证书

被动房已认证组件

组件认证编码 1544ws04 有效至 31st December 2025

Passive House Institute
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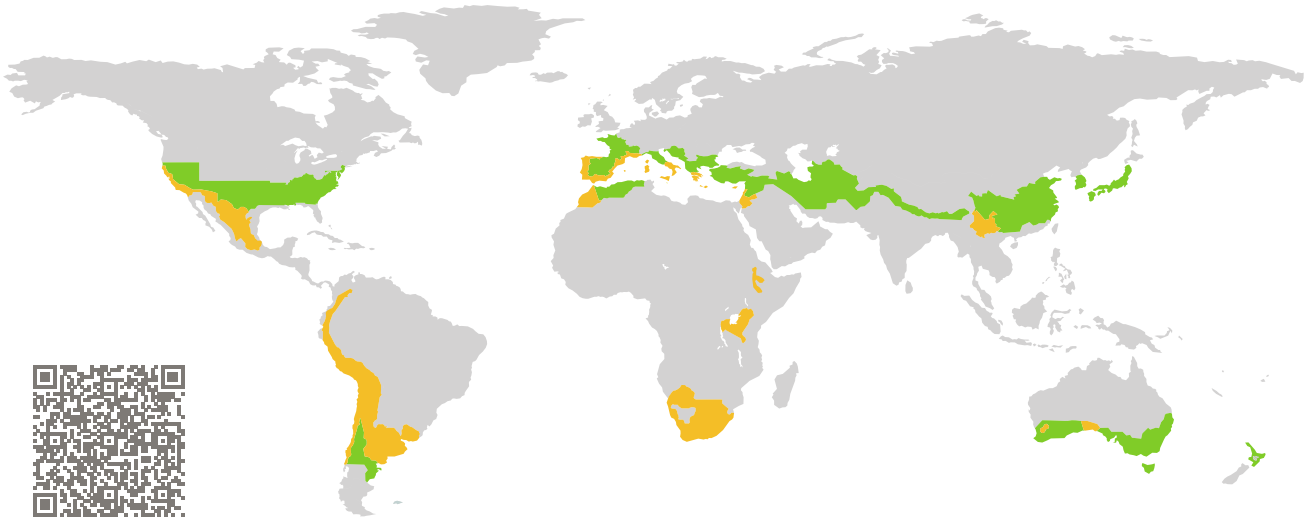
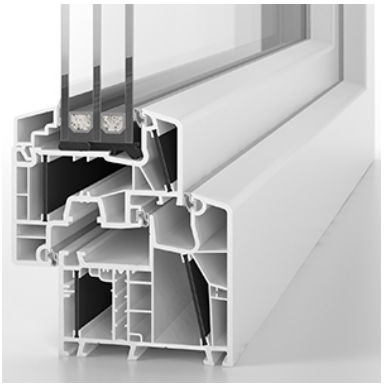
Germany



类别: 窗户系统

制造商: **aluplast GmbH, Karlsruhe, Germany**

产品名称: **aluplast energeto 8000**



针对温和气候区，此产品符合以下标准并授予证书

舒适度	U_W= 1.00	≤	1.00 W/(m² K)
	$U_{W,installed}$	≤	1.05 W/(m² K)
	with U_g	=	0.90 W/(m² K)
卫生标准	$f_{Rsi=0.25}$	≥	0.65
气密度	Q_{100} = 0.24	≤	0.25 m³/(h m)

