

Global Aluminium Profiles for Solar Panel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminium Profiles for Solar Panel market size is expected to reach \$ 58710 million by 2032, rising at a market growth of 3.0% CAGR during the forecast period (2026-2032).

Aluminum profiles for solar panels are aluminum alloy profiles specifically designed for photovoltaic (PV) module mounting systems, frames, and borders. Characterized by their lightweight nature, high strength, corrosion resistance, and ease of processing, these profiles serve to secure and support solar panels, thereby ensuring the long-term, stable operation of the PV modules.

The upstream sector primarily consists of suppliers of aluminum ingots and raw aluminum alloy materials, as well as manufacturers of aluminum profile extrusion equipment. The downstream sector comprises PV module manufacturers, solar power plant developers, and engineering installation firms, which are responsible for processing these profiles into mounting brackets and frames for application within PV systems.

Globally, the average unit price for aluminum profiles used in solar panels stands at \$1,508 per ton, with a global sales volume of approximately 31.02 million tons. The industry's annual production capacity ranges between 50 million and 60 million tons, and the sector maintains a profit margin of approximately 25%.

In the coming years, the global market for aluminum profiles used in solar panels will continue to be driven by the rapid growth in photovoltaic (PV) installation capacity, with demand steadily increasing?particularly in ground-mounted power stations and commercial rooftop PV projects. High-performance, lightweight, and corrosion-resistant

aluminum profiles are set to become the industry standard, while eco-friendly, low-carbon aluminum materials and recycling technologies will garner increased attention as means to reduce carbon footprints and production costs. Driven by technological advancements, the design of modular, standardized, and easy-to-install profiles will enhance construction efficiency and system stability, thereby aligning with trends toward smart and sustainable development. Market concentration on a global scale is expected to rise gradually; leading enterprises will secure their competitive edge through technological innovation, brand equity, and distribution channel advantages, while small and medium-sized enterprises (SMEs) will increasingly rely on cost control and customized services. Overall, the aluminum profile sector for solar panels is poised to evolve toward high value-added, eco-friendly, and highly reliable solutions, establishing itself as an indispensable and critical link within the broader photovoltaic industry chain.

This report studies the global Aluminium Profiles for Solar Panel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aluminium Profiles for Solar Panel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aluminium Profiles for Solar Panel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aluminium Profiles for Solar Panel total production and demand, 2021-2032, (Kilotons)

Global Aluminium Profiles for Solar Panel total production value, 2021-2032, (USD Million)

Global Aluminium Profiles for Solar Panel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Aluminium Profiles for Solar Panel consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Aluminium Profiles for Solar Panel domestic production, consumption, key domestic manufacturers and share

Global Aluminium Profiles for Solar Panel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Aluminium Profiles for Solar Panel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Aluminium Profiles for Solar Panel production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Aluminium Profiles for Solar Panel market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sapa (Hydro), Constellium, UACJ Corporation, Kaiser Aluminum, Alcoa Corporation, Zhongji Lamination, Jiangsu Trina Aluminum, Shandong Huasheng Aluminum, Novelis, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aluminium Profiles for Solar Panel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aluminium Profiles for Solar Panel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminium Profiles for Solar Panel Market, Segmentation by Type:

Frame Profiles

Support Profiles

Connector Profiles

Global Aluminium Profiles for Solar Panel Market, Segmentation by Aluminum Alloy Materials:

High-Purity Aluminum

Magnesium-Aluminum Alloys

Aluminum-Magnesium-Silicon Alloys

Global Aluminium Profiles for Solar Panel Market, Segmentation by Surface Treatment Processes:

Anodized Profiles

Powder-Coated Profiles

Wood-Grain and Color-Laminated Profiles

Global Aluminium Profiles for Solar Panel Market, Segmentation by Application:

Ground-Mounted PV Support Profiles

Rooftop PV Support Profiles

Adjustable and Tracking Support Profiles

Companies Profiled:

Sapa (Hydro)

