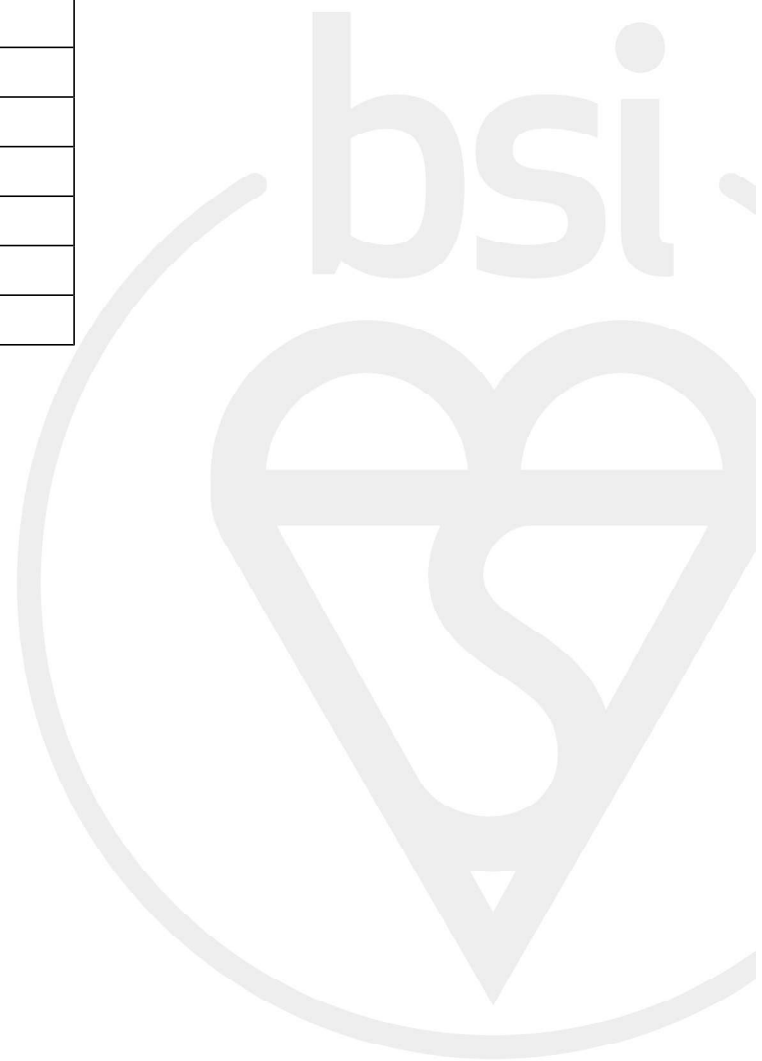
Kitemark™ Certificate

No. KM 634360

Alitherm Plus Aluminium Alloy Residential Door System

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)



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Kitemark™ Certificate

No. KM 634360

Size Limitations and Performance Characteristics - To be read in conjunction with fabrication manual

Door Type	Leaf Width (mm) Maximum	Leaf Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
Single leaf	1000	2500	4	3A	A3	1200
Double leaf Open in low threshold	1000	2500	4	3A	A3	1200
Double leaf Open out standard threshold	1000	2500	4	8A	A3	1200
Double leaf Open In standard threshold	1000	2500	4	7A	A3	1200
Rebated profile performance results	1000	2500	4	9A	AE2400	2000+

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022- General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 530838.

Visoglide Plus Aluminium Alloy Patio Door System

Fabricated and installed in accordance with the latest issue of the following Smart Systems Limited manual(s):
Visoglide Plus Technical Manual

System description:

The door assemblies are sliding patio doorsets, 2 - 6 panel configurations within the maximum sash size detailed below. Internally 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, with or without mechanically fixed midrails, with standard threshold. Doors are classified D. 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.

