

## Laser Protective Curtains According to EN 12254

### 1. The Flexible, Light Version in Two Different Thicknesses (SLC-250WB and SLC-100WB)

The layer structure of laser curtains (SLC-250WB and SLC-100WB) consists of a highly-absorbing, flame proof fabric. Several curtains can be connected using Velcro®.

Each curtain comes with extensive material for ceiling mounting.

#### Protection Levels SLC-250WB

$\lambda$ [nm]	Protection Level
190 – 315	D AB9 CE / R AB3 CE
> 315 – 1050	D AB6 CE
> 1050 – 1400	D AB5 CE
> 315 – 1400	IR AB7 CE / M AB7 CE
> 1400 – 11100	DR AB3 CE

#### Protection Levels SLC-100WB

$\lambda$ [nm]	Protection Level
190 – 315	D AB8 CE / R AB2 CE
> 315 – 1050	D AB6 CE
> 1050 – 1400	D AB4 CE
> 315 – 1400	IR AB6 CE
> 1400 – 11100	DR AB2 CE

Certified according to EN 12254:2010

Each curtain can be combined with laser protective windows on an optional basis.



Figure 1



Figure 2

Figures 1 and 2 both show typical mounting examples for laser curtains.

**Highlights**

- Laser curtains certified according to EN 12254
- Available in different standard sizes and thicknesses
- Custom sizes also available
- Color: black
- May be combined with laser protective windows
- Assembly material included
- Very light at 1.2 kg/m<sup>2</sup>
- Power density: 2.5 MW/m<sup>2</sup> or 1 MW/m<sup>2</sup>
- (Test parameters: 1064 nm, beam diameter of 1.05 mm)

The suitability of laser curtains for a specific application varies from case to case and depends on the laser specifications. Determining suitability is the job of the on-site laser safety officer. Certification according to DIN EN 60825-4 can only be carried out on site.

The tested and proven SLC-250WB material is recommended for all standard laser wavelengths in the medium power range.

The new, less expensive SLC-100WB can be used for low laser power.



Figure 3

**2. EVER GUARD Curtains**

They combine the uniquely high protection of a metal screen with the flexibility of a curtain.

- Durable metal panels (25 cm wide)
- Combine high protection and low weight
- Patterned surface absorbs and disperses laser radiation
- For all standard wavelengths
- Certified according to EN 12254
- Cleanroom friendly
- High power density of 12 MW/m<sup>2</sup>  
(Test parameters: 10.6 μm, 11.7 mm Ø)

**Protective Classes According to EN12254**

PTEVG metal screens

λ [nm]	Protection Level
190 – 315	D AB10 CE / R AB4 CE
> 315 – 1400	DAB7 CE / IR AB8 CE / M AB7 CE
> 1400 – 11100	D AB5 CE / R AB3 CE

**Assembly Material**

Figure 3 on the right shows how the Ever Guard laser curtain can be hung up using the assembly material included in the set. The black guide rail is simply mounted to the ceiling. The same assembly material that is used for the flexible SLC-250WB textile curtains is used here.