RHINO ALUMINIUM

WINDOW & DOOR SYSTEMS

CE Marking

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Business Park Broadstairs Kent CT10 2QQ

Rhino Aluminium Ltd
Unit 5b Millennium Way Thanet Reach
Business Park
Broadstairs
Kent
CT10 2QQ

CE

EC DECLARATION OF CONFORMITY

This document declares that the products:

- *ALUK, Aluminium system – Folding Sliding Doors (BSF70).*
- *ALUK, Aluminium system – Casement and tilt and turn Windows (58BW).*
- *ALUK, Aluminium system – Residential Doors (58BD).*
- *ALUK, Aluminium system – Sliding Patio Doors (BSC94).*
- *ALUK, Aluminium system – Curtain Walling(SG52).*
- *ALUK, Aluminium system – Commercial Doors (GT55).*

For domestic and commercial buildings, conforms to the product requirements of:

- *EN 14351-1+A1:2010 – Annex ZA*
  Windows and Doors – Product standard, performance characteristics. (Indicated on the CE mark.)

Initial testing has been carried out by the following organisation:

- *ALUK Ltd Newhouse Farm Industrial Estate*
  Chepstow
  United Kingdom
  NP16 6UD

Signed on behalf of Rhino Aluminium Ltd:

....

Andrew McCann
Managing Director
1st January 2018

Rhino Aluminium Ltd
Unit 5b Millennium Way Thanet Reach
Business Park
Broadstairs
Kent
CT10 2QQ

CE

EC DECLARATION OF PERFORMANCE

This document declares that the products:

- *ALUK, Aluminium system – Folding Sliding Doors (BSF70).*
- *ALUK, Aluminium system – Casement and tilt and turn Windows (58BW).*
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- *ALUK, Aluminium system – Curtain Walling(SG52).*
- *ALUK, Aluminium system – Commercial Doors (GT55).*

For domestic and commercial buildings, conforms to the product requirements of:

- *EN 14351-1+A1:2010 – Annex ZA*
  Windows and Doors – Product standard, performance characteristics. (Indicated on the CE mark.)

Thermal transmittance	***1.3U-value to 1.9U-value***	*as detailed on the individual charts below* *EN ISO 10077-1, 1077-2, 12567-1, prEN12567-2*
Dangerous Substances	***None***	*as detailed on the signed certificate below.* *BS EN 14351-1, 2006+ A1:2010*
Load bearing capacity for safety devices	***Pass***	*as detailed on the signed certificate below.* *BS EN14609: 2004*

Signed on behalf of Rhino Aluminium Ltd:

....

Andrew McCann
Managing Director
5th January 2018

RHINO ALUMINIUM
WINDOW & DOOR SYSTEMS

EC DECLARATION OF PERFORMANCE

THERMAL TRANSMITTANCE: U-values

IN RELATION TO: RHINO ALUMINIUM **BI-FOLDING /FOLDING SLIDING DOORS (BSF70)** – BOTH INWARDS AND OUTWARDS OPENING VARIANTS AS DETAILED IN THE CHART BELOW.

Part L1B / L2B	Advanced Plus FSD (Open Out)						
Glass U -value (W/m^2K)	Panel Variant						Door U-value (W/m^2K)
	1 Panel	2 Panel	3 Panel	4 Panel	5 Panel	6 Panel	
1.2		***1.8***	***1.8***	***1.8***	***1.8***	***1.7***	
1.1		***1.8***	***1.8***	***1.7***	***1.7***	***1.7***	
1.0		***1.8***	***1.7***	***1.6***	***1.6***	***1.6***	
0.9		***1.6***	***1.6***	***1.5***	***1.5***	***1.5***	
0.8		***1.6***	***1.5***	***1.5***	***1.5***	***1.4***	
0.7		***1.5***	***1.4***	***1.4***	***1.4***	***1.4***	
0.5	-	-	-	-	-	-	

