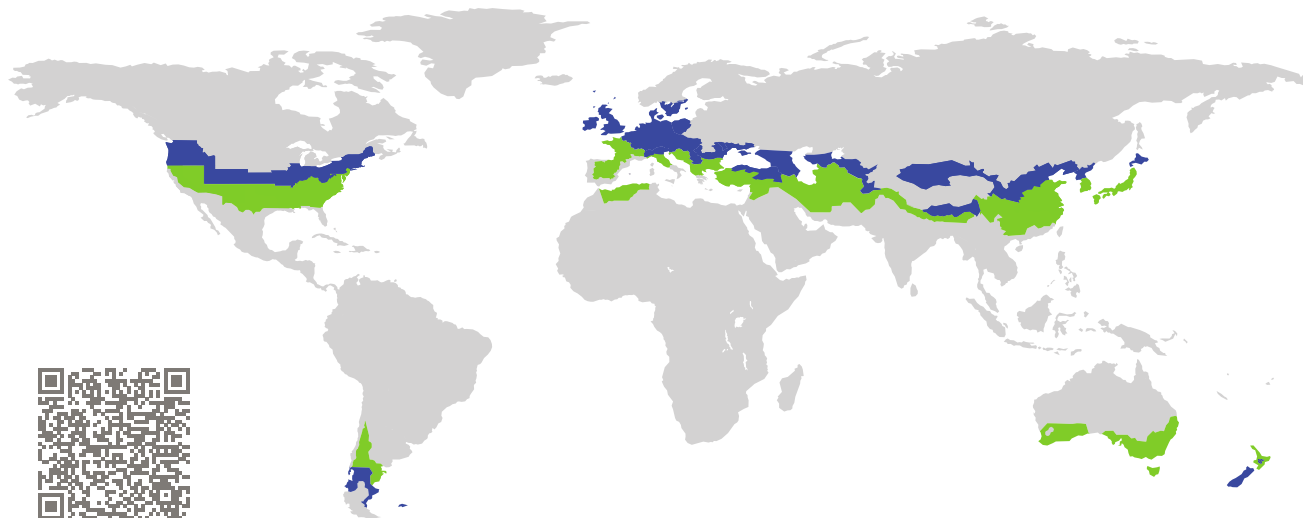


# ZERTIFIKAT

Zertifizierte Passivhaus-Komponente

Komponenten-ID 1830ws03 gültig bis 31. Dezember 2025

Passivhaus Institut  
Dr. Wolfgang Feist  
64283 Darmstadt  
Deutschland

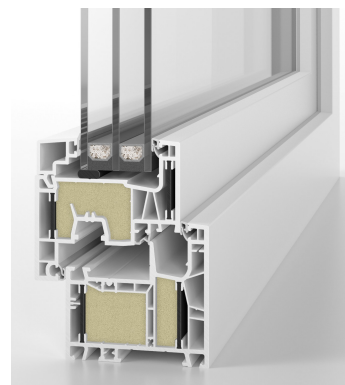


Kategorie: **Fenster System**  
Hersteller: **aluplast GmbH,  
Karlsruhe,  
Deutschland**  
Produktname: **energeto neo**

**Folgende Kriterien für die kühl-gemäßigte Klimazone  
wurden geprüft**

Behaglichkeit  $U_{W=0,80} \leq 0,80 \text{ W}/(\text{m}^2 \text{ K})$   
 $U_{W,\text{eingebaut}} \leq 0,85 \text{ W}/(\text{m}^2 \text{ K})$   
mit  $U_g = 0,70 \text{ W}/(\text{m}^2 \text{ K})$

Hygiene  $f_{Rsi=0,25} \geq 0,70$   
Luftdichtheit  $Q_{100} = 0,22 \leq 0,25 \text{ m}^3/(\text{h m})$



kühl-gemäßigtes Klima



**ZERTIFIZIERTE  
KOMPONENTE**

Passivhaus Institut

Passivhaus-  
Effizienzklasse

phE

phD

phC


phB


phA

[www.passiv.de](http://www.passiv.de)





