

Schedule of Standard Forms

Form OTTV 1

Form OTTV 2

Form OTTV 3

Form OTTV 4

Building (Energy Efficiency) Regulation
Form OTTV 1

Calculation of 'U' Value of Composite Wall/Roof
and Details of Other Values

Sheet No. A _____

BD Ref 2/____/____/____

Building address _____

Physical data of Opaque *Wall/Roof

Facade Orientation facing _____ Solar Factor (SF) is _____

*Wall/Roof Code No.	*W ₁ /R ₁	*W ₂ /R ₂	*W ₃ /R ₃	*W ₄ /R ₄
Location of Wall/Roof				
External Finish Material				
Conductivity W/m°C				
Density kg/m ³				
Thickness m				
Absorptivity (α)				
Intermediate component				
Conductivity W/m°C				
Density kg/m ³				
Thickness m				
Intermediate component				
Conductivity W/m°C				
Density kg/m ³				
Thickness m				
Intermediate component				
Conductivity W/m°C				
Density kg/m ³				
Thickness m				
Intermediate component				
Conductivity W/m°C				
Density kg/m ³				
Thickness m				
Internal Finish Material				
Conductivity W/m°C				
Density kg/m ³				
Thickness m				
Absorptivity α				
'U' value of composite *Wall/Roof				
Area of *Wall/Roof m ²				
Density of composite *Wall/Roof kg/m ²				
Equivalent temperature difference (TD _{EQ})				

Building (Energy Efficiency) Regulation
Form OTTV 2

Window/Rooflight Schedule

Sheet No. B _____

BD Ref 2/___/___/___

Building address _____

Physical data on *window/rooflight

Facade Orientation facing _____

Solar Factor (SF) is _____

Window/Rooflight Code No.	*F ₁ /RL ₁	*F ₂ /RL ₂	*F ₃ /RL ₃	*F ₄ /RL ₄
Location of *Window/ Rooflight				
Glazing type				
Thickness m				
Shading Coefficient (SC)				
Type of shading device				
External Shading Multiplier (ESM)				
Area of glazing m ²				

Physical data on *window/rooflight

Facade Orientation facing _____

Solar Factor is _____

Window/Rooflight Code No.	*F ₁ /RL ₁	*F ₂ /RL ₂	*F ₃ /RL ₃	*F ₄ /RL ₄
Location of *Window/ Rooflight				
Glazing type				
Thickness m				
Shading Coefficient (SC)				
Type of shading device				
External Shading Multiplier (ESM)				
Area of glazing m ²				

* Delete as appropriate

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Building (Energy Efficiency) Regulation
Form OTTV 3

Calculation of OTTV of Individual Facade in Building Envelope

Sheet No. C _____

BD Ref 2/____/____/____

Building address _____

Facade Orientation facing _____.

Opaque *Walls/Roofs

Code No.	Description	*A _w /A _r	U	α	TD _{EQ}	Sum
Subtotals			(A)	Heat Gain		(C)

Fenestration

Code No.	Description	*Af _w /Af _r	SC	ESM	SF	Sum
Subtotals			(B)	Heat Gain		(D)

Gross Heat Gain (C + D) _____

Gross Area (A + B) _____

$$OTTV = \frac{C + D}{A + B} = \text{_____ W/m}^2$$

* Delete as appropriate

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Building (Energy Efficiency) Regulation
Form OTTV 4

Summary of OTTV of Building Envelope

Sheet No. D _____

BD Ref. 2/____/____/____

Building address _____

Total Envelope Heat Gain (* Tower/Podium)

Facade Orientation	Gross Area from Form OTTV 3	Gross Heat Gain from Form OTTV3
a.		
b.		
c.		
d.		
e.		
f.		
Subtotal	(E)	(G)
Roof		
a.		
b.		
Subtotal	(F)	(H)

$$* \text{ Tower/Podium Walls OTTV} = \frac{G}{E} = \text{_____ W/m}^2$$

$$* \text{ Tower/Podium Roofs OTTV} = \frac{H}{F} = \text{_____ W/m}^2$$

$$* \text{ Tower/Podium OTTV} = \frac{G + H}{E + F} = \text{_____ W/m}^2$$

* Delete as appropriate

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