

Background

I have designed an U-value calculator to calculate the U-value of building automatically. Sometimes, the main components of buildings are constituted by several types of materials. For example, the window are double glazing and there may be some other filling materials. This U-value calculator is able to simplify the calculation for some components which have several kinds materials.

Formulas

$$U = \frac{1}{R} \quad R \text{ refers to thermal resistance}$$

$$R = \frac{L}{K} \quad L \text{ refers to the thickness of the material and } K \text{ refers to thermal conductivity.}$$

Key functions

Users just need to import the value of thickness and thermal conductivity of each materials and the software will output the result (U-value) according to the formula. This software is beneficial to improve the working efficiency and reduce the mistakes in the calculation.

Similar products

A matrix calculator can help user to calculate some complex matrix functions. For example, if engineers faces a matrix calculation which is a 30*30 matrix, the matrix calculator can greatly reduce the time consuming problem and output an accurate answer.