Constellium

UACJ Corporation

Kaiser Aluminum

Alcoa Corporation

Zhongji Lamination

Jiangsu Trina Aluminum

Shandong Huasheng Aluminum

Novelis

Key Questions Answered:

1. How big is the global Aluminium Profiles for Solar Panel market?
2. What is the demand of the global Aluminium Profiles for Solar Panel market?
3. What is the year over year growth of the global Aluminium Profiles for Solar Panel market?
4. What is the production and production value of the global Aluminium Profiles for Solar Panel market?
5. Who are the key producers in the global Aluminium Profiles for Solar Panel market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Aluminium Profiles for Solar Panel Introduction
- 1.2 World Aluminium Profiles for Solar Panel Supply & Forecast
 - 1.2.1 World Aluminium Profiles for Solar Panel Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Aluminium Profiles for Solar Panel Production (2021-2032)
 - 1.2.3 World Aluminium Profiles for Solar Panel Pricing Trends (2021-2032)
- 1.3 World Aluminium Profiles for Solar Panel Production by Region (Based on Production Site)
 - 1.3.1 World Aluminium Profiles for Solar Panel Production Value by Region (2021-2032)
 - 1.3.2 World Aluminium Profiles for Solar Panel Production by Region (2021-2032)
 - 1.3.3 World Aluminium Profiles for Solar Panel Average Price by Region (2021-2032)
 - 1.3.4 North America Aluminium Profiles for Solar Panel Production (2021-2032)
 - 1.3.5 Europe Aluminium Profiles for Solar Panel Production (2021-2032)
 - 1.3.6 China Aluminium Profiles for Solar Panel Production (2021-2032)
 - 1.3.7 Japan Aluminium Profiles for Solar Panel Production (2021-2032)
 - 1.3.8 India Aluminium Profiles for Solar Panel Production (2021-2032)
 - 1.3.9 Southeast Asia Aluminium Profiles for Solar Panel Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Aluminium Profiles for Solar Panel Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Aluminium Profiles for Solar Panel Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Aluminium Profiles for Solar Panel Demand (2021-2032)
- 2.2 World Aluminium Profiles for Solar Panel Consumption by Region
 - 2.2.1 World Aluminium Profiles for Solar Panel Consumption by Region (2021-2026)
 - 2.2.2 World Aluminium Profiles for Solar Panel Consumption Forecast by Region (2027-2032)
- 2.3 United States Aluminium Profiles for Solar Panel Consumption (2021-2032)
- 2.4 China Aluminium Profiles for Solar Panel Consumption (2021-2032)
- 2.5 Europe Aluminium Profiles for Solar Panel Consumption (2021-2032)
- 2.6 Japan Aluminium Profiles for Solar Panel Consumption (2021-2032)
- 2.7 South Korea Aluminium Profiles for Solar Panel Consumption (2021-2032)
- 2.8 ASEAN Aluminium Profiles for Solar Panel Consumption (2021-2032)
- 2.9 India Aluminium Profiles for Solar Panel Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Aluminium Profiles for Solar Panel Production Value by Manufacturer (2021-2026)
- 3.2 World Aluminium Profiles for Solar Panel Production by Manufacturer (2021-2026)
- 3.3 World Aluminium Profiles for Solar Panel Average Price by Manufacturer (2021-2026)
- 3.4 Aluminium Profiles for Solar Panel Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Aluminium Profiles for Solar Panel Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Aluminium Profiles for Solar Panel in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Aluminium Profiles for Solar Panel in 2025
- 3.6 Aluminium Profiles for Solar Panel Market: Overall Company Footprint Analysis
 - 3.6.1 Aluminium Profiles for Solar Panel Market: Region Footprint
 - 3.6.2 Aluminium Profiles for Solar Panel Market: Company Product Type Footprint
 - 3.6.3 Aluminium Profiles for Solar Panel Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Aluminium Profiles for Solar Panel Production Value Comparison
 - 4.1.1 United States VS China: Aluminium Profiles for Solar Panel Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Aluminium Profiles for Solar Panel Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Aluminium Profiles for Solar Panel Production Comparison
 - 4.2.1 United States VS China: Aluminium Profiles for Solar Panel Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Aluminium Profiles for Solar Panel Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Aluminium Profiles for Solar Panel Consumption Comparison