Rahmen-Kennwerte			Rahmenbreite $b_f$ mm	Rahmen- $U$ -Wert $U_f$ W/(m <sup>2</sup> K)	Glasrand- $\Psi$ -Wert $\Psi_g$ W/(m K)	Temperaturfaktor $f_{RSI=0,25}$ [-]
Pfosten fest	(0M1)		94	1,13	0,026	0,72
Riegel fest	(0T1)		94	1,13	0,026	0,72
Pfosten 1 Flügel	(1M1)		136	0,88	0,026	0,71
Pfosten 1 Flügel	(1M2)		136	1,05	0,025	0,66
Riegel 1 Flügel	(1T1)		136	0,88	0,026	0,71
Riegel 1 Flügel	(1T2)		137	1,05	0,026	0,66
Pfosten 2 Flügel	(2M1)		178	0,89	0,026	0,72
Pfosten 2 Flügel	(2M2)		178	0,99	0,026	0,65
Riegel 2 Flügel	(2T1)		178	0,89	0,026	0,72
Riegel 2 Flügel	(2T2)		178	0,99	0,025	0,65
Ecke	(CO1)		316	0,52	0,022	0,74
Unten fest	(FB1)		103	0,78	0,026	0,74
Oben fest	(FH1)		73	0,70	0,026	0,74
Seitlich fest	(FJ1)		73	0,70	0,026	0,74
Stulp	(FM1)		138	0,88	0,026	0,71
Stulp	(FM2)		138	0,98	0,025	0,65
Unten	(OB1)		145	0,84	0,026	0,72
Oben	(OH1)		115	0,82	0,026	0,74
Seitlich	(OJ1)		115	0,82	0,026	0,74
Abstandhalter: SWISSPACER ULTIMATE			Sekundärdichtung: Polysulfid			

Rahmen-Kennwerte	Rahmenbreite $b_f$ mm	Rahmen- $U$ -Wert $U_f$ W/(m <sup>2</sup> K)	Glasrand- $\Psi$ -Wert $\Psi_g$ W/(m K)	Temperaturfaktor $f_{Rsi=0,25}$ [-]
Schwelle (OT1) 	85	1,42	0,026	0,63
Abstandhalter: SWISSPACER ULTIMATE		Sekundärdichtung: Polysulfid		


 **Pfosten fest**


$b_f = 94 \text{ mm}$   
 $U_f = 1,13 \text{ W/(m}^2 \text{ K)}$   
 $\Psi_g = 0,026 \text{ W/(m K)}$   
 $f_{Rsi} = 0,72$




 **Riegel fest**


$b_f = 94 \text{ mm}$   
 $U_f = 1,13 \text{ W/(m}^2 \text{ K)}$   
 $\Psi_g = 0,026 \text{ W/(m K)}$   
 $f_{Rsi} = 0,72$




 **Pfosten 1 Flügel**

$b_f = 136 \text{ mm}$   
 $U_f = 0,88 \text{ W/(m}^2 \text{ K)}$   
 $\Psi_g = 0,026 \text{ W/(m K)}$   
 $f_{Rsi} = 0,71$



 **Pfosten 1 Flügel**

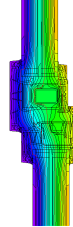
$b_f = 136 \text{ mm}$   
 $U_f = 1,05 \text{ W/(m}^2 \text{ K)}$   
 $\Psi_g = 0,025 \text{ W/(m K)}$   
 $f_{Rsi} = 0,66$





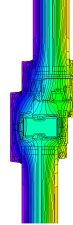
**Riegel**  
1 Flügel

$$b_f = 136 \text{ mm}$$
$$U_f = 0,88 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,71$$



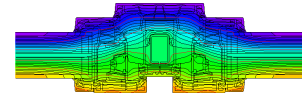
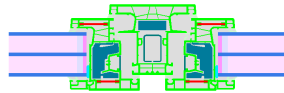
**Riegel**  
1 Flügel

$$b_f = 137 \text{ mm}$$
$$U_f = 1,05 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,66$$