Profiles:

Outer Frame: VG510/511N/512/513N/516/518/519/610/612/618/620/621/UG061
Leaf: VG520/534/536/539/521N/540/541/542/549/590/592/VG632/920/920G
Midrail: VG538
Frame Filler: VG514/515

Hardware:

Locking: ACSZ024/025/026 Shootbolts ACVG752, Keep ACSZ/122/124/
126/128/130/132/ACSZ040/041/042/046 (fix kit BT Lock)/Maco three
hooks 224155

Handle: ACSZ882/883, ACSZ750/751, ACSZ863

Cylinder: ACIM442 (Security Handle)/ACCY4040S1/ACCY3030S1 (any handle)
ACMX0040 (Handle ACSZ863)

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Kitemark™ Certificate

No. KM 634360

Hardware Lift
& Slide: Maco HS Lift and Slide Hook locking system (250kg rollers with brushes)
all as indicated in latest edition of the Visoglide Plus Manual



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Kitemark™ Certificate

No. KM 634360

Visoglide Plus Aluminium Alloy Patio Door System

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

Size Limitations and Performance Characteristics - To be read in conjunction with fabrication manual

Door Type	Leaf Width (mm) Maximum	Leaf Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
2 pane sliding doorset	2000	2400*	3	7A	AE2400	2000+
3 pane (2 sliding) doorset	2000	2400*	3	3A	1200	1200
Active/Fixed Leaf	2000	2400*	3	7A	AE2400	2000+
2 pane (1 sliding) doorset overall	2300	2600	4	7A	CE2000	2000
Active/Fixed	1100	2500				

* Door leaf up to 2913mm with appropriate BT Shootbolt Lock.

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 530838.

Ultraglide Aluminium Alloy Patio Door System

Fabricated and installed in accordance with the latest issue of the following Smart Systems Limited manual(s):
Ultraglide Technical Manual

System description:

The door assemblies are sliding patio doorsets, 2 - 6 panel configurations within the maximum sash size detailed below. Internally 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, with or without mechanically fixed midrails, with standard threshold. Doors are classified D. 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.

Profiles:	Outer Frame:	UG010/012/110/112/114/210/212/310/611/613/810/812
	Leaf:	UG021/142/143/620/820
	Midrail:	UG025/026/027/GT030/031/032/033/035
	Frame Filler:	UG014/015/615/616
Hardware:	Locking:	ACSZ001/002/003 Shootbolt ACVG752, Keeps ACSZ102/104/106/108/110/112. ACSZ040/041/042/045(Fix Kit BT Lock)
	Handle:	ACVG553/554/ACSZ882/883, ACSZ750/751
	Cylinder:	ACCY5540S1
	Hardware Lift & Slide:	Maco HS Lift and Slide Hook locking system (250kg rollers with brushes) all as indicated in latest edition of the Ultraglide manual

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Kitemark™ Certificate

No. KM 634360

Ultraglide Aluminium Alloy Patio Door System

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

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

Door Type	Leaf Width (mm) Maximum	Leaf Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
2 pane sliding doorset	2500	2420*	3	7A	AE2400	2000+
3 pane (2 sliding) doorset	2500	2420*	3	7A	AE2400	2000+
Active/Fixed Leaf	2500	2420*	3	7A	AE2400	2000+

*Door leaf up to 2913mm with appropriate BT Shootbolt Lock

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 530838.

Smart Wall Door & Screen System

Fabricated and installed in accordance with the latest issue of the Smart Systems Limited fabrication manual.

System description:

The door assemblies are single or double leaf Auto-slide/Swing with or without sidescreens, thermally broken, dual opening, pivot hinged, internally 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 with either rebated or mechanically fixed low threshold. Doors are classified D. 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.

Profiles

Outerframe:

IMP 210 Jamb Section, IMP 301 infill strip, IMP 110 Head Section,
115/116/217/219/310/410 IMP 011 Over head closure cover, IMP 265/035 AFT Adaptor
IMP013/015/019

Leaf:

IMP 036N/037 AFT Stile, IMP 039 Primary Lock Stile, IMP 300 Stile Infill,
IMP041/042/043/025/026/032 F.H Shoot Bolt stile/038/040

IMP 120 Top Rail, IMP 027 Bottom Rail, IMP 034 Midrail, 028/121/122/260

IMP 261/262/263/411 Threshold, GL 526 Glazing Bead 264/265/266/412/415.

