Reference

LAMILUX CI-System Glasarchitektur PR60

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 **Uw=1,1 W/(m²K)** **vs. Uw=3,1 W/(m²K) 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

LAMILUX HEINRICH STRUNZ GMBH
POB 1540 - 95105 Rehau/Germany - Phone: +49 (0)9283/595-0 - Fax: +49 (0)9283/595-290
E-Mail: information@lamilux.com - www.lamilux.com

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