

## HOW TO USE REHAU'S U VALUE CALCULATOR

### FOR REHAU TOTAL 70 AND RIO PRODUCTS

Building Regulations, Approved Document L will shortly be requiring all replacement windows and doors in dwellings to have a U Value of 1.4 W/m<sup>2</sup>.K or better. Doors have also had their U Value's reduced to 1.4 W/m<sup>2</sup>.K. For new build homes the window U Value will now be 1.2 W/m<sup>2</sup>.K in these updated regulations.

Whilst the replacement window industry also have the option to purchase Energy rated windows of B or better from Climatec, it is also possible to calculate the U values of your REHAU products using their online calculator at [www.rehauanswers.co.uk](http://www.rehauanswers.co.uk)

## YOUR STEP BY STEP GUIDE ON PRODUCING U VALUE REPORTS FOR YOUR PROJECT

### STEP 1

Open up RehaU's online calculator at [www.rehauanswers.co.uk](http://www.rehauanswers.co.uk)



For further information on energy efficiency windows from REHAU, please [CLICK HERE](#)

## REHAU ANSWERS

### THE AWARD WINNING ONLINE SOLUTION



#### U VALUE / WER & QUICK CHECK CALCULATOR

Work out all your thermal requirements with the easy to use REHAU online calculator, which will demonstrate the energy efficiency of REHAU window and door systems.

Use the Quick Check Calculator to quickly compare results for different REHAU Systems and glass combinations.



#### COMPETENT PERSON SCHEME & MINIMUM TECHNICAL COMPETENCIES

Membership to a Competent Person Scheme allows installers to carry out work and self-certify in accordance with Building Regulations.

From 6th June membership to such a scheme has a mandatory requirement that installers and surveyors demonstrate Minimum Technical Competencies (MTC) by means of an assessment.



#### CE MARKING COMPLIANCE

CE Marking is a mandatory requirement for the building and construction of products including windows and doors.

REHAU's Guide to CE Marking Conformance has been designed to simplify the declaration and labelling process.



**For further assistance, call 01702 613733**

[www.climatec-windows.co.uk](http://www.climatec-windows.co.uk)

11-14 Fletchers Square, Temple Farm Industrial Estate, Southend-on-Sea, Essex SS2 5RN

## STEP 2

We recommend you use the WER / U Value calculator for BRE Standard Windows - This will give you a calculation based on a standard UK Window\* shape, size and glazing type.

*\*Every window on your job will have its own individual U Value and will not necessarily be the same as another one on the job. If you prefer to have the individual window U Values, you can use any of the other calculators found on this page and just add the extra information required for each one.*



For further information on energy efficiency windows from REHAU, please [CLICK HERE](#) 

## U VALUE / WER CALCULATOR

### WELCOME TO THE REHAU ONLINE THERMAL CALCULATOR

This calculator is an easy to use tool which will demonstrate the energy efficiency of REHAU systems. This program has been designed to calculate the thermal transmittance (U Value) of windows and doors following the principals of BS EN ISO 10077-1 using REHAU window profiles. The results are approved and accepted by FENSA and Certass.

This calculator also provides a Window Energy Rating (WER) based on the conventions and methods outlined in the Approved Document L. The results are approved and accepted for use with the BFRC Simplified Energy License Scheme (S.E.L.) and with the Certass Thermal Rating Register.

This program will allow the user to demonstrate compliance of installed windows and doors with Building Regulation Part L following the guidance rules as set out in L1B section 4.20.

Use of the BRE 443 Standard Window will enable the user to calculate the U value and the Window Energy Rating (WER) value based on the guidelines as described in the Building Regulations Part L.

The other options available will enable the user to calculate U values for specific sizes and styles of windows and doors.

Further information can be found in our [user guide](#).

There is also a Quick Check Calculator to enable the user to quickly compare results between different REHAU systems and glass types and to assess the cost saving that could be achieved when purchasing a window without compromising on the energy efficiency.

If you have any requirements which are not covered within this calculator tool or you have any questions relating to its use please contact [enquiries@rehauanswers.com](mailto:enquiries@rehauanswers.com)

For a full range of products for your home, please visit [www.rehauhome.co.uk](http://www.rehauhome.co.uk)

### RECOGNISED BY



## SELECT YOUR CALCULATION TYPE



WER / U VALUE  
CALCULATIONS:  
BRE STANDARD  
WINDOW



QUICK CHECK  
CALCULATOR  
WER / U VALUE / COST



U VALUE  
CALCULATIONS:  
WINDOWS



U VALUE  
CALCULATIONS:  
DOORS



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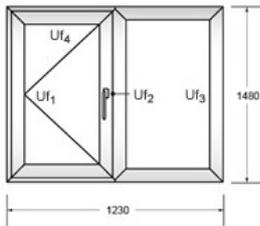
[www.climatec-windows.co.uk](http://www.climatec-windows.co.uk)

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## STEP 3

Work your way through the Frame and Glazing sections, selecting the relevant window/door profiles and glazing spec used. It may be worth you having your order confirmation to hand for full details of your manufactured job.

