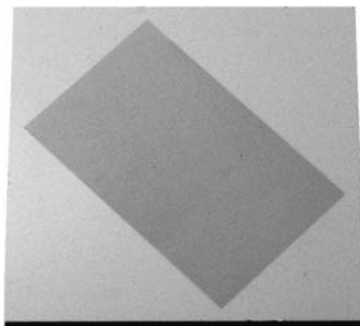
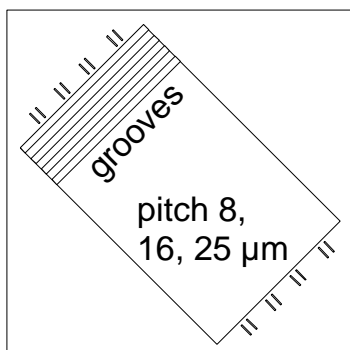


## Grating Type Gr-D



### 1. Structure



Rectangular profile

The grating of type Gr-D is available with a rectangular profile. It is prepared out of monocrystalline silicon either by anisotropic wet etching or dry etching.

The field with a size of 5 mm x 8 mm lies inside a chip of 10 mm x 10 mm (thickness 525 μm). The available pitch lengths are 8, 16 or 25 μm. These gratings can be used for different applications.

For information about the possibilities of certification of the standard please contact SiMETRICS.

### 2. Packaging, Handling and Cleaning

For a better handling the chips with the grating are mounted on borosilicate glass with a size of 5 cm x 5 cm as substrate. Further sizes are possible on request. The chips are mounted by an epoxy resin adhesive.

The standards are stored in a membrane box. The grating for measuring and calibration does not come into contact with the membrane.

Do not touch the silicon chip especially the regions determined for measuring and calibration. Use suitable (plastic) tweezers for handling.

For cleaning the grating the following procedures are recommended:

- Removing of particles of dust: blowing off by pure nitrogen or by compressed air.
- Removing of tightly sticking particles: ultrasonic cleaning in deionised water, rinsing with deionised water, blowing dryly by pure nitrogen or by compressed air.
- Removing of organic deposits: rinsing with ethanol (analytic-grade), rinsing with deionised water, blowing dryly by pure nitrogen or by compressed air.

If none of these methods is successful please contact SiMETRICS for a cleaning process.

### 3. Assortment and Specification

Type	Inclination angle of sidewalls [°]	Pitch [µm]	Width of window / width of space in between [µm]	Depth (nominal) [µm]
<b>Gr-D 8w</b>	90	8	4 / 4	1
<b>Gr-D 16w</b>	90	16	8 / 8	3
<b>Gr-D 25w</b>	90	25	12.5 / 12.5	5
<b>Gr-D 8d</b>	90	8	2/6	on request
<b>Gr-D 16d</b>	90	16	2/14	on request
<b>Gr-D 25d</b>	90	25	2/23	on request