

Jumbo Sealed Units

Oversize sealed units up to 6000 x 3210mm — largest standard format in the UK

Product Overview

CSU Ltd manufactures jumbo sealed units up to 6000mm x 3210mm using our automated sealing line — the largest standard sealed unit format available in the UK. Available in DGU and TGU configurations with all glass types, coatings and gas fills. Jumbo toughening available up to 4800 x 2400mm; jumbo laminating up to 6000 x 3200mm. All solar control brands available in jumbo sizes for facade applications.

Maximum Sizes

Configuration	Max Width	Max Height	Max Area	Max Weight
Standard DGU	3210mm	2500mm	8.0 m ²	~160 kg
Jumbo DGU ★	6000mm	3210mm	19.3 m ²	~386 kg
Standard TGU	2800mm	2200mm	6.2 m ²	~186 kg
Jumbo TGU	5000mm	3000mm	15.0 m ²	~450 kg

Maximum sizes are subject to glass type, thickness and total weight — contact us to confirm specific sizes for your project.

Applications

- **Curtain walling:** full-height facade panels for commercial buildings.
- **Structural glazing:** silicone-bonded glass facades.
- **Shopfronts:** full-height display windows for retail.
- **Atrium glazing:** large overhead and vertical glazed areas.
- **Glass box extensions:** residential and commercial.

Handling & Delivery

Jumbo units require mechanical handling — vacuum lifters, glass trolleys, overhead crane. Delivery via specialist vehicles with A-frame racking. Crane offloading may be required on site. Ensure adequate site access before ordering.

Gas Fill — Air as Standard, Argon Optional

CSU sealed units are air-filled as standard. Argon gas fill (minimum 90% concentration) is available as an optional upgrade. Argon has 34% lower thermal conductivity than air (0.018 vs 0.026 W/mK), improving thermal insulation by approximately 15%. Argon is an inert, non-toxic, odourless gas that makes up 0.93% of Earth's atmosphere. Krypton gas is available by special order for slim-cavity applications where maximum performance is needed in a narrow gap.

Property	Dry Air (Standard)	Argon (Optional)	Krypton (Special)
Thermal conductivity	0.026 W/mK	0.018 W/mK	0.010 W/mK
U-value benefit	Reference	~15% better	~25% better
Optimal cavity	12-16mm	16-20mm	10-12mm
Depletion rate	N/A	<1% per year	<1% per year
Relative cost	1x	~1.2x (optional upgrade)	~50x (premium)

Spacer Bar Options — Warm Edge vs Aluminium

Traditional aluminium spacers conduct heat rapidly, creating a cold thermal bridge at the unit edge that causes condensation and heat loss. Warm edge spacers use low-conductivity materials, reducing this bridge by up to 94%. CSU recommends Swisspacer Ultimate or Super Spacer TriSeal for all projects.

Spacer	Material	Conduct. (W/mK)	Psi value	Edge Temp vs Alu.
Aluminium	Aluminium alloy	160.0	0.080	Baseline (cold)
Swisspacer Ultimate ★	Composite polymer	0.19	0.030	+3-4°C warmer
Super Spacer TriSeal ★	Silicone foam	0.17	0.028	+3-4°C warmer
Thermix TX.N Plus	Stainless + plastic	0.60	0.040	+2-3°C warmer
TGI Spacer	Stainless + polymer	0.90	0.050	+1-2°C warmer

Warm edge improves whole-window U-value by 0.1-0.2 W/m²K, eliminates edge condensation, and can improve Window Energy Rating by one full band. Available in widths: 6-24mm.

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

Product	Standard	Express	Notes
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).