### U VALUE / WER CALCULATOR : BRE STANDARD WINDOW : BRE STANDARD



#### U VALUES:

The following values are only required for Custom reinforcement types. Values will need to be confirmed if an independent audit for WERs is carried out. For examples of reinforcements and values see NOTES in the [user guide](#).

Uf1	<input type="text" value="0"/>	Uf2	<input type="text" value="0"/>
Uf3	<input type="text" value="0"/>	Uf4	<input type="text" value="0"/>

**FRAME:**

Select Frame System...

Select Frame System

Select Frame System

Select Frame System

Select Frame System

F

G

S

G

P

**EXAMPLE**

**FRAME:**

REHAU Total 70c

5 Chamber - Std

Slim (52mm)

T Sash (75mm)

Slim T (69mm)

**GLAZING 1:**

Saint Gobain

28mm 4/20/4 Float/Argon/Total +

Thermobar + Butyl

**CALCULATE:**

## STEP 4

Now you are ready to Calculate your U Value.

#### U VALUES:

The following values are only required for Custom reinforcement types. Values will need to be confirmed if an independent audit for WERs is carried out. For examples of reinforcements and values see NOTES in the [user guide](#).

Uf1	<input type="text" value="0"/>	Uf2	<input type="text" value="0"/>
Uf3	<input type="text" value="0"/>	Uf4	<input type="text" value="0"/>

**NOTE:** These do not need to be completed if using the BRE Standard Window Calculator

T Sash (75mm)

Slim T (69mm)

**GLAZING 1:**

Saint Gobain

28mm 4/20/4 Float/Argon/Total +

Thermobar + Butyl

**CALCULATE:**

Gasket Height	0.5	mm
PSI Value	0.025	W/mK

Click to calculate the U Value of the window.

**For further assistance, call 01702 613733**

[www.climatec-windows.co.uk](http://www.climatec-windows.co.uk)

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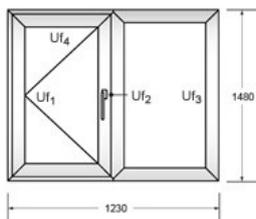
## STEP 5

The calculation is complete and the U Value is shown here. You can now create a report for printing and sharing by entering your Project or Company Name and Reference and selecting 'Print Report'.

### U VALUE CALCULATION : BRE STANDARD WINDOW

REHAU TOTAL 70C

U VALUE: **1.38 W/m<sup>2</sup>K**



[Read Disclaimer](#)

Project Title/Company Name:  
 ←

Project Ref:  
 ←

Frame Details	
Outer Frame	Slim (52mm) 546075/815
Mullion	Slim T (69mm) 546080/5
Sash	T Sash (75mm) 546106/855
Reinforcement Type	5 Chamber - Std

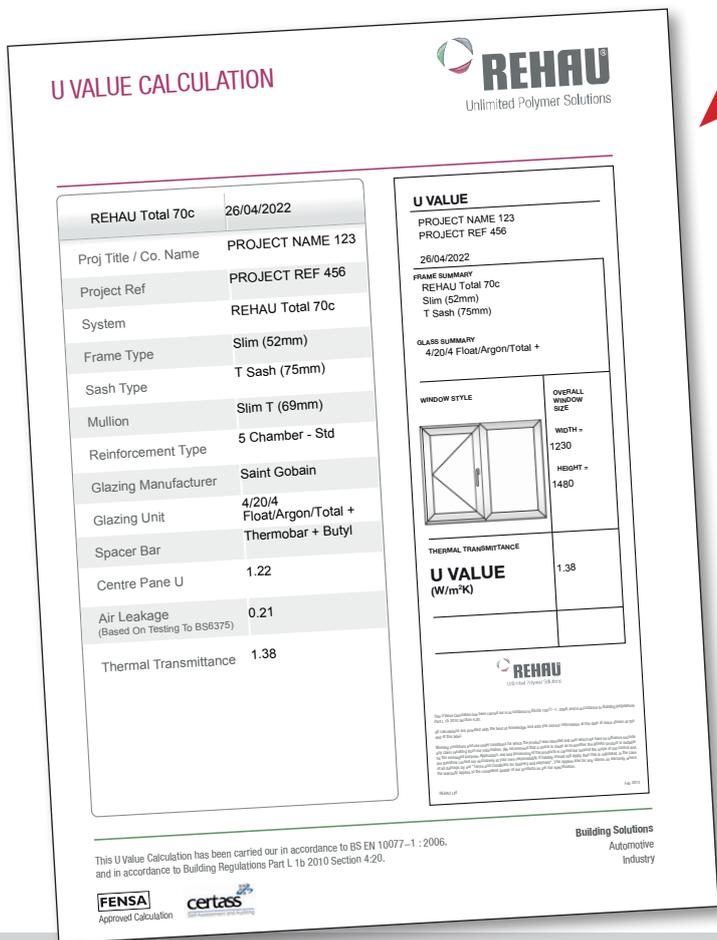
Glazing	
Saint Gobain	1.22

← BACK TO CALCULATOR

Click here. A pdf file will be created for you to download.

PRINT REPORT

← BACK TO START



[www.rehauanswers.co.uk](http://www.rehauanswers.co.uk)  
 BRE Standard Window U Value Calculator

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