Technical Datasheet

17 April 2026

Roll Bond Evaporator Panel for Solar Thermal Systems

This roll bond evaporator panel is designed for thermodynamic solar systems. It features an integrated serpentine channel configuration for efficient heat transfer and is suitable for refrigerant-based solar thermal applications.

ADDITIONAL IMAGES

Product Overview

High-Efficiency Roll Bond Thermodynamic Panels

These roll bond evaporator panels are engineered for high-performance thermodynamic solar systems, utilizing advanced aluminum plate construction for superior thermal conductivity. The manufacturing process creates a robust metallurgical bond between the absorber sheet and internal fluid channels, ensuring reliability in refrigerant-based applications. Designed for durability and corrosion resistance, these panels are ideal for heating solutions in residential and commercial environments.

Physical Dimensions

Maximum Dimensions

590 mm
Max Width

2050 mm
Max Length

Thickness Range	Finished product: 1.1-2.0mm; Raw material: 1.4-2.5mm

Coating Specifications

Performance Data

Property	Requirement
Coating Thickness	40-90 ㎛
Hardness	e 2H
Adhesion	eTwo grade
Color Tolerance	E d 1.5

Rooms 05–15, 13A/F South Tower, World Finance Centre, Harbour City, 17 Canton Rd, Tsim Sha Tsui, Kowloon, Hong Kong

Cleaning Standards

Residual Standards (R134A System)

- Residual moisture d 5 /100cm3
- Residual impurity d 1 /100cm3
- Residual mineral oil d 100 /100cm3
- Residual chlorine d 5vloppm
- Residual paraffin d 3 /100cm3

Technical Features

Structure Options	Double side rollbond, Single side rollbond, Part single side rollbond
Common Applications	Refrigerators, Freezers, Solar Panels, Water Dispensers, Wine Cabinets