

## U-value calculator

- Background: Used to calculate the thermal insulation performance of building materials.
- Motivation: The U-value formula is relatively complicated, and the calculator can simplify the steps to get the answer directly.
- Key function: Enter the thermal conductivity and thickness of each material to obtain the thermal conductivity of the target building material.
- Basis:  $R = \frac{d}{k}$  (k is thermal conductivity and d is thickness)
- Main formula: 
$$U = \frac{1}{R_1 + R_2 + \dots + R_n} = \frac{1}{\frac{d_1}{k_1} + \frac{d_2}{k_2} + \dots + \frac{d_n}{k_n}}$$
- Products in market: U 值玻璃计算器 开发者: 来自海纳搜索  
Available at: <https://www.qimai.cn/andapp/shelves/appid/331485>