

Energy-saving window films



Luxasolar® Clear View films are high-quality, laminated polyester foils, which are produced using the innovative technology of sputtering. The window film keeps infrared heat rays out for up to 93%, and ensures a maximum optical clarity.

It works in both ways: in winter it keeps the warmth in. The window film improves the thermal isolation of your current glazing. This means enormous savings on heating-costs (in winter up to 25%).

You will significantly use less energy and that's good news for both the environment and your budget. Furthermore the window film blocks 99% of the ultra-violet rays, so you no longer risk discolouring or fading of your precious interior (carpets, furniture, art works). The window films have very low heat absorption, so they can be installed on every type of glazing, even slanting glazing.



European Parliament



Hilton Wien



Generali Building Brüssel

Characteristic

Luxasolar® Clear View are spectrally selective window films, which are produced using the innovative technology of sputtering. Sputtering is an innovative technology as several layers of different metals (such as silver, titanium, stainless steel...) are imbedded into the polyester film which consists of 5 metal layers. This results in highly reflective window films with very little mirror effect and heat absorption.

Characteristic

The window films:

- are very clear, perfectly transparent
- decrease the energy-costs significantly (in summer energy-savings up to 33%)
- reflect 99.5% of the ultra-violet rays
- keep out the heat, while letting in the visible light.
- reflect +/- 93% of the infrared rays (between 780 to 2500 nanometer)
- work in both ways: in winter the accumulated warmth of the heating is reflected back into the room, which provides energy savings up to 25% in the winter
- have a scratch-resistant layer
- create an extra security against burglars and injuries caused by broken glass
- ensure a reduction of carbon dioxide emissions ("greenhouse gas")

Ultraviolet radiation (280 – 380 nm) *		
- UV Transmitted	TUV	0,03%
Visible Light radiation (380 – 780 nm)		
- Visible Light Transmitted	TV	70,6%
- Visible Light Reflected (Exterior)	ρ_U	23,7%
- Visible Light Reflected (Interior)	ρ'_U	25,1%
- Color Rendering Index	Ra	94,0%
Solar radiation (300 – 2500 nm) *		
- Total Solar Energy Transmitted	τ_e	47,4%
- Total Solar Energy Reflected	ρ_e	30,8%
- Total Solar Energy Absorbed	$\alpha'e$	21,8%
- Solar Heat Gain Coefficient	g	0,479
- Shading Coefficient	SC	0,575

Guarantee

Luxasolar® Clear View window films come with a 10 year guarantee.

The life span of the window films, however, is much higher.

You can be assured that Luxasolar® Clear View window films will maintain its appearance and performance characteristics.

The Luxasolar® Clear View window films are tested according to European standards (NBEN410, 12898 and 673).

About 500 buildings were already equipped with the film in Europe, among which the European Commission, DG environment and Kyoto in Brussels.

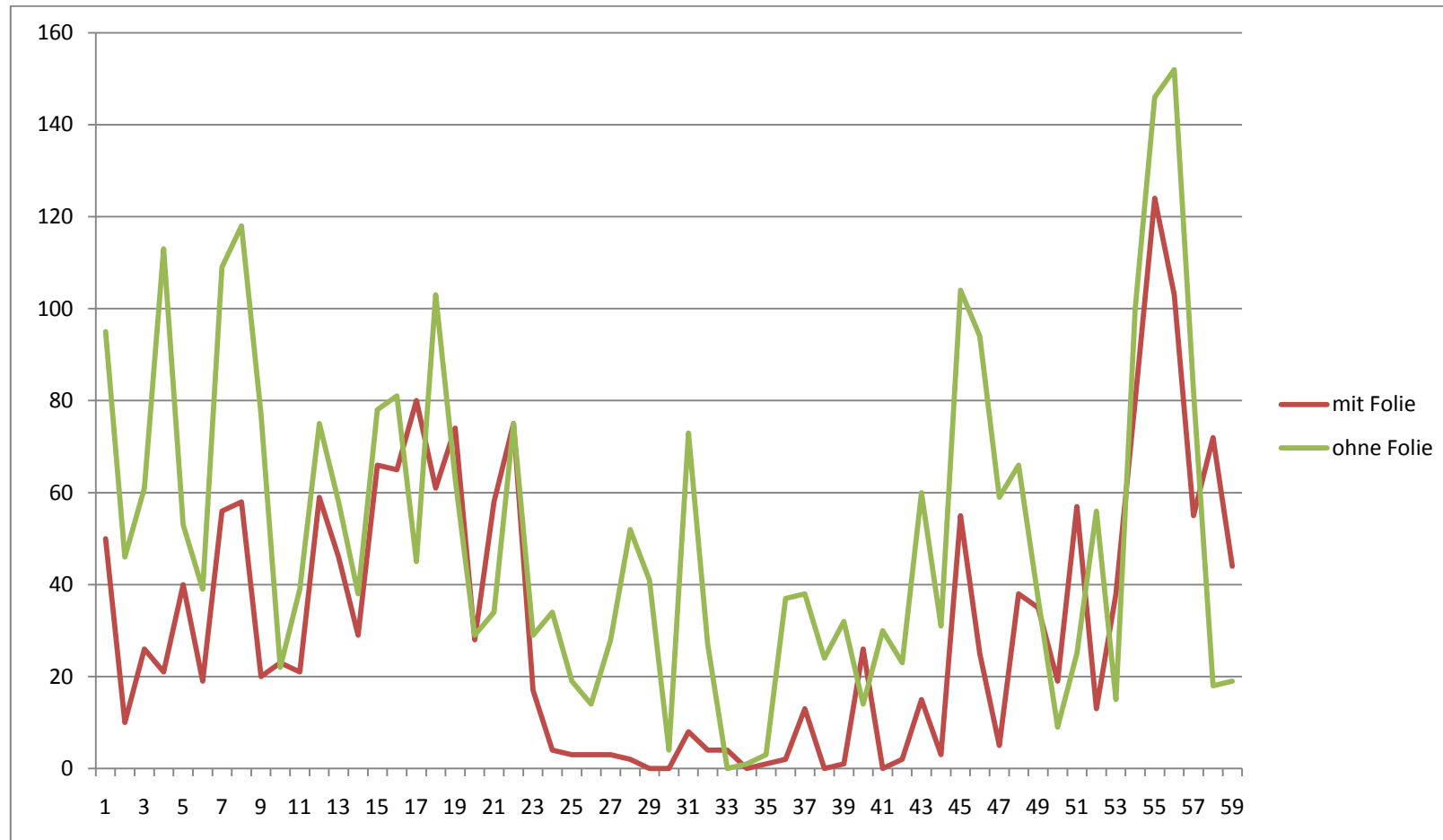
Their return on investment can already be realised after 2 to 3 years. Sometimes, even faster, given the rising costs of energy.

