Laser Blocking Window Blinds Specifications

1. Product Name

- Laser Blocking Window Blinds

2. Manufacturer

RT Technologies
2391 Briarleigh Way
Dunwoody, GA 30338
Phone: 770-332-0092
Fax: 770-332-0092
Email: **contact@rtlasersafety.com**
Web: **www.rtlasersafety.com**

3. Product Description

Basic Use

Laser Blocking Window Blinds are used in educational settings such as laboratories; medical settings, such as operating rooms); and manufacturing facilities. Laser Blocking Window Blinds prevent laser radiation from Class 3B and Class 4 lasers from escaping through and around edges of windows for a minimum time period as specified by EN-60825-4. These blind are custom-made based on the window aperture. RT Technologies offers chain, crank and motorized versions of these blinds. Installation of the blinds is simple and can be done by facilities.

The roller blind is built into a white finish aluminum frame, which encapsulates the top, and both edges of the blind. The encapsulated blind eliminates any possibility of laser beams passing around the sides of the blind, blocks out direct light (not blackout), and provides optimal protection. Interior use only.

RT Technologies' Laser Blocking Window Blinds offers protection from:

- UV
- Infra-red
- Lasers: Class 3B and Class 4
- Visible light
- Far infra-red

Composition and Materials

- Aluminum frame: 6060 aluminum
- Encapsulates top, both edges, and bottom of blind; eliminates possibility of laser beams passing around sides of blind; laser-blocking material built into frame
- Laser-blocking blind material
  - Silicone-based, fire-retardant base fabric; laser-blocking side: white; other side: black; 0.9 mm thickness

Features and Benefits

- Helps meet safety compliance requirements for laser safety
- Keeps staff and patients protected from laser radiation
- Fire retardant
- Easily cleaned/wiped down, non-porous material
- White material is aesthetically favorable with white surfaces used in medical facilities
- The blinds can be operated independently or as part of a laser interlock system

Dimensions/Sizes/Weights

Each RT Technologies Laser Blocking WIndow Blind configuration is custom to exact aperture size.

Finishes

- Aluminum encapsulating frame is powder coated white; RAL 9016
- Laser-blocking material is white facing; opposite is black; black on both sides is optional

Models

- **RTRB-01:** chain pull operated
- **RTRB-02:** crank handle operated
- **RTRB-03:** Motorized; Somfy Sonesse 30 RTS, 110V AC/24V DC; 50Hz drive motor powered

Product Limitations

Laser Blocking Window Blinds comply with the international Pulsed Dye Laser (PDL), requirements. .Laser intensity in excess of these standards may not be prevented.

4. Technical Data

Applicable Standards

ASTM International

- **ASTM E84** Standard Test Method for Surface Burning Characteristics of Building Materials

Conformité Européene (CE)

- **CE Marked**

International Electrotechnical Commission (IEC)

- **EN AW-6060**
- **EN 60825-4** Safety Laser Products - Part 4; Laser Guards

National Fire Protection Association (NFPA)

- **NFPA 701-2015** Test Method 1 – Flame Propagation
- **NFPA 92-503** – Electric Burner Test

5. Installation

Installation should be performed by facilities personnel, or a trained installer. Alterations to the blind must be approved by RT Technologies. Always use appropriate screws and plugs suitable for the wall where the blind is being fitted.

RT Technologies can provide professional installation services if required by the customer (additional cost).

Installation manual available **here.**

6. Availability and Cost

Availability

Laser Blocking Window Blinds are usually on a 3–6 week availability.

Cost

Call RT Technologies for a quote, depends on window dimensions.

7. Warranty

RT Technologies offers a limited 12-month warranty.

8. Maintenance

Laser Blocking Window Blinds do not require regular maintenance. There are no preventative maintenance requirements. However, if the unit needs to be cleaned, abrasive cleaning materials must not be used as they may cause damage. The material can be cleaned with soapy water (mild detergent) or it can be cleaned with Klorsept (or similar).

9. Technical Services

Laser Blocking Window Blinds technical services and support is available by phone: 770-332-0092; and email: contact@rtlasersafety.com.

10. Filing Systems

- ConstructConnect
- Additional product information is available from the manufacturer upon request

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