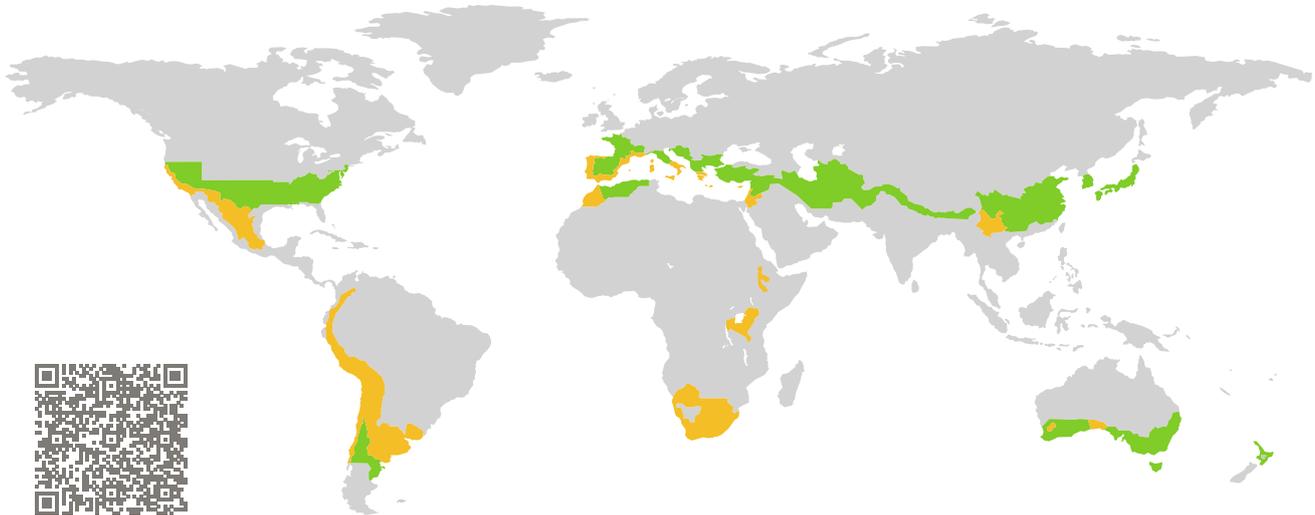


ZERTIFIKAT

Zertifizierte Passivhaus-Komponente

Komponenten-ID 1249ws04 gültig bis 31. Dezember 2025

Passivhaus Institut
Dr. Wolfgang Feist
64283 Darmstadt
Deutschland

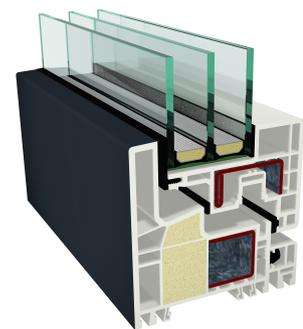


Kategorie: **Fenster System**
Hersteller: **GEALAN Fenster Systeme GmbH,
Santa Pola-Alicante,
Spanien**
Produktname: **Certification Kubus**

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

Behaglichkeit $U_{W=1,00} \leq 1,00 \text{ W}/(\text{m}^2 \text{ K})$
 $U_{W,\text{eingebaut}} \leq 1,05 \text{ W}/(\text{m}^2 \text{ K})$
mit $U_g = 0,90 \text{ W}/(\text{m}^2 \text{ K})$

Hygiene $f_{Rsi=0,25} \geq 0,65$
Luftdichtheit $Q_{100} = 0,20 \leq 0,25 \text{ m}^3/(\text{h m})$



