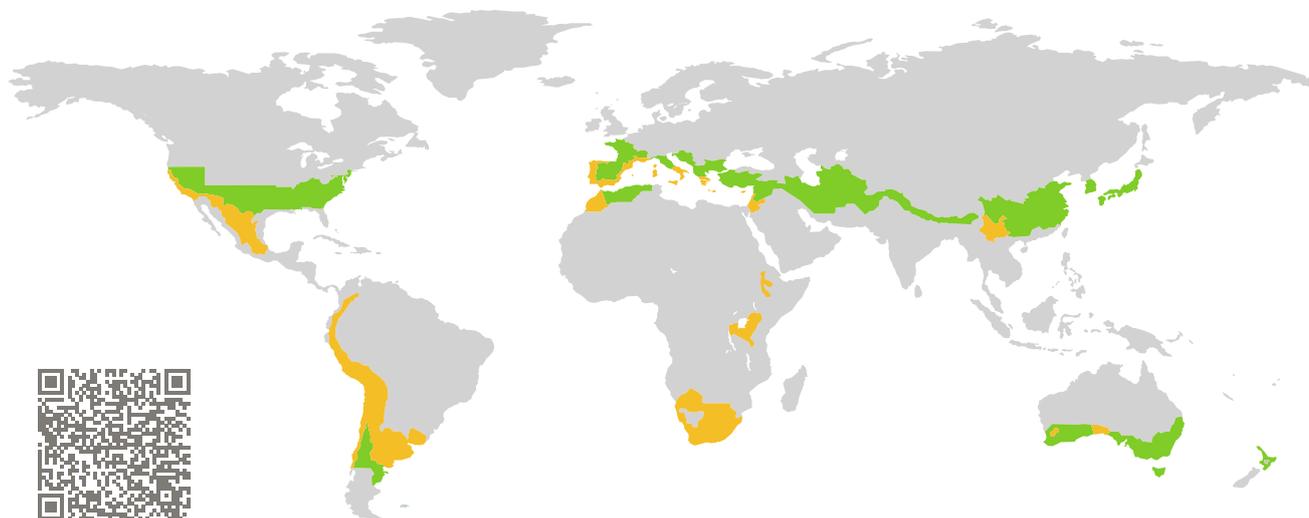


# CERTIFICATO

Componente certificato Passive House

Componente-ID 2073ws04 valido fino 31 dicembre 2025

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany



Categoria: **Sistema della finestra**  
Produttore: **Alphacan SRL,  
Arco,  
Italy**  
Nome del prodotto: **Alpha Extreme**

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

Comfort  $U_W = 0,99 \leq 1,00 \text{ W}/(\text{m}^2 \text{ K})$   
 $U_{W, \text{installed}} \leq 1,05 \text{ W}/(\text{m}^2 \text{ K})$   
con  $U_g = 0,90 \text{ W}/(\text{m}^2 \text{ K})$

Igiene  $f_{Rsi=0,25} \geq 0,65$   
Ermeticità  $Q_{100} = 0,18 \leq 0,25 \text{ m}^3/(\text{h m})$



warm, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute

Passive House  
efficiency class

phE

phD

phC

phB

phA

[www.passivehouse.com](http://www.passivehouse.com)



| Caratteristiche del telaio |       |   | Larghezza del telaio<br>$b_f$<br>mm | valore $U$ telaio<br>$U_f$<br>W/(m <sup>2</sup> K) | valore $\Psi$ distanziatore<br>$\Psi_g$<br>W/(m K) | Fattore di temperatura<br>$f_{Rsi=0,25}$<br>[-] |
|----------------------------|-------|---|-------------------------------------|--|--|---|
| Mullion<br>Fixed           | (0M1) |    | 104                                 | 0,97   | 0,024  | 0,72  |
| Mullion<br>1 casement      | (1M1) |    | 144                                 | 1,06   | 0,024  | 0,70  |
| Mullion<br>2 casements     | (2M1) |    | 184                                 | 1,11   | 0,023  | 0,69  |
| Bottom<br>Fixed            | (FB1) |    | 82                                  | 0,78   | 0,024  | 0,72  |
| Top<br>fixed               | (FH1) |    | 82                                  | 0,78   | 0,024  | 0,72  |
| Lateral<br>fixed           | (FJ1) |    | 82                                  | 0,78   | 0,024  | 0,72  |
| Flying<br>Mullion          | (FM1) |    | 165                                 | 1,07   | 0,022  | 0,69  |
| Bottom                     | (OB1) |    | 122                                 | 0,99   | 0,023  | 0,71  |
| Top                        | (OH1) |    | 122                                 | 0,98   | 0,023  | 0,71  |
| Lateral                    | (OJ1) |  | 122                                 | 0,98   | 0,023  | 0,71  |
| Threshold                  | (OT1) |  | 90                                  | 1,83   | 0,022  | 0,51  |

