

Walk-On Glass / Glass Floor Units

Structural glass engineered for pedestrian loading — sacrificial multi-ply design

Product Overview

Walk-on glass uses the sacrificial ply design principle: minimum 3 plies of glass so that if any single ply fails, the remaining plies support the full design load safely. A DuPont SGP (SentryGlas) interlayer is significantly stronger and stiffer than conventional PVB, providing genuine structural performance. Low-iron glass (Pilkington Optiwhite, SGG Diamant) is recommended for thick multi-ply layups to reduce the green tint that standard float produces.

Load Ratings & Configurations

Configuration	Thick.	Load	Weight/m ²	Application
T10+T10+10.8L SGP	31.5mm	1.5 kN/m ²	75 kg	Residential light
T10+T10+13.5L SGP	34.0mm	2.5 kN/m ²	82 kg	Residential standard
T12+T12+13.5L SGP	38.0mm	4.0 kN/m ²	92 kg	Commercial light
T15+T15+17.5L SGP	48.0mm	5.0 kN/m ²	115 kg	Commercial standard
T19+T19+21.5L SGP	60.0mm	7.5 kN/m ²	145 kg	Heavy commercial

Load figures are indicative — the final layup is confirmed by structural calculation for your exact span, support condition and imposed load.

Anti-Slip Options

Treatment	Slip Rating	Appearance	Durability	Privacy
Full Sandblast	R10-R11	Translucent matt	Excellent	High
Acid Etch	R10	Smooth satin	Good	Medium
Ceramic Frit Dots	R10-R12	Regular dots	Excellent	Low-Med
Anti-Slip Film	R10-R11	Clear/frosted	Replaceable	Low

Critical Requirements

- Structural engineer sign-off required for all installations.
- Continuous 4-edge support, minimum 25mm bearing.
- Deflection limit: span/250 under full imposed load.
- Low-iron glass recommended to reduce green tint in thick layups.

Glass Weight Reference

Glass weighs 2.5 kg per m² per mm of thickness (density 2,500 kg/m³). Sealed unit weight = sum of glass panes.
 Formula: Weight (kg) = Thickness (mm) × 2.5 × Area (m²).

Glass / Unit	Weight/m ²	600×900	1000×1200	1500×2000
4mm single	10 kg	5.4 kg	12 kg	30 kg
6mm single	15 kg	8.1 kg	18 kg	45 kg
4-16-4 DGU	20 kg	10.8 kg	24 kg	60 kg
4-20-4 DGU (28mm) ★	20 kg	10.8 kg	24 kg	60 kg
6-16-6 DGU	30 kg	16.2 kg	36 kg	90 kg
4-16-4-16-4 TGU	30 kg	16.2 kg	36 kg	90 kg
6.8mm Laminated	16 kg	8.6 kg	19 kg	48 kg
10.8mm Laminated	26 kg	14.0 kg	31 kg	78 kg

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).