warm-gemäßigtes Klima



**ZERTIFIZIERTE
KOMPONENTE**

Passivhaus Institut

Passivhaus-
Effizienzklasse

phE

phD

phC

phB

phA

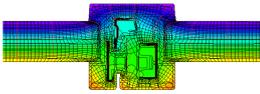
www.passiv.de

Rahmen-Kennwerte			Rahmenbreite b_f mm	Rahmen- U -Wert U_f W/(m ² K)	Glasrand- Ψ -Wert Ψ_g W/(m K)	Temperaturfaktor $f_{Rsi=0,25}$ [-]
Pfosten fest	(0M1)		100	1,36	0,023	0,66
Riegel fest	(0T1)		100	1,36	0,023	0,66
Pfosten 1 Flügel	(1M1)		100	1,36	0,023	0,66
Riegel 1 Flügel	(1T1)		100	1,36	0,023	0,66
Pfosten 2 Flügel	(2M1)		154	1,42	0,023	0,65
Riegel 2 Flügel	(2T1)		154	1,42	0,023	0,65
Unten fest	(FB1)		100	1,05	0,022	0,69
Oben fest	(FH1)		100	0,98	0,023	0,70
Seitlich fest	(FJ1)		100	0,98	0,023	0,70
Stulp	(FM1)		100	1,36	0,023	0,66
Unten	(OB1)		100	1,05	0,022	0,69
Oben	(OH1)		100	0,98	0,023	0,70
Seitlich	(OJ1)		100	0,98	0,023	0,70
Schwelle	(OT2)		74	2,50	0,024	0,56
Abstandhalter: SWISSPACER Ultimate			Sekundärdichtung: Polysulfid			



**Pfosten
fest**

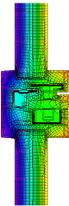
$b_f = 100 \text{ mm}$
 $U_f = 1,36 \text{ W}/(\text{m}^2 \text{ K})$
 $\Psi_g = 0,023 \text{ W}/(\text{m K})$
 $f_{Rsi} = 0,66$



**Riegel
fest**

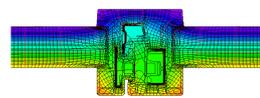
$b_f = 100 \text{ mm}$
 $U_f = 1,36 \text{ W}/(\text{m}^2 \text{ K})$
 $\Psi_g = 0,023 \text{ W}/(\text{m K})$
 $f_{Rsi} = 0,66$



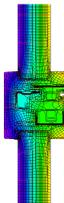
Pfosten
1 Flügel

$$b_f = 100 \text{ mm}$$
$$U_f = 1,36 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,66$$



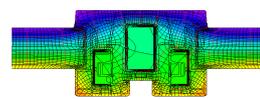
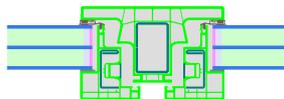
Riegel
1 Flügel

$$b_f = 100 \text{ mm}$$
$$U_f = 1,36 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,66$$



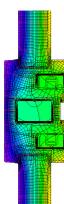
Pfosten
2 Flügel

$$b_f = 154 \text{ mm}$$
$$U_f = 1,42 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,65$$



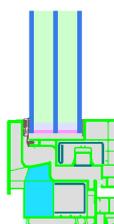
Riegel
2 Flügel

$$b_f = 154 \text{ mm}$$
$$U_f = 1,42 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,65$$



Unten
fest

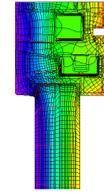
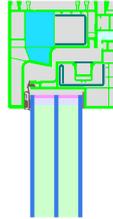
$$b_f = 100 \text{ mm}$$
$$U_f = 1,05 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,022 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,69$$





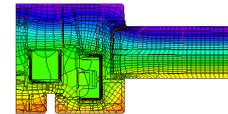
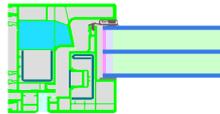
Oben
fest

$$b_f = 100 \text{ mm}$$
$$U_f = 0,98 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,70$$



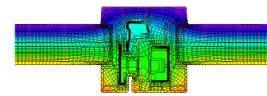
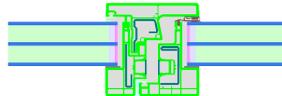
Seitlich
fest

$$b_f = 100 \text{ mm}$$
$$U_f = 0,98 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,70$$



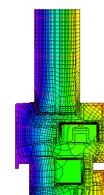
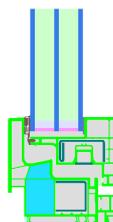
Stulp

$$b_f = 100 \text{ mm}$$
$$U_f = 1,36 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,66$$