Part L1B / L2B	Advanced Plus FSD (Open In)						
Glass U -value (W/m^2K)	Panel Variant						Door U-value (W/m^2K)
	1 Panel	2 Panel	3 Panel	4 Panel	5 Panel	6 Panel	
1.2		***1.8***	***1.8***	***1.8***	***1.8***	***1.7***	
1.1		***1.8***	***1.8***	***1.7***	***1.7***	***1.7***	
1.0		***1.8***	***1.7***	***1.6***	***1.6***	***1.6***	
0.9		***1.6***	***1.6***	***1.5***	***1.5***	***1.5***	
0.8		***1.6***	***1.5***	***1.5***	***1.5***	***1.4***	
0.7		***1.5***	***1.4***	***1.4***	***1.4***	***1.4***	
0.5	-	-	-	-	-	-	

Notes:

Door sizes outside of BR443 / EN 14351, U-values for guidance only.
Notional window and door sizes ref: BR443 / EN 14351.

Building Regulation Compliance, Approved Document L 2010
Calculations in accordance with BR443 and simulated in accordance with EN ISO 10077 - Part 2

- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.1 (As per UK Building Regulations).
- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.2 (As per UK Building Regulations).
- Center pane U-value of glazing to be determined in accordance with EN673.
- Simulation data calculated using warm edge spacer bar technology.

RHINO ALUMINIUM
WINDOW & DOOR SYSTEMS

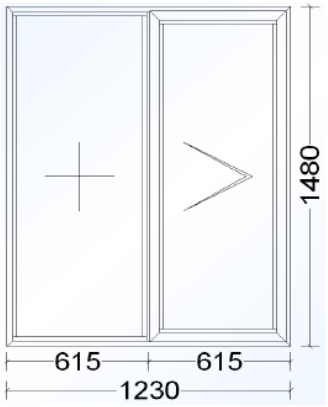
EC DECLARATION OF PERFORMANCE

THERMAL TRANSMITTANCE: U-values

IN RELATION TO: RHINO ALUMINIUM **CASEMENT WINDOWS (58BW)** ALUMINIUM SASH PROFILES IN CONJUNCTION WITH THE FRAME VARIANT AS DETAILED IN THE CHART BELOW.

Windows - 58BW External Glaze

Opening Light & Fixed light (1230mm x 1480mm)



NB: Size and layout also applicable to Top hung, Tilt Before Turn, Pivot, Top Swing Reversible etc.

Part L1A / L1B	58BW Ext. Glaze - AW610/611/612/613/624 NB: With central mullion AW631/632									
Glass U -value (W/m²K)	Frame Variant									Window U-value (W/m²K)
	600	601	602	603	604	605	606	607	608	
1.2	***1.7***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	
1.1	***1.6***	***1.6***	***1.6***	***1.5***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	
1.0	***1.6***	***1.5***	***1.5***	***1.4***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	
0.9	***1.4***	***1.4***	***1.4***	***1.4***	***1.4***	***1.4***	***1.4***	***1.4***	***1.4***	
0.8	***1.4***	***1.4***	***1.4***	***1.3***	***1.4***	***1.4***	***1.4***	***1.4***	***1.4***	
0.7	***1.3***	***1.3***	***1.3***	***1.2***	***1.3***	***1.3***	***1.3***	***1.3***	***1.3***	
0.5	-	-	-	-	-	-	-	-	-	

Notes:

Window U-value figures based around deep head frame used around entire perimeter.

ADL1B/ADL2B - alternative compliance route WER C or better see Chart on page 38 - 41.
Notional window and door sizes ref: BR443 / EN 14351.

Building Regulation Compliance, Approved Document L 2010
Calculations in accordance with BR443 and simulated in accordance with EN ISO 10077 - Part 2

- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.1 (As per UK Building Regulations).
- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.2 (As per UK Building Regulations).
- Center pane U-value of glazing to be determined in accordance with EN673.
- Simulation data calculated using warm edge spacer bar technology.