KÜHLUNG / COOLING

MESSDATEN

2 Zimmer / rooms (1 mit /with & 1 ohne/without Folie /foil)

kW



Wochen / weeks

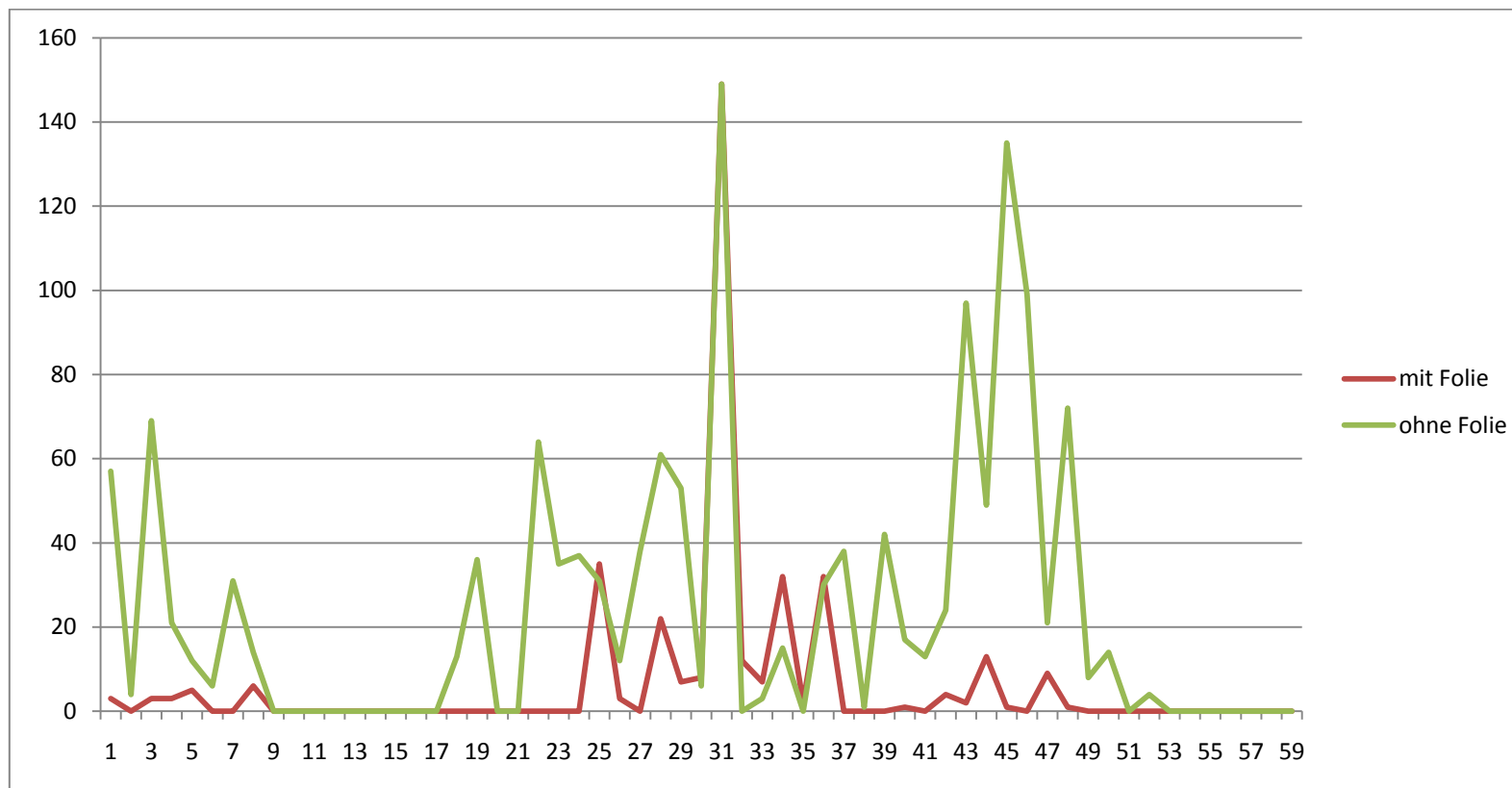
alle Verbrauchswerte in kW pro Woche

HEIZUNG / HEATING

MESSDATEN

2 Zimmer / rooms (1 mit /with & 1 ohne/without Folie /foil)

kW



Wochen / weeks

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