

Saudi Arabia Aluminum Windows and Doors Market, By Product (Exterior Door, Patio Door, Sliding Window, Bi-Fold Window, Other), By Application (Residential, Commercial), By Region, Competition, Forecast & Opportunities, 2019-2029F

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Abstracts

Saudi Arabia Aluminum Windows and Doors Market was valued at USD 3.75 Billion in 2023 and is expected to reach USD 5.07 Billion by 2029 with a CAGR of 5.01% during the forecast period.

The aluminum windows and doors market encompasses the production, distribution, and installation of window and door frames made from aluminum. Known for their durability, strength, and modern aesthetic appeal, aluminum frames are widely used in both residential and commercial buildings. This market is growing due to increasing demand for energy-efficient and sustainable building materials. Aluminum windows and doors offer excellent insulation, corrosion resistance, and require minimal maintenance, which makes them ideal for regions with extreme weather conditions. Additionally, the material's flexibility allows for various design options, including slim profiles and larger glass areas, enhancing natural light and visibility.

Key Market Drivers

Construction Boom and Infrastructure Development

The construction boom in Saudi Arabia is one of the primary drivers of the aluminum windows and doors market. The Kingdom's ambitious 'Vision 2030' plan, which aims to diversify its economy beyond oil, includes massive investments in infrastructure, real estate, and tourism projects. Key initiatives like the development of NEOM, the Red Sea

Project, and the expansion of the capital city, Riyadh, demand high-quality building materials that meet international standards. Aluminum windows and doors are widely preferred in these projects for their durability, low maintenance requirements, and modern aesthetic appeal, which align well with Saudi Arabia's goal to construct smart cities with a futuristic look.

The government's push to increase homeownership rates through programs like Sakani has stimulated residential construction, further driving the demand for aluminum windows and doors. As these residential projects require windows and doors that can withstand the country's harsh climate, aluminum frames become a practical choice due to their corrosion resistance and thermal performance. Additionally, the urbanization trend in Saudi Arabia, with more people moving to cities, has fueled the need for high-rise buildings, commercial complexes, and hotels. The robust demand from these diverse construction activities is a substantial driver of the aluminum windows and doors market.

Focus on Energy Efficiency and Sustainability

Saudi Arabia is increasingly prioritizing energy efficiency and sustainability in its building sector, which significantly boosts the aluminum windows and doors market. The country's extreme temperatures drive high energy consumption, especially for air conditioning. To address this, the government has implemented energy-efficient building codes and promoted eco-friendly construction practices. Aluminum windows and doors, especially those with thermal breaks and double-glazing options, contribute to better insulation, thereby reducing energy consumption and cooling costs in buildings.

In addition, aluminum is a recyclable material, aligning with global and regional sustainability trends. The ability to recycle aluminum reduces the environmental impact, making it an attractive option for sustainable building projects. The government's focus on green buildings and sustainable urban planning, as highlighted in Vision 2030, has encouraged developers to choose materials that meet green building standards. Consequently, the demand for energy-efficient aluminum windows and doors has surged, as they not only support energy conservation efforts but also help reduce the carbon footprint of new developments. As green building practices become more common, energy-efficient aluminum products continue to be highly sought after in Saudi Arabia's construction market.

Growing Demand for High-Quality, Aesthetic Building Materials

In Saudi Arabia, there is a rising demand for high-quality and aesthetically appealing building materials, especially in urban and luxury real estate projects. Aluminum windows and doors are popular due to their sleek, modern look and ability to provide larger glass surfaces with slim profiles. This preference for sophisticated designs is evident in the Kingdom's luxury residential and commercial developments, where aesthetics and functionality are equally prioritized. Aluminum frames allow architects to create spacious, well-lit interiors that cater to contemporary design trends, a feature that appeals strongly to the upscale real estate market.

The high-end real estate market, particularly in cities like Riyadh and Jeddah, often emphasizes premium quality materials that align with global architectural standards. Aluminum windows and doors are valued not only for their appearance but also for their strength and resilience, essential for the region's extreme climate. The material's adaptability to various finishes, colors, and textures enables designers to tailor the look to meet specific project requirements, making it a preferred choice for architects and developers aiming to achieve distinctive, elegant designs. This emphasis on aesthetics and quality fuels the demand for aluminum windows and doors in Saudi Arabia, as they combine style, durability, and functionality.

Key Market Challenges

High Competition from Alternative Materials

One of the significant challenges in the Saudi Arabia aluminum windows and doors market is the high level of competition from alternative materials, particularly uPVC (unplasticized polyvinyl chloride) and steel. uPVC, for instance, has gained popularity due to its lower cost, good thermal insulation properties, and ease of installation. In a market where energy efficiency and insulation are critical factors due to extreme temperatures, uPVC has positioned itself as a viable alternative to aluminum. Unlike aluminum, uPVC windows and doors are highly resistant to thermal conductivity, reducing heat transfer and thus offering energy savings, which appeals to budget-conscious developers looking to meet energy codes affordably.

