

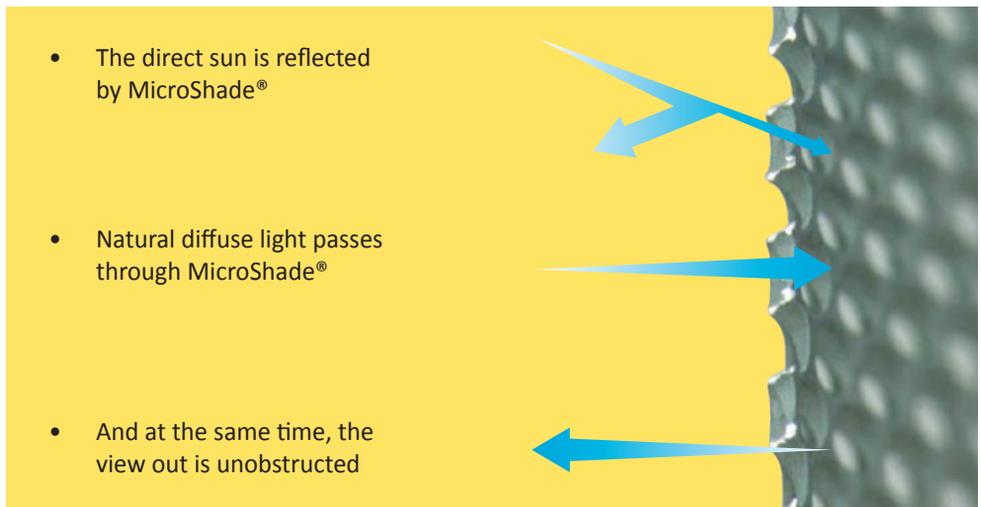


MicroShade®

– introduction

What is MicroShade®?

MicroShade® is a micro lamella so thin that it almost doesn't show, when it is put between two or more layers of glass. The only thing you see is the scribe, that contains the extremely strong glue that holds the lamella to the glass.



The above shows what happens when the sun hits a window with MicroShade®.

What is the effect of MicroShade®?

- MicroShade® makes sure that 90 % of the sun's heat is reflected in the summer
- MicroShade® takes away the direct sun, when it is high in the sky
- MicroShade® allows a full view out and reflects colours naturally
- MicroShade® provides a nice and soft light and decreases the risk of glare

Solar control glass:

Solar control glass lets in 170 % more solar energy (kWh) than MicroShade® and does not reflect natural light and colours.

MicroShade®:

MicroShade® only lets in 10 % of the sun's energy, removes almost all direct solar heat and reflects 100 % natural colors.



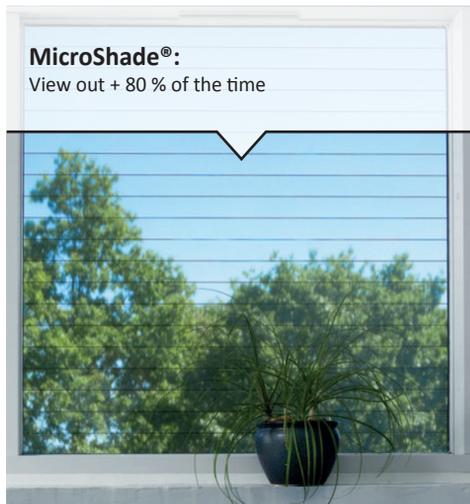
The picture shows the effect of MicroShade®. The shadow on the floor is the cut off of the direct sun.

What is the alternative to MicroShade®

Due to very high energy and direct solar radiation through non-MicroShade glass, you have to shade your glass facade substantially to achieve a pleasant indoor climate.

Here you can see to what extent you would have to do this across the year.

	% of work hours
Winter	30%
Spring	71%
Summer	76%
Fall	47%



When you use MicroShade® you may still need to shade yourself because of the high light, called glare. The Danish Technical University (DTU) estimates that in MicroShade® facades you might need glare protection in up to 20 % of the time throughout the year.

Above you see that 20 % needs to be compared to having to block your facade in 56 % of the year with alternative shading. Due to this an environment with MicroShade® will allow a lot more light to come in, and provide a much better view out.

What do you get with MicroShade®?



Nice temperatures in your environment

MicroShade® takes away the heat from the sun and secures a comfortable environment without temperatures that are too high.



Cut off of the direct sun in the summer where the sun is at its warmest

Only the soft and comfortable diffuse light is let through the MicroShade®. Also this means, that you are able to sit comfortably next to solar exposed facades without having to shade off the light and view out.



Small risk of draft

As MicroShade® effectively takes away the heat, just a small amount of or no cooling is needed, and therefore the risk of draft is minimised.



Nice daylight

MicroShade® takes away a great deal of the direct sun. That means that there is only a small risk of glare in the summer. In the winter you will need glare protection because of the low winter sun that MicroShade® allows to pass.



View out and protection at the same time

MicroShade® allows an unobstructed view out while at the same time you are protected from the sun's heat.

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