

# Reference



Metallbau Bischof GmbH, Sonthofen (Bavaria)

## Essential info

Place / Country:	Sonthofen, Germany
Year:	2005
Project:	Production facility
Solutions:	Glass Roof KWS 60 Ventilation Flap PR60 Wind and rain sensor set Solar control insulating glass
Efficiency:	65% energy saving <b>U<sub>w</sub>=1,1 W/(m<sup>2</sup>K)</b> <b>vs. U<sub>w</sub>=3,1 W/(m<sup>2</sup>K) as per German Energy Performance of Buildings Directive 2009</b>

### 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/m<sup>2</sup>, sound reduction index = 35 dB (R<sub>wp</sub>)
- 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](mailto:information@lamilux.com) - [www.lamilux.com](http://www.lamilux.com)

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