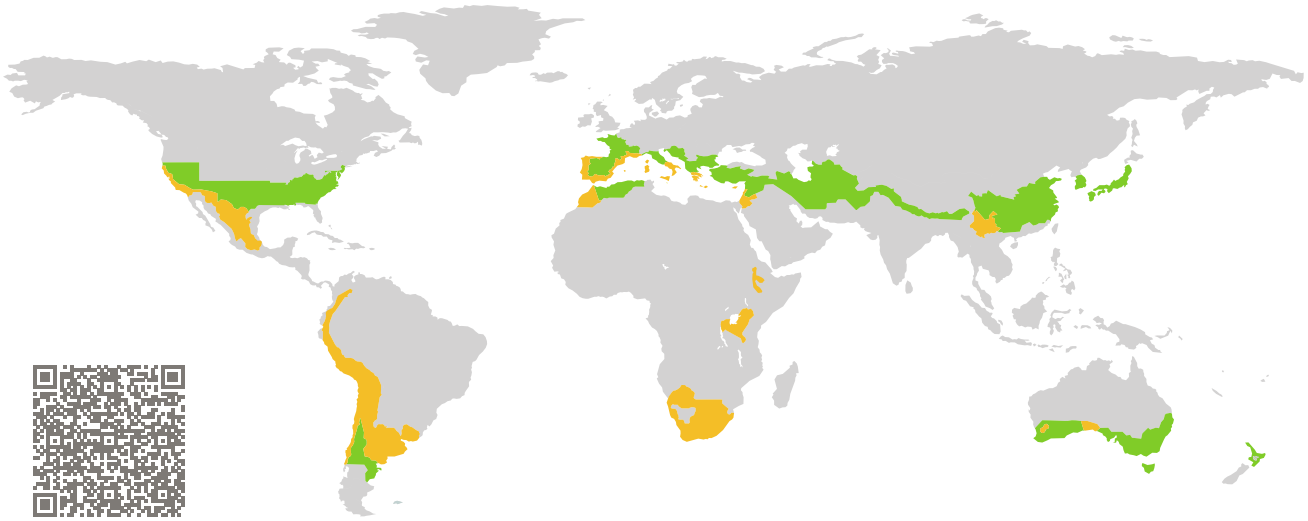
CERTIFICADO

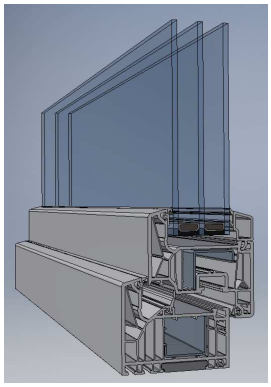
Componente certificado Passive House

ID de componente 1701ws04 válido até **?today?**

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Alemanha



Categoria:	**Sistema de janela**
Fabricante:	**Schüco Iberia S.L., Valdemoro (Madrid), Spain**
Nome do producto:	**Schüco Living 82 MD**



Este certificado foi concedido com base nos seguintes critérios para a zona de clima quente-temperado

Conforto	U_W = 1,00	≤	1,00 W/(m² K)
	$U_{W,installed}$	≤	1,05 W/(m² K)
	con U_g	=	0,90 W/(m² K)
Higiene	$f_{Rsi=0,25}$	≥	0,65
Estanqueidade	Q_{100} = 0,19	≤	0,25 m³/(h m)

warm, temperate climate

phC

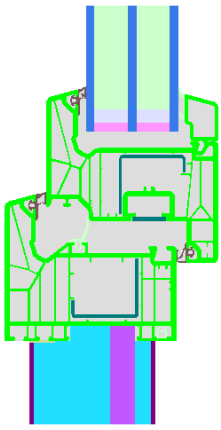
CERTIFIED COMPONENT

Passive House Institute

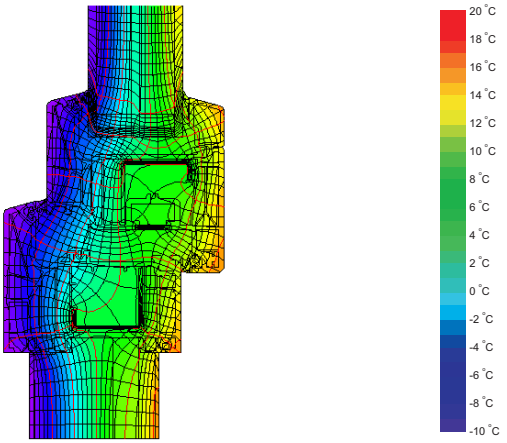
Passive House efficiency class	phE	phD	phC	phB	phA

www.passivehouse.com

Schüco Iberia S.L.
Avda. San Roque, 33, 28343 Valdemoro (Madrid), Spain
☎ +34 91 894 84 25 | ✉ | http://www.schueco.com |



