

## Laser protection window, filter - 0293, dimensions 100 x 200 mm, thickness 4.0 mm

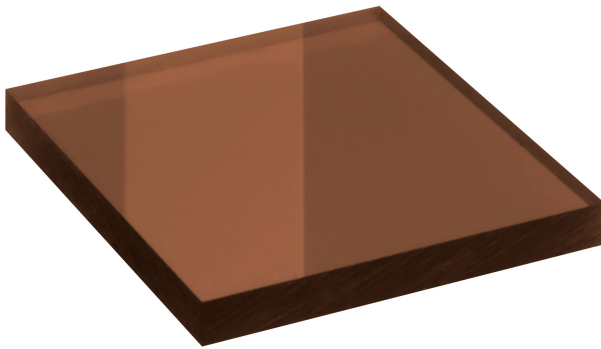
### Product information:

**Item no.:** 100-K0293-100x200

**Application:** Nd:YAG + harmonische (266 + 355 + 532 + 1064 nm) Ti:Sapphire (800 nm)  
Diode-Nd:YAG (800-1064 nm) Yb:YAG/Scheibe (1030 nm) Faser (976 – 1080 nm) , VLT (Visible light transmission): 25 %

**Filter color:** amber

**Filter material:** special plastic



Laser protection window made of special amber plastic suitable for harmonic Nd:YAG (266 + 355 + 532 + 1064 nm), Ti:sapphire (800 nm), Diode-Nd:YAG (800 - 1064 nm), Yb:YAG/Disc (1030 nm) and Fiber (976 - 1080 nm) lasers

## Qualified protection levels according to EN 12254

| Wavelengths  | Protection levels              |
|--------------|--------------------------------|
| • 180-315    | D AB8 + IR AB3 (OD10+)         |
| • >315-532   | D AB5 + IR AB7 + M AB8 (OD9+)  |
| • >532-541   | DIRM AB4 (OD4+)                |
| • >541-544   | DIRM AB3 (OD3+)                |
| • >544-549   | DIRM AB2 (OD2+)                |
| • >549-555   | DIRM AB1 (OD1+)                |
| • >690-722   | DIRM AB1 (OD1+)                |
| • >722-745   | DIRM AB2 (OD2+)                |
| • >745-765   | DIRM AB3 (OD3+)                |
| • >765-780   | DIRM AB4 (OD4+)                |
| • >780-800   | DIRM AB5 (OD5+)                |
| • >800-815   | DIRM AB6 (OD6+)                |
| • >815-830   | D AB6 + IRM AB7 (OD7+)         |
| • >830-847   | D AB6 + IR AB7 + M AB8 (OD8+)  |
| • >847-862   | D AB6 + IR AB7 + M AB9 (OD9+)  |
| • >862-1065  | D AB6 + IR AB7 + M AB9 (OD10+) |
| • >1065-1072 | D AB6 + IR AB7 + M AB9 (OD9+)  |
| • >1072-1077 | D AB6 + IR AB7 + M AB8 (OD8+)  |
| • >1077-1083 | D AB6 + IRM AB7 (OD7+)         |
| • >1083-1094 | DIRM AB5 (OD5+)                |
| • >1094-1102 | DIRM AB4 (OD4+)                |
| • >1102-1112 | DIRM AB3 (OD3+)                |
| • >1112-1125 | DIRM AB2 (OD2+)                |
| • >1125-1150 | DIRM AB1 (OD1+)                |
|              | PF CE                          |

## Specified protection according to EN 60825-4 (power densities):

| Wavelength [nm] | Test class | Max. resistance time $t_{\max}$ [s] | Power density [kW/m <sup>2</sup> ] |
|-----------------|------------|-------------------------------------|------------------------------------|
| 825-1074        | T3         | 25                                  | 550                                |
| 825-1074        | T2         | 105                                 | 97                                 |

## Properties:

**Laser protection windows** enable your employees to safely observe the processes in a laser system. Regardless of whether you want to integrate the laser protection windows in machine enclosures or in movable walls, we offer you the right, tested protection for your laser system, for your laser equipment and for your laser application. Depending on the desired protection level or window size, you can choose between windows made of glass or plastic. In addition to a variety of standard sizes, custom cuts are also possible thanks to our in-house production.

The **0293 laser protection filter** is particularly suitable as laser protection for powerful **Nd:YAG + harmonische (266 + 355 + 532 + 1064 nm), Ti:Sapphire (800 nm), Diode-Nd:YAG (800-1064 nm), Yb:YAG/Scheibe (1030 nm) and Fiber (976– 1080 nm) lasers**. However, other wavelengths are also covered by the filter. The laser safety filter is made of a special amber colored plastic and has a daylight transmission of approx. 25% at low thickness. The laser safety filter is **qualified** according to the regulations of **EN 12254**.

- dimensions 100 x 200 mm
- also available in the standard size [210 x 297 mm](#) and [1000 x 1800 mm](#)
- other customized sizes available on request
- suitable [window frames](#) available on request



For a perfect and safe cleaning of this filter we recommend this [cleaning spray](#).