warm, temperate climate

phC

CERTIFIED COMPONENT

Passive House Institute

被动房节能等级 | phE | phD | phC | phB | phA

www.passivehouse.com

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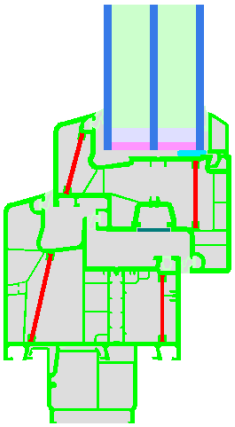
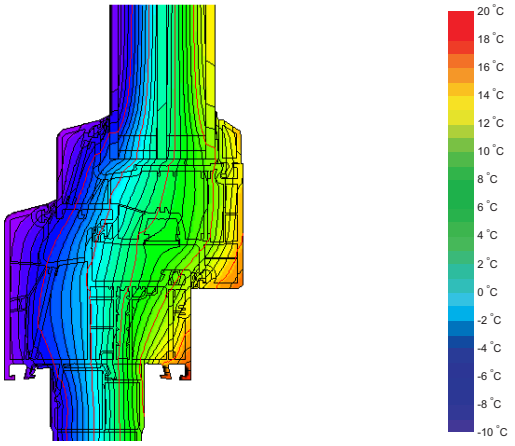
☎ +49 (0)721 / 47171 0 | ✉ info.de@aluplast.net | http://www.aluplast.net |



计算模型



等温线图

认证产品描述

多腔塑料窗框，25%玻璃纤维聚酰胺强化(0,30 W/(mK))，玻璃平板胶接窗框。 备注: 部份安装窗框截面未符合温度标准，外部的低温将产生霉菌，而造成不理想的卫生条件。 厚度48毫米(4/18/4/18/4), 平板间距:18毫米, 间隔条: SWISSPACER Ultimate. 窗扇最大尺寸: 1.10 * 2.05米，可压膜任何颜色，白色为1.14 * 2.15米

说明

整窗U值是基于参照尺寸 2.46 m × 1.48 m with U_g = 0.90 W/(m² K). 若使用更高品 质的节能玻璃，整窗U值可提升如下:

玻璃	U_g =	0.90	0.72	0.64	0.52	W/(m² K)
		↓	↓	↓	↓	
整窗	U_W =	1.00	0.88	0.83	0.75	W/(m² K)

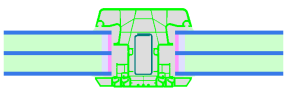
建筑透明组件通过非透明部份的传热损失进行节能分级。整窗传热损失包括由窗框U值和窗框宽度，暖边热桥和暖边长度引起的热损失。详细计算可从制造商获取。
被动房研究所将国际组件认证标准划分为七种气候类型。原则上，满足更高节能要求的认证组件也可用于节能要求较低的气候区。在特定气候区中，使用具有高节能要求的认证组件会更具有意义。

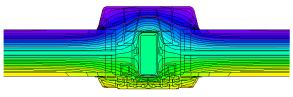
更多认证信息: www.passivehouse.com and passipedia.org.

窗框参数		宽度 b_f mm	U-值 U_f W/(m² K)	暖边热桥-Ψ-值 Ψ_g W/(m K)	温度系数（卫生标准） $f_{Rsi=0.25}$ [-]
立柱固定	(0M1)	104	1.01	0.025	0.71
横梁固定	(0T1)	104	1.01	0.025	0.71
立柱1	(1M1)	143	1.03	0.025	0.66
横梁1	(1T1)	143	1.03	0.025	0.66
立柱2	(2M1)	181	1.04	0.025	0.64
横梁2	(2T1)	181	1.04	0.025	0.64
下横框固定	(FB1)	110	1.12	0.025	0.72
上横框固定	(FH1)	80	0.85	0.025	0.72
侧柱	(FJ1)	80	0.85	0.025	0.72
立柱	(FM2)	162	0.99	0.025	0.62
立柱	(FM3)	142	1.10	0.025	0.58
立柱	(FM4)	126	1.01	0.025	0.62
下横框	(OB1)	149	1.14	0.025	0.73
上横框	(OH1)	119	0.96	0.026	0.73
侧面	(OJ1)	119	0.96	0.026	0.73
门槛	(OT3)	89	1.62	0.025	0.69
门槛	(OT4)	82	1.72	0.025	0.68
门槛	(OT5)	82	1.52	0.024	0.69
暖边间隔条: SWISSPACER ULTIMATE				双层密封胶: Polysulfide	