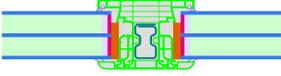
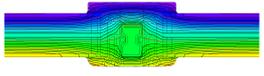
Distanziatore: SWISSPACER ULTIMATE

Guarnizione secondaria: Silicone



**Mullion**  
Fixed

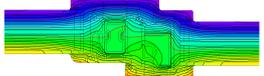
$b_f = 104 \text{ mm}$   
 $U_f = 0,97 \text{ W/(m}^2 \text{ K)}$   
 $\Psi_g = 0,024 \text{ W/(m K)}$   
 $f_{Rsi} = 0,72$



**Mullion**  
1 casement

$b_f = 144 \text{ mm}$   
 $U_f = 1,06 \text{ W/(m}^2 \text{ K)}$   
 $\Psi_g = 0,024 \text{ W/(m K)}$   
 $f_{Rsi} = 0,70$

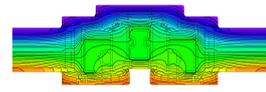
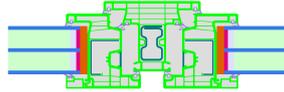





### Mullion

2 casements

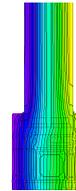
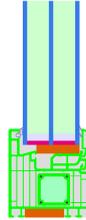
$$b_f = 184 \text{ mm}$$
$$U_f = 1,11 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,023 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,69$$



### Bottom

Fixed

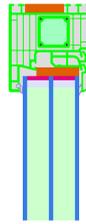
$$b_f = 82 \text{ mm}$$
$$U_f = 0,78 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,024 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,72$$



### Top

fixed

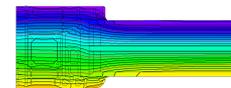
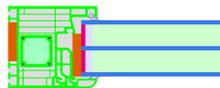
$$b_f = 82 \text{ mm}$$
$$U_f = 0,78 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,024 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,72$$



### Lateral

fixed

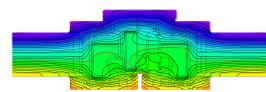
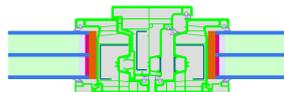
$$b_f = 82 \text{ mm}$$
$$U_f = 0,78 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,024 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,72$$



### Flying

Mullion

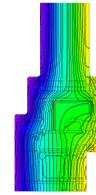
$$b_f = 165 \text{ mm}$$
$$U_f = 1,07 \text{ W}/(\text{m}^2 \text{ K})$$
$$\Psi_g = 0,022 \text{ W}/(\text{m K})$$
$$f_{Rsi} = 0,69$$





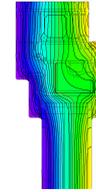
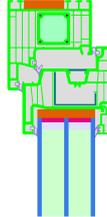
### Bottom

$$b_f = 122 \text{ mm}$$
$$U_f = 0,99 \text{ W/(m}^2 \text{ K)}$$
$$\Psi_g = 0,023 \text{ W/(m K)}$$
$$f_{Rsi} = 0,71$$



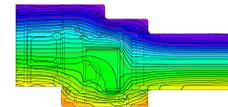
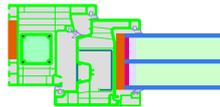
### Top

$$b_f = 122 \text{ mm}$$
$$U_f = 0,98 \text{ W/(m}^2 \text{ K)}$$
$$\Psi_g = 0,023 \text{ W/(m K)}$$
$$f_{Rsi} = 0,71$$