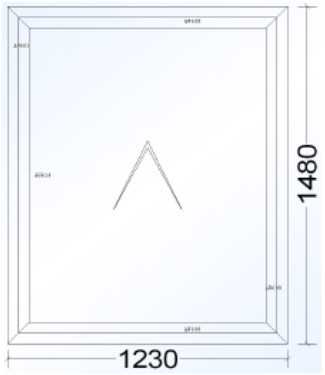
EC DECLARATION OF PERFORMANCE

THERMAL TRANSMITTANCE: U-values

IN RELATION TO: RHINO ALUMINIUM **COMMERCIAL & TILT AND TURN WINDOWS (58BW)** ALUMINIUM SASH PROFILES IN CONJUNCTION WITH THE FRAME VARIANT AS DETAILED IN THE CHART BELOW.

Windows – 58BW External Glaze

Opening Light (1230mm x 1480mm)



NB: Size and layout also applicable to Top hung, Tilt Before Turn, Pivot, Top Swing Reversible etc.

Part L2A / L2B	Advanced Plus Ext. Glaze - AW610/611/612/613/624 NB: With no central mullion									
Glass U -value (W/m^2K)	Frame Variant									Window U-value (W/m^2K)
	600	601	602	603	604	605	606	607	608	
1.2	***1.6***	***1.6***	***1.6***	***1.5***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	
1.1	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	
1.0	***1.5***	***1.5***	***1.5***	***1.4***	***1.4***	***1.5***	***1.4***	***1.4***	***1.4***	
0.9	***1.4***	***1.4***	***1.4***	***1.3***	***1.4***	***1.4***	***1.4***	***1.4***	***1.4***	
0.8	***1.3***	***1.3***	***1.3***	***1.3***	***1.3***	***1.3***	***1.3***	***1.3***	***1.3***	
0.7	***1.2***	***1.2***	***1.2***	***1.2***	***1.2***	***1.2***	***1.2***	***1.2***	***1.2***	
0.5	-	-	-	-	-	-	-	-	-	

Notes:
Window U-value figures based around deep head frame used around entire perimeter.

ADL1B/ADL2B - alternative compliance route WER C or better see Chart on page 38 - 41.
Notional window and door sizes ref: BR443 / EN 14351.

Building Regulation Compliance, Approved Document L 2010
Calculations in accordance with BR443 and simulated in accordance with EN ISO 10077 - Part 2

- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.1 (As per UK Building Regulations).
- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.2 (As per UK Building Regulations).
- Center pane U-value of glazing to be determined in accordance with EN673.
- Simulation data calculated using warm edge spacer bar technology.

RHINO ALUMINIUM
WINDOW & DOOR SYSTEMS

EC DECLARATION OF PERFORMANCE

THERMAL TRANSMITTANCE: U-values

IN RELATION TO: RHINO ALUMINIUM **RESIDENTIAL DOORS THAT OPEN OUTWARDS (58BD)** IN CONJUNCTION WITH THE FRAME VARIANT AS DETAILED IN THE CHART BELOW.

Part L1B / L2B	Advanced Plus Int. Glaze - AD201 NB: Door sizes ≤ 3.6 m² (Single Door Sets)								
Glass U -value (W/m²K)	Frame Variant								Door U-value (W/m²K)
	602	603	604	605	622	607	608	623	
1.2	***1.8***	***1.7***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.1	***1.8***	***1.7***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.0	***1.7***	***1.6***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	
0.9	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	
0.8	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	
0.7	***1.5***	***1.4***	***1.4***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	
0.5	-	-	-	-	-	-	-	-	

Part L1B / L2B	Advanced Plus Int. Glaze - AD201 NB: Door sizes > 3.6 m² (Double Door Sets)								
Glass U -value (W/m²K)	Frame Variant								Door U-value (W/m²K)
	602	603	604	605	622	607	608	623	
1.2	***1.9***	***1.8***	***1.9***	***1.9***	***1.9***	***1.8***	***1.9***	***1.8***	
1.1	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.0	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	
0.9	***1.7***	***1.6***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	
0.8	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	
0.7	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	
0.5	-	-	-	-	-	-	-	-	

Notes:
Door sizes outside of BR443 / EN 14351, U-values for guidance only.
Notional window and door sizes ref: BR443 / EN 14351.