立柱固定

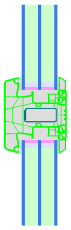
b_f = 104 mm
U_f = 1.01 W/(m² K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.71

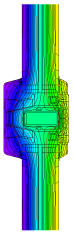




横梁固定

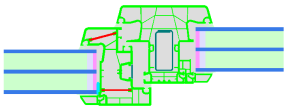
b_f = 104 mm
U_f = 1.01 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.71

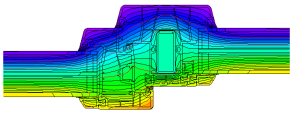




立柱1

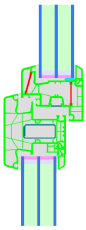
b_f = 143 mm
U_f = 1.03 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.66

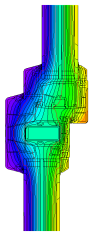




横梁1

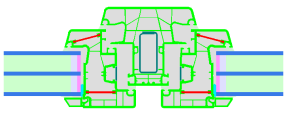
b_f = 143 mm
U_f = 1.03 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.66

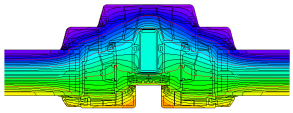




立柱2

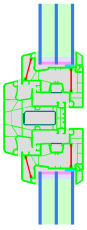
b_f = 181 mm
U_f = 1.04 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.64

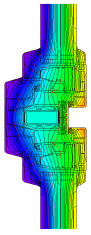




横梁2

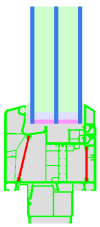
b_f = 181 mm
U_f = 1.04 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.64





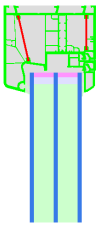
下横框固定

b_f = 110 mm
U_f = 1.12 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.72



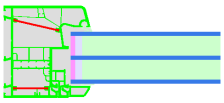
上横框固定

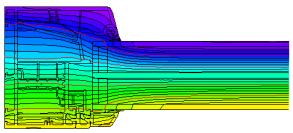
b_f = 80 mm
U_f = 0.85 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.72



侧柱

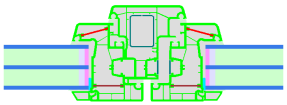
b_f = 80 mm
U_f = 0.85 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.72

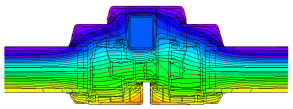




立柱

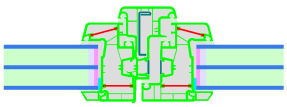
b_f = 162 mm
U_f = 0.99 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.62

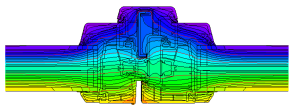




立柱

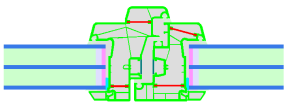
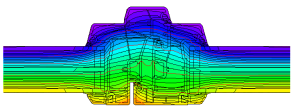
b_f = 142 mm
U_f = 1.10 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.58





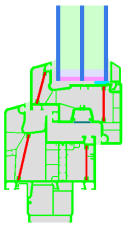
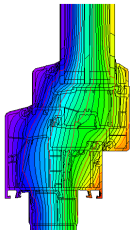
立柱

b_f = 126 mm
U_f = 1.01 W/(m² K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.62

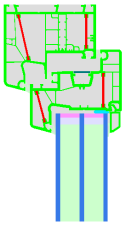
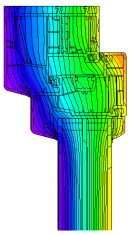
下横框

b_f = 149 mm
U_f = 1.14 W/(m² K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.73

