

# WICONA®

By  Hydro



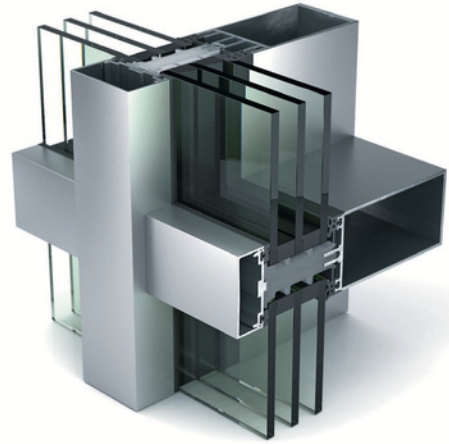
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Aluminium solutions for façades,  
windows, doors and sliding elements

» WICTEC 50HI Passive house curtain wall  
Certified passive house component (ift)

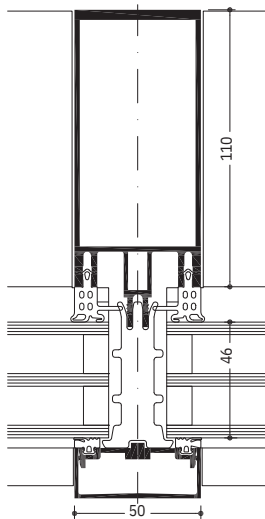
ALUMINIUM PROFILE SYSTEMS

» **WICTEC 50HI**  
 Passive house curtain wall  
 Certified passive house  
 component (ift)



Passive house does not require an active heating system and therefore relies heavily on the thermal insulation and airtightness of the façade. Based on the standard series, WICTEC 50HI is certified for aluminium/glass façades suitable for passive houses at minimal additional cost. The thermal insulation exceeds the benchmark requirements of passive-house, with a U

value of 0.65 W/(m<sup>2</sup>K) thanks to easy-to-install special thermal break profiles in combination with triple glazing.



**Technical performance:**

- System width: 50 mm
- Basic system: WICTEC 50
- Thermal insulation: U<sub>f</sub> = 0.65 W/(m<sup>2</sup>K)
- Infill thickness: up to 63 mm
- Glass weight: up to 6.0 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 BI WA 15/1 with a U<sub>f</sub> value of 0.7 W/(m<sup>2</sup>K)
- Triple glazing construction suitable for passive houses, infill thicknesses up to 63 mm
- Thermally enhanced isolator profiles for subsequent installation
- System construction identical to standard WICTEC 50
- Ideal for vertical and polygon façades, sloped glazing and spatial structures
- Individual design possibilities, thanks to a wide range of aesthetic profiles
- Reliable glass load transfer (up to 6.0 kN), with improved transom-joint technology
- Overlapping and secure drainage at the cruciform, without mechanical mullion processing, ensures tried-and-tested impermeability
- Consistent internal gasket appearance
- Wide selection of structural profiles, with optional integral reinforcements, ensuring optimal performance

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

Air permeability: Class AE	
Water tightness: RE 1200	
Resistance to wind load: 2000 / -3200 Pa,	security 3000 / -4800 Pa
Sound insulation: R	w (C;Ctr) = 47 (-1; -4) dB
Impact resistance: Class E5 / I5	
Burglar resistance: RC1	
Quality assurance: Certified according to ISO 9001:2008	
Environmental management: Certified according to ISO 14001	





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