VG 532/533 - Interlock Bolster

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Kitemark™ Certificate

No. KM 634360

Smart Wall Door & Screen System

Hardware:

Hinges:	ACIM 425B Closure kit
Lock and Keeps:	ACIM 440 Sentinel x2 ACIM 008 keep Sentinel lock in conjunction with magnetic locking at least one hook bolt must be included centrally. Alpro Maglock 48AL2400-LP VORTEX Concealed Panic bar ref- AXIM PR-7085 Series including RE-712 & CB-748-AL Support Block (x2) – ACIM 270 Concealed Panic bar with multi-point lock ref – Sentinel Maximus 3 Point Panic Lock -430A, Touch Bar 400TB, External Handle 400LH, Cylinder Guard 400CS & 400ES, Multi-lock Cylinder 51288527-M71B-SXP, Euro 120 50AX70NM, CAM 348E. 2 x Trimec ES 8001 Electronic V- Lock (ACIM420) – can be used in conjunction with manually operated shootbolts on slave leaf of double doorset.
Shootbolts:	ACVL426 with rods ACVL127, ACSZ040/041/042
Cylinder:	ACIM 442, ACIM 443, ACSZ750/751 Guards
Handle:	ACMX05522 200mm Pad Handles
Auto-Gear:	Dorma ES200 with heavy duty support brackets ACIM271/272
Other:	Adams Rite Panic Exit Hardware Concealed Rod Panic Bar Ref 485 & 585 585 Push Bar AA-8-585 PPB-US2-1300-SIL 485 Touch Bar AA-8-485 PTB-US2-1200-SIL 485 Lever handle AA-8-485 ALC-IKO-SIL 485 Escutcheon AA-8-485AEC-IKO-68-SIL 585 Escutcheon AA-8-585AEG-IKO-68-SIL

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Kitemark™ Certificate

No. KM 634360

Smart Wall Door & Screen System

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

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

Door Type	Leaf Width (mm) Maximum	Leaf Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
Rebated Single leaf	1200	2500	2	4A	A5	2000
Rebated Double leaf	1200	2500	2	4A	A5	2000
Single leaf	1200	2500	-	-	A2	800U
Double leaf	1200	2500	-	-	A2	800U
Sidescreen	3000	2500	4	9A	A4	1600

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 530838.

EcoFutural Aluminium Alloy Residential/Commercial Door System

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

EcoFutural Technical Manual

System description:

The door assemblies are open in or open out, hinged on outer frame or mullion, internally 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, with or without mechanically fixed midrails (either glass/midrail/glass or full glass), with either standard or mechanically fixed low threshold. Doors are classified D and can be fitted with letterplates which meets the requirements of TS008 Enhanced Security Grade 2. 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.

Profiles:

Outer Frame:	EF011/035/040/044/414/472/415/492/493/952/953/993
Leaf:	EF023/120/424/425
Midrail:	EF030/031/032/033/034/035/036/130

Hardware:

Locking:	ACSZ510/511/512/550/551/552.
Shootbolt:	ACGT430 with rods ACVL127
Keep:	ACVL434
Hinges:	ACUN450, ACMX102, ACUN102. Hinge Bolt ACMX103, ACUN103
Handle:	ACFA120
Cylinder + cover:	ACMX0613/ACMX208 and ACSZ400
Lock Keeps:	ACSZ650/651

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Kitemark™ Certificate

No. KM 634360

EcoFutural Aluminium Alloy Residential/Commercial Door System

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

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

Door Type	Leaf Width (mm) Maximum	Leaf Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
Low Threshold	1200	2500	3	4A	1200	1200
Rebated	1200	2500	4	6A	1200	1200
Rebated Open Out EF425 Flush Sash	1200	2500	4	8A	1200	1200
Rebated Open Out EF120 Stepped Sash	1200	2500	3	E900	1200	1200

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Kitemark™ Certificate

No. KM 634360

BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 530838.

