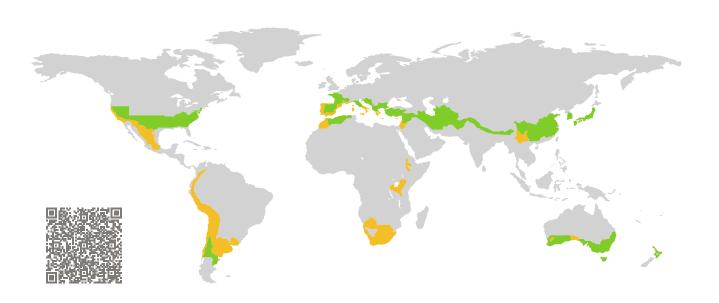
CERTIFICATE

Certified Passive House Component

Component-ID 1073wi04 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Window Frame

Manufacturer: SIP Productos Industriales S.A.,

Rabade (Lugo),

Spain

Product name: Bruegmann bluEvolution: 82 MD

This certificate was awarded based on the following criteria for the warm, temperate climate zone

Comfort $U_W = 1.00 \le 1.00 \text{ W/(m}^2 \text{ K)}$

 $U_{W,\text{installed}} \leq 1.05 \text{ W/(m}^2 \text{ K)}$ with $U_q = 0.90 \text{ W/(m}^2 \text{ K)}$

Hygiene $f_{Rsi=0.25}$ \geq 0.65





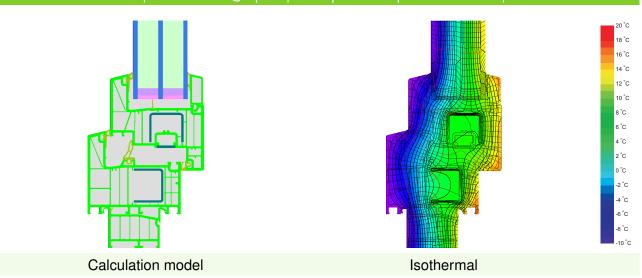
SIP Productos Industriales S.A.

P.I. Sigalsa, Fase 1, Calle G, Parc. 5A, 27.370 Rabade (Lugo), Spain

↑ +34 982 30 31 02 |

malvarez@sip.es |

http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://www.sip-windows.com |
http://wwww.sip-windows.com |
http://wwww.sip-w



Description

Construction: PVC-windowframe with steel reinforcements inside the sash and blind-frame. Pane thickness: 48 mm (4/18/4/18/4), rebate depth: 23 mm, spacer: SWISSPACER Ultimate

Explanation

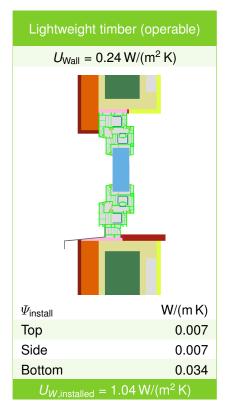
The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with U_g = 0.90 W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

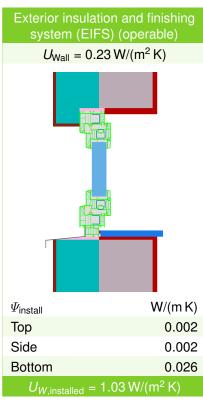
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations performed in the context of certification is available from the manufacturer.

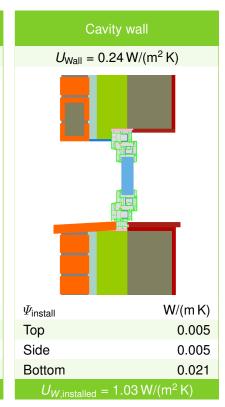
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense to use a component of a higher thermal quality which has been certified for a climate zone with more stringent requirements.

Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

Validated installations







Frame values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Flying Mul- lion	(FM1)	7	180	1.00	0.023	0.72
Bottom	(OB1)	4	153	1.14	0.024	0.68
Тор	(OH1)	T	123	1.00	0.023	0.70
Lateral	(OJ1)	1	123	1.00	0.023	0.70
Spacer: SWISSPACER Ultimate Secondary seal: Polysulfide						