Some projects prioritize cost-effectiveness, particularly in affordable housing segments where developers might prefer uPVC or other less expensive materials over aluminum. Steel is another competitor, particularly in applications where strength and security are paramount, such as in commercial and industrial buildings. Steel is durable and sturdy, making it ideal for projects where aluminum's lightweight profile might be a disadvantage.

Although aluminum has numerous advantages, including recyclability, aesthetic flexibility, and durability, these benefits may not outweigh the cost factor for some projects. Additionally, uPVC and other materials can also be finished to mimic the appearance of aluminum, offering a similar look at a reduced cost. This strong competition from alternative materials represents a challenge for the aluminum windows and doors market in Saudi Arabia, as suppliers need to continuously innovate to emphasize the added value of aluminum products, such as advanced insulation features, unique designs, and high durability, to remain competitive.

Supply Chain Challenges and Price Volatility of Raw Materials

Another critical challenge for the Saudi Arabian aluminum windows and doors market is the volatility in raw material prices and supply chain disruptions. Aluminum prices are influenced by global market fluctuations, which are affected by factors such as trade policies, energy prices, and geopolitical tensions. Saudi Arabia imports a substantial portion of its aluminum requirements, making the market susceptible to international price shifts and supply disruptions. These fluctuations can lead to increased production costs, which are often passed on to consumers, potentially dampening demand in cost-sensitive segments of the construction market.

In addition to price volatility, global supply chain issues, such as delays in raw material shipments and shortages of necessary manufacturing components, can impact the availability and timelines for aluminum window and door installations. The COVID-19 pandemic, for example, caused widespread disruptions in supply chains worldwide, highlighting vulnerabilities that the Saudi market still faces. Furthermore, dependency on imported aluminum products and semi-finished goods means that any restrictions or delays in international trade can significantly impact the local aluminum windows and doors market.

Manufacturers and suppliers in Saudi Arabia must often deal with high lead times and increased logistics costs, affecting project timelines and budgets. For high-profile developments, especially those on tight schedules, such as mega-projects under Vision 2030, these supply chain challenges can hinder project completion and lead to increased costs. Addressing these supply chain and price volatility issues requires a strategic approach, such as localizing production to reduce dependence on imports, diversifying suppliers, and incorporating efficient inventory management practices. Nevertheless, these supply-related challenges remain a significant obstacle for the growth and stability of the aluminum windows and doors market in Saudi Arabia.

Key Market Trends

Rising Demand for Energy-Efficient and Thermally Broken Aluminum Products

In response to Saudi Arabia's push for energy efficiency and sustainable construction practices, there is a growing demand for energy-efficient aluminum windows and doors with thermal breaks. These thermally broken products are designed with a barrier within the frame, reducing thermal conductivity and enhancing insulation, which is crucial in Saudi Arabia's hot climate. With the Saudi Green Building Forum and Vision 2030's focus on reducing carbon emissions and energy consumption, energy-efficient solutions have become a priority in the building sector.

Thermal breaks in aluminum frames minimize heat transfer, resulting in lower air conditioning costs and increased indoor comfort for residents and tenants. Developers and architects increasingly seek these features to meet government regulations and green building certifications. Aluminum manufacturers are responding by innovating with double and triple glazing options, low-emissivity coatings, and advanced insulating materials to enhance the thermal performance of aluminum windows and doors. This trend is especially prevalent in new residential and commercial projects, where energy efficiency is a primary concern. The demand for thermally broken aluminum products will likely continue growing, driven by regulatory incentives and the need for sustainable urban development in Saudi Arabia.

Customization and Demand for Aesthetic Flexibility

Saudi Arabia's real estate market, especially in luxury residential and commercial sectors, is seeing a trend toward customized, aesthetically appealing building designs. This has led to a growing demand for aluminum windows and doors that offer aesthetic flexibility, such as unique color options, sleek profiles, and various surface finishes. Aluminum's natural flexibility allows it to be molded into slim profiles with large glass areas, a feature that is popular in contemporary architectural designs focused on maximizing natural light and visibility.

To cater to this trend, aluminum manufacturers are expanding their offerings with a wider range of colors, finishes, and textures. For instance, anodized and powder-coated finishes are increasingly popular due to their durability and ability to withstand Saudi Arabia's harsh climate. Architects and designers are opting for aluminum frames with minimalistic designs to give buildings a modern, luxurious appearance. This aesthetic

flexibility is not only favored in high-end projects but is also influencing mid-range developments, as consumers look for homes with modern, stylish elements. Consequently, customization and aesthetic versatility in aluminum products are key trends that support the demand for aluminum windows and doors in Saudi Arabia.

Increased Adoption of Smart and Automated Aluminum Windows and Doors

Smart home technology is gaining popularity in Saudi Arabia, especially in urban and luxury developments. As part of this shift, there is an increasing demand for smart and automated aluminum windows and doors that can integrate with home automation systems. Features such as automated opening and closing, remote control through smartphones, and compatibility with AI-enabled systems enhance convenience, security, and energy efficiency, making them appealing in both residential and commercial buildings.

