



ISOLED REFERENCES



Freisinger Fensterbau GmbH

OUR CUSTOMER = OUR PARTNER



REFERENCES

ISOLED®

CUSTOMISED LIGHT SOLUTIONS





INNOVATION AND SUSTAINABILITY UNITED UNDER ONE ROOF!

We are already thinking today about the world of tomorrow!

The Austrian showcase company Freisinger Fensterbau GmbH from the Tiroler Unterland is part of the Freisinger group of companies (approx. 100 employees), which is rich in tradition and was founded more than 80 years ago by Johann Freisinger.

„We are very attached to nature and the living raw material and would like to pass this on to our customers“, says Josef Freisinger, Managing Director of all business segments, about wood - the building material to which the group of companies is committed.

The attention to detail, quality, perfect handcrafted products and the passion to create innovation from tradition determine the special value of the products. Sustainable values that include not only technical perfection but also individual and emotional qualities, thus guaranteeing customers comfort, safety and perfect service in the long term.

More than 20 years ago, Freisinger Fensterbau GmbH began to develop and market energy-efficient windows, doors and construction elements under ecological aspects. Proof of this successful and future-oriented development is the international quality brand OPTIWIN from Freisinger Fensterbau GmbH, which has already been awarded several times as winner of the Component Award (presented by the Passive House Institute Darmstadt).



Best prospects for energy savers

WWW.FREISINGER.AT





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10 YEARS OF PROFESSIONAL LED SOLUTIONS

Our company consists of professionally competent lateral thinkers and motivated movers and shakers who drive the technical progress in LED technology and work with innovative ideas and solutions set new accents and trends.

For 10 years we have been offering our customers and partners a standardized LED product range with well over 1,000 articles, intelligent LED project lighting solutions as well as a customer-specific production of sustainable LED lighting solutions according to individual specifications.

In the design of our wide range of products and services range of services we orientate ourselves both to the

- requirements of our customers as well as the
- technical progress of LED technology.

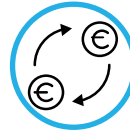
Excellent quality, high advisory skills of our employees and sustainable growth of our company. Our partners are assured of reliable coverage of their requirements with the latest LED lighting components and systems.



**HIGH
PRODUCT AVAILABILITY**



**ECOLOGICAL
ENERGY EFFICIENCY**



**INVESTMENT WITH
FASTER AMORTISATION**



**EFFICIENTS
PROCESSING**



**GUARANTEED
QUALITY**



**PERSONAL
SERVICE**



**EXCELLENT
PERFORMANCE
VALUES**



**SUSTAINABLE
COMMERCIAL USE**

YOUR COMPLETE LED SUPPLIER - WE OFFER YOU:

- » 10 years of experience, specialization in LED and a wide range of products
- » Personal, competent consulting service with high availability (also on site)
- » Professional, fast and reliable
- » Order processing
- » Customized packaging
- » Extended warranty (min. 24 months warranty)
- » High and sustainable product availability
- » Guarantee of a fast spare parts supply
- » Rapidly acting after-sales service and unbureaucratic returns management
- » Appropriate company size and sustainable company development for a long-term cooperation based on partnership
- » Short delivery times





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PRODUCTION HALLS FREISINGER FENSTERBAU GMBH



CONVERSION TO A SUSTAINABLE LED LIGHTING CONCEPT

Requirements



- » Compliance with all photometric, architectural and commercial parameters.
- » Best light quality at the best price.
- » Increase in ecological and economic energy efficiency.
- » Rapid amortisation of investment costs.
- » Strong reduction of the current power consumption of the hall lighting.
- » Reduction of maintenance work and costs to a minimum.
- » Quick and gentle installation, which only interferes with ongoing operation to a limited extent.
- » Excellent product quality with long service life.
- » Compliance with all fire and explosion protection standards as well as TÜV and CE certification.
- » LED luminaire supplier with personal consulting service on site, the usual market guarantees, the guarantee of a sustainable supply of spare parts and long-term product availability.





