

# Reference

CI System Glass Architecture KWS 60



Rhein-Galerie, Ludwigshafen, Germany

## Essential info

Place / Country:	Ludwigshafen am Rhein, Germany
Year:	2010
Building type:	Shopping mall
Solutions:	CI System Ventilation Flap M CI System Glass Architecture KWS 60 Building automation / CI Control Technology Pneumatic upstroke opener (tandem drives) Heat insulation glazing
Efficiency:	32% energy saving  <b>Uw=1,3 W/(m²K) vs. Uw=1,9 W/(m²K) as per German Energy Performance of Buildings Directive 2009</b>

**330 metres long, this two-storey shopping mall is provided with plenty of natural daylight thanks to several elliptic glass structures with a total surface of 2,900 m<sup>2</sup> along the length of its gallery. This results in lower power requirements for electric lighting, which, in turn, considerably reduces CO<sub>2</sub> emissions into the environment.**

- Integrated flap systems for SHEV function and natural ventilation; light transmission tested to EN 12207 (Class 4), watertightness as per EN 12208 (Class E1200), resistance under wind load as per EN 12210 (Class C4/B5)
- Thermally separated, extruded aluminium sections
- Conceptual design and installation of control devices
- Control process automation for SHEV and ventilation functions
- Connected to building control technology via Modbus connection

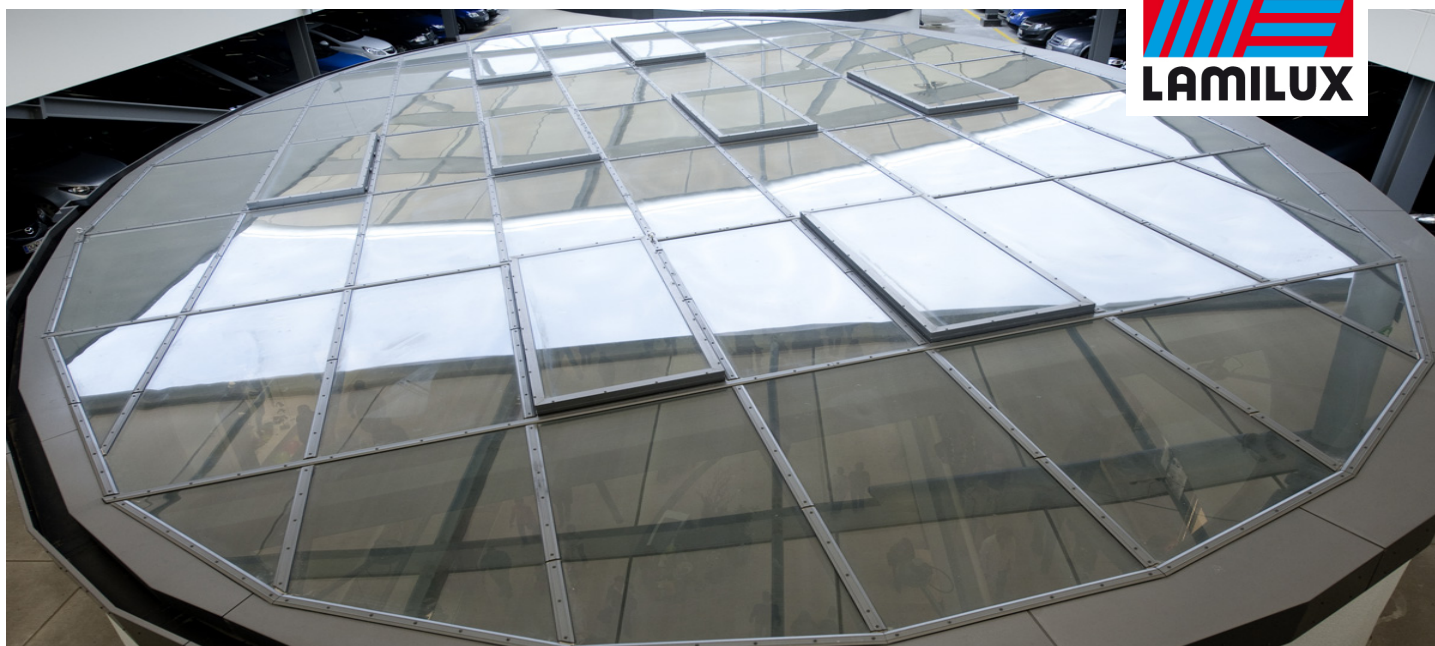
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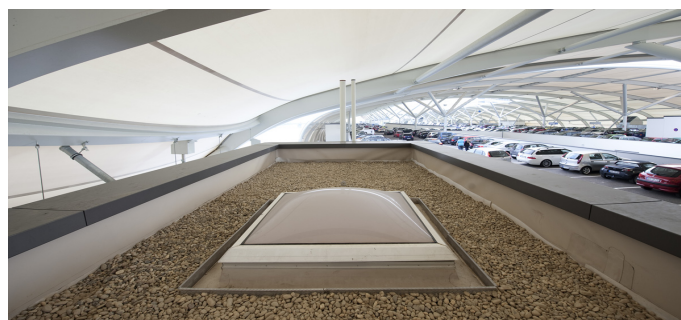
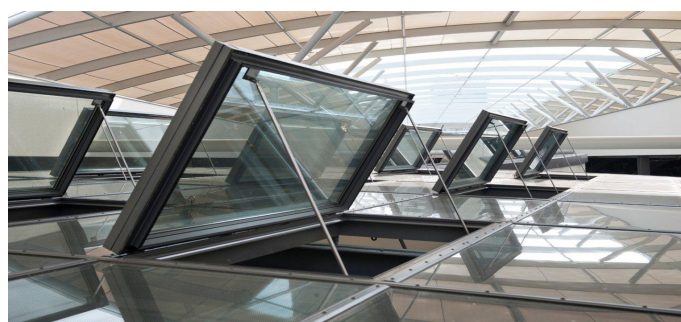
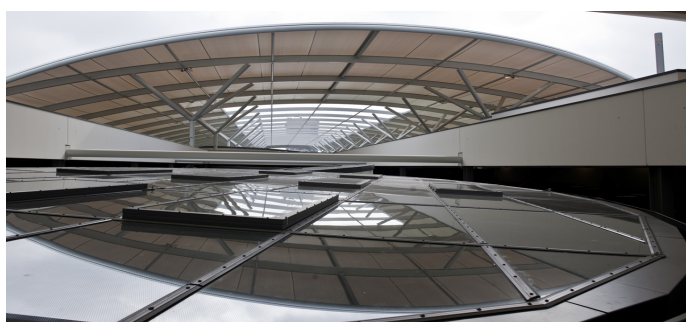
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