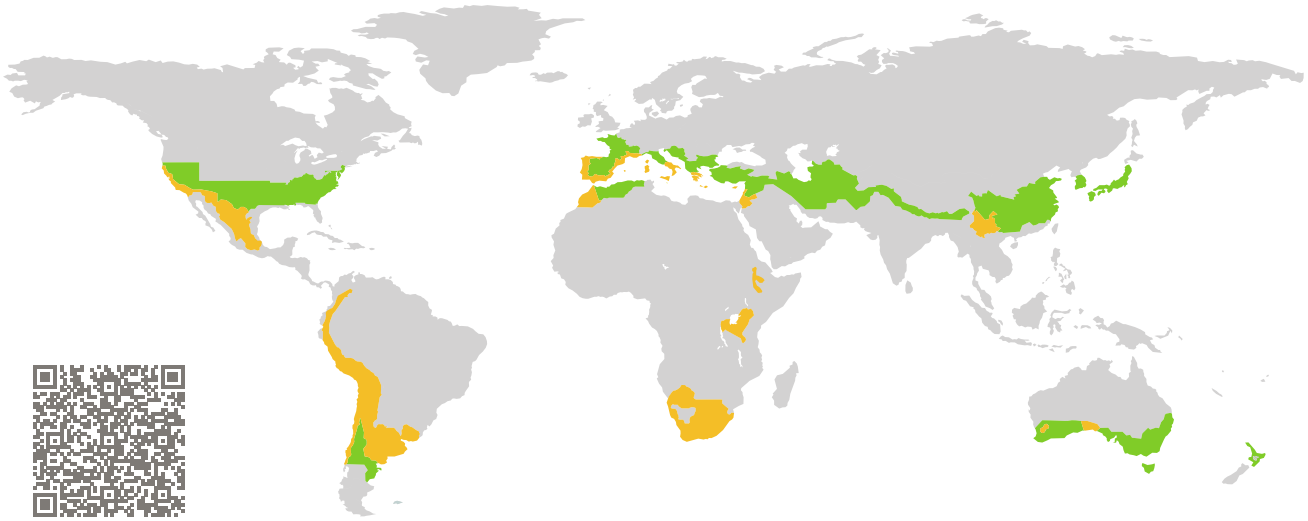
CERTIFICATO

Componente certificato Passive House

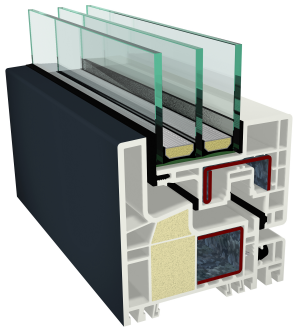
Componente-ID 2115ws04 valido fino 31 dicembre 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Categoria:	**Sistema della finestra**
Produttore:	**SC AGER-UNIKAT, Intorsura Buzaului, Romania**
Nome del prodotto:	**MONT BLANC by UNIKAT**

Questo certificato è stato conseguito in conformità ai seguenti criteri per le regioni a clima caldo-temperato



Comfort	U_W = 1,00	≤	1,00 W/(m² K)
	$U_{W,\text{installed}}$	≤	1,05 W/(m² K)
	con U_g	=	0,90 W/(m² K)
Igiene	$f_{Rsi=0,25}$	≥	0,65
Ermeticità	Q_{100} = 0,20	≤	0,25 m³/(h m)

warm, temperate climate

phB

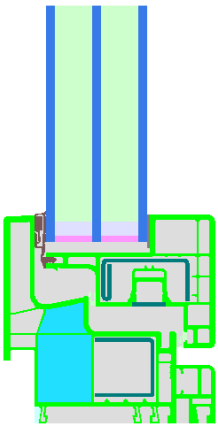
Passive House efficiency class | phE | phD | phC | phB | phA

