

# 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.

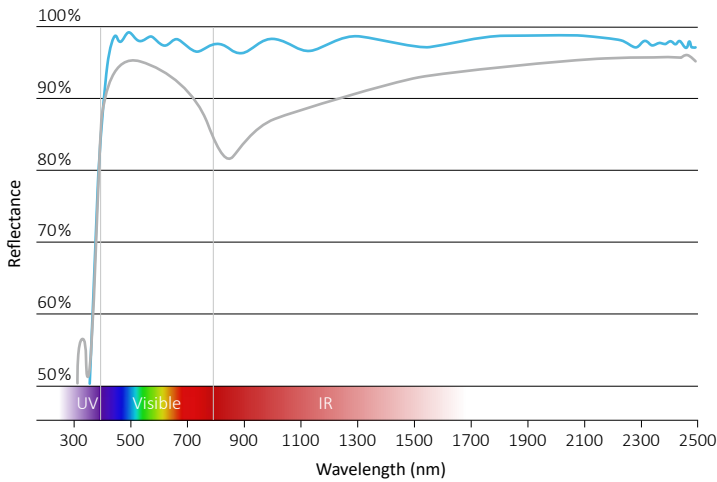
In horticultural applications, reflectors made of MIRO® and MIRO-SILVER® GL offer superior performance by directing light and heat towards the plants.



## 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®

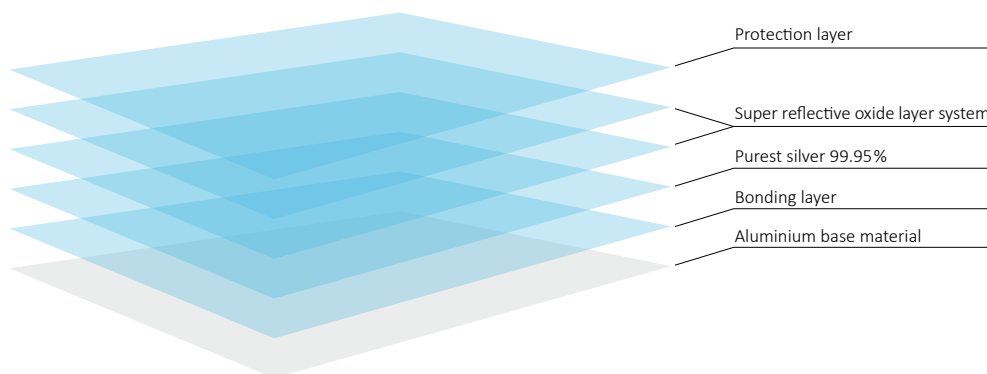
## MIRO-SILVER® GL – Suitable for aggressive environments

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]

## Care for the Environment

Conserving natural resources has been part of our corporate philosophy ever since our company was founded in 1975. Today, Alanod is a climate-neutral, sustainably run company. Due to the excellent recycling properties of aluminium, our materials use up to 90% recycled aluminium. This consumes up to 95% less energy compared to primary aluminium production.

Our cutting-edge post-combustion technology enables production of all of our materials without the need for excessive energy input. All our electricity needs are met using “100% green” energy sources.



## Made in Germany

Our high-tech materials are all manufactured at our sites in Germany.

## System Development

Our broad-based team of experts develops individual solutions for our customers in close cooperation with international research institutions and long-standing industrial partners. Talk to us so that we can work together to fulfill your wishes.

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