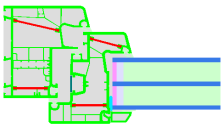
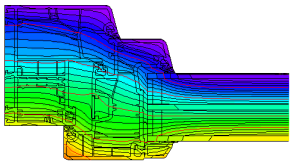
上横框

b_f = 119 mm
U_f = 0.96 W/(m² K)
Ψ_g = 0.026 W/(m K)
f_{Rsi} = 0.73

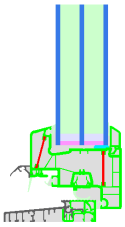
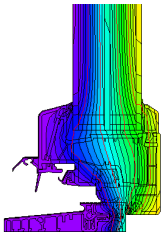
侧面

b_f = 119 mm
U_f = 0.96 W/(m² K)
Ψ_g = 0.026 W/(m K)
f_{Rsi} = 0.73

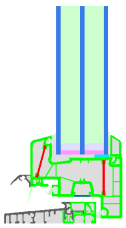
门槛

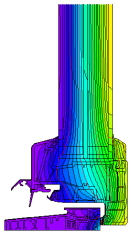
b_f = 89 mm
U_f = 1.62 W/(m² K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.69

门槛

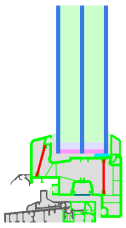
b_f = 82 mm
U_f = 1.72 W/(m^2 K)
Ψ_g = 0.025 W/(m K)
f_{Rsi} = 0.68

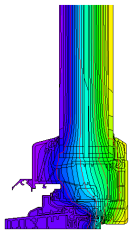




门槛

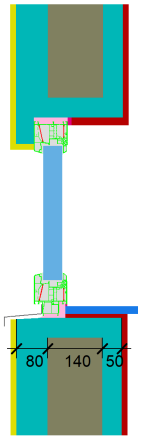
b_f = 82 mm
U_f = 1.52 W/(m^2 K)
Ψ_g = 0.024 W/(m K)
f_{Rsi} = 0.69





砌块系统 (固定)

$U_{墙}$ = 0.25 W/(m² K)

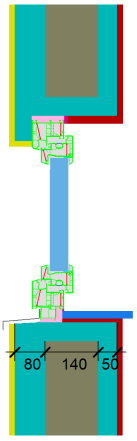


$\Psi_{安装}$	W/(m K)
上口	–0.006
左边	–0.006
右边	–0.006
下口	–0.006

$U_{W,已安装}$ = 0.99 W/(m² K)

砌块系统 (开启扇)

$U_{墙}$ = 0.25 W/(m² K)

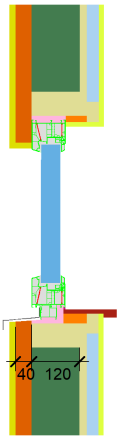


$\Psi_{安装}$	W/(m K)
上口	–0.003
左边	–0.003
右边	–0.003
下口	–0.007

$U_{W,已安装}$ = 0.99 W/(m² K)

轻质木材(固定扇)

$U_{墙}$ = 0.25 W/(m² K)

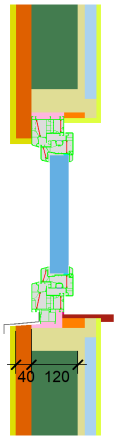


$\Psi_{安装}$	W/(m K)
上口	0.000
左边	0.000
右边	0.000
下口	–0.008

$U_{W,已安装}$ = 1.00 W/(m² K)

轻质木材(开启扇)

$U_{墙}$ = 0.25 W/(m² K)

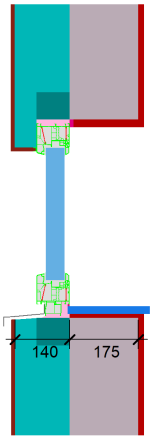


$\Psi_{安装}$	W/(m K)
上口	0.001
左边	0.001
右边	0.001
下口	–0.009

$U_{W,已安装}$ = 1.00 W/(m² K)

外保温及饰面系统 (EIFS)(固定扇)

$U_{墙}$ = 0.23 W/(m² K)