CERTIFIED COMPONENT

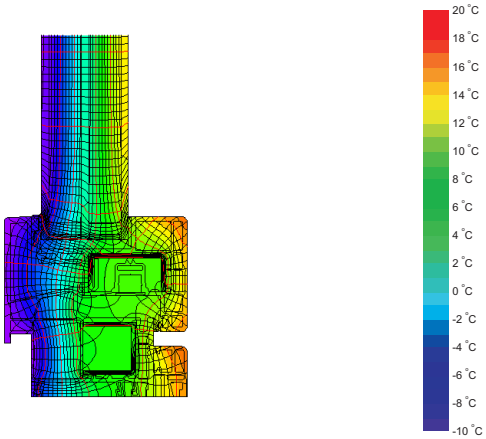
Passive House Institute

www.passivehouse.com

SC AGER-UNIKAT
Mihai Viteazul 324 A, 525300 Intorsura Buzaului, Romania
☎ +40762200009 | ✉ office@unikat-grup.ro | http://www.unikat-group.com |



Modello di calcolo



Isotermico

Descrizione

Telaio in PVC con camera isolata in schiuma PU (IKD®, 0,026 W/(mK)). Il fattore di temperatura richiesto non viene raggiunto alla soglia. La tenuta è stata approvata per una finestra-porta con parte fissa (3305 * 2546 mm). Telaio 5060 con rinforzo 8727, anta 5061 con rinforzo 5760, montante 5062 con rinforzo 5762 e 5260 con rinforzo 5763, montante 5063 con rinforzo 5767, soglia 2596/2576 e con rinforzo 5463 e 6105. Spessore pacchetto vetro 48mm (4/18/4/1 8/4), profondità della scanalatura: 18mm. Distantiatori: SWISSPACER Ultimate.

Spiegazione

I valori U della finestra sono stati calcolati per la finestra di prova con dimensioni 2,46 m × 1,48 m con U_g = 0,90 W/(m^2 K). Se viene utilizzato un vetro con qualità superiore, il valore U della finestra migliorerà nel modo seguente:

Vetro	U_g =	0,90	1,04	0,60	0,54	W/(m^2 K)
		↓	↓	↓	↓	
Finestra	U_W =	1,00	1,10	0,77	0,72	W/(m^2 K)

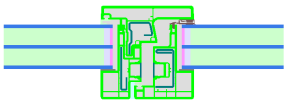
I componenti dell'involucro trasparente sono classificati nelle varie classi di efficienza energetica in base alle perdite termiche attraverso la parte opaca. La trasmittanza termica del telaio, la larghezza del telaio, i ponti termici al distanziatore e le dimensioni delle estremità del vetro sono considerati in queste perdite termiche. Una relazione più dettagliata dei calcoli eseguiti nello studio per la certificazione è stata rilasciata al produttore.
Il Passive House Institute ha definito i criteri per la certificazione internazione dei componenti nelle sette zone climatiche. In principio, i componenti che sono stati certificati per le zone climatiche con requisiti più stringenti possono essere utilizzati in zone climatiche con requisiti meno rigorosi. In una particolare zona climatica si potrebbe utilizzare un componente con una qualità termica più elevata che è stato cerificato per un clima con requisiti piè stringenti.

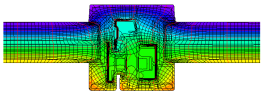
Ulteriori infomazioni riguardo la certificazione
possono essere trovate sui siti www.passivehouse.com e passipedia.org.

Caratteristiche del telaio		Larghezza del telaio b_f mm	valore U telaio U_f W/(m² K)	valore Ψ distanziatore Ψ_g W/(m K)	Fattore di temperatura $f_{Rsi=0,25}$ [-]
Mullion Fixed	(0M1)	100	1,36	0,023	0,66
Transom fixed	(0T1)	100	1,36	0,023	0,66
Mullion 1 casement	(1M1)	100	1,36	0,023	0,66
Transom 1 casement	(1T1)	100	1,36	0,023	0,66
Mullion 2 casements	(2M1)	154	1,42	0,023	0,65
Transom 2 casements	(2T1)	154	1,42	0,023	0,65
Bottom Fixed	(FB1)	100	1,05	0,022	0,69
Top fixed	(FH1)	100	0,98	0,023	0,70
Lateral fixed	(FJ1)	100	0,98	0,023	0,70
Flying Mullion	(FM1)	100	1,36	0,023	0,66
Bottom	(OB1)	100	1,05	0,022	0,69
Top	(OH1)	100	0,98	0,023	0,70
Lateral	(OJ1)	100	0,98	0,023	0,70
Threshold	(OT2)	74	2,50	0,024	0,56
Distanziatore: SWISSPACER Ultimate				Guarnizione secondaria: Polysulfide	

