

Sizing & Weight Guide

Glass weight formula, sealed unit weights and safe handling thresholds

How Glass Weight Is Calculated

Glass weight is determined by surface area multiplied by the density of the glass. Standard float glass weighs approximately 2.5 kg/m² per millimetre of thickness (density 2,500 kg/m³). A standard 4mm float pane therefore weighs 10 kg/m². For sealed double glazed units (DGUs), total weight is the sum of both panes — a common 4-20-4 argon-filled unit weighs roughly 20 kg/m². Triple glazed units add a third pane and reach 28-32 kg/m² depending on specification.

Single Glass — Weight per m²

Thickness	Wt/m ²	600×900	1000×1200	1500×2000
3mm	7.5 kg	4.1 kg	9.0 kg	22.5 kg
4mm	10 kg	5.4 kg	12 kg	30 kg
6mm	15 kg	8.1 kg	18 kg	45 kg
8mm	20 kg	10.8 kg	24 kg	60 kg
10mm	25 kg	13.5 kg	30 kg	75 kg
12mm	30 kg	16.2 kg	36 kg	90 kg

Handling Thresholds

Weight	Method	Equipment
Up to 25 kg	Manual — one person	Glazing gloves, edge protectors
25-40 kg	Manual — two people	Suction cups available
40-60 kg	Suction cups recommended	Manual vacuum cups (2 or 3-cup)
60-100 kg	Mechanical handling	Powered vacuum lifter, glass trolley
Over 100 kg	Crane / large vacuum	Overhead crane, mobile crane

Worked Example

A 1,200mm x 900mm DGU with 4mm outer and 4mm inner panes: area = 1.08 m². Total weight ≈ 1.08 x 20 = 21.6 kg. At this weight, two-person handling is recommended under Manual Handling Regulations.

How to Order

Contact our sales team: 020 8574 9342 | 07305 993794 | sales@csultd.co.uk | csultd.co.uk — quotes returned within 2 business hours (Mon-Fri, 8am-5pm).