

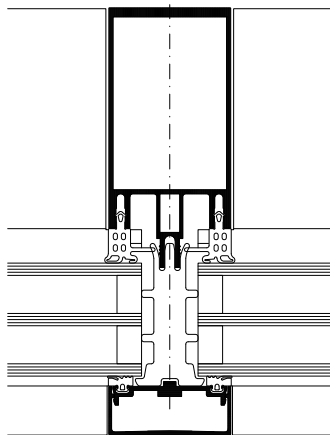
WICTEC 50HI

Passive house curtain wall

Certified passive house component



A passive house does not require an active heating system and therefore relies heavily on the thermal insulation and air-tightness of the façade. Based on the standard series, WICTEC 50 is certified for aluminium/glass façades suitable for passive houses at minimal additional cost. The thermal insulation is improved to passive-house quality with a U_f value of $0.74 \text{ W/(m}^2\text{K)}$ when using triple glazing and an easy-to-install thermal break profile.



System test results / CE product pass in accordance with DIN EN 13830

Air permeability:	Class AE
Watertightness:	RE 1200
Resistance to wind load:	2000 / -3200 Pa, security 3000 / -4800 Pa
Sound insulation:	$R_w (C; C_{tr}) = 47 (-1; -4) \text{ dB}$
Impact resistance:	Class E5 / I5
Burglar resistance:	RC1
Quality assurance:	Certified according to ISO 9001:2008

Technical performance:

System width:	50 mm
Basic system:	WICTEC 50
Thermal insulation:	$U_f = 0.74 \text{ W/(m}^2\text{K)}$
Infill thickness:	45 mm to 51 mm
Glass weight:	up to 5.6 kN
Polygon façade:	up to 5°

System technology:

- Extension to WICTEC 50 with optimised thermal insulation
- Certified by the ift Rosenheim as a passive house component according to the ift guidance paper RI WA 15/1, with a U_{cw} value of $0.7 \text{ W/(m}^2\text{K)}$
- Triplex glass construction suitable for passive houses, infill thickness from 45 mm to 51 mm
- Thermal break profile made of elastomer foam for posterior installation
- System construction identical to standard WICTEC 50
- Individual design thanks to a wide range of profile geometries for the structural and glazing profiles
- Reliable glass load transmission (up to 5.6 kN), with adapted transom-joint technology
- Overlapping and secure drainage at the cross point, without mechanical mullion processing, ensures tried-and-tested impermeability
- Filigree look without any change in appearance to the inner mullion and transom gaskets
- Broad selection of profiles enables economic adaptation to structural requirements, with the additional option of internal reinforcement

