

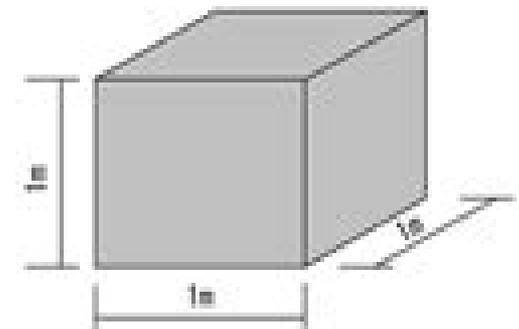
Basic heat load calculation for air-conditioning system

(3) How to calculate heat load

"Heat transfer load (2)"

Calculation example

Let's determine the heat transfer load of a cubic building surrounded by walls as shown in the drawing.



Coefficient of overall heat transfer : U-factor

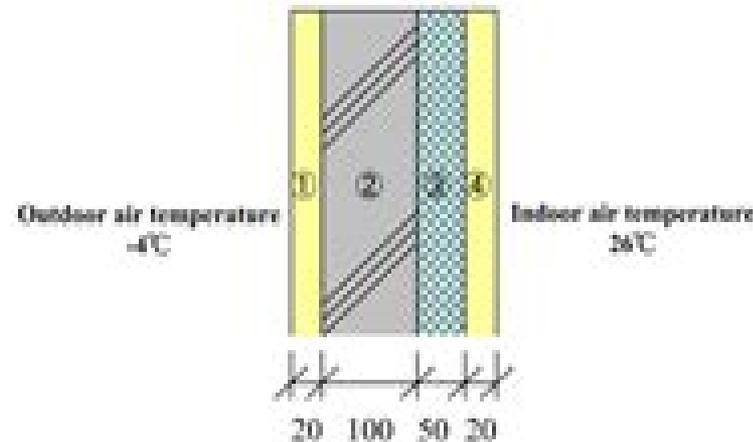
$$U = \frac{1}{\frac{1}{23} + \frac{0.02}{1.5} + \frac{0.1}{1.4} + \frac{0.05}{0.042} + \frac{0.02}{1.5} + \frac{1}{9}}$$
$$= 0.69 \quad [W / m^2 \cdot K]$$

Wall surface area : A

$$A = (1 \times 1) \times 6 = 6 \quad [m^2]$$

Heat transfer load : q_k

$$q_k = 0.69 \times 6m^2 \times \{26^\circ C - (-4)^\circ C\} = 124 \quad [W]$$



Wall materials

Material	Thickness (mm)	λ (W / m · K)
①. Mortar	20	1.5
②. Concrete	100	1.4
③. Glass wool 24K	50	0.042
④. Mortar	20	1.5

The heat transfer load can be reduced with the use of a material having a low thermal conductivity or thicker member.

Cooling Load Calculation And Design Of Air Conditioning

Victor M. Corman



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