

Kitemark™ Certificate

This is to certify that:

Douglas Commercial Fabrications Ltd
Unit 1 Hemlock Park
Hyssop Close
Cannock
WS11 7FB
United Kingdom

Holds Certificate Number:

KM 618252

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: 2015-11-02

Latest Issue: 2022-09-14

Effective Date: 2022-09-14

Expiry Date: 2024-01-16



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Kitemark™ Certificate

No. KM 618252

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

This Certificate covers the following window system design specification. Only those components that have been approved in accordance with the Kitemark scheme requirement can be incorporated within the system detailed.

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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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:									
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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To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

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A member of BSI Group of Companies.

Kitemark™ Certificate

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

This Certificate covers the following window system design specification. Only those components that have been approved in accordance with the Kitemark scheme requirement can be incorporated within the system detailed.

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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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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