

Laser Blocking Vision Panel



Laser Blocking Vision Panels are also available as X-Ray shielded slatted blinds for hospitals

Laser-blocking, slatted-blinds are ideal for use in operating rooms and are effective in blocking all medical lasers of all wavelengths.

Tested in accordance with Laser safety standard **IEC 60825-4** and designed to fit into window and door openings in operating rooms, this highly effective and professional laser blocking system is ideal for hospitals and other facilities where there is a need to guard against the escape of laser beams. The unit can be installed as a standard fit within the door or window aperture or it can be fitted as a flush fit where the surfaces of the unit match those of the aperture edges.

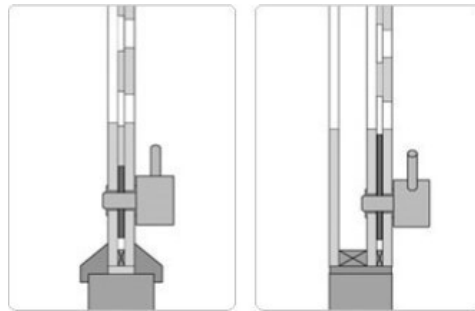
A simple lever operates the slats within the window to either allow or block laser light from penetrating. Selecting the double sided lever option enables the blind to be operated from both sides. The system uses .24 inch toughened glass in front of the slatted blind to prevent the ingress of dust and infection.

The standard fit unit is a fully bonded, semi-hermetic unit that eliminates the need for an unhygienic, metal housing and allows a tight seal to be made between the glass and the beading. It can be positioned either centrally across the door thickness, with a bead either side, or flush on one side with a single bead on the other. It comprises of three panes of glass, two of which have alternating lines of laser blocking material. The central pane can be raised and lowered by a handle so the lines move in or out of alignment and thereby allow fully controlled, discreet vision through the panel.

The flush fit vision panel is specifically designed and manufactured to suit the exact thickness of a door, so once fitted, the surface of the glazing lies completely flush with the door faces. It is sealed to the door with silicone mastic, thus providing a very hygienic detail that has no crevices or ledges for dirt or bacteria to harbour. The flush fit unit is fully bonded and is semi-hermetic comprising four panes of glass, two of which have alternating lines of laser blocking material.



Laser blocking slatted blind system with the slats open on the left and closed on the right



Standard and flush units—side cutaway view

Specification

Tested in accordance with BS/EN 60825-4
(Safety of Laser Products Part 4: Laser Guards)

Options

- blackout glass
- obscure glass
- x-ray shielded - Lead equivalents up to 0.13 in. thick
- security glass
- fire glass - 30 and 60 minute, insulated and non insulated
- tinted glass suitable for vivariums
- antibacterial coated glass

N.B. outer glass panes available in toughened or laminated glass to comply with BS 6262

Beadings available

- timber
- powder coated steel
- stainless steel

Handles

- standard lever
- anti-ligature conical knob
- both handles available in either 316 stainless steel or anti-bacterial copper alloy
- handles can be fitted to one or both sides on the Standard and Flush fit models

Dimensions

- standard widths and heights for all models are 7.9 x 23.6 inches, 15.7 x 15.7 inches, 15.7 x 23.6 inches and 9.8 x 31.5 inches (width x height)
- nominal thicknesses for Standard Fit model is .7 inches.
- nominal thickness for Flush Fit model to suit customer door thickness

Permissible Exposure Limits are shown below

Irradiated Area	PEL (T3) 10 s	PEL (T2) 100 s
4 mm ²	3.9 MW/m ²	2.2 MW/m ²
2000 mm ²	0.62 MW/m ²	0.35 MC/m ²

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