

Low-Iron / Optiwhite Glass

Ultra-clear glass with $\leq 0.01\%$ iron oxide — no green tint, 91.5% light transmission

Overview

Low-iron glass is manufactured with reduced iron oxide content ($\leq 0.01\%$ Fe $\blacksquare$ O $\blacksquare$ compared to $\sim 0.10\%$ in standard float), virtually eliminating the characteristic green tint visible at glass edges and through thick multi-ply constructions. This provides 91.5% light transmission (vs 90% for standard 4mm clear) and true colour rendering.

Low-iron is essential for walk-on glass floors (where multiple thick plies create noticeable green tint), glass balustrades (green edge visible at frameless edges), back-painted splashbacks (truest paint colour), and mirrors (truest colour reflection).

Standard vs Low-Iron

Property	Standard Float	Low-Iron	Difference
Iron oxide	$\sim 0.10\%$	$\leq 0.01\%$	90% less iron
Light (4mm)	90%	91.5%	+1.5%
Light (6mm)	89%	91%	+2%
Light (10mm)	87%	90.5%	+3.5%
Edge colour	Green tint	Near colourless	No green

Brand Reference

Manufacturer	Product	Thicknesses	Max Size
Pilkington	Optiwhite™	4-19mm	6000x3210
Saint-Gobain	Diamant®	3-19mm	6000x3210
Guardian	UltraClear™	4-12mm	5100x3210
AGC	Clearvision™	4-12mm	6000x3210

Applications

- **Walk-on glass floors:** eliminates green tint in thick layups.
- **Balustrades:** crystal-clear frameless edges.
- **Back-painted splashbacks:** truest paint colour.
- **Shower screens:** premium clarity.
- **Low-iron mirrors:** truest colour reflection.

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).