

# Orca Laser Safety Window Blocks

Certified Laser Blocking Curtains for Class 3B and Class 4 Lasers

**Certified Laser Safety Window Blocks for Class 3B and Class 4 lasers - for Hospital and Medical Environments, Clean Rooms, Universities, Laboratories, and Research Establishments.**

## Laser Protection with Laser Safety Window Blocks

To ensure Class 3B and Class 4 laser beams do not escape from laser laboratory or medical facilities, including hospital theatres, certified laser blocking material should be installed. Ordinary curtains are rarely capable of stopping a laser beam and specially-designed certified laser blocking material must be used (Certified to IEC/EN 60825-4).

To provide the necessary protection level, Lasermet's laser blocking window blocks are ideal. They are designed as passive guards to cover a window and enclose an area where Class 3B and Class 4 lasers are in use either to protect against accidental exposure to the laser beam or for long term blocking of laser radiation at lower power densities.

These laser blocking products are CE marked and certified to EN 60825-4 (Safety of Laser Products Part 4: Laser Guards).

Lasermet's laser safety window blocks are made from the company's specially-developed

laser-blocking Orca material. The material is white on one side and black on the other side. The window blocks are supplied ready made and certified. There are three options to attach the material to the wall.

- Velcro is attached to the material and the other part of the Velcro is attached to the wall.
- The material is attached using turnbuttons. These are attached to the wall and the material is locked in position through eyelets on the edges.
- Small magnets can be sewn into the edges of the material and the window blocks can then be attached to the wall. This only works where there is sufficient steel on the wall or frame structure.

When irradiated with greater than 0.5MW/m<sup>2</sup> it emits a non-hazardous smoke and may glow, thus indicating that a stray laser beam is present.

The weight of the material is 1.3kg/m<sup>2</sup>.

## PEL Ratings

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



Lasermet's laser safety window block - using Velcro to attach to the window frame



Window blocks with turn-buttons shown above can be rolled up - ideal for temporary use

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Laser Safety Curtain complete with pelmet



Lasermet's laser blocking curtains have the certification label. In this example, the curtain material uses Velcro to attach to a window recess.



Laser Safety Curtain installed in Imperial College, London



Lasermet's certified laser blocking curtains are used by the Acropolis Museum in Athens to enable work to be carried out on sculptures in-situ.

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