

Certificate

valid until 31.12.2011

*Passivhaus
Institut
Dr. Wolfgang Feist
Rheinstraße 44/46
D-64283 Darmstadt*



**Component
suitable for
Passive Houses: Window Frame**

Manufacturer: Drewexim Sp. z o.o. PL-75-137 Koszalin

Name of product: Euro88 PHI

The following criteria were checked to award the certificate:

The criteria are valid for the cool temperate climate.

Passive House comfort criterion:

Under standard conditions (use of glazing with $U_g = 0.7 \text{ W}/(\text{m}^2\text{K})$, width of window 1.23 m, height of window 1.48 m) the U-Value of the window fulfils the following condition:

$$U_w = 0.79 \leq 0.80 \text{ W}/(\text{m}^2\text{K})$$

Thermal data of the window frame:

Frame	jamb	sill
U_f [W/(m ² K)]	0.74	0.72
Width [mm]	97	117

Spacer	Superspacer Tri-Seal
Ψ_g [W/(mK)]	0.032/0,033

Conditions specific for Passive Houses:

The suitability for Passive Houses was checked only with the spacer denoted above; thermally worse spacers, especially those made of aluminium, lead to significantly higher thermal losses.

Installing the window suitable for Passive House:

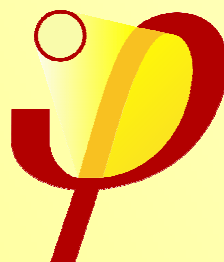
Including all thermal bridge effects, the window fulfils the condition

$$U_{w,installed} \leq 0,85 \text{ W}/(\text{m}^2\text{K}),$$

if the window is installed into wall constructions suitable for Passive Houses (brick wall with thermal insulation, light weight wooden construction and form work for concrete of polysterene) according to the drawings of details given in the appendix.

The certificate has to be used as follows:

**Component
suitable for
Passive Houses
Dr. Wolfgang Feist**



Window frame:

**$U_f = 0.74 / 0.72 \text{ W}/(\text{m}^2\text{K})$
 $\Psi_g = 0.032/0,033 \text{ W}/(\text{mK})$
Width = 97/ 117 mm**