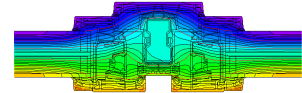
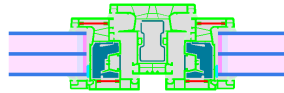
**Pfosten**  
2 Flügel

$$b_f = 178 \text{ mm}$$
$$U_f = 0,89 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,72$$



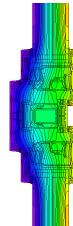
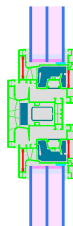
**Pfosten**  
2 Flügel

$$b_f = 178 \text{ mm}$$
$$U_f = 0,99 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,65$$



**Riegel**  
2 Flügel

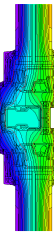
$$b_f = 178 \text{ mm}$$
$$U_f = 0,89 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,72$$





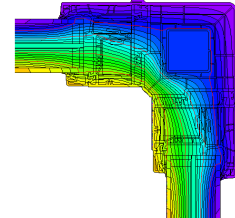
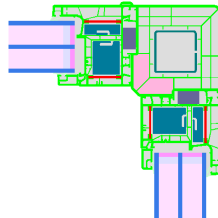
### Riegel 2 Flügel

$$b_f = 178 \text{ mm}$$
$$U_f = 0,99 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,025 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,65$$



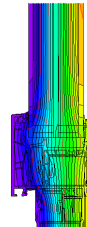
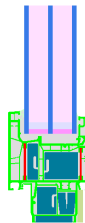
### Ecke

$$b_f = 316 \text{ mm}$$
$$U_f = 0,52 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,022 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,74$$



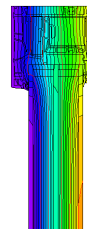
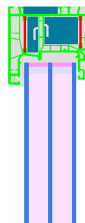
### Unten fest

$$b_f = 103 \text{ mm}$$
$$U_f = 0,78 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,74$$



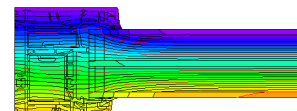
### Oben fest

$$b_f = 73 \text{ mm}$$
$$U_f = 0,70 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,74$$



### Seitlich fest

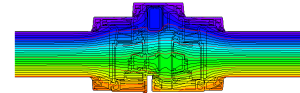
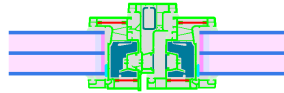
$$b_f = 73 \text{ mm}$$
$$U_f = 0,70 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,74$$





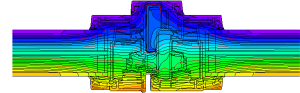
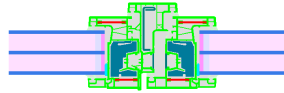
### Stulp

$$b_f = 138 \text{ mm}$$
$$U_f = 0,88 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,71$$



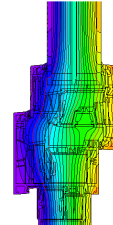
### Stulp

$$b_f = 138 \text{ mm}$$
$$U_f = 0,98 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,025 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,65$$



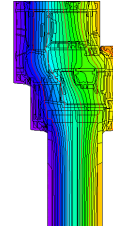
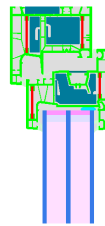
### Unten

$$b_f = 145 \text{ mm}$$
$$U_f = 0,84 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,72$$



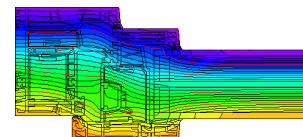
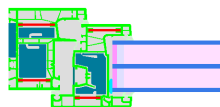
### Oben

$$b_f = 115 \text{ mm}$$
$$U_f = 0,82 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,74$$



### Seitlich

$$b_f = 115 \text{ mm}$$
$$U_f = 0,82 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,74$$





