Orca laser blocking curtains

Certified laser blocking curtains for Class 4 and Class 3B lasers - for Hospital and Medical Environments; Clean Rooms, Universities, Laboratories and Research Establishments

Laser protection with laser safety curtains

To ensure Class 4 and Class 3B 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).

Also, production facilities using Class 1 lasers, which are Class 4 under service conditions, may require ceiling-mounted curtains to allow other work to continue safely in the same room during service.

Laser blocking curtains

To provide the necessary protection level, Lasermet's laser blocking curtains are ideal. They are designed as passive guards to enclose an area where Class 3B or 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 blocking curtain surrounding a cubicle to act as the laser barrier

Lasermet installed motorised and non-motorised versions of the curtains to maximise ease of use

Lasermet's Laser-Blocking Curtains are made from the company's specially-developed laser-blocking material and are supplied ready-made as ceiling or wall-mounted curtains. The material is white on one side and black on the other side and will operate as a blackout screen as well as a laser-blocking screen. There is an option to have black on both sides. The curtains can be motorised up to a maximum run of 10 metres or 60kg.

Tested in accordance with NFP 92-503 (Electrical Burner Test), the material is rated as M2. When irradiated with greater than 0.5 MW/m² it emits a non-hazardous smoke and may glow, thus indicating that a stray beam is present.

The top of the curtain has brass eyelets every 150 mm and the curtain is supplied with a stainless steel hook to connect to a curtain track. The weight of the material is 1.3 kg/m². Heavy duty curtain tracks can be supplied for smooth operation, and for applications where the curtain needs to be suspended below the fixing points, high-quality cubicle curtain track is available.

Permissible Exposure Limits are shown below

Irradiated Area	PEL (T3) 10 s	PEL (T2) 100 s
4 mm²	3.9 MW/m²	2.2 MW/m²
2000 mm²	0.62 MW/m²	0.35 MW/m²

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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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