



# **SASH WINDOW SHOP LTD** **PAS 24:2022 - Enhanced** **Security Performance** **Requirements for Doorsets and** **Windows in the UK**

**BAKO BARTNIK KOWALCZUK GENERAL PARTNERSHIP**

**Test Report No. R4791680249-2**

26 August 2025



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# 1. Introduction

Test Details	
Customer:	<i>BAKO Bartnik Kowalczuk Sp J</i> Ulica 4 Sierpnia 4c Szypliszki, 16-411 PL
Test witnessed by:	M Cichanowicz <i>BAKO Bartnik Kowalczuk Sp J</i>
Product tested:	French Door
Date(s) sample(s) received:	1 <sup>st</sup> April 2025, 28 <sup>th</sup> May 2025, 12 <sup>th</sup> August 2025
Date of test:	7 <sup>th</sup> April 2025, 9 <sup>th</sup> June 2025, 14 <sup>th</sup> August 2025
Test conducted at:	UL International (UK) Limited Halesfield 2 Telford Shropshire TF7 4QH
Test conducted by:	D Adams <i>Senior Engineering Technician</i> S Ward <i>Engineering Technician</i> C Holden <i>Senior Laboratory Technician</i>
Report Authorisation	
Report compiled by:	<i>C Holden</i> Laboratory Engineer 
Authorised by:	E Round Laboratory Engineer 

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## 2. Summary of Results

The following table summarises the results of tests, conducted in accordance with PAS 24:2022, achieved by the test specimen(s) supplied:

Test description	Sample (ID No.)	Test sheet reference	Result	Test date
A.3.1 – Security hardware & cylinder test – Part 1	1	TS 001	Pass	7 <sup>th</sup> April 2025
A.3.2 – Security hardware & cylinder test – Part 2	1	TS 001	Pass	7 <sup>th</sup> April 2025
A.3.3 – Security hardware & cylinder test – Part 3	1	TS 001	Pass	7 <sup>th</sup> April 2025
B.4.6 – Manual check test	1	TS 001	No entry gained	7 <sup>th</sup> April 2025
B.4.4.3 – Infill – mechanical test	2	TS 001	Pass	7 <sup>th</sup> April 2025
B.4.3 – Manipulation test (a)	2	TS 001	Pass	7 <sup>th</sup> April 2025
B.4.4.4 – Manual cutting test	2	TS 001	Pass	7 <sup>th</sup> April 2025
B.4.5 – Mechanical loading test	4	TS 003	Pass	13 <sup>th</sup> August 2025
B.4.4.2 – Infill – manual test	3	TS 002	Pass	9 <sup>th</sup> June 2025
B.4.8 – Soft body impact test	3	TS 002	Pass	9 <sup>th</sup> June 2025
B.4.9 – Hard body impact test	3	TS 002	Pass	9 <sup>th</sup> June 2025
<b>Overall classification in accordance with PAS 24:2022</b>			<b>D</b>	

More comprehensive details are reported in section 6.

**Note:** *These results are valid only for the conditions under which the test was conducted.*

*All measurement devices, instruments and other relevant equipment were calibrated and traceable to National Standards.*

### 2.1 Decision rule

Classifications reported in section 6 indicate that the product conforms with the relevant accuracy requirements of section B.3 and C.3 of PAS 24:2022.

### 2.2 Uncertainty of measurement

The results as reported in this test report are not accounting measurement of uncertainty as no numerical values were recorded during the test.



### 3. Description of Test Sample

The details shown in section 3 and drawings shown in section 7 have been supplied by and confirmed as typical of normal production by Bako Bartnik Kowalczyk General and have not been verified by UL International (UK) Limited.