- 4.3.1 United States VS China: Aluminium Profiles for Solar Panel Consumption Comparison (2021 & 2025 & 2032)
- 4.3.2 United States VS China: Aluminium Profiles for Solar Panel Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Aluminium Profiles for Solar Panel Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Aluminium Profiles for Solar Panel Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Aluminium Profiles for Solar Panel Production Value (2021-2026)
 - 4.4.3 United States Based Manufacturers Aluminium Profiles for Solar Panel Production (2021-2026)
- 4.5 China Based Aluminium Profiles for Solar Panel Manufacturers and Market Share
 - 4.5.1 China Based Aluminium Profiles for Solar Panel Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Aluminium Profiles for Solar Panel Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Aluminium Profiles for Solar Panel Production (2021-2026)
- 4.6 Rest of World Based Aluminium Profiles for Solar Panel Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Aluminium Profiles for Solar Panel Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Aluminium Profiles for Solar Panel Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Aluminium Profiles for Solar Panel Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Aluminium Profiles for Solar Panel Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Frame Profiles
 - 5.2.2 Support Profiles
 - 5.2.3 Connector Profiles
- 5.3 Market Segment by Type
 - 5.3.1 World Aluminium Profiles for Solar Panel Production by Type (2021-2032)
 - 5.3.2 World Aluminium Profiles for Solar Panel Production Value by Type (2021-2032)

5.3.3 World Aluminium Profiles for Solar Panel Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ALUMINUM ALLOY MATERIALS

6.1 World Aluminium Profiles for Solar Panel Market Size Overview by Aluminum Alloy Materials: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Aluminum Alloy Materials

6.2.1 High-Purity Aluminum

6.2.2 Magnesium-Aluminum Alloys

6.2.3 Aluminum-Magnesium-Silicon Alloys

6.3 Market Segment by Aluminum Alloy Materials

6.3.1 World Aluminium Profiles for Solar Panel Production by Aluminum Alloy Materials (2021-2032)

6.3.2 World Aluminium Profiles for Solar Panel Production Value by Aluminum Alloy Materials (2021-2032)

6.3.3 World Aluminium Profiles for Solar Panel Average Price by Aluminum Alloy Materials (2021-2032)

7 MARKET ANALYSIS BY SURFACE TREATMENT PROCESSES

7.1 World Aluminium Profiles for Solar Panel Market Size Overview by Surface Treatment Processes: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Surface Treatment Processes

