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## PRODUTOS / MÁQUINAS

**GMB** produces high quality low iron solar glass exclusively for Interfloat 365 days a year. The purity of the glass, as the basis for the minimal absorption of damaging substances such as iron oxide is constant at all times.

### **GMB solar glass | SINA solar glass**

The microstructure of GMB solar glass SINA is characterised by specially designed forming rollers on both glass surfaces. The surface of SINA is a non-geometrically aligned structure with a typical roughness height (Rz) of approx. 15 µm (taken from a measuring length of 15 mm). The structure demonstrates a high "density" (number of bumps and holes per unit of length) in order to limit direct reflection and hence reduce dazzling to a minimum. The consistent appearance of the glass is guaranteed in so far as the reflection characteristics of the glass are constantly monitored in our in-house laboratory and corrected as appropriate. GMB solar glass SINA is ideal for both applications – PV modules and thermal collectors.

### **GMB solar glass | CONE Solar glass**

CONE has two differently structured surfaces. One surface of CONE has a geometric, pyramid formed structure (see diagram). The other surface exhibits the same microstructure as GMB solar glass SINA. In PV modules the pyramidal structure forms the interface to the composite material (e.g. EVA) which encloses the solar cell. The pyramidal structure is no longer visible after lamination into the PV module. In thermal collectors the pyramidal structure is usually oriented towards the absorber. The advantages of the CONE structure are the significant reduction of dazzling effects and the considerably poor view into the inside of the collector. Small shortcomings in the absorption surface (fingerprints, etc.) can therefore be concealed.

### **GMB solar glass | ASTRA GMB solar glass**

ASTRA has a rough, non-geometric structure similar to SINA on the one side but with a significantly larger roughness height (Rz) of approx. 60 µm (taken from a measuring length of 15 mm). The other surface has a very delicate microstructure. ASTRA glass has a very high angle factor (IAM) and is therefore also ideal for collectors of the highest performance. ASTRA glass offers minimal reflection or dazzling as well as a very poor view into the inside of the collector. As such, small visual blemishes (such as fingerprints) are easily concealed. Various collector manufacturers use ASTRA glass for the purposes of product diversification. Collectors with ASTRA glass are recognisably visually different to a collectors fitted with SINA glass. Of course, GMB solar glass ASTRA can also be implemented in PV modules. The orientation of the rough structure can be, according to the desired visual appearance, towards the inside or outside.

### Company Profile of **GMB Glasmanufaktur Brandenburg GmbH**

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