



Metallbau Bischof GmbH, Sonthofen (Bavaria)

Essential info

Place / Country:	Sonthofen, Germany
Year:	2005
Project:	Production facility
Solutions:	CI System Glass Architecture KWS 60 CI System Ventilation Flap M Wind and rain sensor set Solar control insulating glass
Efficiency:	65% energy saving $U_w=1,1 \text{ W}/(\text{m}^2\text{K})$ vs. $U_w=3,1 \text{ W}/(\text{m}^2\text{K})$ as per German Energy Performance of Buildings Directive 2009

Energy efficiency upgrade with a high daylight intake with elements to prevent glare and excessive solar energy input.

- Ridged roof with 16° pitch, glazing divided up into 110 glass sections, snow load resistance = 3.40 kN/m², sound reduction index = 35 dB (Rwp)
- Thermally separated, extruded aluminium sections
- Ventilation flaps tested to EN 12207 (Class 4), watertightness as per EN 12208 (Class E1200), resistance under wind load as per EN 12210 (Class C4/B5)
- Flap systems with 230 V electric motor (upstroke = 500 mm)
- Wind and rain sensors with visual status, weather and temperature display
- Solar control insulating glass, 42% light transmission and 35% total energy transmission



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