

# Energy Label for MULTIFILM® film roller blinds

## Energy efficiency transparent and comparable

The Energy Label of the ift Rosenheim evaluates windows with sun protection systems regarding their energy efficiency and indicates them in the established energy efficiency classes.

Thus the energy efficiency for interior film roller blinds is transparently and clearly.

### CLASSIFICATION

The classification of the sun protecting system is always determined in combination with a certain window. Because of the conflictive requirements during summer and wintertime there are two separate classifications: the summer heat protection and the winter insulation properties.

Following facts are considered for determining the energy efficiency classes:

*Improvement of the summer heat protection (cooling energy requirement)*

- III Prevention of overheating
- III Savings on cooling energy
- III Pleasant room temperatures

*Improvement of the winter insulating properties (heating energy requirement)*

- III Optimal use of solar energy earnings in order to reduce the heating energy requirement
- III Improvement of insulation during nighttime

### EVALUATION OF MULTIFILM® ROLLER BLINDS

The Energy-Label on the right side demonstrates a MULTIFILM® roller blind in combination with a triple sun protection and thermal insulating glass.

Values triple sun protection and thermal insulating glass:

- III  $U_g$ -value: 0.50 W/m<sup>2</sup>K
- III g-value: 0.20

Energy efficiency class without sun protection:

- III Energy requirements heating: C
- III Energy requirements cooling: C

The classification of this glazing has been improved by one class referring heat protection and by two classes referring insulation by using film roller blind with high reflective polyester film (SiAt01).

Values glazing with sun protection film roller blind (film type SiAt01):

- III  $U_{g,s}$ -value: 0.43 W/m<sup>2</sup>K
- III  $g_t$ -value: 0.13

Energy efficiency class with film roller blind:

- III Energy requirements heating: B
- III Energy requirements cooling: A

Thereby the label proves the high energy savings potential of film roller blinds and their positive effect on the energy balance of buildings. Even at high-quality windows film roller blinds bring significant benefits on energy savings.

### QUALITY GUARANTEED

- III Warranty for all products
- III Quality Management and Environmental Management according to ISO 9001:2015 and ISO 14001:2015
- III More than 25 years experience
- III Product quality according to DIN EN 13120
- III Above-average compliance with DIN EN 14501 (Performance requirements for sun protection systems) in respect of glare protection, heat protection and view to the outside
- III Member of the European Association for glare protection at Computer Workstations (EFFB)

Fenster

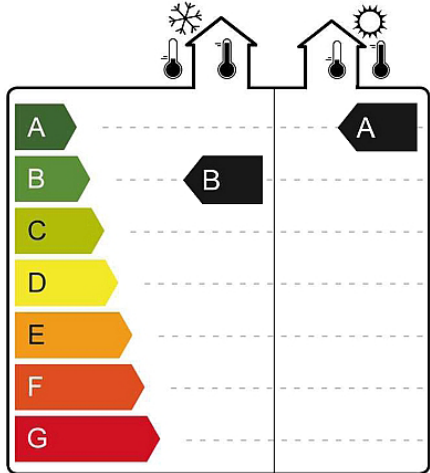
Energy Label

MULTIFILM®  
SONNEN- UND BLENDSCHUTZ

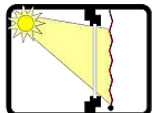
Nr. EL-0000010167

MULTIFILM Sonnen- und  
Hohensteiner Str. 30 u. 32  
09212 Limbach-Oberfrohna  
Deutschland

Rehau 86; 3-fach S+WSG; SiAt01



Verwendeter  
Rollladen/Sonnenschutz



|                      |                                 |      |
|----------------------|---------------------------------|------|
| Kennwerte<br>Energie | $U_{w,ln}$ W/(m <sup>2</sup> K) | 0,77 |
|                      | g-Wert                          | 0,20 |

Der Hersteller bestätigt die CE-Konformität  
des Produkts im Einsatzland.

