

February 15, 2010

Taikisha's High-performance Vertical Waterproof Louvers Now Marketed for Railroad Car Applications

Louvreme® has been adopted for use in railroad cars

Taikisha Ltd. (President: Yoshiro Nakaya, Head Office: Shinjuku-ku, Tokyo, hereinafter referred to as "Taikisha") announced today that the company's high-speed vertical waterproof louvers have been adopted for use in railroad cars based on the high reputation they have gained for their performance in factory buildings.

Taikisha has trademarked the product name, Louvreme® and will actively promote its use for railroad car applications, with an annual worldwide sales target of 100 million yen.

Background

Taikisha has long delivered low-noise, energy efficient, high-speed vertical waterproof louvers with high draining capabilities and less pressure loss to factory buildings. These louvers have gained a reputation for excellent performance, resulting in their adoption for use in railroad cars.

Over the past few years, railroads have attracted increasing attention as a mode of transportation with less environmental burden, and investments in them have been high in emerging countries as well as the United States and Britain. Among others, Japanese railroad technologies, which are known for their high level of safety and energy-saving features, have gained recognition, and the numbers of ordered received by Japanese railroad car manufacturers have been increasing. Taikisha will make the utmost effort to expand sales of its Louvreme® louvers for broad use in railroad cars.

Features of Louvreme®

1) High Draining Capabilities

High-speed louvers limit water drainage to no higher than 8g/min.

(Size of the tested louvers: 1,200mm x 1,200mm, air-supplied setting, rainfall intensity: 100mm/hr, face air velocity: 4.0m/s)

Medium-speed louvers limit water drainage to no higher than 100g/min. with an outdoor wind speed of 30m/s, as often seen in typhoons.

(Size of the tested louvers: 500mm x 500mm, air-supplied setting, rainfall intensity: 224mm/hr, face air velocity: 2.5m/s)

2) High Energy Efficiency

Delivers high draining capabilities with low pressure loss.

High air permeability allows for low power consumption by the blower, enabling a highly efficient air supply and exhaust.

3) Dramatically Reduced Noise

High-speed louvers (at a face air velocity of 4.0m/s): 61dB(A)

Medium-speed louvers (at a face air velocity of 2.5m/s): 51dB(A)

---> Low-noise specifications with less impact on the surroundings.

4) Compact

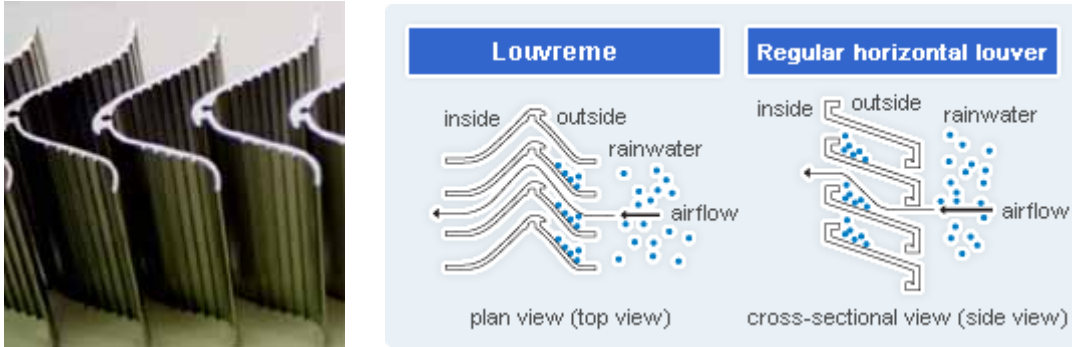
The high air permeability of the louvers allows for a smaller opening, enhancing the effectiveness of their design as well as functionality.

Next Step

In addition to marketing Louvre® for factory building applications, Taikisha plans to actively promote Louvre® for use in railroad cars, with an annual worldwide sales target of 100 million yen.

Reference Information

Louvre® (Japanese trademark registration number: 5287677)



Images of rainwater capturing

Specifications

	Medium-speed Type	High-speed Type
Blade Type	Ver. 4.1	Ver. 5.1
Blade Pitch	35mm	22mm
Louver Weight (1m ²)	27kg	38kg
Maximum Operating Wind Speed	3.0m/s	5.0m/s
Recommended Operating Wind Speed	Face air velocity of 2.5m/s	Face air velocity of 4.0m/s
Pressure Loss	56 Pa (at a face air velocity of 2.5m/s)	53 Pa (at a face air velocity of 4.0m/s)
Resistance coefficient (for the face air velocity)	15	5.5
Noise (500mm x 500mm)	51dB(A)	61dB(A)

For detailed information, please refer to [Louvre web page](#).