Mullion
Fixed

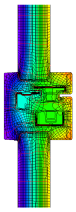
b_f = 100 mm
U_f = 1,36 W/(m² K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,66





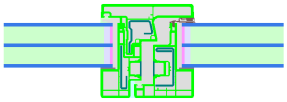
Transom
fixed

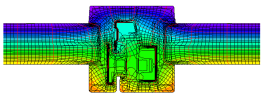
b_f = 100 mm
U_f = 1,36 W/(m² K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,66



Mullion
1 casement

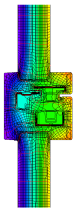
b_f = 100 mm
U_f = 1,36 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,66





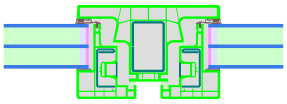
Transom
1 casement

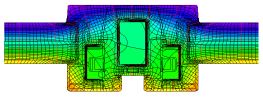
b_f = 100 mm
U_f = 1,36 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,66



Mullion
2 casements

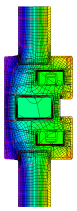
b_f = 154 mm
U_f = 1,42 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,65





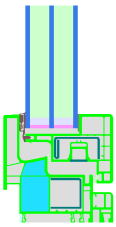
Transom
2 casements

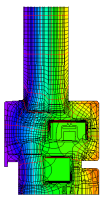
b_f = 154 mm
U_f = 1,42 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,65



Bottom
Fixed

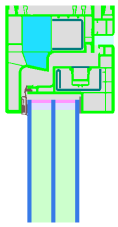
b_f = 100 mm
U_f = 1,05 W/(m^2 K)
Ψ_g = 0,022 W/(m K)
f_{Rsi} = 0,69

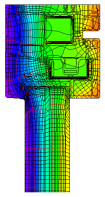




Top
fixed

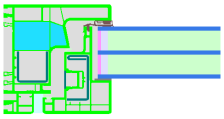
b_f = 100 mm
U_f = 0,98 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,70

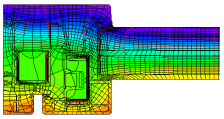




Lateral
fixed

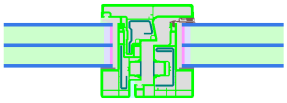
b_f = 100 mm
U_f = 0,98 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,70

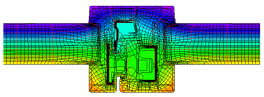




Flying
Mullion

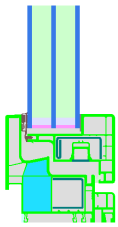
b_f = 100 mm
U_f = 1,36 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,66

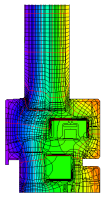




Bottom

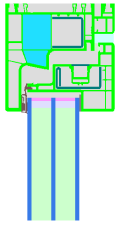
b_f = 100 mm
U_f = 1,05 W/(m^2 K)
Ψ_g = 0,022 W/(m K)
f_{Rsi} = 0,69

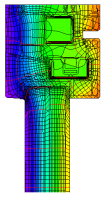




Top

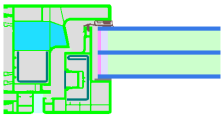
b_f = 100 mm
U_f = 0,98 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,70

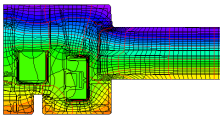




Lateral

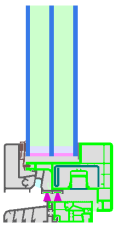
b_f = 100 mm
U_f = 0,98 W/(m^2 K)
Ψ_g = 0,023 W/(m K)
f_{Rsi} = 0,70