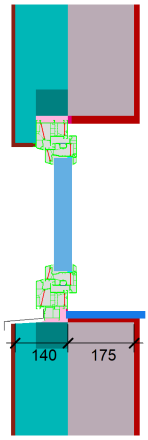


$\Psi_{安装}$	W/(m K)
上口	–0.010
左边	–0.010
右边	–0.010
下口	–0.005

$U_{W,已安装}$ = 0.99 W/(m² K)

外保温及饰面系统(EIFS) (开启扇)

$U_{墙}$ = 0.23 W/(m² K)

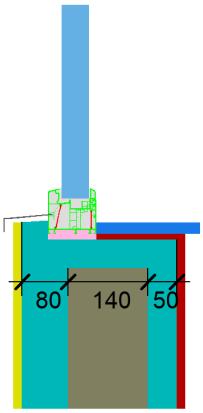


$\Psi_{安装}$	W/(m K)
上口	–0.006
左边	–0.006
右边	–0.006
下口	–0.006

$U_{W,已安装}$ = 0.99 W/(m² K)

Formwork blocks bottom 2 (fixed)

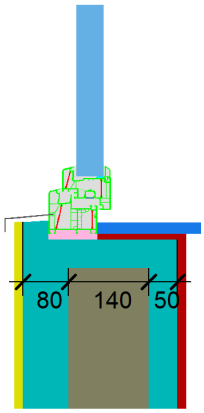
U_1 = 0.25 [W/(m² K)]



$\Psi_{安装}$ = 0.01 W/(m K)

Formwork blocks bottom 2 (operable)

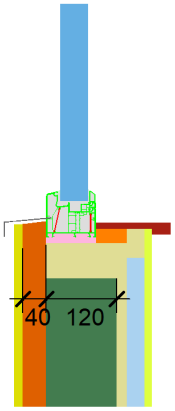
U_1 = 0.25 [W/(m² K)]



$\Psi_{安装}$ = 0.01 W/(m K)

Lighthweight timber bottom 2 (fixed)

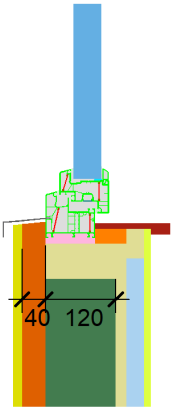
U_1 = 0.25 [W/(m² K)]



$\Psi_{安装}$ = 0.01 W/(m K)

Lighthweight timber bottom 2 (operable)

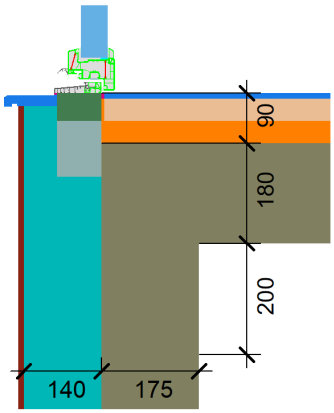
U_1 = 0.25 [W/(m² K)]



$\Psi_{安装}$ = 0.01 W/(m K)

外保温及饰面系统 (EIFS)窗槛((开启扇)

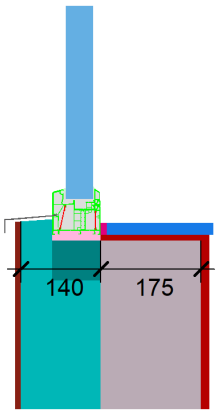
U_1 = 0.24 [W/(m² K)]



$\Psi_{安装}$ = 0.07 W/(m K)

外保温及饰面系统 (EIFS)底部(固定)

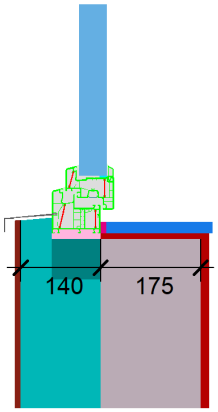
U_1 = 0.23 [W/(m² K)]



$\Psi_{安装}$ = 0.00 W/(m K)

外保温及饰面系统 (EIFS)底部(开启扇)

U_1 = 0.23 [W/(m² K)]



$\Psi_{安装}$ = 0.01 W/(m K)