

# Thermodynamic Solar Water Heating Panel

This thermodynamic solar panel is designed for efficient hot water heating. It absorbs ambient energy from solar radiation and air temperature using integrated fluid channels.



## ADDITIONAL IMAGES



## Product Overview

### Thermodynamic Solar Panel for Hot Water Systems

This thermodynamic solar panel is engineered for high-efficiency hot water heat pump systems. Utilizing advanced roll-bond technology, the panel features an aluminum plate construction designed to absorb ambient energy from the environment, including solar radiation and air temperature. Built for durability and performance, it is suitable for both residential and commercial applications requiring a sustainable water heating solution.

## Technical Specifications

### Dimensions

**590 mm**  
Max Width

**2050 mm**  
Max Length

### Material Thickness

**1.1 mm**  
Min Finished Thickness

**2 mm**  
Max Finished Thickness

**1.4 mm**  
Min Raw Al Plate

**2.5 mm**  
Max Raw Al Plate

### Available Structures

Double side rollbond evaporator, Single side rollbond evaporator, Part single side rollbond evaporator

## Coating Standards

### Coating Performance

Property	Requirement
Coating Thickness	40 - 90 $\mu$ m
Hardness	e $\geq$ 2H
Adhesion	Two grade
Color Tolerance	E d 1.5

## Cooling System Standards

### R134A System Cleanliness

- Residual moisture d 5 /100cm<sup>3</sup>
- Residual impurity d 1 /100cm<sup>3</sup>
- Residual mineral oil d 100 /100cm<sup>3</sup>
- Residual chlorine d 5vppm
- Residual paraffin d 3
- Biggest single impurity d 0.5mm

## Applications

### Industry Applications

Refrigerator • Freezer • Showcase • Water Dispenser • Wine Cabinet • Solar Panel