

### Smart Shading Solutions for Energy Efficiency and Indoor Comfort

RHODETEC solar control films and shading systems help buildings meet modern sustainability standards. By optimizing energy performance, improving indoor 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

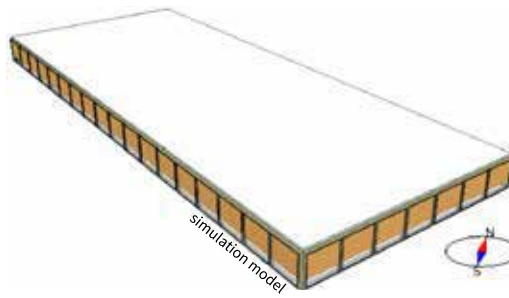
When installed internally, RHODETEC Shade Films reflect solar energy back towards the glass, redirecting it outward - as glass allows reflected rays to pass equally in both directions.

#### 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

## Model Data

<b>Software</b>	ESBO (4.2.4)
<b>Office floor size</b>	1.134 m <sup>2</sup>
<b>Window area</b>	322 m <sup>2</sup>
<b>Glass fronts</b>	SE / SW / NW / NE
<b>Solar Shade</b>	RHODETEC SiGr01
<b>Shading Control</b>	preserve heat (summer) get heat (winter)

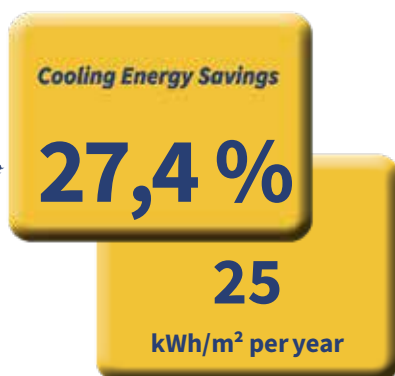
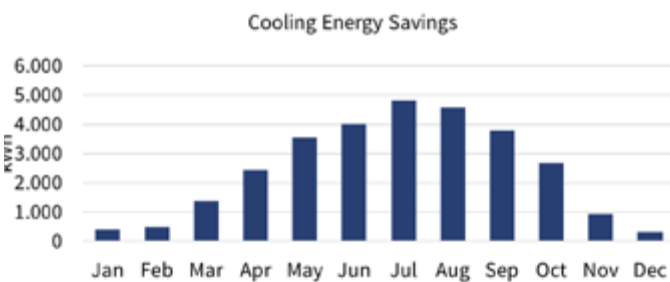
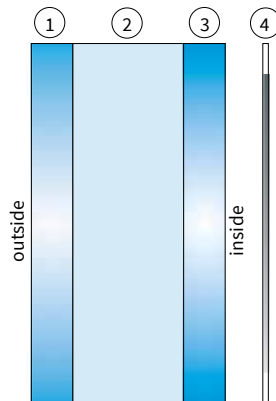


## Barcelona

### IGU

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

	IGU	IGU + SHADE	Gain
<b>g-Value</b>	0,40	0,15	<b>63 %</b>
<b>U-factor [W/m<sup>2</sup>K]</b>	1,41	1,15	<b>18 %</b>

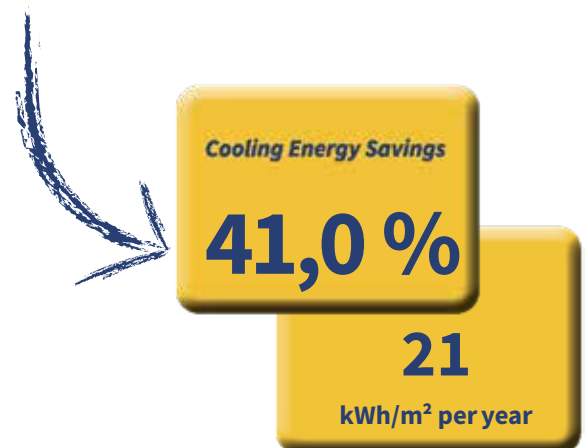
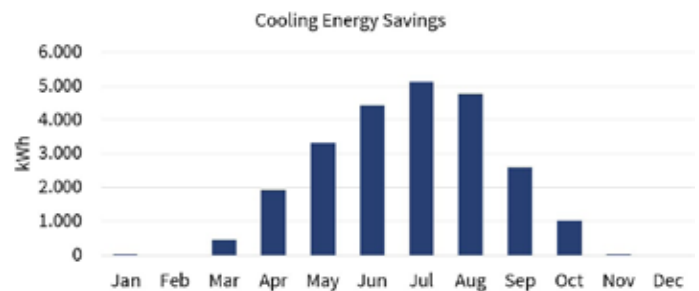


## Munich

### IGU

- 6 mm Thermal Insulation (#2)
  - 16 mm Argon (90 %)
  - 4 mm Clear Glass
- 
- SiGr01

	IGU	IGU + Solar Shade	Gain
<b>g-Value</b>	0,55	0,18	<b>67%</b>
<b>U-factor [W/m<sup>2</sup>K]</b>	1,15	0,96	<b>17%</b>



Ready to Save on Energy Expenses?

Contact Us!



Contact form

🌐 [rhodetec.de](http://rhodetec.de)

✉ [info@rhodetec.de](mailto:info@rhodetec.de)