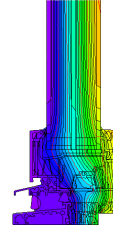
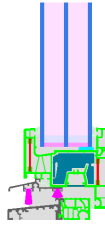
## Schwelle

$$b_f = 85 \text{ mm}$$

$$U_f = 1,42 \text{ W}/(\text{m}^2 \text{ K})$$

$$\Psi_g = 0,026 \text{ W}/(\text{m K})$$

$$f_{Rsi} = 0,63$$





# Geprüfte Einbausituationen

**Betonschalungsstein (fest verglast)**

$U_{Wand} = 0,15 \text{ W}/(\text{m}^2 \text{ K})$

$\Psi_{\text{einbau}}$	W/(m K)
Oben	0,003
Links	0,003
Rechts	0,003
Unten	0,030

$U_{W,\text{eingebaut}} = 0,83 \text{ W}/(\text{m}^2 \text{ K})$

**Betonschalungsstein (öffnenbar)**

$U_{Wand} = 0,15 \text{ W}/(\text{m}^2 \text{ K})$

$\Psi_{\text{einbau}}$	W/(m K)
Oben	0,005
Links	0,005
Rechts	0,005
Unten	0,030

$U_{W,\text{eingebaut}} = 0,83 \text{ W}/(\text{m}^2 \text{ K})$

**Holzleichtbau (fest verglast)**

$U_{Wand} = 0,13 \text{ W}/(\text{m}^2 \text{ K})$

$\Psi_{\text{einbau}}$	W/(m K)
Oben	0,013
Links	0,013
Rechts	0,013
Unten	0,019

$U_{W,\text{eingebaut}} = 0,84 \text{ W}/(\text{m}^2 \text{ K})$

**Holzleichtbau (öffnenbar)**

$U_{Wand} = 0,13 \text{ W}/(\text{m}^2 \text{ K})$