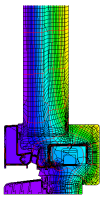




Threshold

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

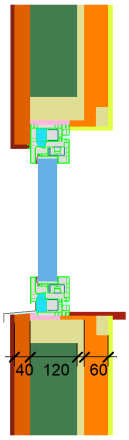




Installazioni validate

Lightweight timber (fixed glazed)

U_{Parete} = 0,19 W/(m² K)

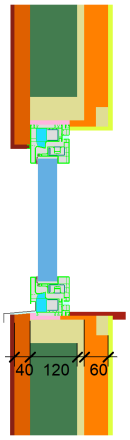


$\Psi_{install}$	W/(m K)
Superiore	0,007
Sinistra	0,007
Destra	0,007
Inferiore	0,020

$U_{W,installed}$ = 1,02 W/(m² K)

Lightweight timber (operable)

U_{Parete} = 0,19 W/(m² K)

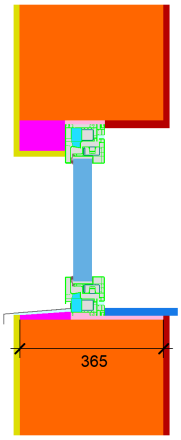


$\Psi_{install}$	W/(m K)
Superiore	0,007
Sinistra	0,007
Destra	0,007
Inferiore	0,020

$U_{W,installed}$ = 1,02 W/(m² K)

Muro monolitico (fisso)

U_{Parete} = 0,23 W/(m² K)

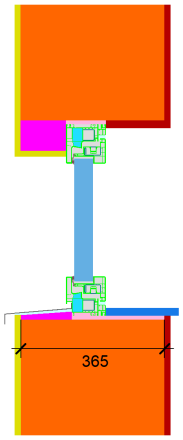


$\Psi_{install}$	W/(m K)
Superiore	–0,005
Sinistra	–0,005
Destra	–0,005
Inferiore	0,009

$U_{W,installed}$ = 1,00 W/(m² K)

Muro monolitico

U_{Parete} = 0,23 W/(m² K)

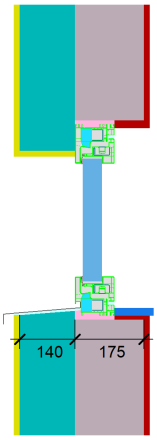


$\Psi_{install}$	W/(m K)
Superiore	–0,005
Sinistra	–0,005
Destra	–0,005
Inferiore	0,009

$U_{W,installed}$ = 1,00 W/(m² K)

Isolamento esterno a cappotto (fisso)

U_{Parete} = 0,23 W/(m² K)

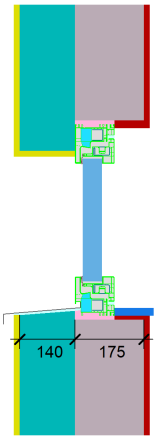


$\Psi_{install}$	W/(m K)
Superiore	0,000
Sinistra	0,000
Destra	0,000
Inferiore	0,050

$U_{W,installed}$ = 1,03 W/(m² K)

Isolamento esterno a cappotto

U_{Parete} = 0,23 W/(m² K)

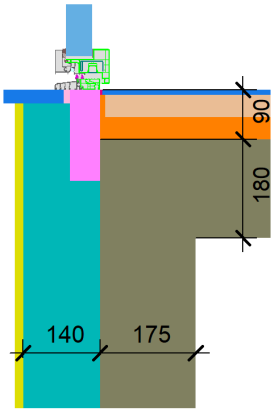


$\Psi_{install}$	W/(m K)
Superiore	0,000
Sinistra	0,000
Destra	0,000
Inferiore	0,050

$U_{W,installed}$ = 1,03 W/(m² K)

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

U_1 = 0,24 [W/(m² K)]



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