Gültigkeit und Basisdaten  
des Energy Labels  
überprüfbar unter:  
[www.ift-service.de/energy](http://www.ift-service.de/energy)



ift  
ROSENHEIM

Erstellt mit  
ift Energy Label  
Version 3.01

Information of the ift Rosenheim



## FURTHER ENERGY LABELS / CASE STUDIES

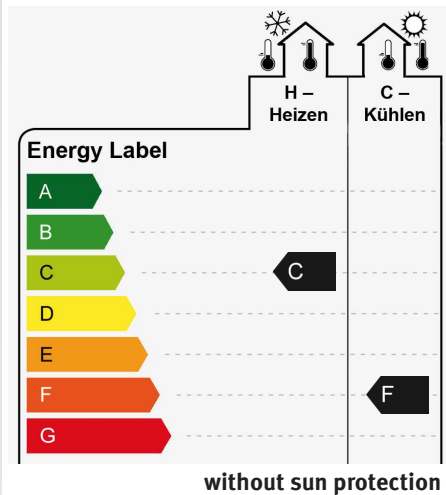
The following Energy Labels show further customary windows and the improvement of their energy values by using film roller blinds.

### WINDOW

#### Plastic window

with *double insulation glass*  
without sun protection

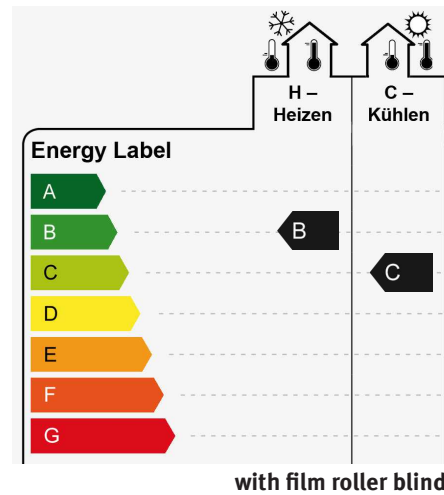
|||  $U_g$ -value: 1.20 W/m<sup>2</sup>K  
|||  $g$ -value: 0.58



### WINDOW WITH FILM ROLLER BLIND

#### Plastic window with film roller blind:

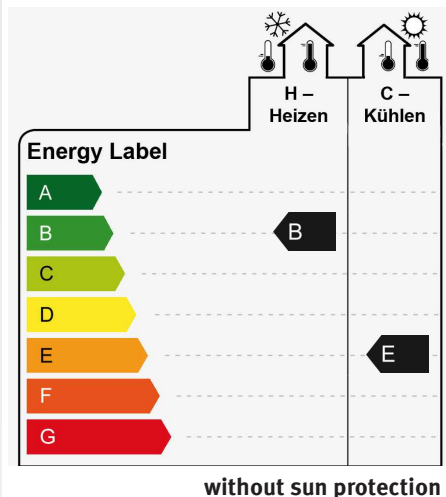
||| Film: silver-anthracite (SiAt01),  
79 % solar reflectance, 1 % visible transmittance  
|||  $U_{g,s}$ -value: 0.87 W/m<sup>2</sup>K  
|||  $g_t$ -value: 0.27



#### Plastic window

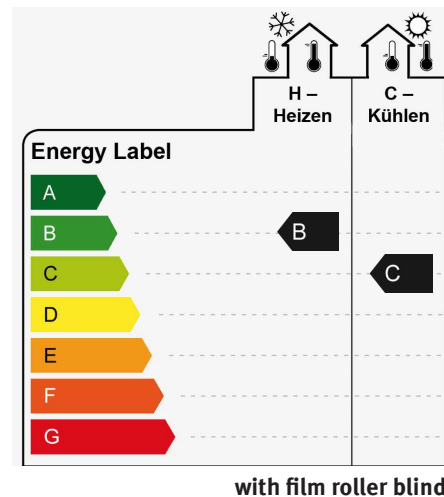
with *triple thermal insulation glass*  
without sun protection

|||  $U_g$ -value: 0.70 W/m<sup>2</sup>K  
|||  $g$ -value: 0.42



#### Plastic window with film roller blind:

||| Film: silver-anthracite (SiAt01),  
79 % solar reflectance, 1 % visible transmittance  
|||  $U_{g,s}$ -value: 0.58 W/m<sup>2</sup>K  
|||  $g_t$ -value: 0.26



Excerpts of the company declaration; information of the ift Rosenheim

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