See Section 7 for sample drawings as supplied by the Customer

<b>General Information</b>	
<b>Project number:</b> (Please refer to all applicable projects)	4791680249
<b>Product range name:</b>	French Door
<b>Project name to appear on front page of the test report:</b>	French Door
<b>Configuration:</b>	2 opening sashes
<b>Opening direction:</b>	Out
<b>Product manufacturer:</b>	BAKO Bartnik Kowalczyk Sp J.
<b>The sample is typical of normal production:</b>	Yes
<b>Please define the closing condition of the sample:</b> I.e. Closed, fastened, latched, locked and secured etc.	French Door with 2 handles, secured with anti-theft catch and sash lifts
<b>Weight of Sample including subframe (kg):</b>	200 kg
<b>Weight of sash (kg) - applicable for sample tested with accordance with BS 6375-2:2009</b>	62 kg

<b>Outer Frame</b>			
<b>Height:</b>	2450	<b>Outer frame gasket</b>	
<b>Width:</b>	2300	<b>Gasket type:</b>	Foam Seals QL3078, QL3096
<b>Outer frame material:</b>	Softwood	<b>Manufacturer:</b>	Schlegel
<b>Surface finish</b>	Teknos paints	<b>Product name:</b>	Q-Lon
<b>Outer frame Part Numbers</b>		<b>Product code:</b>	QL3078, QL3096
<b>Top:</b>	1	<b>Threshold</b>	Wooden
<b>Bottom:</b>	2	<b>Manufacturer:</b>	BAKO Bartnik Kowalczyk Sp J
<b>Lock side:</b>		<b>Product name:</b>	Wooden Cill
<b>Hinge side:</b>	3,4	<b>Product code:</b>	
<b>Outer frame section size</b>		<b>Material:</b>	Hardwood
<b>Width:</b>	1,3,4 – 70 mm 2 – 60 mm	<b>Outer frame joint method</b>	
<b>Depth:</b>	92	<b>Head:</b>	Comb Joint
<b>Reinforcing:</b>	No	<b>Foot:</b>	Comb Joint



<b><u>Leaf, Sash, or Casement - 1</u></b>			
<u>Width:</u>	<u>1092</u>	<b><u>Leaf / casement gasket</u></b>	<u>No gasket</u>
<u>Height:</u>	<u>2354</u>	<u>Gasket type:</u>	
<u>Material:</u>	<u>Softwood</u>	<u>Manufacturer:</u>	
<u>Surface finish:</u>	<u>Teknos paints</u>	<u>Product name:</u>	
<b><u>Leaf / casement part numbers</u></b>		<u>Product code:</u>	
<u>Top:</u>	<u>1</u>	<b><u>Leaf midrail</u></b>	
<u>Bottom:</u>	<u>2</u>	<u>Manufacturer:</u>	<u>BAKO Bartnik Kowalczyk Sp J.</u>
<u>Lock side:</u>	<u>3</u>	<u>Product name:</u>	<u>Midrail</u>
<u>Hinge side:</u>	<u>4</u>	<u>Product code:</u>	
<b><u>Leaf / casement section size</u></b>		<u>Material:</u>	<u>Softwood</u>
<u>Width:</u>	<u>1,3,4 – 106mm</u> <u>2 – 136 mm</u>	<b><u>Leaf / casement joint method</u></b>	
<u>Depth:</u>	<u>60 mm</u>	<u>Head:</u>	<u>Counter-profile glued with dowels</u>
<b><u>Reinforcing</u></b>	<u>No</u>	<u>Foot:</u>	<u>Counter-profile glued with dowels</u>

<b><u>Leaf, Sash, or Casement - 2</u></b>			
<u>Width:</u>	<u>1092</u>	<b><u>Leaf / casement gasket</u></b>	<u>No gasket</u>
<u>Height:</u>	<u>2354</u>	<u>Gasket type:</u>	
<u>Material:</u>	<u>Softwood</u>	<u>Manufacturer:</u>	
<u>Surface finish:</u>	<u>Teknos paints</u>	<u>Product name:</u>	
<b><u>Leaf / casement part numbers</u></b>		<u>Product code:</u>	
<u>Top:</u>	<u>1</u>	<b><u>Leaf midrail</u></b>	
<u>Bottom:</u>	<u>2</u>	<u>Manufacturer:</u>	<u>BAKO Bartnik Kowalczyk Sp J.</u>
<u>Lock side:</u>	<u>3</u>	<u>Product name:</u>	<u>Midrail</u>
<u>Hinge side:</u>	<u>4</u>	<u>Product code:</u>	
<b><u>Leaf / casement section size</u></b>		<u>Material:</u>	<u>Softwood</u>
<u>Width:</u>	<u>1,3,4 – 106mm</u> <u>2 – 136 mm</u>	<b><u>Leaf / casement joint method</u></b>	
<u>Depth:</u>	<u>60 mm</u>	<u>Head:</u>	<u>Counter-profile glued with dowels</u>
<b><u>Reinforcing</u></b>	<u>No</u>	<u>Foot:</u>	<u>Counter-profile glued with dowels</u>



