

Laser Blocking Roller Blind

Most Class 4 and many Class 3B lasers present an eye hazard over very long distances and it is therefore imperative to have comprehensive laser safety protection in place wherever they are present.

Laser radiation must be prevented from escaping through the windows of laboratories and production facilities. Ordinary roller blind material is rarely capable of stopping a laser beam and specially-designed laser blocking products are required.

Lasermet's laser-blocking roller blinds are designed to protect against accidental exposure to the laser beam or for long term blocking of laser radiation at lower power densities where Class 3B or Class 4 lasers are in use. The material has been developed by Lasermet specifically to provide the most cost-effective and high-quality solutions to virtually all laser-blocking requirements.

All Lasermet laser-blocking products are CE marked and certified to EN 60825-4 (Safety of Laser Products Part 4: Laser Guards). Laser-blocking curtains, roller blinds and standard screens are made from a laser-blocking material which has been specially developed for laser safety by Lasermet.

The material is fireproof. When irradiated with greater than 0.5 MW/m² it will emit a non-hazardous smoke and may glow, thus indicating that a stray beam is present. Protection times given by the material at various power densities are shown in the specifications below.



Chain operated laser blocking roller blind



Laser blocking roller blinds on windows



Laser blocking roller blinds on doors

Adopting Best Practice in Laser safety in UK Hospitals

In the UK, the National Health Service (NHS) has issued a Best Practice Guidance Document HBN 26 "Facilities for surgical procedures Volume 1", which provides guidance on facilities for in-patient operating theatres in acute general hospitals. It is Issued by NHS Estates. Relevant paragraphs:-

4.79 "... All doors should be fitted with vision panels capable of being obscured, and have laser-proof blinds..."

Use of Lasers in the operating theatre
"7.120 Where lasers are to be used in an operating theatre, safety precautions in accordance with BS EN 60825 should be employed..."

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