Building Regulation Compliance, Approved Document L 2010
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- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.2 (As per UK Building Regulations).
- Center pane U-value of glazing to be determined in accordance with EN673.
- Simulation data calculated using warm edge spacer bar technology.

RHINO ALUMINIUM
WINDOW & DOOR SYSTEMS

EC DECLARATION OF PERFORMANCE

THERMAL TRANSMITTANCE: U-values

IN RELATION TO: RHINO ALUMINIUM **RESIDENTIAL DOORS THAT OPEN INWARDS (58BD)** IN CONJUNCTION WITH THE FRAME VARIANT AS DETAILED IN THE CHART BELOW.

Part L1B / L2B	Advanced Plus Int. Glaze - AD200 NB: Door sizes ≤ 3.6 m² (Single Door Sets)								
Glass U -value (W/m²K)	Frame Variant								Door U-value (W/m²K)
	602	603	604	605	622	607	608	623	
1.2	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.1	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.0	***1.7***	***1.6***	***1.6***	***1.6***	***1.7***	***1.7***	***1.7***	***1.7***	
0.9	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	
0.8	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	
0.7	***1.4***	***1.4***	***1.4***	***1.4***	***1.4***	***1.5***	***1.5***	***1.5***	
0.5	-	-	-	-	-	-	-	-	

Part L1B / L2B	Advanced Plus Int. Glaze - AD200 NB: Door sizes > 3.6 m² (Double Door Sets)								
Glass U -value (W/m²K)	Frame Variant								Door U-value (W/m²K)
	602	603	604	605	622	607	608	623	
1.2	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.1	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.0	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	
0.9	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.7***	***1.6***	***1.7***	
0.8	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	
0.7	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	
0.5	-	-	-	-	-	-	-	-	

Notes:
Door sizes outside of BR443 / EN 14351, U-values for guidance only.
Notional window and door sizes ref: BR443 / EN 14351.

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- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.2 (As per UK Building Regulations).
- Center pane U-value of glazing to be determined in accordance with EN673.
- Simulation data calculated using warm edge spacer bar technology.

RHINO ALUMINIUM
WINDOW & DOOR SYSTEMS

EC DECLARATION OF PERFORMANCE

THERMAL TRANSMITTANCE: U-values

IN RELATION TO: RHINO ALUMINIUM **SLIDING DOOR (BSC94)** IN CONJUNCTION WITH THE FRAME VARIANT AS DETAILED IN THE CHART BELOW.

Part L1B / L2B	Advanced Plus Int. Glaze - AD200 NB: Door sizes > 3.6 m² (Double Door Sets)								
Glass U -value (W/m²K)	Frame Variant								Door U-value (W/m²K)
	602	603	604	605	622	607	608	623	
1.2	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.1	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	***1.8***	
1.0	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	***1.7***	
0.9	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.7***	***1.6***	***1.7***	
0.8	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	***1.6***	
0.7	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	***1.5***	
0.5	-	-	-	-	-	-	-	-	

Notes:
Door sizes outside of BR443 / EN 14351, U-values for guidance only.
Notional window and door sizes ref: BR443 / EN 14351.

Building Regulation Compliance, Approved Document L 2010
Calculations in accordance with BR443 and simulated in accordance with EN ISO 10077 - Part 2

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- Windows are calculated using EN ISO 10077 - Part 2 to the conventions set out in EN 14351, Annex E, Table E.2 (As per UK Building Regulations).
- Center pane U-value of glazing to be determined in accordance with EN673.
- Simulation data calculated using warm edge spacer bar technology.

RHINO ALUMINIUM
WINDOW & DOOR SYSTEMS

Always precise WINKHAUS

Environmental Statement - CE Conformity

The management and all who work at Winkhaus UK Ltd are committed to the care of the environment and the prevention of pollution.

