

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

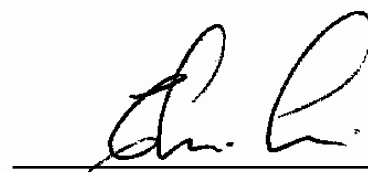
In respect of:

BS 4873 / PAS24
Enhanced Security Aluminium Window Fabricator

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI:



Chris Lewis - Certification Director, Product Certification

First Issued: 2015-05-13

Latest Issue: 2019-01-31

Effective Date: 2019-01-31

Expiry Date: 2022-01-30



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...making excellence a habit.™

Kitemark™ Certificate

No. KM 634359

BS 4873:2016 / PAS 24:2016 - Enhanced security performance requirements for window assemblies

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

Sapa DF75 Si Aluminium Alloy Window System Technal FE75 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(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: The windows are thermally broken, double glazed only, internally or externally beaded, have multipoint locking only and mechanically fixed transoms/mullions.

Ventilation: Titon TV4000 Trimvent Trickle Vent controllable ventilator

Window Types:

Casement windows	Enhanced Security Friction Stays, hinge protectors and Espagnolette locks –.
Reversible windows	Peder Nielsen top over swing hinges with integral restrictors and Espagnolette locks
TBT windows	Concealed Friction hinges with Espagnolette locks
Bottom Hung Open In	Sapa Folding Opener with DFP 1235 hinges
Pivot Windows	Sapa Pivot hinges and Sapa Espagnolette locks
Dummy vent windows	
Fixed windows	
Multilight windows comprising opening and/or fixed light(s) or dummy vent(s)	

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Kitemark™ Certificate

No. KM 634359

Size Limitations and Performance Characteristics Sapa DF75 Si Aluminium Alloy Window System Technal FE75 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 *)
Sash dimensions for windows with approved sash profiles:									
Projecting top hungs Standard vent	1315	1220	-	24"	-	2	E1200	5	2000
Projecting top hungs HD vent	1720	1720	-	22"	-	4	9A	C4	2000
Projecting side hungs Standard vent	665	1265	-	16"	-	4	9A	2000	2000
Projecting side hungs HD vent	838	1828	-	16"	-	4	9A	2000	2000
Projecting side hungs Reverse Rebated Fixed	646	1255	-	16"	-	4	9A	C5	2000
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*
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:									
Multilight,	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 24:2016 - Enhanced security performance requirements for window assemblies

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.

Sapa Crown 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:

Crown Casement Window

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

Ventilation: Titon TV4000 Trimvent Trickle Vent controllable ventilator

Window Types: Casement windows Enhanced Security Friction Stays, hinge protectors and Espagnolette locks
Fixed windows
Multilight windows comprising opening and/or fixed light(s) or dummy vent(s)

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Kitemark™ Certificate

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Size Limitations and Performance Characteristics Sapa 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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BS 4873:2016 / PAS 24:2016 - Enhanced security performance requirements for window assemblies

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

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 UK Limited controlled manual incorporating Scope of Certification: Technal Casement Window and Technal Parallel Window	
System description:	The windows are thermally broken, double glazed only, internally and externally beaded, have multipoint locking only and mechanically fixed transoms/mullions.	
Ventilation:	None	
Window Types:	Casement windows	Sapa Building Systems Enhanced Security Friction Stays, hinge protectors and Espagnolette locks
	Parallel windows	Sapa Building Systems Single Parallel Friction hinge and Friction Hinge Screw Kit
	Tilt/Turn windows	Sapa Building Systems Tilt/Turn Hinge and Fixings
	Fixed windows	
	Multilight windows comprising opening and/or fixed light(s) or dummy vent(s)	

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Kitemark™ Certificate

No. KM 634359

Size Limitations and Performance Characteristics Technal FY65 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	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

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Wicline Evo 75 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:

Wicona Casement Window

System description: The windows are thermally broken, double glazed only, externally beaded, and have multipoint locking only.

Ventilation: None

Window Types: Casement windows Wicona Enhanced Security Friction Stays, hinge protectors and Espagnolette locks

Size Limitations and Performance Characteristics Wicline Evo 75 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	1400	1800	-	-	-	4	E750	C5	2000
Projecting side hungs HD vent	850	1800	-	-	-	4	9A	C4	2000

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Kitemark™ Certificate

No. KM 634359

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

This Certificate covers the fabrication of windows from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 578159.

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:	The windows are internally glazed only, double glazed only, multipoint locking only with mechanically fixed transoms/mullions
Ventilation:	None
Window Types:	Tilt/turn windows - Comar Security Hardware Multilight windows comprising opening light(s) and/or fixed light(s)

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No. KM 634359

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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No. KM 634359

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

This Certificate covers the fabrication of windows from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 578159.

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 Comar 5Pi Advanced Enhanced Security Document
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 - Kenrick espagnolette system operated by a key locking handle and Sterling hinge

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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 tilt/turn sash profiles:								
Projecting top hungs	1180	1430	-	-	4	9A	A5	2000

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

This Certificate covers the fabrication of windows from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 578159.

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:	The windows are internally glazed only, double glazed only, multipoint locking only with mechanically fixed transoms/mullions
Ventilation:	None
Window Types:	Casement windows - Comar Security Hardware Multilight windows comprising opening light(s) and/or fixed light(s)

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Kitemark™ Certificate

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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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No. KM 634359

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

This Certificate covers the fabrication of windows from the range of profiles and components supplied by The Parkside Group Ltd under Certificate Number KM 578159.

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, double glazed only, with mechanically fixed transoms/mullions. Locking mechanism ERA (LK5846XKIT) and hinges Securistyle (HN806XSLF).
Ventilation:	None
Window Types:	Casement windows

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Kitemark™ Certificate

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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 Comar 9Pi Enhanced Security Document
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 - 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/turn windows - 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

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No. KM 634359

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
Overall dimensions for approved outer frames & transom/mullion profiles:								
Tilt/turns	1180	1440	-	-	4	9A	AE	2400
Tilt/turns	1040	1650	-	-	4	E750	A5	2000

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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 Comar 10 Passivhaus Tilt/Turn Enhanced Security Document
System description:	The windows are internally glazed only, double or triple glazed, using Siegenia Concealed Hinge Tilt Turn Titan AF / PW001-PW077 and Comar Tilt Turn Locking Handle
Ventilation:	None
Window Types:	Tilt/turn windows

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Expiry Date: 2022-01-30

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Kitemark™ Certificate

No. KM 634359

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

First Issued: 2015-05-13

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