7.2.1 Anodized Profiles

7.2.2 Powder-Coated Profiles

7.2.3 Wood-Grain and Color-Laminated Profiles

7.3 Market Segment by Surface Treatment Processes

7.3.1 World Aluminium Profiles for Solar Panel Production by Surface Treatment Processes (2021-2032)

7.3.2 World Aluminium Profiles for Solar Panel Production Value by Surface Treatment Processes (2021-2032)

7.3.3 World Aluminium Profiles for Solar Panel Average Price by Surface Treatment Processes (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Aluminium Profiles for Solar Panel Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Ground-Mounted PV Support Profiles
- 8.2.2 Rooftop PV Support Profiles
- 8.2.3 Adjustable and Tracking Support Profiles
- 8.3 Market Segment by Application
 - 8.3.1 World Aluminium Profiles for Solar Panel Production by Application (2021-2032)
 - 8.3.2 World Aluminium Profiles for Solar Panel Production Value by Application (2021-2032)
 - 8.3.3 World Aluminium Profiles for Solar Panel Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Sapa (Hydro)
 - 9.1.1 Sapa (Hydro) Details
 - 9.1.2 Sapa (Hydro) Major Business
 - 9.1.3 Sapa (Hydro) Aluminium Profiles for Solar Panel Product and Services
 - 9.1.4 Sapa (Hydro) Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Sapa (Hydro) Recent Developments/Updates
 - 9.1.6 Sapa (Hydro) Competitive Strengths & Weaknesses
- 9.2 Constellium
 - 9.2.1 Constellium Details
 - 9.2.2 Constellium Major Business
 - 9.2.3 Constellium Aluminium Profiles for Solar Panel Product and Services
 - 9.2.4 Constellium Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Constellium Recent Developments/Updates
 - 9.2.6 Constellium Competitive Strengths & Weaknesses
- 9.3 UACJ Corporation
 - 9.3.1 UACJ Corporation Details
 - 9.3.2 UACJ Corporation Major Business
 - 9.3.3 UACJ Corporation Aluminium Profiles for Solar Panel Product and Services
 - 9.3.4 UACJ Corporation Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 UACJ Corporation Recent Developments/Updates
 - 9.3.6 UACJ Corporation Competitive Strengths & Weaknesses
- 9.4 Kaiser Aluminum
 - 9.4.1 Kaiser Aluminum Details
 - 9.4.2 Kaiser Aluminum Major Business

- 9.4.3 Kaiser Aluminum Aluminium Profiles for Solar Panel Product and Services
- 9.4.4 Kaiser Aluminum Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Kaiser Aluminum Recent Developments/Updates
- 9.4.6 Kaiser Aluminum Competitive Strengths & Weaknesses
- 9.5 Alcoa Corporation
 - 9.5.1 Alcoa Corporation Details
 - 9.5.2 Alcoa Corporation Major Business
 - 9.5.3 Alcoa Corporation Aluminium Profiles for Solar Panel Product and Services
 - 9.5.4 Alcoa Corporation Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Alcoa Corporation Recent Developments/Updates
 - 9.5.6 Alcoa Corporation Competitive Strengths & Weaknesses
- 9.6 Zhongji Lamination
 - 9.6.1 Zhongji Lamination Details
 - 9.6.2 Zhongji Lamination Major Business
 - 9.6.3 Zhongji Lamination Aluminium Profiles for Solar Panel Product and Services
 - 9.6.4 Zhongji Lamination Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Zhongji Lamination Recent Developments/Updates
 - 9.6.6 Zhongji Lamination Competitive Strengths & Weaknesses
- 9.7 Jiangsu Trina Aluminum
 - 9.7.1 Jiangsu Trina Aluminum Details
 - 9.7.2 Jiangsu Trina Aluminum Major Business
 - 9.7.3 Jiangsu Trina Aluminum Aluminium Profiles for Solar Panel Product and Services
 - 9.7.4 Jiangsu Trina Aluminum Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Jiangsu Trina Aluminum Recent Developments/Updates
 - 9.7.6 Jiangsu Trina Aluminum Competitive Strengths & Weaknesses
- 9.8 Shandong Huasheng Aluminum
 - 9.8.1 Shandong Huasheng Aluminum Details
 - 9.8.2 Shandong Huasheng Aluminum Major Business
 - 9.8.3 Shandong Huasheng Aluminum Aluminium Profiles for Solar Panel Product and Services
 - 9.8.4 Shandong Huasheng Aluminum Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Shandong Huasheng Aluminum Recent Developments/Updates
 - 9.8.6 Shandong Huasheng Aluminum Competitive Strengths & Weaknesses
- 9.9 Novelis

- 9.9.1 Novelis Details
- 9.9.2 Novelis Major Business
- 9.9.3 Novelis Aluminium Profiles for Solar Panel Product and Services
- 9.9.4 Novelis Aluminium Profiles for Solar Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Novelis Recent Developments/Updates
- 9.9.6 Novelis Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Aluminium Profiles for Solar Panel Industry Chain
- 10.2 Aluminium Profiles for Solar Panel Upstream Analysis
 - 10.2.1 Aluminium Profiles for Solar Panel Core Raw Materials
 - 10.2.2 Main Manufacturers of Aluminium Profiles for Solar Panel Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Aluminium Profiles for Solar Panel Production Mode
- 10.6 Aluminium Profiles for Solar Panel Procurement Model
- 10.7 Aluminium Profiles for Solar Panel Industry Sales Model and Sales Channels
 - 10.7.1 Aluminium Profiles for Solar Panel Sales Model
 - 10.7.2 Aluminium Profiles for Solar Panel Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Aluminium Profiles for Solar Panel Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Aluminium Profiles for Solar Panel Production Value by Region (2021-2026) & (USD Million)

