



Metallbau Bischof GmbH, Sonthofen (Bavaria)

## Essential info

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

# Reference



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