The organisation ensures that all its activities are carried out in conformance with the relevant environmental legislation.

The organisation seeks to minimise waste arising, promote recycling, reduce energy consumption, reduce harmful emissions and, work with suppliers who themselves have sound environmental policies, where possible.

An essential feature of the environmental management system is a commitment to improving and maintaining environmental performance. This is achieved by setting annual environmental improvement objectives and targets which are regularly monitored and reviewed.

The objectives and targets are publicised throughout the organisation and all staff are committed to their achievement.

In order to ensure the achievement of the above commitments, the organisation has implemented an environmental requirements of BS EN ISO 14001:2004

Our manufacturing facilities and the Winkhaus products have been independently assessed to ensure compliance with CE requirements that no dangerous substances according to DIN EN 14351-1:2006 were detected.

TÜVRheinland®
LGA
Genau. Richtig.

Certificate

The Competence Centre Surface Engineering of the LGA Training & Consulting GmbH herewith confirms to

Aug. Winkhaus GmbH & Co. KG

that no dangerous substances according to DIN EN 14351-1:2006

the state of the art of TÜV Rheinland LGA

for the following window and door fittings:

- Fittings Series activPilot, proPilot and auto pilot
- Security door locking systems with assembly groups as G3 lock boxes, lock rails and corresponding keep systems

were detected

Number of order: TKGT 10011214
Number of certificate: 00190

Nuremberg, 29 April, 2010

Dipl.-Ing. Johann Friedrich Mooslechner
Leiter KompetenzZentrum Oberflächentechnik
LGA Training & Consulting GmbH

This certificate is only valid in combination with the test report TKGT 10070932.

LGA Training & Consulting GmbH · Tillystraße 2 · 90431 Nürnberg

RHINO ALUMINIUM

WINDOW & DOOR SYSTEMS

Fab&Fix

Unit 4 | The Moorings Business Park | Channel Way | Exhall | Coventry | CV6 6RH

Tel: +44 (0)2476 585 785 Fax: +44 (0)2476 585 786

Construction Products Regulations: Dangerous Substances

In accordance with the requirements of Annex I of regulation No. 305/2011 of the European Parliament and clause 4.6 (Dangerous Substances) of BS EN 14351-1 2006 + A1: 2010, we confirm that there are no materials liable to emission or migration during the normal intended use of products supplied by Fab & Fix, that are potentially dangerous to hygiene, health or the environment.

Yours faithfully

Nigel Shenton

Operations Director

RHINO ALUMINIUM
WINDOW & DOOR SYSTEMS

ALUK®
INNOVATIVE BUILDING SYSTEMS

CE Statement

From: Peter Burke, Operations Director, AluK (GB) Limited
Date Effective From: 14th June 2013
Re: Declaration of conformance for the requirements of CE Marking

Dangerous Substances

AluK (GB) Limited hereby confirm that in accordance with the requirements of:
BSEN14351-1:2006+A1:2010 clause 4.6. *The products supplied and used in the manufacture of windows, doors and curtain walling, will not cause any detrimental emissions or migrations during normal intended use which are potentially dangerous to hygiene, health or the environment.*

Yours faithfully

Peter Burke
Operations Director

RHINO ALUMINIUM

WINDOW & DOOR SYSTEMS

Titon®

Titon Hardware Limited certifies that to the best of its knowledge there are no dangerous or hazardous materials in our products.
With reference to EN 14351-1.2006 clause 4.6, Titon certifies that to the best of its knowledge there are no materials in our products which are liable to emit or migrate substances potentially dangerous to hygiene, health or the environment during normal intended use.

Chief Executive

Titon

MARKETING DIVISION
International House, Peartree Road, Stanway, Colchester, Essex CO3 0JL, United Kingdom
Tel: +44 (0) 1206 713800 **Fax:** +44 (0) 1206 543126 **Email:** enquiries@titon.co.uk **Web:** www.titon.com

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