Table 3. World Aluminium Profiles for Solar Panel Production Value by Region (2027-2032) & (USD Million)

Table 4. World Aluminium Profiles for Solar Panel Production Value Market Share by Region (2021-2026)

Table 5. World Aluminium Profiles for Solar Panel Production Value Market Share by Region (2027-2032)

Table 6. World Aluminium Profiles for Solar Panel Production by Region (2021-2026) & (Kilotons)

Table 7. World Aluminium Profiles for Solar Panel Production by Region (2027-2032) & (Kilotons)

Table 8. World Aluminium Profiles for Solar Panel Production Market Share by Region (2021-2026)

Table 9. World Aluminium Profiles for Solar Panel Production Market Share by Region (2027-2032)

Table 10. World Aluminium Profiles for Solar Panel Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Aluminium Profiles for Solar Panel Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Aluminium Profiles for Solar Panel Major Market Trends

Table 13. World Aluminium Profiles for Solar Panel Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Aluminium Profiles for Solar Panel Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Aluminium Profiles for Solar Panel Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Aluminium Profiles for Solar Panel Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Aluminium Profiles for Solar Panel Producers in 2025

Table 18. World Aluminium Profiles for Solar Panel Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Aluminium Profiles for Solar Panel Producers in 2025

Table 20. World Aluminium Profiles for Solar Panel Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Aluminium Profiles for Solar Panel Company Evaluation Quadrant

Table 22. World Aluminium Profiles for Solar Panel Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Aluminium Profiles for Solar Panel Production Site of Key Manufacturer

Table 24. Aluminium Profiles for Solar Panel Market: Company Product Type Footprint

Table 25. Aluminium Profiles for Solar Panel Market: Company Product Application Footprint

Table 26. Aluminium Profiles for Solar Panel Competitive Factors

Table 27. Aluminium Profiles for Solar Panel New Entrant and Capacity Expansion Plans

Table 28. Aluminium Profiles for Solar Panel Mergers & Acquisitions Activity

Table 29. United States VS China Aluminium Profiles for Solar Panel Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Aluminium Profiles for Solar Panel Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Aluminium Profiles for Solar Panel Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Aluminium Profiles for Solar Panel Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Aluminium Profiles for Solar Panel Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Aluminium Profiles for Solar Panel Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Aluminium Profiles for Solar Panel Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Aluminium Profiles for Solar Panel Production Market Share (2021-2026)

Table 37. China Based Aluminium Profiles for Solar Panel Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Aluminium Profiles for Solar Panel Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Aluminium Profiles for Solar Panel Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Aluminium Profiles for Solar Panel Production,

(2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Aluminium Profiles for Solar Panel Production Market Share (2021-2026)

Table 42. Rest of World Based Aluminium Profiles for Solar Panel Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Aluminium Profiles for Solar Panel Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Aluminium Profiles for Solar Panel Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Aluminium Profiles for Solar Panel Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Aluminium Profiles for Solar Panel Production Market Share (2021-2026)

Table 47. World Aluminium Profiles for Solar Panel Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Aluminium Profiles for Solar Panel Production by Type (2021-2026) & (Kilotons)

Table 49. World Aluminium Profiles for Solar Panel Production by Type (2027-2032) & (Kilotons)

Table 50. World Aluminium Profiles for Solar Panel Production Value by Type (2021-2026) & (USD Million)

Table 51. World Aluminium Profiles for Solar Panel Production Value by Type (2027-2032) & (USD Million)

Table 52. World Aluminium Profiles for Solar Panel Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Aluminium Profiles for Solar Panel Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Aluminium Profiles for Solar Panel Production Value by Aluminum Alloy Materials, (USD Million), 2021 & 2025 & 2032

