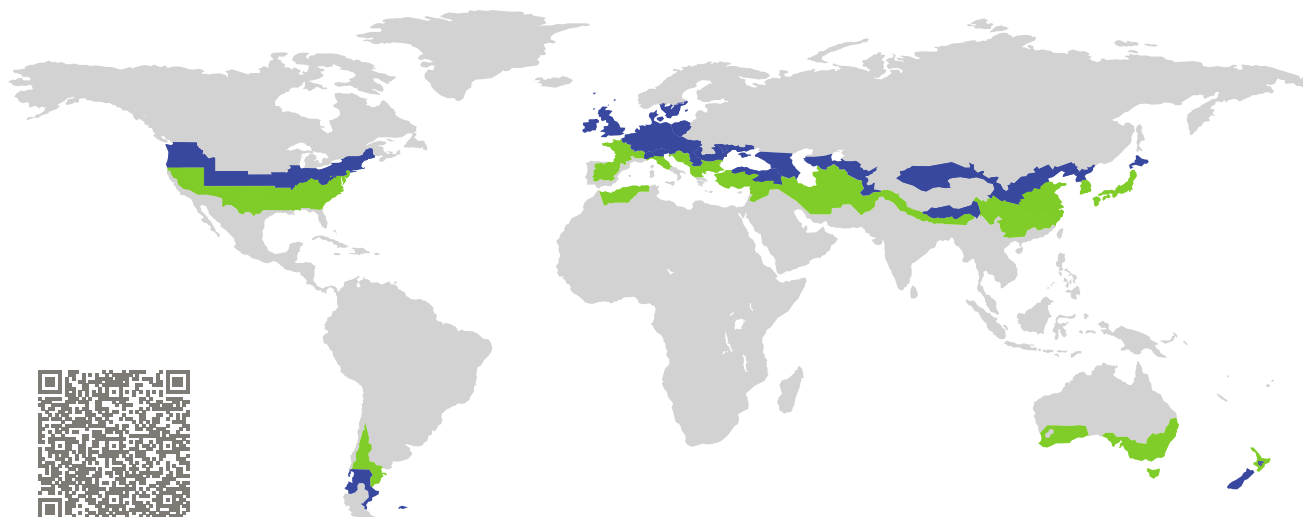


# CERTIFICATE

Certified Passive House Component

Component-ID 1397sl03 valid until 31st December 2019

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany

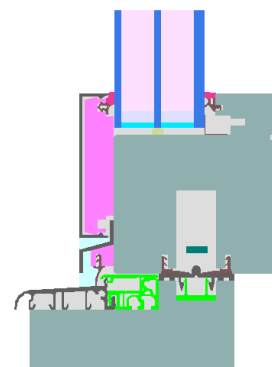


Category: **Sliding Door**  
Manufacturer: **ENERsign GmbH,  
Wittlich,  
Germany**  
Product name: **ENERsign primus slide**

**This certificate was awarded based on the following  
criteria for the cool, temperate climate zone**

Comfort  $U_{SL} = 0.78 \leq 0.80 \text{ W}/(\text{m}^2 \text{ K})$   
 $U_{SL, \text{installed}} \leq 0.85 \text{ W}/(\text{m}^2 \text{ K})$   
with  $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$

Hygiene  $f_{Rsi=0.25} \geq 0.70$



cool, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute

Passive House  
efficiency class

phE

phD








phC


phB

phA

[www.passivehouse.com](http://www.passivehouse.com)