Unten

$$b_f = 100 \text{ mm}$$
$$U_f = 1,05 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,022 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,69$$



Oben

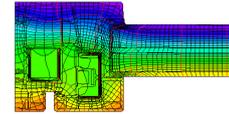
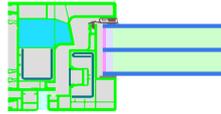
$$b_f = 100 \text{ mm}$$
$$U_f = 0,98 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,70$$





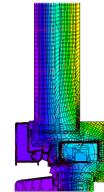
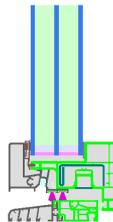
Seitlich

$$b_f = 100 \text{ mm}$$
$$U_f = 0,98 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,70$$



Schwelle

$$b_f = 74 \text{ mm}$$
$$U_f = 2,50 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,024 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,56$$



Geprüfte Einbausituationen

Holzleichtbau (fest verglast)

$U_{Wand} = 0,19 \text{ W}/(\text{m}^2 \text{ K})$

Ψ_{einbau}	W/(m K)
Oben	0,007
Links	0,007
Rechts	0,007
Unten	0,020

$U_{W,\text{eingebaut}} = 1,02 \text{ W}/(\text{m}^2 \text{ K})$

Holzleichtbau (öffnenbar)

$U_{Wand} = 0,19 \text{ W}/(\text{m}^2 \text{ K})$

Ψ_{einbau}	W/(m K)
Oben	0,007
Links	0,007
Rechts	0,007
Unten	0,020

$U_{W,\text{eingebaut}} = 1,02 \text{ W}/(\text{m}^2 \text{ K})$

Monolithisch (fest verglast)

$U_{Wand} = 0,23 \text{ W}/(\text{m}^2 \text{ K})$

Ψ_{einbau}	W/(m K)
Oben	-0,005
Links	-0,005
Rechts	-0,005
Unten	0,009

$U_{W,\text{eingebaut}} = 1,00 \text{ W}/(\text{m}^2 \text{ K})$

Monolithisch (öffnenbar)

$U_{Wand} = 0,23 \text{ W}/(\text{m}^2 \text{ K})$

Ψ_{einbau}	W/(m K)
Oben	-0,005
Links	-0,005
Rechts	-0,005
Unten	0,009

$U_{W,\text{eingebaut}} = 1,00 \text{ W}/(\text{m}^2 \text{ K})$

Wärmedämmverbundsystem (WDVS) (fest verglast)

$U_{Wand} = 0,23 \text{ W}/(\text{m}^2 \text{ K})$

Ψ_{einbau}	W/(m K)
Oben	0,000
Links	0,000
Rechts	0,000
Unten	0,050

$U_{W,\text{eingebaut}} = 1,03 \text{ W}/(\text{m}^2 \text{ K})$

Wärmedämmverbundsystem (WDVS) (öffnenbar)

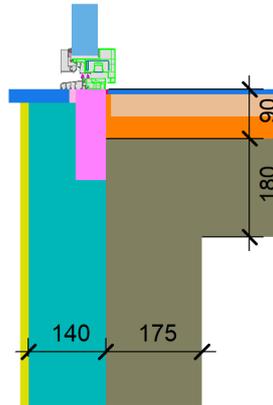
$U_{Wand} = 0,23 \text{ W}/(\text{m}^2 \text{ K})$

Ψ_{einbau}	W/(m K)
Oben	0,000
Links	0,000
Rechts	0,000
Unten	0,050

$U_{W,\text{eingebaut}} = 1,03 \text{ W}/(\text{m}^2 \text{ K})$

Wärmedämmverbundsystem (WDVS)
Schwelle Geschossdecke (öffnenbar)

$$U_1 = 0,24 \quad [\text{W}/(\text{m}^2 \text{K})]$$



$$\Psi_{\text{einbau}} = 0,07 \text{ W}/(\text{m K})$$