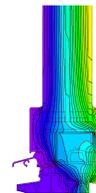
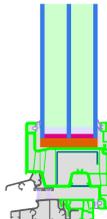
### Lateral

$$b_f = 122 \text{ mm}$$
$$U_f = 0,98 \text{ W/(m}^2 \text{ K)}$$
$$\Psi_g = 0,023 \text{ W/(m K)}$$
$$f_{Rsi} = 0,71$$



### Threshold

$$b_f = 90 \text{ mm}$$
$$U_f = 1,83 \text{ W/(m}^2 \text{ K)}$$
$$\Psi_g = 0,022 \text{ W/(m K)}$$
$$f_{Rsi} = 0,51$$



Ventilated facade (operable)

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

| $\Psi_{\text{install}}$ | W/(m K) |
|-------------------------|---------|
| Superiore               | -0,010  |
| Sinistra                | -0,010  |
| Destra                  | -0,010  |
| Inferiore               | 0,017   |

$U_{W,\text{installed}} = 0,98 \text{ W}/(\text{m}^2 \text{ K})$

Lightweight timber (fixed glazed)

$U_{\text{Parete}} = 0,25 \text{ W}/(\text{m}^2 \text{ K})$

| $\Psi_{\text{install}}$ | W/(m K) |
|-------------------------|---------|
| Superiore               | 0,003   |
| Sinistra                | 0,003   |
| Destra                  | 0,003   |
| Inferiore               | 0,023   |

$U_{W,\text{installed}} = 1,01 \text{ W}/(\text{m}^2 \text{ K})$

Lightweight timber (operable)

$U_{\text{Parete}} = 0,25 \text{ W}/(\text{m}^2 \text{ K})$

| $\Psi_{\text{install}}$ | W/(m K) |
|-------------------------|---------|
| Superiore               | 0,002   |
| Sinistra                | 0,002   |
| Destra                  | 0,002   |
| Inferiore               | 0,024   |

$U_{W,\text{installed}} = 1,01 \text{ W}/(\text{m}^2 \text{ K})$

Ventilated facade (fixed glazing)

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

| $\Psi_{\text{install}}$ | W/(m K) |
|-------------------------|---------|
| Superiore               | -0,009  |
| Sinistra                | -0,009  |
| Destra                  | -0,009  |
| Inferiore               | 0,016   |

$U_{W,\text{installed}} = 0,98 \text{ W}/(\text{m}^2 \text{ K})$

Isolamento esterno a cappotto (fisso)

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

| $\Psi_{\text{install}}$ | W/(m K) |
|-------------------------|---------|
| Superiore               | -0,005  |
| Sinistra                | -0,005  |
| Destra                  | -0,005  |
| Inferiore               | 0,016   |

$U_{W,\text{installed}} = 0,99 \text{ W}/(\text{m}^2 \text{ K})$

Isolamento esterno a cappotto

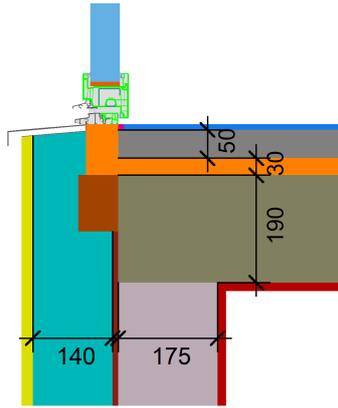
$U_{\text{Parete}} = 0,23 \text{ W}/(\text{m}^2 \text{ K})$

| $\Psi_{\text{install}}$ | W/(m K) |
|-------------------------|---------|
| Superiore               | -0,006  |
| Sinistra                | -0,006  |
| Destra                  | -0,006  |
| Inferiore               | 0,016   |

$U_{W,\text{installed}} = 0,99 \text{ W}/(\text{m}^2 \text{ K})$

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

$$U_1 = 0,23 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0,05 \text{ W/(m K)}$$

