CASE STUDIES

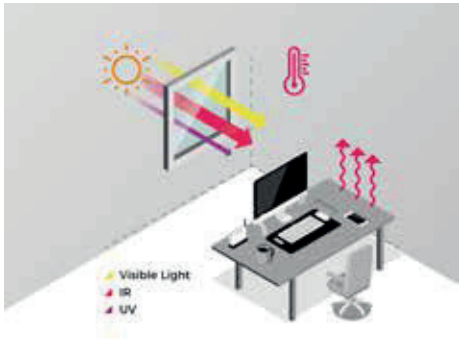
RHODESHADE
Solar Control Materials.

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 84 % of solar energy
- With glazing, they can block over 85 % of IR-heat
- Significantly reduces heat gain and cooling costs

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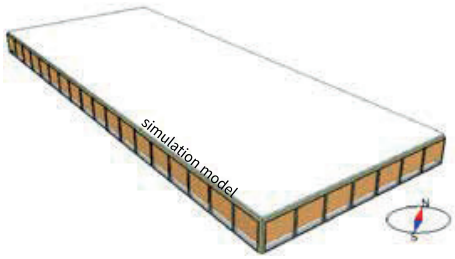
Model Data

Software	ESBO (4.2.4)
Office floor size	12,206 sqft
Window area	2,411 sqft
Glass fronts	SE / SW / NW
Solar Shade	RHODESHADE by RHODETEC
Shading Control	preserve heat (summer) get heat (winter)

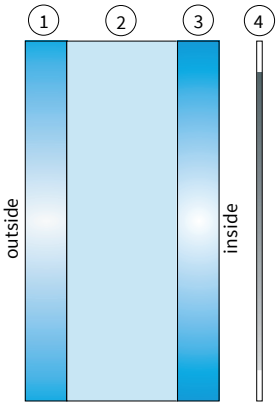


Los Angeles, CA

IGU

1	1/4“ Solar Control 70/35 (#2)
2	5/8“ Air
3	1/4“ Clear Glass
4	SiGr01

	IGU	IGU + SHADE	Gain
g-Value	0.40	0.19	**53 %**
U-factor [BTU/h ft² °F]	0.25	0.19	**24 %**



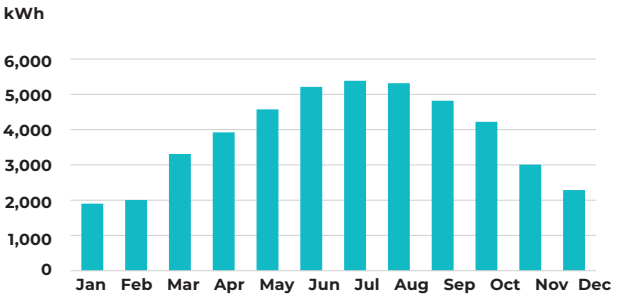
Seattle, WA

IGU

1	1/4“ Solar Control 70/35 (#2)
2	5/8² Argon (90 %)
3	1/4“ Clear Glass
4	SiGr01

	IGU	IGU + SHADE	Gain
g-Value	0.40	0.20	**50%**
U-factor [BTU/h ft² °F]	0.20	0.16	**20%**

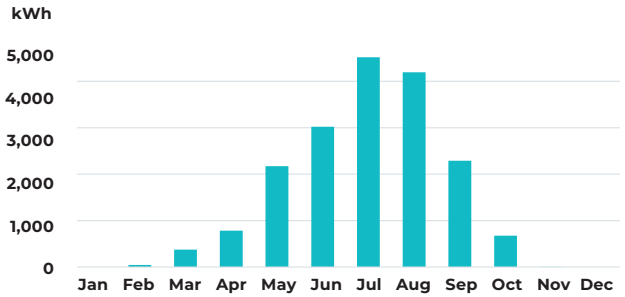
Cooling Energy Savings



34%
Cooling energy savings per year

41 kWh/m²
12,848 Btu/ft²

Cooling Energy Savings



34%
Cooling energy savings per year

16 kWh/m²
5,055 Btu/ft²

Ready to Save on Energy Expenses?

Contact Us!

info@ **rhode**shade.com

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

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MADE IN GERMANY