

Laser Blocking Material Conformity

Declaration of Conformity

This laser blocking curtain conforms with the following European Directives and Equivalent North American Directives (ANSI, etc.)

Machinery Directive
 Low Voltage Directive
 Radio and Telecommunications Terminal Equipment Directive (RATTE)

Under the following standard (Equivalent US ANSI Specification)

EN 60825-4:1997 Safety of Laser Products Part 4. Laser Guards



Instructions for Use

This laser blocking curtain is intended to be used to stop stray laser radiation from escaping a laser controlled area such as a laboratory, operating theatre or other area containing a laser. Typical uses are over windows or as part or all of a laser enclosure. The curtain should be used to protect those outside the area from the laser radiation. Those inside the laser controlled area must wear suitable personal protective equipment (e.g. laser protective eyewear). To maintain the safety of those outside the laser controlled area this product must be used in accordance with the following instructions.

The curtain can be used for blocking lasers of all wavelengths between 180 and 10600 nm (inclusive). The curtain has a black side and a white side. Either side can be used to block the laser radiation. However, the white side has a higher protection level than the black side. For this reason it is normal to install the curtain with the white side towards the laser. The table below shows the PEL (Protective Exposure Limit) for each side of the curtain for a 100 s exposure:

	Irradiated Area	PEL for 100 s exposure (T ₂)
White Side	1 mm ²	3 MW/m ²
	500 mm ²	0.7 MW/m ²
Black Side	1 mm ²	1 MW/m ²
	500 mm ²	0.5 MW/m ²

For longer times the PEL may be less. The user should ensure that the irradiance of the incident laser radiation does not exceed the PEL.

The optical density of the curtain is greater than 5, when exposed below the PEL.