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 W/m²K and the greatest possible degree of architectural design freedom.

Features & Benefits

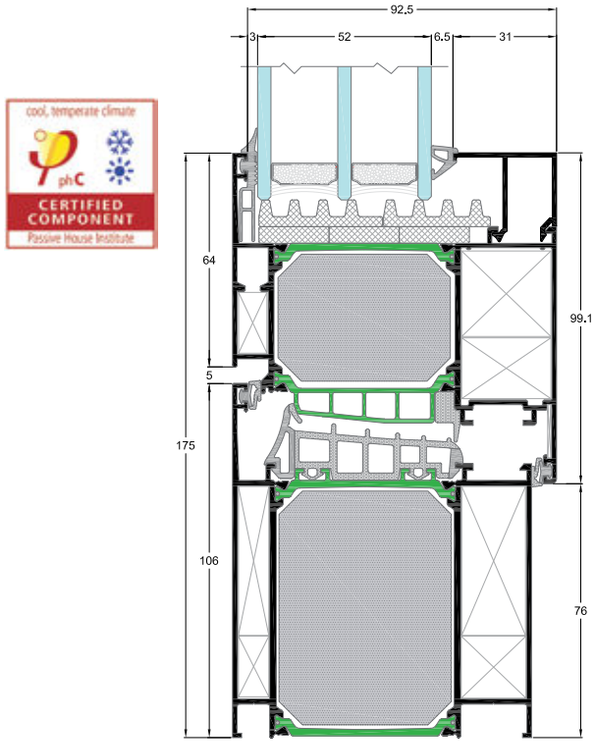
- Unique thermal insulation for aluminium windows in accordance with the passive house certification standard.
- Innovative insulation system thanks to 54 mm polyamides offering U_f value = 0.76 W/m²K with 102 mm face width.
- Increased sound reduction
- Multi-chamber central gasket that ensures optimum 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.

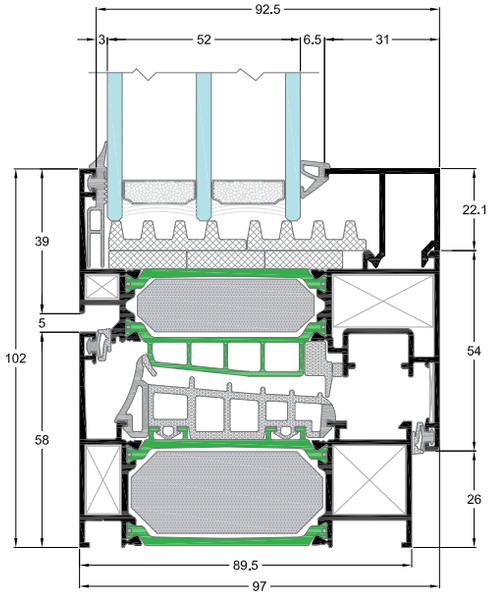
Configurations

Casement windows
1Leaf - 2Leaf - 3Leaf - 4Leaf

Casement-awning windows
1Leaf - 2Leaf

Fixed-picture windows





HARDWARE		
CAMERA	CE	ALU 16

INSULATION		
POLYAMIDES mm	54	54
FOAM	■	■

SYSTEM PROFILE DIMENSIONS		
MIN. FRAME DEPTH mm	89.5	89.5
MIN. FACE HEIGHT mm	175	102
GLASS THICKNESS mm	46-81	46-81

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**

CERTIFICATES/PERFORMANCES		
AIR PERMEABILITY	N/A	Class 3
WATER TIGHTNESS	N/A	Class 6A
RESISTANCE TO WIND LOAD	N/A	Class C4
SOUND REDUCTION R_w ($C;C_{tr}$) ISO 10140-2	52 (-2;-4) dB	52 (-2;-4) dB
THERMAL INSULATION U_f EN ISO 10077-2	0.76 W/m²K	0.76 W/m²K

*Reinforced Tilt and Turn | **Hinged with heavy duty hinges

Rate of Insulation

U_w=0.78 W/m²K

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