Laser Controls Catalog

Barriers

Through the use of large area laser protection systems with well adapted accessories it is possible to create laser safe solutions for all applications requiring shielding of laser working spaces or public areas. The protection products differ from each other with respect to laser resistance, certification, mechanical characteristics and flexibility. Some of these systems can be combined with glass or acrylic laser safety windows.

Laser Safety Curtains

Compared to conventional welding curtains the patent pending multi layer structure of a laser safety curtain leads to a significantly increased laser resistance time for direct or scattered laser light. The multilayer structure consists of high absorbing and non flammable textiles and metal interlayers.

- **Laser Beam Barriers**: Laz-R-Barrier is a solution for reflected laser beam containment. Laz-R-Barrier protects against occupational eye and skin exposure from reflective laser radiation and broadband optical radiation generated by laser plume. For example, the barrier protects for example against CO2- (10600 nm) and Nd:YAG-lasers (1064 nm) up to a power density of 10 MW/m².

With the new Laser barrier system Laservision offers a versatile material, which fits the changing needs and requirements of laser users. For large, transparent screens, Laservision offers a movable Laser protection screen. The achieved protection level equals AL6 at 1064 nm and AL4 at 10600 nm respectively at 100s direct illumination according to DIN EN 12254.
Full Face Laser Protection

Some projects require more than just laser safety glasses. Laser Safety Industries' adjustable laser face shields are designed for laser protection to the face and eyes for jobs that require more protection coverage than laser glasses or laser goggles offer. The face shield features a ratchet adjustable nape strap for a custom fit. Constructed from durable nylon. Pivoting action allows user to lift face shield while wearing.

CO2 Laser Face Shield (10,600 nm)

Color: Clear  
Visibility: 82%  
OD Specifications: OD 6+ @ 10,600 nm

Laser Face Shield (190-532 nm, 900-1070 nm, and 10,600 nm)

Color: Brown  
Visibility: 17%  
OD Specifications: OD 5+ @ 190-375 nm  
OD 4+ @ 375-532 nm  
OD 4+ @ 900-1070 nm  
OD 5+ @ 1064 nm  
OD 5+ @ 10,600 nm

Laser Face Shield (190-375 nm, 694 nm, and 10,600 nm)

Color: Light-blue  
Visibility: 63.5%  
OD Specifications: OD 5+ @ 190-375 nm  
OD 6+ @ 694 nm  
OD 5+ @ 10,600 nm
**Laser Safety Slats**

Laservision's laser safety slat curtain is characterized by a very high resistance against aging, bases, acids also in combination with very low or high temperatures. Its stability against mechanical stress is very good as well. The lamella slat curtain is light-proof and suitable for all laser wavelengths. The curtain consists of single 300 mm broad silicon based lamellas. For assembling the slat-mounts are fitted onto a rod (diameter 35 mm, not included). There is one mount needed for each slat plus one in addition. This allows creating a nearly unrestricted individual length of the slat curtain. The lamellas can be mounted into the movable frame as an alternative solution (part no. 097). In this case 10 slats of 1800 mm height are needed.

**Available Laser Safety Slats**

The lamella slat curtain is light-proof and suitable for all laser wavelengths.

**Disclaimer:** EHSS does not endorse or recommend any commercial products. The items provided in this catalog are examples that introduce the user to different types of products available.