Modelo de cálculo



Isotérmicas

Descrição

Perfis de PVC com reforço de aço para janelas. Isolamento XPS (0,030 W / (mK)). Valor de estanqueidade de 0,19 m3 / (h * m) fornecido em uma porta de terraço com inversor, 168 cm * 257 cm. Espessura do vidro 44 mm (4/16/4/16/4),Altura de embutimento: 20 mm. Perfil intercalar: SWISSPACER Ultimate.

Explicação

Os valores U para a janela foram calculados para um tamanho de amostra de 2,46 m × 1,48 m com U_g = 0,90 W/(m^2 K) calculado. Se for usado vidro de qualidade superior, os valores U da janela serão reduzidos da seguinte forma:

Vidro	U_g =	0,90	0,58	0,64	0,70	W/(m^2 K)
		↓	↓	↓	↓	
Janela	U_W =	1,00	0,79	0,83	0,87	W/(m^2 K)

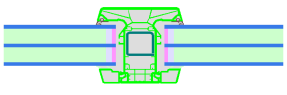
Os componentes de construção transparentes são classificados em categorias de eficiência, dependendo das perdas de calor através da parte opaca. Os valores U do aro, as larguras dos aros, as pontes térmicas e larguras do perfil intercalar estão incluídos nessas perdas de calor. O relatório detalhado com os cálculos efetuados no âmbito desta certificação encontra-se à disposição do fabricante.

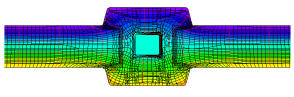
Valores do aro			Largura do aro b_f mm	Valor- U aro U_f W/(m² K)	Valor-Ψ perfil intercalar Ψ_g W/(m K)	Factor de temperatura $f_{Rsi=0,25}$ [-]
Mullion Fixed	(0M1)		92	0,98	0,025	0,68
Mullion Fixed	(0M2)		112	1,10	0,026	0,68
Transom fixed	(0T1)		92	0,98	0,025	0,68
Mullion 1 casement	(1M1)		142	1,05	0,026	0,68
Mullion 1 casement	(1M2)		162	1,11	0,026	0,68
Transom 1 casement	(1T1)		142	1,05	0,026	0,68
Mullion 2 casements	(2M1)		192	1,08	0,026	0,70
Transom 2 casements	(2T1)		192	1,08	0,026	0,70
Bottom Fixed	(FB1)		110	0,86	0,026	0,69
Top fixed	(FH1)		70	0,98	0,025	0,69
Lateral fixed	(FJ1)		70	0,98	0,025	0,69
Flying Mullion	(FM1)		174	1,04	0,026	0,69
Bottom	(OB1)		160	0,96	0,026	0,70
Top	(OH1)		120	1,05	0,026	0,70
Lateral	(OJ1)		120	1,05	0,026	0,70
Threshold	(OT4)		88	1,26	0,025	0,67
Threshold	(OT5)		88	1,44	0,025	0,66

perfil intercalar: SWISSPACER ULTIMATE — Vedação secundária: Polysulfide

Mullion
Fixed

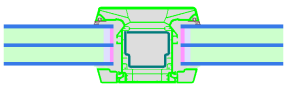
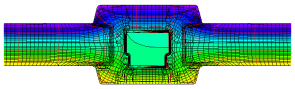
b_f = 92 mm
U_f = 0,98 W/(m² K)
Ψ_g = 0,025 W/(m K)
f_{Rsi} = 0,68





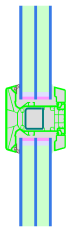
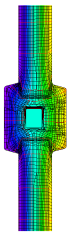
Mullion
Fixed

b_f = 112 mm
U_f = 1,10 W/(m² K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,68

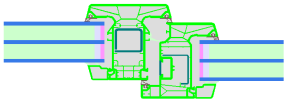
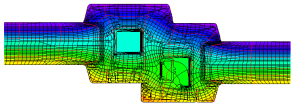
Transom
fixed

b_f = 92 mm
U_f = 0,98 W/(m² K)
Ψ_g = 0,025 W/(m K)
f_{Rsi} = 0,68

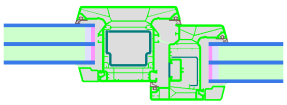
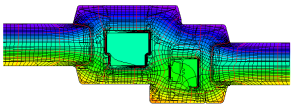
Mullion
1 casement

b_f = 142 mm
U_f = 1,05 W/(m² K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,68

