

Balcony Railing Integrated Solar Water Heater

This flat-plate solar collector integrates into balcony railings, ideal for high-rise residential buildings. It combines solar energy collection and the function of a balcony railing to reduce energy consumption.



Product Overview

Innovative Solar Integration

This balcony-integrated flat-plate solar collector represents a breakthrough in building-integrated solar technology, specifically designed for high-rise residential applications. By combining energy collection with functional balcony railing architecture, it effectively replaces standard railings while significantly reducing building energy consumption. The system features a modular design for easy installation and utilizes advanced materials to ensure both aesthetic appeal and long-term durability.

Technical Specifications

Collector Type	Flat-plate solar collector
Cover Material	6-8mm thick PC sun panel
Welding Technology	Ultrasonic welding (German technology)

Construction & Design

Frame Construction	Sprayed steel frame
Insulation	Polyurethane foam

Key Features

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- Building-integrated solar design
- Modular installation system
- High thermal transmittance
- Low heat loss
- Copper fin and tube construction

Certifications & Standards	Building Integrated Photovoltaics (BIPV) Compatible, High-Rise Ready
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