



**B R I T I S H  
W O O D W O R K I N G  
F E D E R A T I O N**

## **U-value Calculation Certificate**

This is to certify that

**NICHOLLS JOINERY LTD**

of

**7 Torridge Close, Telford Way Industrial Estate, Kettering  
Northamptonshire NN16 8PY**

has achieved a thermal transmittance U-value of:

**1.3 W/m<sup>2</sup>K**

for: **BR 443 Model Flush Casement Accoya Window**

In accordance with calculations carried out on the BBA software tool, in compliance with BS EN ISO 10077-1:2006 using the following criteria:

Timber density:	510 kg/m <sup>3</sup>
Frame thickness, d <sub>1</sub> :	150 mm
Casement thickness, d <sub>2</sub> :	94 mm
Thermal transmittance of glazing:	1.2 W/m <sup>2</sup> K
Double glazing cavity size:	16 mm
Gas filling:	Argon
Low Emissivity coat:	0.03 x 1
Type & linear thermal transmittance of spacer:	Warm edge 0.028 W/mK

**Certificate Number:** **BBA-BWF-061799-1**

**Notified Body Name and Number:** **N/A**

**Date of issue:** **July 2014**

The window dimensions are based on the test specimen size in accordance with BS EN 14351-1:2006+A1:2010 Table E.1. This U-value is not suitable to be used in window energy ratings calculations or U-value simulations according to BS EN ISO 10077-2. This certificate remains the property of BWF and shall be returned upon request.

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