

Energy labeling certificate for windows

Reg.nR. 505-4.4



Company
UnikFunkis Vinduer & Døre A/S Livøvej 10, 8800 Viborg CVR nr.: 1012 3135

Product system
UnikFunkis Aluclad - Double glazing
Product group
Aluclad

Energy class for the product system		
	Energy class	Label
$0 \leq E_{ref}$		
$-17 \leq E_{ref} < 0$		
$-33 \leq E_{ref} < -17$		
$-55 \leq E_{ref} < -33$ *		
$-60 \leq E_{ref} < -55$ *		
$E_{ref} < -60$ *		

The calculation of the energy grant is for one Reference house with Danish climate data in accordance with the formula contained in BR 18 (§258). Energy labeling and the calculated energy grant is therefore only valid in Denmark. Product system E_{ref} – values rounded to integer within Classification.

* Windows energy class C or worse is generally only permitted for use in construction, which are not covered by BR 18.

Energy data for the product system	
Reference Window – definition: 1-leaf window with opening frame in the European standard size 1.23 x 1.48 m.	
$E_{ref} = 196,40 \cdot g_w - 90,36 \cdot U_w$	-15,7 kWh/m ²
U_w : U-value (Window)	1,38 W/m ² ·K
g_w : Solar transmittance (Window)	0,55
F_f : Glass share (A_g / A_w)	0,76

Standard glass for product system	
Standard glass – definition: The glass pane, which is used as the production system's main pane.	
Double glazing: 4-20-4	
$U_{c,g}$: Center U-value (glass)	1,19 W/m ² ·K
g_g : Solar transmittance (glass)	0,73
LT_g : Light Transmittance (glass)	0,82
λ_{eq} : Eg. Thermal conductivity (spacer)	0,40/0,28 W/m·K

Standards bar		
Category	Linier loss	Label
Lavenergisporsse	$\leq 0,010$ W/m·K	✓
Energisporsse	$> 0,010$ W/m·K	
Bredde på standardsporsse		28 mm
Psi-værdi = linjetab ved sporsse (pr. side)		0,003 W/m·K

For vinduer med mange sporsser (palævinduer) er det vigtigt at vælge en energimæssig god sporsse (dvs. tynde sporsser med et lille linjetab).

Gennemgående sporsser må ikke anvendes i et energimærket produktsystem, men er dog tilladt, hvis de er nødvendige for bæreevnen eller som nødvendig adskillelse mellem 2 rudetyper, typisk ved større vinduesrammer med store rudedelter.

Is the window system subject to control under the current version of the Technical Requirements for DVV	Yes	No
	✓	

It is hereby certified that:

- The company can calculate the products timely energy data.
- The company's documentation is checked annually by an Independent body.
- Energy data is documented with test reports from a notified recognized body.
- Mullions is performed according to the frame and sash in the product system.

This certificate is valid until 24. june 2021

24.06.2019
Date For Energimærkningsordningen