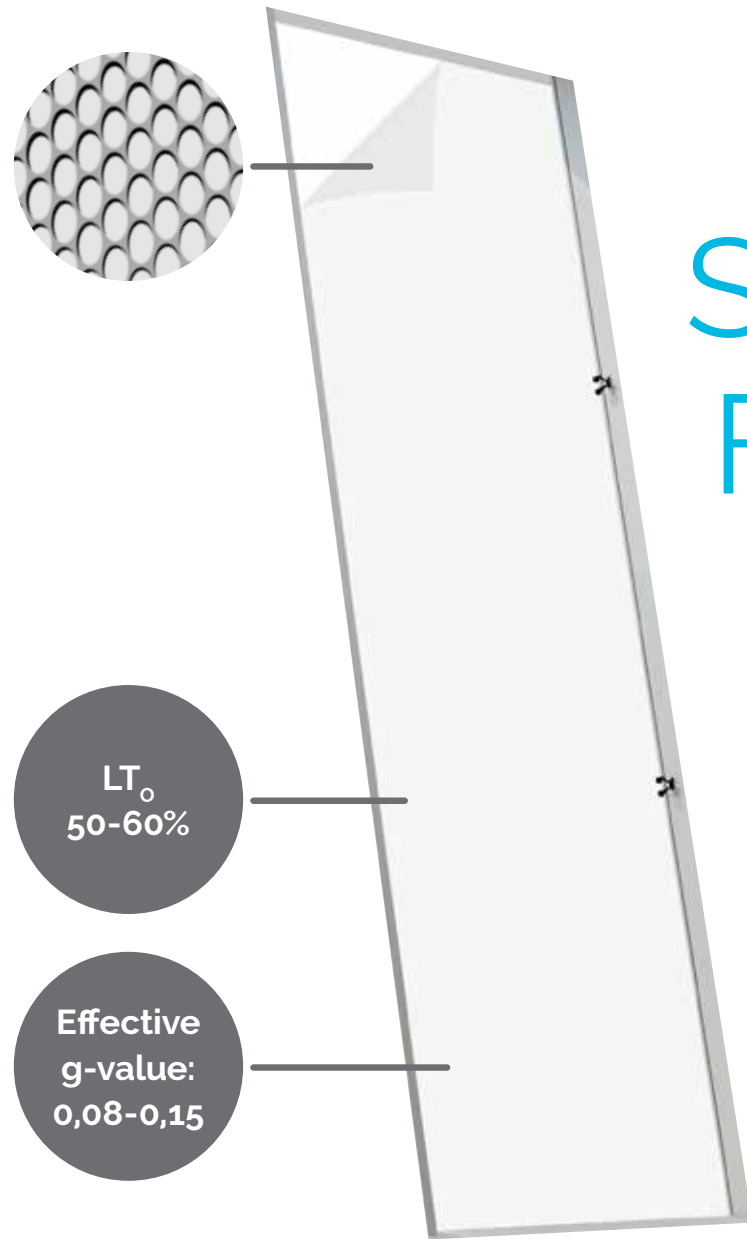




Redefining solar shading

- by combining the best features of coatings and micro-structures.



SETTING FAÇADES FREE

While most modern buildings are designed with extensive use of glass façades, many of the otherwise visually appealing surfaces are spoiled by solar shading solutions that also block the view out – and/or fail to deliver the necessary reduction of energy passing through the façade and into the building.

MicroShade Film® enables the design of buildings with clean façades, a view out, natural daylight and indoor climates with comfortable temperatures. All this is obtained despite it being a completely passive solution, which has no need for maintenance and lasts as long as the glazing.

What happens when the sun hits glazing with MicroShade Film®?

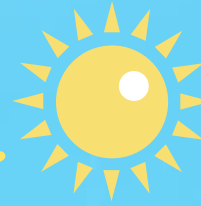
MICROSHADE FILM® IS AN ALMOST INVISIBLE FILM COMBINING UV AND IR COATINGS WITH A MICRO-STRUCTURE FILM - WHICH IS PLACED INSIDE THE GLAZING.

WHEN THE SUNLIGHT HITS GLAZING WITH MICROSHADE FILM®, UP TO 92% OF THE DIRECT SOLAR IRRADIATION IS BLOCKED WHILE THE NATURAL DAYLIGHT STILL ENTERS THE BUILDING AND THE VIEW OUT REMAINS UNOBSTRUCTED.

Transparent appearance and clear view of exterior



Direct solar irradiation is blocked.



Glazing with MicroShade Film®

MicroShade Film® is compatible with all modern glazing configurations including structural glazing, sound reduction and safety glazing configurations.



WHAT YOU GET WITH MICROSHADE FILM®

Direct sunlight is blocked



MicroShade Film® enables the use of floorspace right up to the façade as it blocks up to 100% of the direct sun exposure.

Improved indoor climate



MicroShade Film® reduces the need for cooling as well as the risk of draft and offers more stable temperatures.

Predictable solution



MicroShade Film® is a passive technology and needs no control units, configurations or maintenance.

Pleasant daylight



MicroShade Film® ensures superior daylight conditions (LT_0 : 50-60%) and significantly reduces the risk of glare during summer.

Shading with a view



MicroShade Film® allows you to view out your window while at the same time protecting you from the sun's heat.

Sustainability



MicroShade Film® uses no energy, it consists of very little material and needs no maintenance throughout the lifetime of the glazing.

Redefining solar shading

BY OFFERING:

- EXCELLENT HEAT PROTECTION
- PLENTY OF NATURAL DAYLIGHT
- UNOBSTRUCTED VIEW TO THE OUTSIDE

Parameters	MicroShade Film®
Effective g-value (summer)	0,08-0,15
Light transmission (LT ₀)	50-60%
Beam shading	up to 100%
Ra value	0,94-0,96

MicroShade Film® is a coating combined with a micro-structure which is hardly visible to the eye. This sets high performance façades free by offering architects:

- Unlimited glass usage
- Unlimited freedom of design
- Complete removal of external shading (i.e. no cabling, no controls, no static loads and no maintenance)

MicroShade Film® is a unique solution to solar shading as it blocks the heat from the sun while letting natural daylight (and colours) inside the building.

Just like coatings, MicroShade Film® lets you keep the view to the outside - but at the same time it provides more flexibility to the space inside as the effective shading makes it possible to sit right next to the façade.



Solar control glass

MicroShade Film®

THE BEST OF TWO WORLDS

PERFORMANCE OF EXTERNAL SHADING + SIMPLICITY OF GLASS

External shading

Very low g-value when closed
High light transmittance when opened
Natural light
Beam shading when closed



MicroShade Film®

Very low effective g-value
High light transmittance
Natural light
Up to 100% beam shading

Unblocked view to the outside
Clean façades
No size limitation
Passive and predictable
Easy installation, no extra cost
No maintenance
Very low TCO



Solar control glass

Unblocked view to the outside
Clean façades
No size limitation
Passive and predictable
Easy installation, no extra cost
No maintenance
Very low TCO



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