| Frame values          |       |   | Frame width<br>$b_f$<br>mm  | $U$ -value frame<br>$U_f$<br>W/(m <sup>2</sup> K) | $\Psi$ -panel edge<br>$\Psi_g$<br>W/(m K) | Temp. Factor<br>$f_{Rsi=0.25}$<br>[-] |
|-----------------------|-------|---|-----------------------------|---|---|---------------------------------------|
| Top                   | (to)  |  | 148                         | 0.89  | 0.019                                     | 0.76                                  |
| Side                  | (s)   |  | 165                         | 0.78  | 0.019                                     | 0.74                                  |
| Top<br>fixed          | (tof) |  | 100                         | 0.56  | 0.019                                     | 0.76                                  |
| Side<br>fixed         | (sf)  |  | 100                         | 0.54  | 0.019                                     | 0.75                                  |
| Bottom<br>fixed       | (bof) |  | 100                         | 0.55  | 0.019                                     | 0.76                                  |
| Threshold             | (th)  |  | 154                         | 1.11  | 0.019                                     | 0.73                                  |
| Mullion<br>1 casement | (m1)  |  | 123                         | 1.20  | 0.022                                     | 0.70                                  |
|                       |       |   | Spacer: SWISSPACER Ultimate |   | Secondary seal: Polyurethane              |                                       |



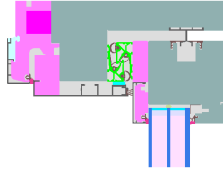
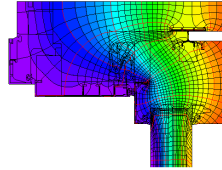
**Top**


$b_f = 148.00$  mm

$U_f = 0.89$  W/(m<sup>2</sup> K)

$\Psi_g = 0.019$  W/(m K)

$f_{Rsi} = 0.76$



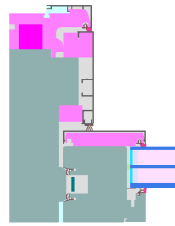
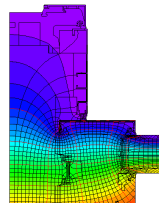
**Side**


$b_f = 165.00$  mm

$U_f = 0.78$  W/(m<sup>2</sup> K)

$\Psi_g = 0.019$  W/(m K)

$f_{Rsi} = 0.74$



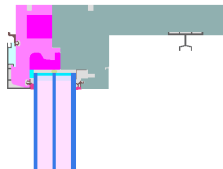
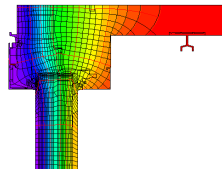
**Top  
fixed**

$b_f = 100.00$  mm

$U_f = 0.56$  W/(m<sup>2</sup> K)

$\Psi_g = 0.019$  W/(m K)

$f_{Rsi} = 0.76$



### Side

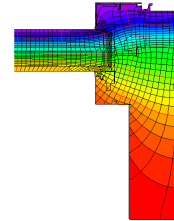
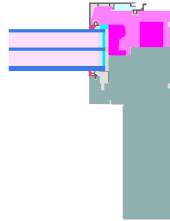
fixed

$$b_f = 100.00 \text{ mm}$$

$$U_f = 0.54 \text{ W}/(\text{m}^2 \text{ K})$$

$$\Psi_g = 0.019 \text{ W}/(\text{m K})$$

$$f_{Rsi} = 0.75$$



### Bottom

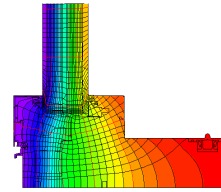
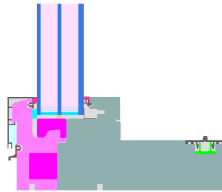
fixed

$$b_f = 100.00 \text{ mm}$$

$$U_f = 0.55 \text{ W}/(\text{m}^2 \text{ K})$$

$$\Psi_g = 0.019 \text{ W}/(\text{m K})$$

$$f_{Rsi} = 0.76$$



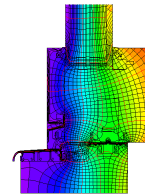
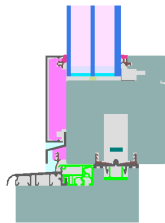
### Threshold