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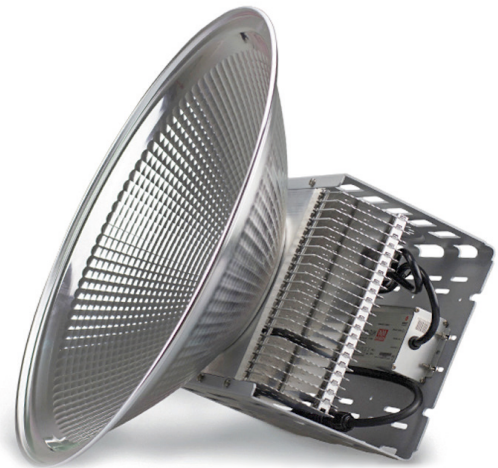
We meet these requirements with the following quality products from ISOLED®:



10 LED high bay lights MC 150 Watt, protection class IP 65, reflector 60°, cool white



Item no.
112403



27 LED high bay lights MC 150 Watt, protection class IP 65, reflector 110°, neutral white



Item no.
112408

The light has an activating and vitalising effect, prevents symptoms of fatigue and promotes productivity at work. The new lighting conditions with the ISOLED® LED high-bay luminaires therefore offer a pleasant, bright and above all safe working environment for the employees of Freisinger Fensterbau GmbH.

LED HIGHBAY LUMINAIRES OF THE MC SERIES - QUALITY FEATURES AT A GLANCE



Power 150 Watt



Equipped as standard with integrated high-performance ME-ANWELL transformer of the HLG series



Explosion protection certification in brief



Color temperatures 4.200 Kelvin at Art. No. 112408 and 5.500 Kelvin for Art. No. 112403 guarantee an excellent colour perception



Color rendering > 80 Ra (CRI)



Reflectors with beam angles of 110° (Art. No. 112408) and 60° (Art. No. 112403) ensure the right light in the right place



Luminous flux 14,800 lumen (Art. No. 112408) and 15,600 lumen (Art. No. 112403)



Ambient temperature -20° to -40



50,000 operating hours (according to manufacturer)



Protection class IP 65 - dustproof and water jet proof



D-marking: Luminaires with limited surface temperature for fire hazard premises



Voltage 90 - 265 V AC: With the voltage rating of the high-bay luminaire at 265 V, there is no additional load due to voltage fluctuations from the mains supply. The service life of the light sources is thus fully maintained.

Note:

LED high-bay luminaires of the MC series will soon be available in a dimmable version (1- 10 V) and will be equipped with our daylight control components can be used compatibly.





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„The quality of our windows is even better with the new light“ says Tony Stark, production manager of Freisinger Fensterbau GmbH, enthusiastically about the new LED lighting solution from ISOLED®. The production hall is now brighter, friendlier and it is easier for the employees to stay concentrated over long periods of time.

„Of course, ecological and economic energy efficiency were key factors in the decision to switch to an LED lighting concept. But now we have both: low energy consumption and best light quality!“

TONY STARK, PRODUCTION MANAGER

FREISINGER FENSTERBAU GMBH

BETTER LIGHT.

**HIGHER
PRODUCTIVITY**

**MORE SECURITY
ON
WORKSTATION!**

„I myself originally come from the carpentry trade and therefore know particularly well the requirements of a woodworking company in terms of light quality“.

„I recommended the LED hall lights of the MC series with 150 W to our customer Freisinger Fensterbau GmbH.

In addition to the technical lighting parameters, these luminaires also meet all the required fire and explosion protection standards and convince with their excellent price/performance ratio“.

HELMUT AIGNER, VERTRIEBSLEITER ISOLED® ÖSTERREICH





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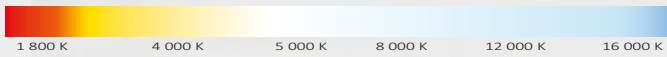
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THE SELECTED COLOR TEMPERATURES OF 4,200 K AND 5,500 K AND THE COLOR RENDERING INDEX (CRI) OF > 80 RA ENSURE EXCELLENT COLOR PERCEPTION BY THE HUMAN EYE.

CHARACTERISTIC LIGHT COLOURS DIN 5035

| LIGHT SOURCE | COLOUR TEMPERATURE KELVIN |
|----------------------------------|---------------------------|
| Warm white | < 3.500 K |
| Neutral white | < 5.300 K |
| Daylight White (also cold white) | > 5.300 K |



CRI 60

CRI > 80

The beam angle - an important criterion

LED high bay luminaires with different beam angles were tested at Freisinger Fensterbau GmbH. With a mix of reflectors with a beam angle of 110° (Art. No. 112408) and 60° (Art. No. 112403) the perfect solution for the right light at the right place was found.

Long service life through foresighted product design

„We operate our MC modules with freely accessible, pluggable LED brand drivers from MEANWELL, which support an input voltage range of 90- 265 V AC. This guarantees reliability, a long service life and universal application possibilities.

THOMAS WINKLER, PRODUKT MANAGEMENT ISOLED®

110°

