

GREENHOUSE APPLICATIONS



CREATE
THE
DIFFERENCE



LIGHTING

MIRO® and MIRO-SILVER® GL **NEW**

Accelerate growth cycles in greenhouses

Lighting maximises the growth effectiveness in horticultural applications by boosting photosynthesis and plant yields.

The reflective surfaces MIRO® and MIRO-SILVER® GL were developed to offer ideal properties for greenhouse lighting fixtures. They deliver a high reflectivity that directs all light and energy towards the plants, significantly accelerating growth cycles.

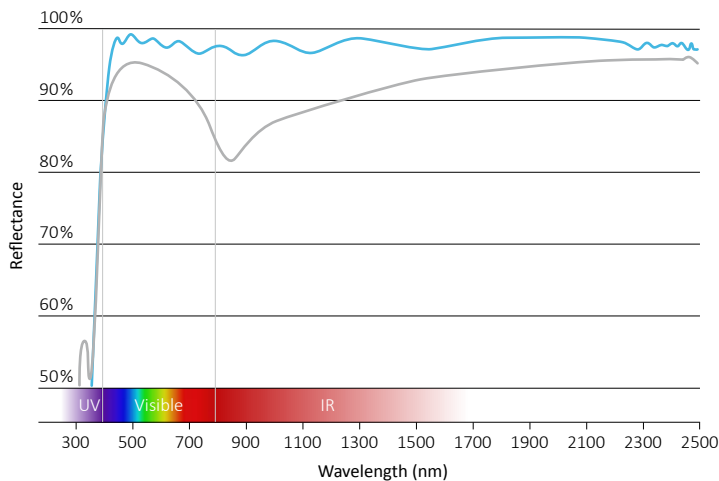
In horticultural applications, reflectors made of MIRO® and MIRO-SILVER® GL offer superior performance by directing light and heat towards the plants.



Benefit from extraordinary reflectivity – even infrared

Alanod has developed some of the world's most highly reflective surfaces. When combined with high-pressure discharge lamps, even the infrared part of the spectrum is reflected by MIRO® and MIRO-SILVER® GL.

Infrared heat offers the additional benefit of not heating the air, just the plants. This helps the air retain needed humidity and prevents the soil from drying, additionally reducing irrigation costs in comparison to conventional heating systems.



- MIRO-SILVER® GL
- MIRO®

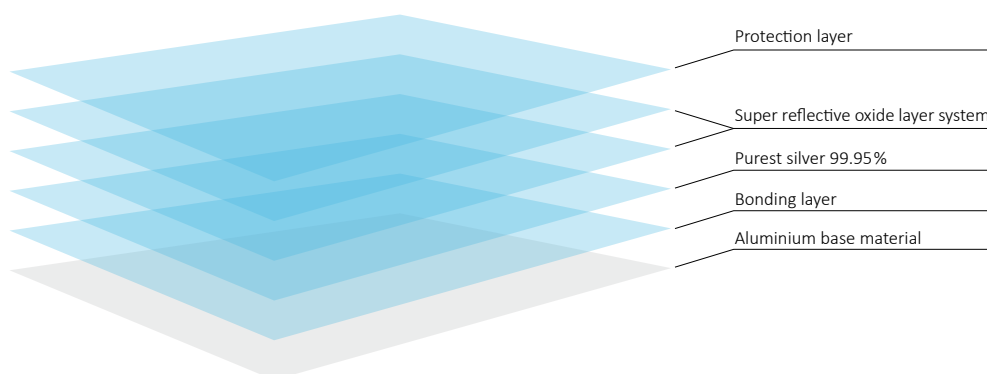
MIRO-SILVER® GL – Suitable for aggressive environments

The aluminium substrate of MIRO-SILVER® GL is enhanced by various PVD nano layers to make it highly reflective. Thus, a total reflectivity of up to 98% is reached.

Your customers can rely on their reflectors to provide these benefits for over 1,000 hours with less than a 1% reflectivity change.*

Additionally, it has a special protection layer that offers extended longevity and protection against:

- Moisture from plant irrigation
- Aggressive chemicals, e.g. herbicides
- Temperature change through night and day cycles



*** Test conditions:**

Constant temperature 150°C [DIN EN 16268]
Climate chamber 85% RH – 85°C [DIN EN 60068-2-78]
QCT condensation [DIN EN ISO 6270-1] | QUV weathering 500 hours [DIN EN ISO 4892-3]

CREATE THE DIFFERENCE

Alanod is your ideal partner for premium thin-film surfaces on metal with impressive design and performance: From highly effective functional coatings to decorative finishes that withstand even the harshest conditions.

Our experts develop innovative metal hybrid technologies which exceed even the highest expectations. This creates fresh opportunities, enabling you to pursue new approaches and take your products to the next level. Get ready to be inspired.

ALANOD GmbH & Co. KG
Egerstr. 12 · 58256 Ennepetal · Germany
Tel. +49 2333 986-500
info@alanod.de · www.alanod.com