Visofold 1000 Door System

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

Visofold 1000 Technical Manual

System description:

The door assemblies are open in or out sliding and folding, up to 7 panes in all configurations within the maximum leaf size detailed below. Internally 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, fully glazed, with either standard or low threshold. Doors are classified as D 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.

Profiles:

Outer Frame: DV14/17/19/32/38/56/60/62/68/75/76/171/172/173/174/175/176/271/
273/555/EUD03

Leaf: DV23/26/28/29/220/221/228/229/DV123/126

Midrail: DV30/35/235

Frame Filler: PCX36/38

Hardware:

Locking: ACDV722/723/727/728/737/738/742/744/ACDV576/577/676/677/752/753/
762/763/772/773

Ancillary: ACET217 Mullion Keep Support. ACDV080 Run-up. ACDV081a-lift

Shoot Bolts: ACDV227/229/297/328/ACDV627/737/738/745

Hinges: ACDV232/331/332/333/532/380/381/ACDV334

Handle: ACDV225/226/501/502/524/525/251* ACET480

Cylinder: ACCY50/50-S3*/ACDV258/ACMX01604

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*Handle ACDV251 must be used with security cylinder ACCY50/50-S3

Visofold 1000 Door System

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

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

Door Type	Leaf Width (mm) Maximum	Leaf Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
Low Threshold	1200	2500	2	2A	1200	1200
Rebated	1200	2500	3	4A	1200	1200
Rebated Without DV32 post	1200	2500	4	5A	1800	1800

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BS 4873:2016 / PAS 24:2022 - General and enhanced security performance requirements for doors in the UK.

This Certificate covers the fabrication of doors from the range of profiles and components supplied by Smart Systems Limited under Certificate Number KM 530838.

Alitherm Heritage & Heritage 60 Aluminium Alloy Residential Door System

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

Alitherm Heritage Door Technical Manual

System description:

The door assemblies are single or double leaf open in or out, hinged on outer frame or mullion, internally 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, with or without mechanically fixed midrails (either glass/midrail/glass or full glass), with either standard or mechanically fixed low threshold. Doors are classified D and can be fitted with letterplates which meets the requirements of TS008 Enhanced Security Grade 2. 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.

Profiles:	Outer Frame:	W20015/20016/20017/20112/20270/20111/20272/20274/ W20415/20417/20470/20472/20474
	Leaf:	W20124/20129/20046/20149/W20424/20429/20446/20449
	Midrail:	W200135/20038/20039/20133/20135/20136/20138/W20430/20438
Hardware:	Locking:	FUHR (ACW20465/20466/ACDV737/738/ACW20066/20367/20437
	Hinges:	Banks (ACW20164/ACW20360
	Hinge Protectors:	FUHR (ACWT 20375)
	Handle:	Standard with ACCY4525NKTTTS3/ACET480 with ACY3045NKSICYL
	Cylinder:	ACCY4525NKTTTS3/ACCY3045NKSI (with ACET480 only) ACCY5025NKS3/ACCY5025NKTTTS3

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Kitemark™ Certificate

No. KM 634360

Alitherm Heritage & Heritage 60 Aluminium Alloy Residential Door System

Classification for Operational strength in accordance with BS 6375

Operating forces	Class 1
Vertical Load	Class 2
Resistance to Static Torsion	Class 2
Soft and Heavy body Impact	Class 2
Hard Body Impact	Class 2
Load Bearing Capacity of safety devices	N/A
Closure against obstruction	Pass
Resistance to opening and closing	Class 4 (50,000)

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

Door Type	Leaf Width (mm) Maximum	Leaf Height (mm) - Maximum	Air Permeability classification	Watertightness classification	Resistance to Wind classification	Exposure category as given in Table 1 of BS 6375-1
Double leaf open in standard threshold	900	2200	4	3A	B3	1200
Double leaf open out standard threshold	900	2200	4	E1050	B3	1200

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