<b>Glazing</b>			
<b>Glass unit</b>	<u>Laminated glass</u> <u>33.2/12Ar/33.2</u>	<b>Glazing gasket</b>	
<u>Manufacturer:</u>	<u>Glassolutions Saint-Gobain</u>	<u>Gasket type:</u>	<u>Silicone</u>
<u>Inner thickness:</u>	<u>6,8 mm</u>	<u>Manufacturer:</u>	<u>Lakma</u>
<u>Spacer material:</u>	<u>Swisspacer advance</u> <u>12 mm, Plastic with</u> <u>stainless steel foil</u>	<u>Product name:</u>	<u>Modesil</u>
<u>Outer thickness:</u>	<u>6,8</u>	<u>Product code:</u>	<u>NO11</u>
<u>Unit sizes:</u>	<u>902x1243</u>	<b>Glazing clip</b>	
<b>Bead</b>	<u>Wooden bead 22x18</u>	<u>Manufacturer:</u>	<u>GT</u>
<u>Manufacturer:</u>	<u>BAKO Bartnik</u> <u>Kowalczyk Sp J.</u>	<u>Product name:</u>	<u>Securi-clip SC147</u>
<u>Product name:</u>	<u>Wooden bead 22x18</u>	<u>Product code:</u>	<u>SC147</u>
<u>Product code:</u>	<u>Wooden bead 22x18</u>	<b>Glazing tape details</b>	
<u>Bead size:</u>	<u>22x18</u>	<u>Manufacturer:</u>	<u>Dafa</u>
<u>Bead material:</u>	<u>softwood</u>	<u>Product name:</u>	<u>PESS67</u>
		<u>Product code:</u>	<u>2TTE0403</u>

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<b>Hardware</b>				
	<b>Manufacturer:</b>	<b>Product description:</b>	<b>Product code:</b>	<b>Quantity:</b>
<b>Hinges:</b>	NiCo	4915 3D Adjustable Hinge: Open Out Door	4915 3D Adjustable Hinge: Open Out Door	8
<b>Hinge fixing:</b>	Stainless steel 4x40 screws			64
<b>Hinge protectors:</b>	Winkhaus	WINKHAUS FORCED LOCKING F1600 MC	WINKHAUS FORCED LOCKING F1600 MC	4
<b>Hinge protector fixings:</b>	Stainless steel 4x40 screws			16
<b>Locking hardware:</b>	Winkhaus	Winkhaus FGTE Lock with hooks and bolts	Winkhaus FGTE Lock with hooks	1
<b>Locking hardware fixing:</b>	Stainless steel 4x40 screws			12
<b>Cylinder:</b>	Iseo	R6 Extra	R6 Extra	2
<b>Cylinder fixing:</b>				
<b>Handle:</b>	Mila	Mila SupaSecure™ TS007	Mila SupaSecure™ TS007	2
<b>Handle fixings:</b>	Stainless steel 4x40 screws			4
<b>Keeps:</b>	Winkhaus	FGTE for Slave Sash with bolts	FGTE for Slave Sash with bolts	1
<b>Keep fixings:</b>	Stainless steel 4x40 screws			12
<b>Drip bar:</b>				
<b>Drip bar fixings:</b>				
<b>Any additional hardware:</b>	Winkhaus FH.H sash lift	Winkhaus FH.H sash lift	Winkhaus FH.H sash lift	4
	Mila Supasecure TS008 Letterplate	Mila Supasecure TS008 Letterplate	Mila Supasecure TS008 Letterplate	1

**Confirmation**

<b>Customer is to confirm that the samples provided for testing are representative of standard production. Please note: the details given above, as well as the drawings supplied by the customer as confirmed as typical of normal production are not verified by UL International (UK) Limited.</b>	
<b>Company:</b>	BAKO Bartnik Kowalczyk Sp J.
<b>Name:</b>	Mariusz Cichanowicz
<b>Position:</b>	Chief Technology Officer
<b>Date:</b>	26.03.2025 r.