Table 55. World Aluminium Profiles for Solar Panel Production by Aluminum Alloy Materials (2021-2026) & (Kilotons)

Table 56. World Aluminium Profiles for Solar Panel Production by Aluminum Alloy Materials (2027-2032) & (Kilotons)

Table 57. World Aluminium Profiles for Solar Panel Production Value by Aluminum Alloy Materials (2021-2026) & (USD Million)

Table 58. World Aluminium Profiles for Solar Panel Production Value by Aluminum Alloy Materials (2027-2032) & (USD Million)

Table 59. World Aluminium Profiles for Solar Panel Average Price by Aluminum Alloy Materials (2021-2026) & (US\$/Ton)

Table 60. World Aluminium Profiles for Solar Panel Average Price by Aluminum Alloy Materials (2027-2032) & (US\$/Ton)

Table 61. World Aluminium Profiles for Solar Panel Production Value by Surface Treatment Processes, (USD Million), 2021 & 2025 & 2032

Table 62. World Aluminium Profiles for Solar Panel Production by Surface Treatment Processes (2021-2026) & (Kilotons)

Table 63. World Aluminium Profiles for Solar Panel Production by Surface Treatment Processes (2027-2032) & (Kilotons)

Table 64. World Aluminium Profiles for Solar Panel Production Value by Surface Treatment Processes (2021-2026) & (USD Million)

Table 65. World Aluminium Profiles for Solar Panel Production Value by Surface Treatment Processes (2027-2032) & (USD Million)

Table 66. World Aluminium Profiles for Solar Panel Average Price by Surface Treatment Processes (2021-2026) & (US\$/Ton)

Table 67. World Aluminium Profiles for Solar Panel Average Price by Surface Treatment Processes (2027-2032) & (US\$/Ton)

Table 68. World Aluminium Profiles for Solar Panel Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Aluminium Profiles for Solar Panel Production by Application (2021-2026) & (Kilotons)

Table 70. World Aluminium Profiles for Solar Panel Production by Application (2027-2032) & (Kilotons)

Table 71. World Aluminium Profiles for Solar Panel Production Value by Application (2021-2026) & (USD Million)

Table 72. World Aluminium Profiles for Solar Panel Production Value by Application (2027-2032) & (USD Million)

Table 73. World Aluminium Profiles for Solar Panel Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Aluminium Profiles for Solar Panel Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Sapa (Hydro) Basic Information, Manufacturing Base and Competitors

Table 76. Sapa (Hydro) Major Business

Table 77. Sapa (Hydro) Aluminium Profiles for Solar Panel Product and Services

Table 78. Sapa (Hydro) Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Sapa (Hydro) Recent Developments/Updates

Table 80. Sapa (Hydro) Competitive Strengths & Weaknesses

Table 81. Constellium Basic Information, Manufacturing Base and Competitors

Table 82. Constellium Major Business

Table 83. Constellium Aluminium Profiles for Solar Panel Product and Services

Table 84. Constellium Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Constellium Recent Developments/Updates

Table 86. Constellium Competitive Strengths & Weaknesses

Table 87. UACJ Corporation Basic Information, Manufacturing Base and Competitors

Table 88. UACJ Corporation Major Business

Table 89. UACJ Corporation Aluminium Profiles for Solar Panel Product and Services

Table 90. UACJ Corporation Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. UACJ Corporation Recent Developments/Updates

Table 92. UACJ Corporation Competitive Strengths & Weaknesses

Table 93. Kaiser Aluminum Basic Information, Manufacturing Base and Competitors

Table 94. Kaiser Aluminum Major Business

Table 95. Kaiser Aluminum Aluminium Profiles for Solar Panel Product and Services

Table 96. Kaiser Aluminum Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Kaiser Aluminum Recent Developments/Updates

Table 98. Kaiser Aluminum Competitive Strengths & Weaknesses

Table 99. Alcoa Corporation Basic Information, Manufacturing Base and Competitors

