W4900

Tilt & Turn Thermal Insulating System

innovative Concept with a passive house certification





System Identity

The ALUMINCO W4900 aluminium window system has been certified by the Passive House Institute (PHI) in order to meet the high requirements of passive houses.

It incorporates all the well-known benefits of aluminium windows such as stability and high structural requirements with a superior level of thermal insulation value of $U_{w=}0.78~\text{W/m}^2\text{K}$ and the greatest possible degree of architectural design freedom.

Features & Benefits

- Unique thermal insulation for aluminium windows in accordance with the passive house certification standard.
- Innovative insulation system thanks to 54 mm polyamides offering U_f value = 0.76 W/m²K with 102 mm face width.
- Increased sound reduction
- Multi-chamber central gasket that ensures optimum impermeability preventing energy loss.
- Superior safety due to the multiple perimetric locking
- Vast selection of profiles in straight and curved cross sections.
- For all typologies of casements and patio doors.

Configurations

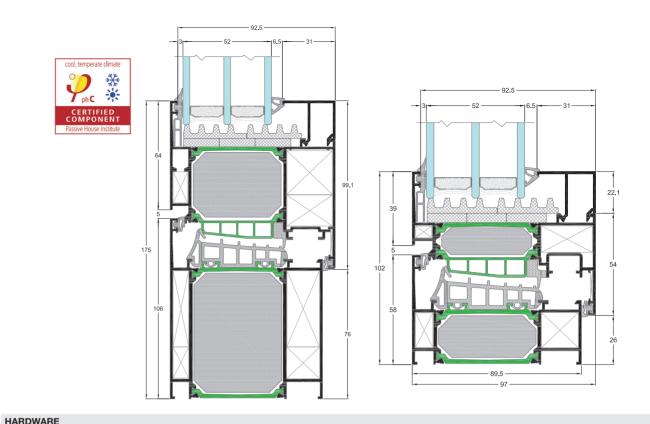
Casement windows

1Leaf - 2Leaf - 3Leaf - 4Leaf

Casement-awning windows

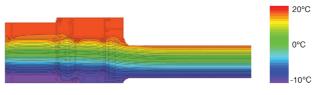
1Leaf - 2Leaf

Fixed-picture windows



CAMERA CE ALU 16 INSULATION FOLYAMIDES mm 54 54 FOAM ● ● ● SYSTEM PROFILE DIMENSIONS MIN. FRAME DEPTH mm 89.5 89.5 MIN. FACE HEIGHT mm 175 102 GLASS THICKNESS mm 48-80 48-80 CONSTRUCTION DIMENSIONS SASH WIDTH mm 365-1600 360-1490 SASH HEIGHT mm 360-2400* 450-2360* MAX. SASH DIMENSIONS mm (WxH) 1600x2100 / 1300x2400 1490x2100 / 1300x2360 MAX. SASH WEIGHT Kg 130, 150*, 200** 130, 150*, 200**	HANDWANE		
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MAX. SASH WEIGHT Kg 130, 150*, 200** 130, 150*, 200**	SASH HEIGHT mm	360-2400*	450-2360*
	MAX. SASH DIMENSIONS mm (WxH)	1600x2100 / 1300x2400	1490x2100 / 1300x2360
CERTIFICATES/PERFORMANCES	MAX. SASH WEIGHT Kg	130, 150*, 200**	130, 150*, 200**
VEHIII IVALEU/I EIII VIIII/AIIVEV	CERTIFICATES/PERFORMANCES		
THERMAL INSULATION U _f EN ISO 10077-2 0.76 W/m²K 0.76 W/m²K		0.76 W/m²k	0.76 W/m²K
*Reinforced Tilt and Turn **Hinged with heavy duty hinges		0.70 W/III IX	0.7 0 W/III IX





Rate of Insulation

$U_{\rm W} = 0.78 \; \rm W/m^2 K$

Thermal conductivity coefficient has been calculated for the construction: 1230x1480 with Ug=0.7 W/m²K Glass type: 48 mm=4+18+4+18+4