



GLASS WEIGHT CALCULATION REPORT

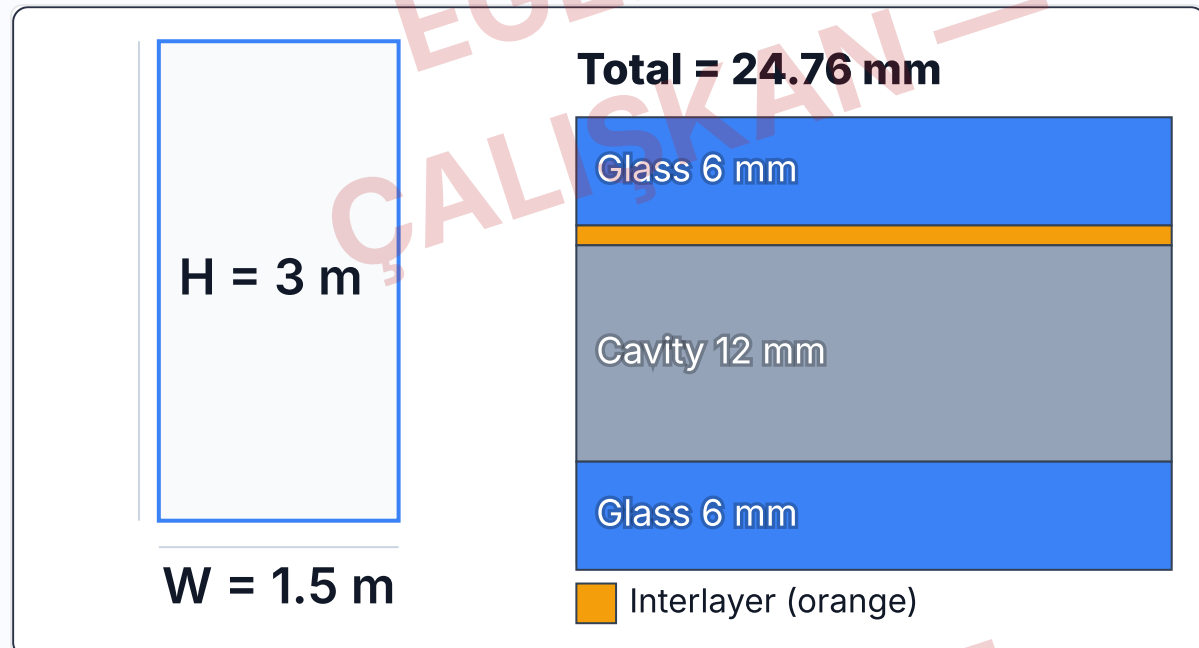
For preliminary sizing only; final design must be checked
by a qualified engineer to the applicable standards.

Project	Sample Project	Subject	Glass Weight Calculation (EN 1991-1-1)
Prepared by	Civil Engineer	Approved by	Senior Structural Engineer
Date	10/18/2026	Unit System	SI (mm, kg/m ² , kN/m ²)

1) Geometry

Shape	Rectangle	Quantity (n)	1
Width W	1500 mm	Height H	3000 mm
Area (single)	4.5 m ²	Area (total)	4.5 m ²

Shape Preview



2) Layers

#	Type	t
1	Glass	6 mm
2	Interlayer	0.76 mm
3	Cavity	12 mm
4	Glass	6 mm

3) Material Parameters

Glass mass density ρ	2500 kg/m ³ (156.07 lb/ft ³)	EN 1991-1-1 nominal γ	25 kN/m ³ (info)
Interlayer weight	0.01 kN/m ² ·mm (5.305 psf/in)	Note	IGU cavities are not included in weight

4) Results

Quantity	Value
m_{areal}	30.76 kg/m ²
w_{areal}	0.3076 kN/m ²
m_{total} (kg)	138.42 kg
m_{total} (lb)	305.16 lb
W_{total}	1.384 kN

5) Assumptions

- Glass $\rho \approx 2500$ kg/m³ (nominal weight density per EN 1991-1-1 $\gamma \approx 25$ kN/m³).
- Interlayer contribution in kN/m²·mm; default 0.010 (PVB ~ 0.0108 , SGP ~ 0.0095).
- Triangle $A = (b \cdot h) / 2$, Rectangle $A = W \cdot H$. IGU cavities are excluded from weight.