Table 100. Alcoa Corporation Major Business

Table 101. Alcoa Corporation Aluminium Profiles for Solar Panel Product and Services

Table 102. Alcoa Corporation Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Alcoa Corporation Recent Developments/Updates

Table 104. Alcoa Corporation Competitive Strengths & Weaknesses

Table 105. Zhongji Lamination Basic Information, Manufacturing Base and Competitors

Table 106. Zhongji Lamination Major Business

Table 107. Zhongji Lamination Aluminium Profiles for Solar Panel Product and Services

Table 108. Zhongji Lamination Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Zhongji Lamination Recent Developments/Updates

Table 110. Zhongji Lamination Competitive Strengths & Weaknesses

Table 111. Jiangsu Trina Aluminum Basic Information, Manufacturing Base and Competitors

Table 112. Jiangsu Trina Aluminum Major Business

Table 113. Jiangsu Trina Aluminum Aluminium Profiles for Solar Panel Product and Services

Table 114. Jiangsu Trina Aluminum Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Jiangsu Trina Aluminum Recent Developments/Updates

Table 116. Jiangsu Trina Aluminum Competitive Strengths & Weaknesses

Table 117. Shandong Huasheng Aluminum Basic Information, Manufacturing Base and Competitors

Table 118. Shandong Huasheng Aluminum Major Business

Table 119. Shandong Huasheng Aluminum Aluminium Profiles for Solar Panel Product and Services

Table 120. Shandong Huasheng Aluminum Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Shandong Huasheng Aluminum Recent Developments/Updates

Table 122. Shandong Huasheng Aluminum Competitive Strengths & Weaknesses

Table 123. Novelis Basic Information, Manufacturing Base and Competitors

Table 124. Novelis Major Business

Table 125. Novelis Aluminium Profiles for Solar Panel Product and Services

Table 126. Novelis Aluminium Profiles for Solar Panel Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Novelis Recent Developments/Updates

Table 128. Novelis Competitive Strengths & Weaknesses

Table 129. Global Key Players of Aluminium Profiles for Solar Panel Upstream (Raw Materials)

Table 130. Global Aluminium Profiles for Solar Panel Typical Customers

Table 131. Aluminium Profiles for Solar Panel Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Aluminium Profiles for Solar Panel Picture

Figure 2. World Aluminium Profiles for Solar Panel Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Aluminium Profiles for Solar Panel Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Aluminium Profiles for Solar Panel Production (2021-2032) & (Kilotons)

Figure 5. World Aluminium Profiles for Solar Panel Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Aluminium Profiles for Solar Panel Production Value Market Share by Region (2021-2032)

Figure 7. World Aluminium Profiles for Solar Panel Production Market Share by Region (2021-2032)

Figure 8. North America Aluminium Profiles for Solar Panel Production (2021-2032) & (Kilotons)

Figure 9. Europe Aluminium Profiles for Solar Panel Production (2021-2032) & (Kilotons)

Figure 10. China Aluminium Profiles for Solar Panel Production (2021-2032) & (Kilotons)

Figure 11. Japan Aluminium Profiles for Solar Panel Production (2021-2032) & (Kilotons)

Figure 12. India Aluminium Profiles for Solar Panel Production (2021-2032) & (Kilotons)

Figure 13. Southeast Asia Aluminium Profiles for Solar Panel Production (2021-2032) & (Kilotons)

Figure 14. Aluminium Profiles for Solar Panel Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Aluminium Profiles for Solar Panel Consumption (2021-2032) & (Kilotons)

Figure 17. World Aluminium Profiles for Solar Panel Consumption Market Share by Region (2021-2032)

Figure 18. United States Aluminium Profiles for Solar Panel Consumption (2021-2032) & (Kilotons)

Figure 19. China Aluminium Profiles for Solar Panel Consumption (2021-2032) & (Kilotons)

Figure 20. Europe Aluminium Profiles for Solar Panel Consumption (2021-2032) & (Kilotons)

