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GLASS WEIGHT CALCULATION REPORT

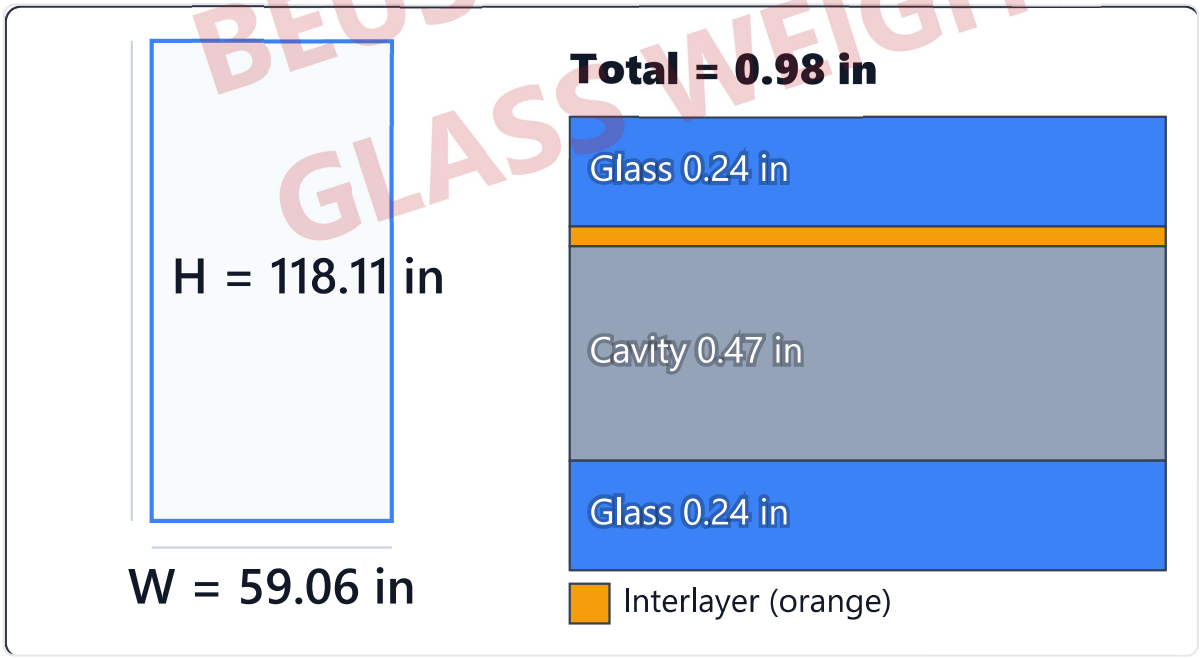
For preliminary sizing only; final design must be checked by a qualified engineer to the applicable standards.

Project	Sample Project	**Subject**	Glass Weight Calculation
Prepared by	Mechanical Engineer Egemen Caliskan	**Approved by**	BEUS FACADE CONSULTING & ENGINEERING
Date	8/17/2025	**Unit System**	US / Imperial (in, lb/ft², psf)

1) Geometry

Shape	Rectangle	**Quantity (n)**	1
Width W	59.06 in	**Height H**	118.11 in
Area (single)	48.438 ft²	**Area (total)**	48.438 ft²

Shape Preview



2) Layers

#	Type	t
1	Glass	0.24 in
2	Interlayer	0.03 in
3	Cavity	0.47 in
4	Glass	0.24 in

3) Material Parameters

Glass mass density ρ	156.07 lb/ft³ (2500 kg/m³)	**EN 1991-1-1 nominal γ**	25 kN/m³ (info)
Interlayer weight	5.305 psf/in (0.01 kN/m²·mm)	**Note**	IGU cavities are not included in weight

4) Results

Quantity	Value
m_{areal}	6.399 lb/ft²
w_{areal}	6.525 psf
m_{total} (kg)	140.59 kg
m_{total} (lb)	309.95 lb
W_{total}	0.316 kip

5) Assumptions

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