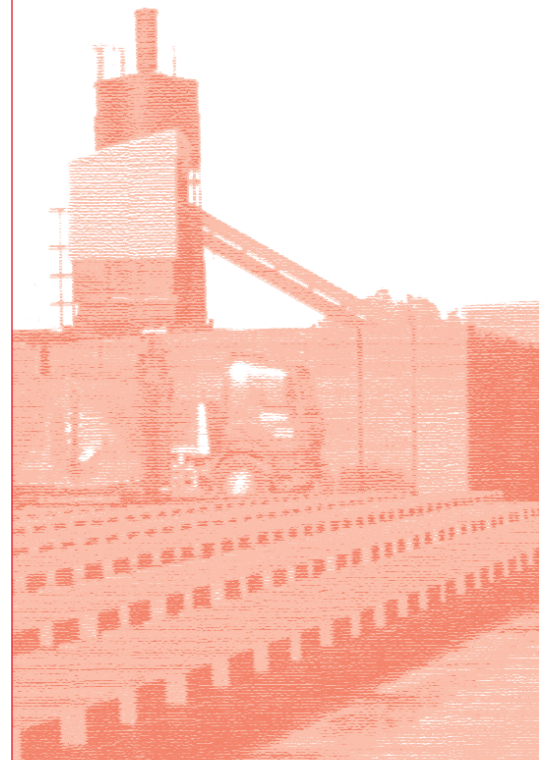


# Stowell Concrete Ltd

## U Value Calculations

1. Print this page and refer to it as you continue.
2. Click on the link below or enter into your computer...  
[http://www.cba-blocks.org.uk/tech/tech\\_uvalue.html](http://www.cba-blocks.org.uk/tech/tech_uvalue.html)  
to get to the U value Calculator.
3. Complete your External Render and External Insulation choices.
4. When you come upon Details about Outer Leaf;  
If using Stowell Dense 7.3N/mm<sup>2</sup>, select the High Density Outer Leaf 1.21 W/m.K and change from 1.21 to 1.31.  
If using Stowlite 7.3N/mm<sup>2</sup>, select the Medium Density Outer Leaf 0.61 W/m.K.  
If using Stowlite 10.4N/mm<sup>2</sup>, select the Medium Density Outer Leaf 0.61 W/m.K and change the 0.61 to 0.75W/m.K.  
If using Fibo 3.6N/mm<sup>2</sup>, select the Low Density Outer Leaf 0.33 W/m.K and change the 0.33 to 0.29W/m.K.
5. Complete Details about Cavity.
6. When you come upon Details about Inner Leaf:  
If using Stowell Dense 7.3N/mm<sup>2</sup>, select the High Density Inner Leaf 1.13 W/m.K and change from 1.13 to 1.22.  
If using Stowlite 7.3N/mm<sup>2</sup>, select the Medium Density Inner Leaf 0.57 W/m.K.  
If using Stowlite 10.4N/mm<sup>2</sup>, select the Medium Density Inner Leaf 0.57 W/m.K and change the 0.57 to 0.71W/m.K.  
If using Fibo 3.6N/mm<sup>2</sup>, select the Low Density Inner Leaf 0.30 W/m.K and change the 0.30 to 0.27W/m.K.
7. Complete Internal Insulation and Details about Internal Finish.  
Note: When using Insulation Materials, you can alter the thermal conductivities to suit the specific product being used. You can alter the thickness as well, but check the thickness is available.
8. The thickness of the wall, as well as the U value (to two decimal places) are both automatically calculated for you.
9. Click on Summary of Calculation for the breakdown of the U value calculation.

Note: There might be minor discrepancies from Stowell Concrete's website solutions (when using wider cavities) if the Concrete Block Association U Value Calculator has selected 'Area of Wall Ties: 50mm<sup>2</sup>', as we conclude that when using Staifix HRT4 Wall Ties, wall tie corrections are either 0.001 or 0.002 depending on the ties used.



**STOWELL**  
CONCRETE LIMITED

11/11

[www.stowellconcrete.co.uk](http://www.stowellconcrete.co.uk)