$\Psi_{\text{einbau}}$	W/(m K)
Oben	0,014
Links	0,014
Rechts	0,014
Unten	0,019

$U_{W,\text{eingebaut}} = 0,84 \text{ W}/(\text{m}^2 \text{ K})$

**Wärmedämmverbundsystem (WDVS) (fest verglast)**

$U_{Wand} = 0,13 \text{ W}/(\text{m}^2 \text{ K})$

$\Psi_{\text{einbau}}$	W/(m K)
Oben	0,001
Links	0,001
Rechts	0,001
Unten	0,025

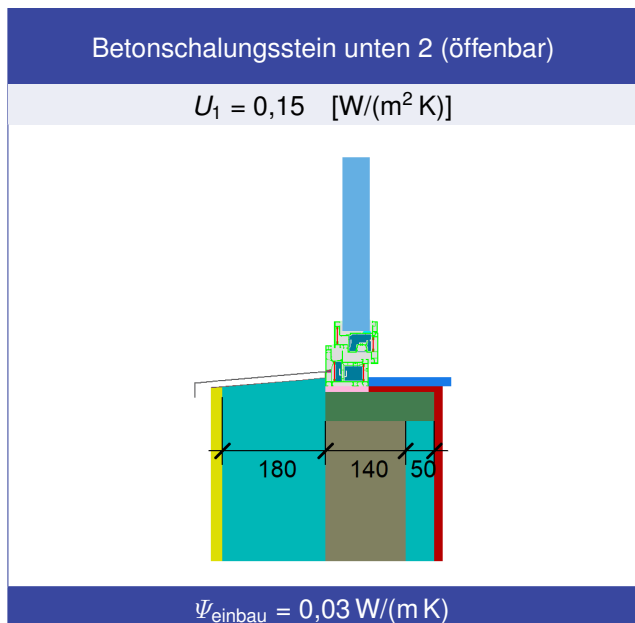
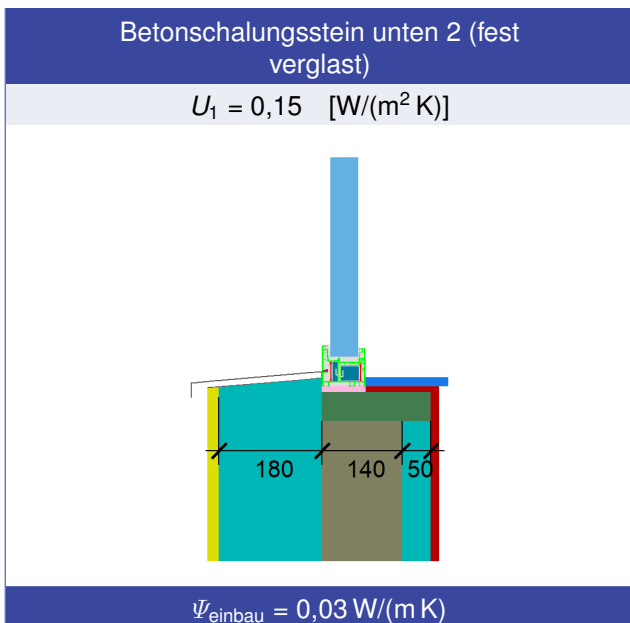
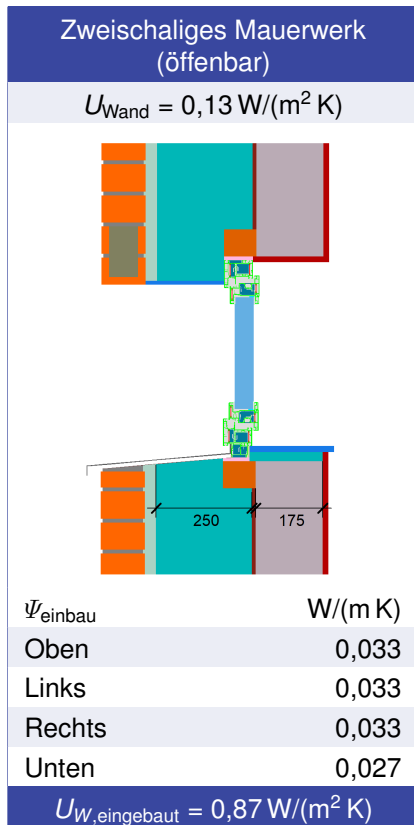
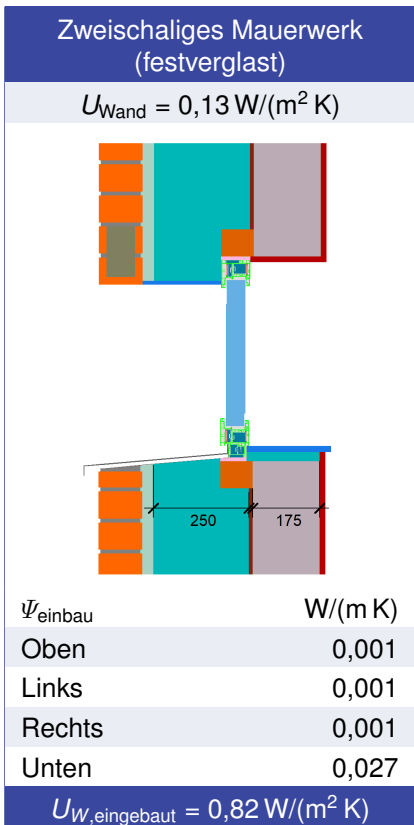
$U_{W,\text{eingebaut}} = 0,82 \text{ W}/(\text{m}^2 \text{ K})$

**Wärmedämmverbundsystem (WDVS) (öffnenbar)**

$U_{Wand} = 0,13 \text{ W}/(\text{m}^2 \text{ K})$

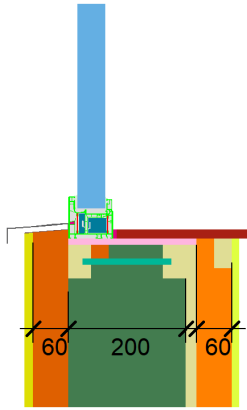
$\Psi_{\text{einbau}}$	W/(m K)
Oben	0,003
Links	0,003
Rechts	0,003
Unten	0,026

$U_{W,\text{eingebaut}} = 0,83 \text{ W}/(\text{m}^2 \text{ K})$



Holzleichtbau unten 2 (fest verglast)

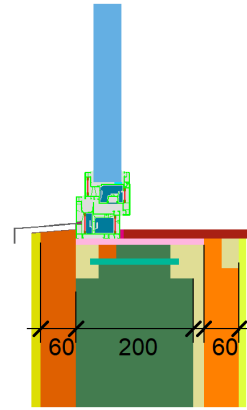
$$U_1 = 0,13 \quad [\text{W}/(\text{m}^2 \text{K})]$$



$$\Psi_{\text{einbau}} = 0,02 \text{ W}/(\text{m K})$$

Holzleichtbau unten 2 (öffnbar)