$$b_f = 154.00 \text{ mm}$$

$$U_f = 1.11 \text{ W}/(\text{m}^2 \text{ K})$$

$$\Psi_g = 0.019 \text{ W}/(\text{m K})$$

$$f_{Rsi} = 0.73$$



### Mullion

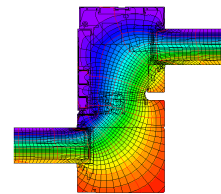
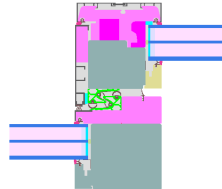
1 casement

$$b_f = 123.00 \text{ mm}$$

$$U_f = 1.20 \text{ W}/(\text{m}^2 \text{ K})$$

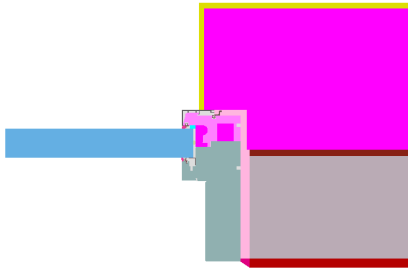
$$\Psi_g = 0.022 \text{ W}/(\text{m K})$$

$$f_{Rsi} = 0.70$$



Exterior insulation and finishing s (EIFS)  
side (fixed glazed)

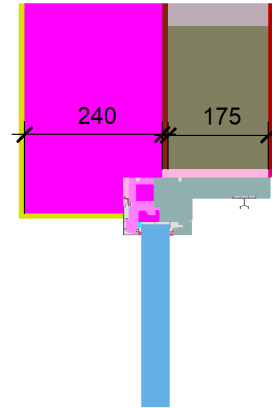
$$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0.01 \text{ W/(m K)}$$

Exterior insulation and finishing s (EIFS)  
top (fixed glazing)

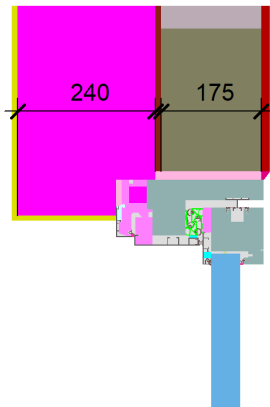
$$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0.01 \text{ W/(m K)}$$

Exterior insulation and finishing s (EIFS)  
top (operable)

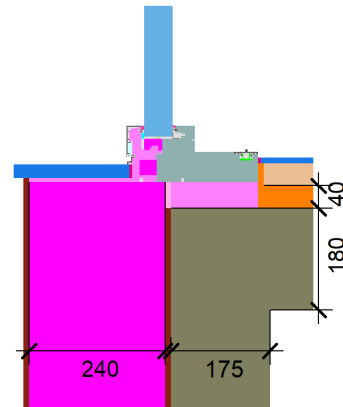
$$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0.05 \text{ W/(m K)}$$

Ext insulation a. finish. s. (EIFS)  
threshold ceiling (fixed gl)

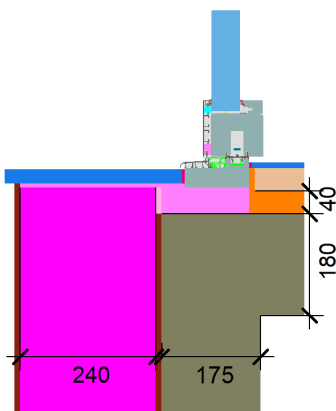
$$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0.02 \text{ W/(m K)}$$

Ext insulation a. finish. s. (EIFS)  
threshold ceiling (operable)

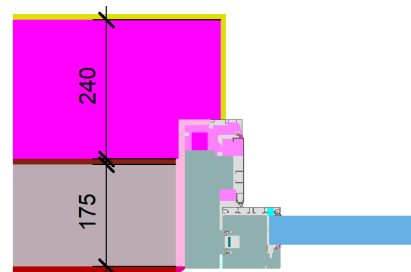
$$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0.14 \text{ W/(m K)}$$

Exterior insulation and finishing system  
(EIFS) side

$$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0.08 \text{ W/(m K)}$$