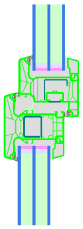
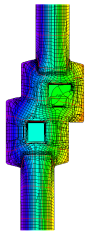
Mullion
1 casement

b_f = 162 mm
U_f = 1,11 W/(m² K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,68

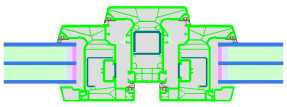
Transom
1 casement

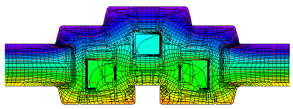
b_f = 142 mm
U_f = 1,05 W/(m² K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,68

Mullion
2 casements

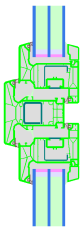
b_f = 192 mm
U_f = 1,08 W/(m^2 K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,70

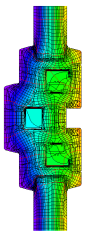




Transom
2 casements

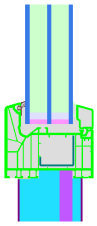
b_f = 192 mm
U_f = 1,08 W/(m^2 K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,70

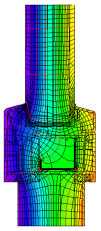




Bottom
Fixed

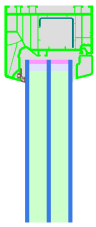
b_f = 110 mm
U_f = 0,86 W/(m^2 K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,69

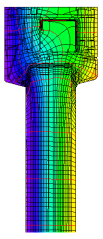




Top
fixed

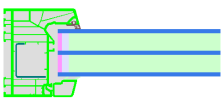
b_f = 70 mm
U_f = 0,98 W/(m^2 K)
Ψ_g = 0,025 W/(m K)
f_{Rsi} = 0,69

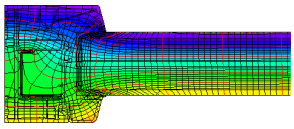




Lateral
fixed

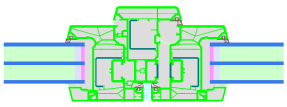
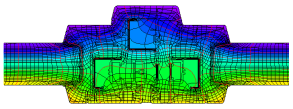
b_f = 70 mm
U_f = 0,98 W/(m^2 K)
Ψ_g = 0,025 W/(m K)
f_{Rsi} = 0,69





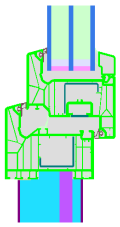
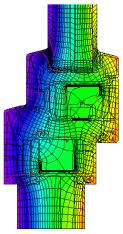
Flying
Mullion

b_f = 174 mm
U_f = 1,04 W/(m² K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,69

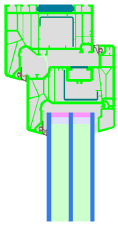
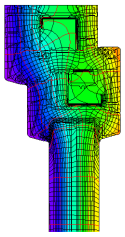
Bottom

b_f = 160 mm
U_f = 0,96 W/(m² K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,70

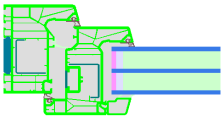
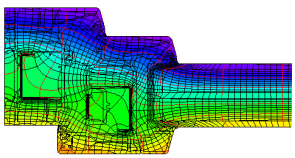
Top

b_f = 120 mm
U_f = 1,05 W/(m² K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,70

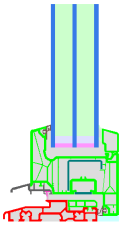
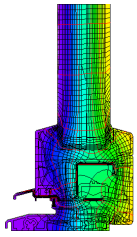
Lateral

b_f = 120 mm
U_f = 1,05 W/(m² K)
Ψ_g = 0,026 W/(m K)
f_{Rsi} = 0,70

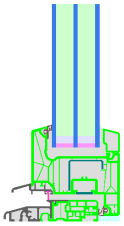
Threshold

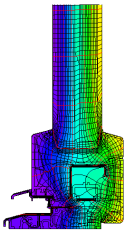
b_f = 88 mm
U_f = 1,26 W/(m² K)
Ψ_g = 0,025 W/(m K)
f_{Rsi} = 0,67