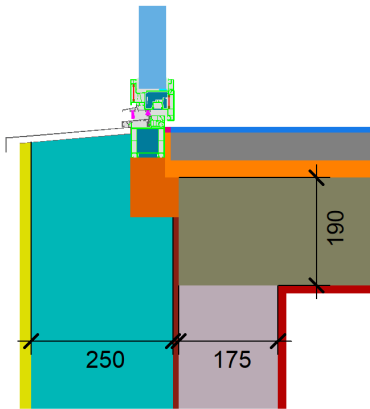
$$U_1 = 0,13 \quad [\text{W}/(\text{m}^2 \text{K})]$$



$$\Psi_{\text{einbau}} = 0,02 \text{ W}/(\text{m K})$$

Wärmedämmverbundsystem (WDVS)  
Schwelle Geschossdecke (öffnbar)

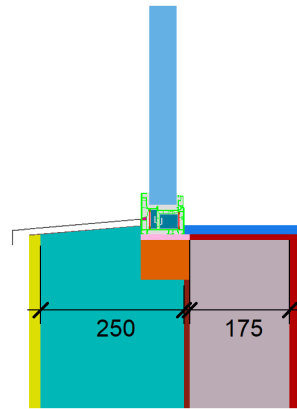
$$U_1 = 0,13 \quad [\text{W}/(\text{m}^2 \text{K})]$$



$$\Psi_{\text{einbau}} = 0,05 \text{ W}/(\text{m K})$$

Wärmedämmverbundsystem (WDVS)  
unten (fest verglast)

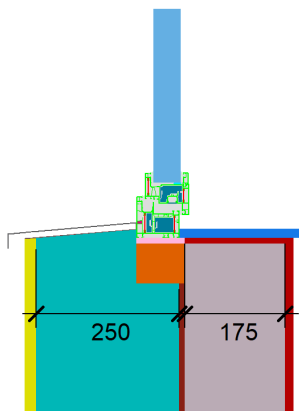
$$U_1 = 0,13 \quad [\text{W}/(\text{m}^2 \text{K})]$$



$$\Psi_{\text{einbau}} = 0,02 \text{ W}/(\text{m K})$$

Wärmedämmverbundsystem (WDVS)  
unten (öffnbar)

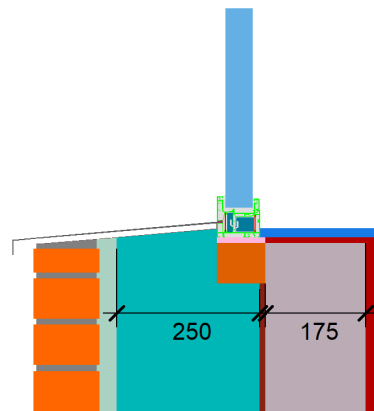
$$U_1 = 0,13 \quad [\text{W}/(\text{m}^2 \text{K})]$$



$$\Psi_{\text{einbau}} = 0,02 \text{ W}/(\text{m K})$$

Zweischaliges Mauerwerk (festverglast)

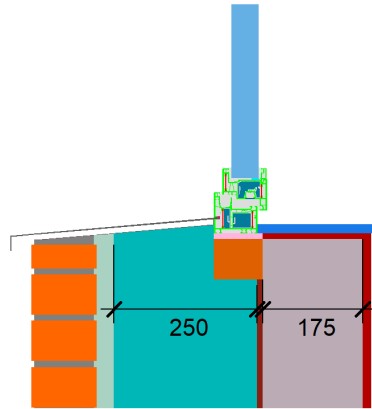
$$U_1 = 0,13 \quad [\text{W}/(\text{m}^2 \text{K})]$$



$$\Psi_{\text{einbau}} = 0,02 \text{ W}/(\text{m K})$$

Zweischaliges Mauerwerk (öffenbar)

$$U_1 = 0,13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{einbau}} = 0,02 \text{ W/(m K)}$$