

Glass Balustrade Units

Structural toughened laminated glass for barriers — stairs, balconies, terraces, pool surrounds

Toughened Glass Alone Is Not Acceptable

When toughened-only glass breaks it shatters completely, removing the barrier and creating a fall hazard. Only toughened laminated glass — which stays intact after breakage — may be used as guarding. This is a mandatory safety requirement with no exceptions.

Product Overview

Glass balustrade loading requirements depend on the building location and expected occupancy. BS 6180 specifies the minimum horizontal line load (at handrail height) and infill pressure (distributed across the glass panel) that the barrier must withstand.

Loading Requirements

Location	Line Load	Infill	Min Glass	Weight/m ²
Residential (private)	0.36 kN/m	0.5 kN/m ²	8.8mm T/Lam	21 kg
Residential (common)	0.74 kN/m	1.0 kN/m ²	10.8mm T/Lam	26 kg
Office / Commercial	0.74 kN/m	1.0 kN/m ²	10.8mm T/Lam	26 kg
Retail / Public assembly	1.5 kN/m	1.5 kN/m ²	13.5mm T/Lam	31 kg
Crowd areas / Stadia	3.0 kN/m	3.0 kN/m ²	17.5mm+ T/Lam	41+ kg

Fixing Options

Application	Glass	Interlayer	Fixing
Internal balustrade	10.8mm T/Lam	PVB 0.76mm	Channel / bolt / clamp
External balcony	13.5mm T/Lam	PVB 1.52 / SGP	Channel / base clamp
Freestanding barrier	17.5mm T/Lam	SGP 1.52mm	Deep channel / structural bolt
Pool surround	10.8mm T/Lam	PVB 0.76mm	Stainless spigot / channel

Handling, Storage & Lead Times

- **Storage:** Store vertically on A-frames under cover. Never store flat.
- **Handling:** Suction cups for units over 25kg. Mechanical handling over 60kg.
- **Edge protection:** Protect edges during transport. Avoid glass-to-glass contact.
- **Installation:** Install within 28 days of delivery for warranty validity.
- **Temperature:** Do not install below 5°C. Allow units to acclimatise first.

Product	Standard	Express	Notes
Standard DGU	3-5 days	1-2 days	Most configs
Triple Glazed	5-7 days	3-4 days	Warm edge std
Integral Blinds	10-15 days	—	Made to order
Jumbo Units	5-10 days	—	Size dependent
Shaped Units	5-7 days	—	Template req.
Fire-Rated	7-14 days	—	Availability
Walk-On Glass	7-10 days	—	SGP lamination
Smart Glass	10-15 days	—	PDLC film

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).