Figure 21. Japan Aluminium Profiles for Solar Panel Consumption (2021-2032) & (Kilotons)

Figure 22. South Korea Aluminium Profiles for Solar Panel Consumption (2021-2032) & (Kilotons)

Figure 23. ASEAN Aluminium Profiles for Solar Panel Consumption (2021-2032) & (Kilotons)

Figure 24. India Aluminium Profiles for Solar Panel Consumption (2021-2032) & (Kilotons)

Figure 25. Producer Shipments of Aluminium Profiles for Solar Panel by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Aluminium Profiles for Solar Panel Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Aluminium Profiles for Solar Panel Markets in 2025

Figure 28. United States VS China: Aluminium Profiles for Solar Panel Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Aluminium Profiles for Solar Panel Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Aluminium Profiles for Solar Panel Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Aluminium Profiles for Solar Panel Production Market Share 2025

Figure 32. China Based Manufacturers Aluminium Profiles for Solar Panel Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Aluminium Profiles for Solar Panel Production Market Share 2025

Figure 34. World Aluminium Profiles for Solar Panel Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Aluminium Profiles for Solar Panel Production Value Market Share by Type in 2025

Figure 36. Frame Profiles

Figure 37. Support Profiles

Figure 38. Connector Profiles

Figure 39. World Aluminium Profiles for Solar Panel Production Market Share by Type (2021-2032)

Figure 40. World Aluminium Profiles for Solar Panel Production Value Market Share by Type (2021-2032)

Figure 41. World Aluminium Profiles for Solar Panel Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. World Aluminium Profiles for Solar Panel Production Value by Aluminum Alloy Materials, (USD Million), 2021 & 2025 & 2032

Figure 43. World Aluminium Profiles for Solar Panel Production Value Market Share by Aluminum Alloy Materials in 2025

Figure 44. High-Purity Aluminum

Figure 45. Magnesium-Aluminum Alloys

Figure 46. Aluminum-Magnesium-Silicon Alloys

Figure 47. World Aluminium Profiles for Solar Panel Production Market Share by Aluminum Alloy Materials (2021-2032)

Figure 48. World Aluminium Profiles for Solar Panel Production Value Market Share by Aluminum Alloy Materials (2021-2032)

Figure 49. World Aluminium Profiles for Solar Panel Average Price by Aluminum Alloy Materials (2021-2032) & (US\$/Ton)

Figure 50. World Aluminium Profiles for Solar Panel Production Value by Surface Treatment Processes, (USD Million), 2021 & 2025 & 2032

Figure 51. World Aluminium Profiles for Solar Panel Production Value Market Share by Surface Treatment Processes in 2025

Figure 52. Anodized Profiles

Figure 53. Powder-Coated Profiles

Figure 54. Wood-Grain and Color-Laminated Profiles

Figure 55. World Aluminium Profiles for Solar Panel Production Market Share by Surface Treatment Processes (2021-2032)

Figure 56. World Aluminium Profiles for Solar Panel Production Value Market Share by Surface Treatment Processes (2021-2032)

Figure 57. World Aluminium Profiles for Solar Panel Average Price by Surface Treatment Processes (2021-2032) & (US\$/Ton)

Figure 58. World Aluminium Profiles for Solar Panel Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Aluminium Profiles for Solar Panel Production Value Market Share by Application in 2025

Figure 60. Ground-Mounted PV Support Profiles

Figure 61. Rooftop PV Support Profiles

Figure 62. Adjustable and Tracking Support Profiles

Figure 63. World Aluminium Profiles for Solar Panel Production Market Share by Application (2021-2032)

Figure 64. World Aluminium Profiles for Solar Panel Production Value Market Share by Application (2021-2032)

Figure 65. World Aluminium Profiles for Solar Panel Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. Aluminium Profiles for Solar Panel Industry Chain

Figure 67. Aluminium Profiles for Solar Panel Procurement Model

Figure 68. Aluminium Profiles for Solar Panel Sales Model

Figure 69. Aluminium Profiles for Solar Panel Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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