

U Value Calculation according to BS EN ISO 10077-1:2006

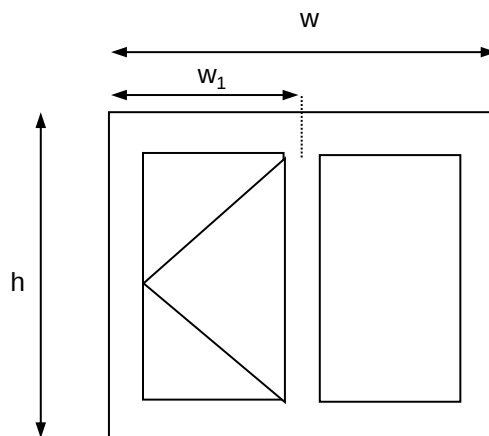


Company Swadlincote
Project Ref. 6.4-18-4 Lam/ Planitherm, Argon

Window Type
a) Double Side Hung/Top Hung
b) Side Hung Next to Dummy Sash

Parameters

Window width $w = 1230$ mm
 $w_1 = 615$ mm
 Window height $h = 1480$ mm
 O/F & Sash $o = 113$ mm
 Mullion $m = 169$ mm
 U Value Frame $U_f = 1.0$ W/m²K
 U Value Glazing $U_g = 1.2$ W/m²K
 ψ Glazing $\psi_g = 0.032$ W/mK



Calculation

High Glazing 1 $h_{g1} = 1254$ mm
 Width Glazing 1 $w_{g1} = 418$ mm
 High Glazing 2 $h_{g2} = 1254$ mm
 Width Glazing 2 $w_{g2} = 418$ mm
 Area Window $A_w = 1.82$ m²
 Area Frame $A_f = 0.77$ m²
 Area Glazing $A_g = 1.05$ m²
 Surrounding G. $l_g = 6.69$ m

} visual glazing sizes

$$U_w = \frac{A_g \cdot U_g + A_f \cdot U_f + l_g \cdot \psi_g}{A_g + A_f} = \underline{\underline{1.21 \text{ W/m}^2\text{K}}}$$