CASE STUDIES

RHODESHADE
Solar Control Materials.

Energy savings

Smart shading solutions for energy efficiency and indoor comfort.

RHODESHADE solar control films and shading systems help buildings meet modern sustainability standards. By optimizing energy performance, improving environmental quality, and using safe, low-emission materials.

How solar control films work. Even from the inside.

The challenge

Sunlight fills indoor spaces with natural daylight and keeps visual connection to the outside world. But too much solar radiation can cause glare, overheating, and discomfort.

Once sunlight enters a building, it turns into heat.

The solution

When installed internally, RHODESHADE Shade Films reflect solar energy back towards the glass, redirecting it outward - as glass allows reflected rays to pass equally in both directions.

Proven performance

- Shade Films reflect up to 90 % of solar energy
- With glazing, they can block over 85 % of IR-heat
- Significantly reduces heat gain and cooling costs

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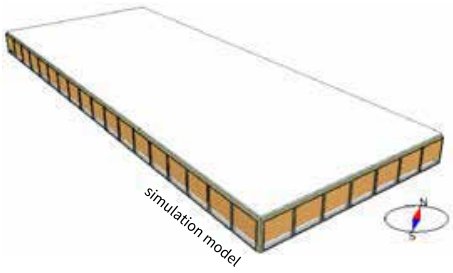
Model Data

Software	ESBO (4.2.4)
Office floor size	1.134m²
Window area	350 m²
Glass fronts	SE / SW / NW / NE
Solar Shade	RHODESHADE by RHODETEC
Shading Control	preserve heat (summer) get heat (winter)

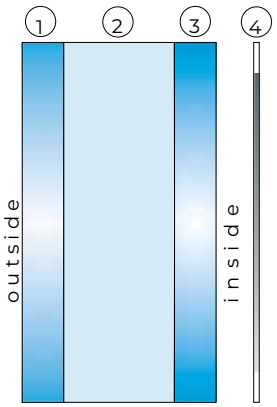


Barcelona

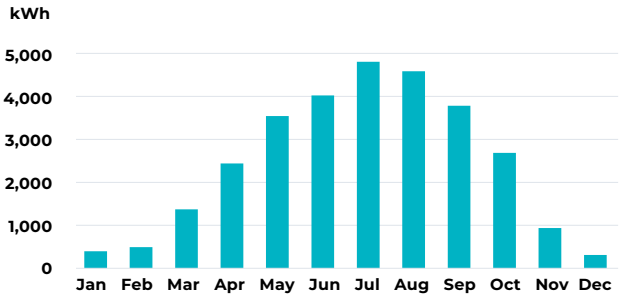
IGU

1	6 mm Solar Control 70/35 (#2)
2	16 mm Air
3	4 mm Clear Glass
4	SiGr01

	IGU	IGU + Shade	Gain
g-Value	0.40	0.15	**63 %**
U-factor [W/m²K]	1.41	1.15	**18 %**



Cooling Energy Savings



27%
Cooling energy savings per year

26 kWh/m²
8,212 Btu/ft²

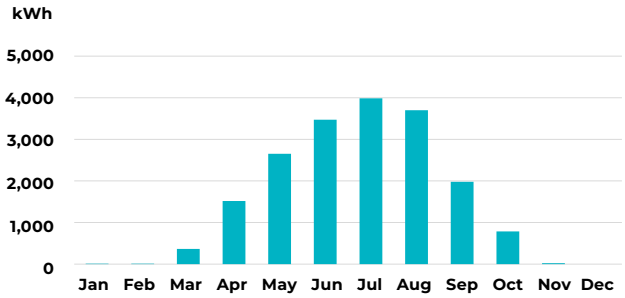
Munich

IGU

1	4 mm Clear Glass
2	16 mm Argon (90 %)
3	4 mm Thermal Insulation Glass (#3)
4	SiGr01

	IGU	IGU + Shade	Gain
g-Value	0.55	0.24	**56%**
U-factor [W/m²K]	0.99	0.85	**14%**

Cooling Energy Savings



30%
Cooling energy savings per year

16 kWh/m²
5,173 Btu/ft²

Ready to save on energy expenses?

Contact us!

info@ rhodeshade.com

Note: Points vary depending on project type (BD+C, ID+C, O+M) and specific certification paths.

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