

Semi-Frameless Glass Balustrade System

Technical Specification & Safe Use — 42.4 mm stainless steel posts with 10 mm toughened glass — black and satin

This sheet describes the semi-frameless glass balustrade system supplied by The Outdoor Look: 42.4 mm round stainless steel posts with D-shape glass clamps holding 10 mm toughened glass, in black (304, powder-coated) or satin (316, brushed). It sets out the specification, the setting-out rules every job is worked to, and the limits on where the system may be used.

This system is not a guarding barrier. It is supplied for drops below 600 mm only. It has no handrail, and the post manufacturer states that without a handrail the system will not pass building regulations and is only suitable where the drop is less than 600 mm. Where guarding is required, specify our Post & Handrail, aluminium or frameless glass system instead.

01 WHERE THIS SYSTEM CAN BE USED

UK building regulations require guarding wherever there is a drop of more than 600 mm. Guarding must be at least 1100 mm high for external balconies, terraces and decking. This system is not designed or supplied as guarding, so it is used only where the drop is below 600 mm.

Suitable for

- Deck edges close to ground level
- Patio and terrace edges
- Garden boundaries, raised beds and planting edges
- Pool surrounds where the drop is below 600 mm (satin finish recommended)
- Low steps where the drop is below 600 mm

Not suitable for

- Balconies
- Raised decking or terraces with a drop of 600 mm or more
- Stairs or landings where guarding is required
- Any location where children have access to a drop of 600 mm or more
- Commercial or public areas requiring guarding

If you are unsure which applies to your project, call 01282 526428 before ordering.

02 PRODUCT & MATERIAL SPECIFICATION

System type	Glass infill clamped between bolt-down posts · no handrail
Black finish	304 stainless steel, black powder-coated
Satin finish	316 marine-grade stainless steel, brushed, uncoated
Post	42.4 mm diameter tube · welded base plate with cover · bolt down
Post height	1100 mm, without post top
Base plate	101.5 mm diameter
Clamp centres	722 mm, centre of bottom clamp to centre of top clamp
Glass clamp	D-shape round clamp for 10 mm glass on a 42.4 mm tube, with gaskets
Glass	10 mm toughened safety glass to BS EN 12150 · polished edges, dubbed corners · 1024 mm high
Stock glass widths	300 to 1100 mm in 100 mm steps, clear
Cut-to-size glass	Clear, frosted, grey, green or bronze
Post caps	Satin: raised top, hammer fit · Black: flat top, glue fit
Fixings	Ground fixings not supplied — substrate-appropriate fixings by installer

03 POST TYPES

TYPE	GLASS CLAMPS	USED WHERE
End post	2, one face	Each end of a section
Mid post	4, two opposite faces	Between two panes on a straight run
Corner post	4, two faces at 90°	A 90° change of direction
Blank post	None	Breaks, steps and edges where no glass meets the post
Off-square corner	End post + 2 extra D-shape clamps	A corner that is not 90° — the extra clamps are fitted on site at the required angle

A glass gate kit is available in satin only, hung between two posts. The legs either side of a gate are set out as separate sections.

04 SETTING OUT

PARAMETER	VALUE	BASIS
Maximum post centres	1200 mm	The Outdoor Look standard
Base plate set-in from the edge	20 mm at every post end, corners included	The Outdoor Look standard
Glass edge to post face	18 mm minimum, 38 mm maximum	Clamp adjustment
Pane width at C mm centres	$C - 100$ mm nominal ($C - 118.4$ to $C - 78.4$)	Derived from the two rows above
Section ends	Always an end post — no wall ends	The Outdoor Look standard

The 1200 mm maximum post centre is **our own setting-out standard**. It is not a load rating and must not be presented as one.

Stock widths are used wherever the run allows. Where a run cannot be divided into stock widths, one pane or every pane on that leg is cut to size. Sloping or stepped legs, where the drop stays below 600 mm, are never stock: each raked pane is cut to size from a template supplied by the customer, measured along the slope post to post. Every job is drawn up as a CAD drawing for approval before any glass is cut.

05 STRUCTURAL PERFORMANCE

No load test data is held for this system.

The post manufacturer publishes no load figures for the assembled system, the base plate, the clamps or the post. It states that, without a handrail, the system will not pass building regulations and is suitable only where the drop is less than 600 mm. We do not quote a load rating we cannot evidence, and no such rating should be inferred from this sheet or from any figure quoted elsewhere for glass balustrades generally.

Because the system is supplied only for drops below 600 mm, no guarding load case arises under UK building regulations. Where any structural performance requirement exists for a specific project, establishing it is the responsibility of the specifier or building designer, and this system should not be assumed to meet it.

06 MATERIAL STANDARDS

STANDARD	COVERS
BS EN 10088	Stainless steel material performance
BS EN 12150	Thermally toughened soda lime silicate safety glass

316 is the most corrosion-resistant stainless grade in common architectural use and suits coastal and poolside sites with routine cleaning. The black finish is 304 stainless steel protected by its powder coating and is not recommended for coastal or poolside installations.

07 CONDITIONS OF INSTALLATION

- Confirm the drop is below 600 mm before installing
- Verify the substrate will carry the posts; on decking, posts fix into solid structure, not the boards alone
- Use stainless steel fixings suited to the surface — dissimilar metals cause galvanic corrosion
- Ground fixings are not supplied; the correct fixing depends entirely on the surface
- Set every post plumb, at the drawn centres, and allow anchors to cure fully before glazing
- Always fit the gaskets — glass must never be clamped directly against metal
- Toughened glass cannot be cut, drilled or worked after manufacture; any attempt will shatter the pane
- Check every pane on delivery and report any damage within 48 hours
- Do not drill or modify posts or clamps

08 INSPECTION & HANDLING

- Inspect at least once a year: posts firm, clamp screws tight, gaskets in place, glass free of chips and cracks
- Replace any chipped or cracked pane — toughened glass cannot be repaired
- Carry glass on edge, never flat, with two people for larger panes; wear gloves
- Store panes upright on timber bearers, never on concrete or stone, and protect the edges
- Secure the work area while glazing

All stainless steel components are fully recyclable.

This sheet describes the semi-frameless glass balustrade system only. Responsibility for the supporting structure, the substrate fixings, and confirming that the drop is below 600 mm rests with the installer or building designer. This document supersedes any earlier statement that this system is compliant with building regulations or designed in line with BS 6180.