Threshold

b_f = 88 mm
U_f = 1,44 W/(m^2 K)
Ψ_g = 0,025 W/(m K)
f_{Rsi} = 0,66

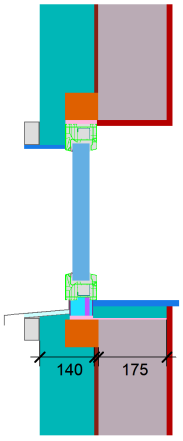




Situações de instalação validadas

Fachada ventilada (fixo)

U_{Wand} = 0,22 W/(m² K)

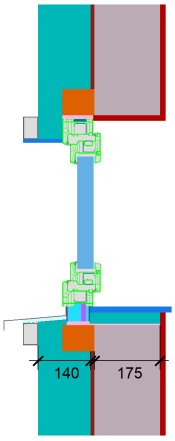


$\Psi_{install}$	W/(m K)
Superior	–0,009
Esquerda	–0,009
Direita	–0,009
Inferior	0,012

$U_{W,installed}$ = 1,00 W/(m² K)

Fachada ventilada (móvel)

U_{Wand} = 0,22 W/(m² K)

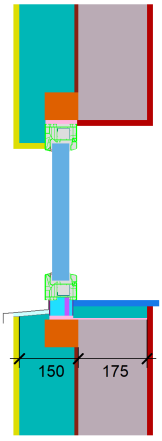


$\Psi_{install}$	W/(m K)
Superior	–0,005
Esquerda	–0,005
Direita	–0,005
Inferior	0,012

$U_{W,installed}$ = 1,00 W/(m² K)

SATE (fixo)Sist. de isol. exterior e acabam.

U_{Wand} = 0,23 W/(m² K)

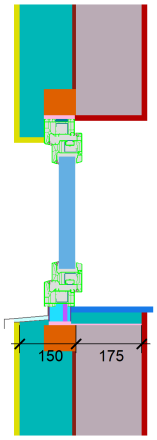


$\Psi_{install}$	W/(m K)
Superior	–0,009
Esquerda	–0,009
Direita	–0,009
Inferior	0,011

$U_{W,installed}$ = 1,00 W/(m² K)

SATE (abrir) Sist. de isol. exterior e acabam.

U_{Wand} = 0,23 W/(m² K)

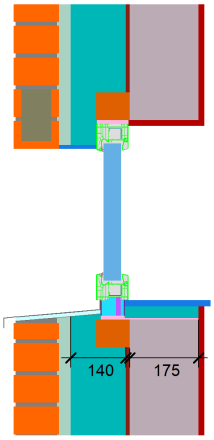


$\Psi_{install}$	W/(m K)
Superior	–0,004
Esquerda	–0,004
Direita	–0,004
Inferior	0,012

$U_{W,installed}$ = 1,00 W/(m² K)

Pared com cámara (fixo)

U_{Wand} = 0,22 W/(m² K)

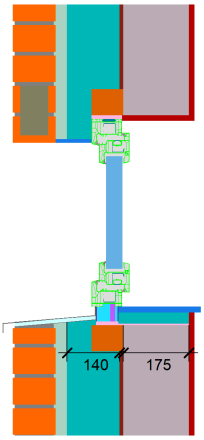


$\Psi_{install}$	W/(m K)
Superior	–0,008
Esquerda	–0,008
Direita	–0,008
Inferior	0,012

$U_{W,installed}$ = 1,00 W/(m² K)

Pared com cámara (abrir)

U_{Wand} = 0,22 W/(m² K)

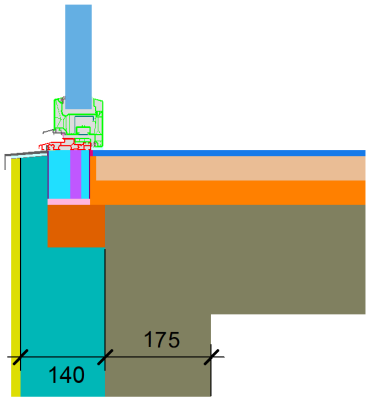


$\Psi_{install}$	W/(m K)
Superior	–0,005
Esquerda	–0,005
Direita	–0,005
Inferior	0,013

$U_{W,installed}$ = 1,00 W/(m² K)

SATE Porta de entrada (abrir) Sist. de isol. exterior e acabam.

U_1 = 0,23 [W/(m^2 K)]



$\Psi_{install}$ = 0,03 W/(m K)