

Laser Blocking Roller Blind and Curtain 7/12/16

Declaration of Conformity

This laser blocking curtain conforms with the following European Directives:

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

Under the following standard (Equivalent US ANI Z 136.1)

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



Instructions For Use

This laser blocking curtain or roller blind 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 or roller blind 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 (eg 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 or roller blind can be used for blocking lasers of all wavelengths between 180 and 10600 nm (inclusive). The curtain or roller blind 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 or roller blind 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 (T₂)
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 mm²

0.5 MW/m²

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.

Installation

Fix the curtain or roller blind to the wall or ceiling as desired in accordance with the instructions supplied.

Normally the curtain or roller blind should be installed with the white side towards the laser. However, if it is desired to install with the black side towards the laser this can be done as long as the PEL is not exceeded at the curtain face (see table above). The curtain or roller blind can be used to block laser radiation from both sides. Where this is done the white side should face the laser likely to produce the higher irradiance at the curtain face.

Inspection & Damage

The curtain or roller blind should be inspected at regular intervals for signs of damage from laser beams. If any such damage is evident the curtain or roller blinds should be replaced or sent for repair.

Cleaning

For best results clean with special cleaning wipe available from Lasermet, part number LBS-CW. Alternatively, clean the screens using warm soapy water.

Warranty:

All Lasermet/RT Technologies laser blocking curtains and blinds (parts) are warranted for a period of 1 year from date of sale.