For example, automated aluminum windows and doors with sensors that respond to temperature, weather changes, or security threats are becoming attractive options for homeowners and businesses alike. These smart solutions contribute to energy savings by regulating ventilation and optimizing temperature control. This trend is driven by Saudi Arabia's modernization efforts and the influx of global tech-driven solutions into the construction sector. Additionally, developers of large-scale projects, like NEOM, are prioritizing smart city concepts, where technology-enabled solutions are central to urban planning. As a result, manufacturers are increasingly investing in research and partnerships to produce smart aluminum products that meet the growing demand for high-tech building solutions.

Expansion of the Residential Sector and Affordable Housing Demand

Saudi Arabia's Vision 2030 includes ambitious goals to increase homeownership rates among Saudi citizens, a focus that is driving growth in the residential construction sector. Through initiatives like the Sakani program, the government is investing heavily in affordable housing projects across the Kingdom. This expansion in the residential sector has led to a steady demand for aluminum windows and doors, as these projects require cost-effective, durable, and low-maintenance solutions suitable for large-scale development.

Aluminum windows and doors meet the needs of the affordable housing segment by offering durability, energy efficiency, and low maintenance. As developers seek budget-friendly materials that can withstand Saudi Arabia's climate, aluminum frames, with

their corrosion resistance and long lifespan, are increasingly popular. Additionally, aluminum's recyclability supports the Kingdom's sustainability objectives, which makes it an attractive option even in low-cost housing projects. Furthermore, as affordable housing developments rise, manufacturers are responding by producing cost-efficient aluminum solutions that meet basic energy efficiency standards without compromising on durability. This trend is also supported by government-backed financing options for homeowners, which further stimulates demand for aluminum in residential projects. The focus on affordable housing in Saudi Arabia is thus a major trend driving the aluminum windows and doors market, with steady growth expected as the government continues its homeownership and housing initiatives across the country.

Segmental Insights

Product Insights

The Sliding Window held the largest market share in 2023. Sliding windows dominate the Saudi Arabia aluminum windows and doors market primarily due to their suitability for the region's architectural preferences and climate conditions. As urbanization accelerates, space-saving solutions are increasingly valuable, especially in high-density residential and commercial buildings. Sliding windows require less space to open compared to traditional hinged windows, making them ideal for compact interiors where maximizing usable space is essential. Furthermore, sliding windows support the contemporary architectural style favored in Saudi Arabia, with their clean lines and ability to accommodate large glass panes. This design enhances natural lighting and provides expansive views, aligning well with the aesthetics of modern developments and luxury housing projects prevalent in the region.

Aluminum sliding windows are also highly durable and resistant to corrosion, crucial features for withstanding Saudi Arabia's extreme climate. The material's strength and thermal efficiency, especially with the addition of thermal breaks, help in minimizing heat transfer, which supports energy-saving efforts and reduces cooling costs—significant factors in Saudi Arabia's hot weather.

Sliding windows are easy to maintain, an advantage in both residential and commercial applications where durability and low upkeep are priorities. These features collectively make aluminum sliding windows a preferred choice across the Saudi market.

Regional Insights

Riyadh held the largest market share in 2023. Riyadh dominates the Saudi Arabia aluminum windows and doors market due to its status as the capital and largest city, driving significant demand across residential, commercial, and government projects. As a key hub for both economic and urban development, Riyadh is experiencing rapid expansion in infrastructure, with large-scale projects such as smart cities, commercial complexes, and luxury residential developments. This growing demand for modern, energy-efficient building materials has made aluminum windows and doors a preferred choice, owing to their strength, durability, and insulation properties.

The Saudi government's Vision 2030 plan emphasizes urbanization and sustainable development, which has accelerated construction activities in Riyadh. The city's modernization, combined with a focus on green building practices and energy efficiency, has created an ideal environment for aluminum products, which offer thermal insulation and environmental sustainability. Additionally, Riyadh's thriving real estate sector, particularly in high-rise buildings and commercial spaces, requires aluminum solutions for their aesthetic appeal, structural integrity, and low maintenance. As Riyadh is home to key industries, corporate offices, and luxury hotels, the demand for premium, customizable aluminum windows and doors has surged. This concentration of high-value projects, paired with government initiatives, reinforces Riyadh's dominant position in the aluminum windows and doors market.

Key Market Players

YKK AP America Inc

Apogee Enterprises, Inc

Milgard Manufacturing, LLC

ALUMIL ALUMINIUM INDUSTRY SA

Andersen Windows, Inc.

Bradnam's Windows and Doors Pty. Ltd

Cornerstone Building Brands, Inc.

Altus Group Ltd.

Report Scope:

In this report, the Saudi Arabia Aluminum Windows and Doors Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Saudi Arabia Aluminum Windows and Doors Market, By Product:

- Exterior Door

- Patio Door

- Sliding Window

- Bi-Fold Window

- Other

- Saudi Arabia Aluminum Windows and Doors Market, By Application:

- Residential

- Commercial

- Saudi Arabia Aluminum Windows and Doors Market, By Region:

- Riyadh

- Makkah

- Madinah

- Eastern Province

Dammam

Rest of Saudi Arabia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Aluminum Windows and Doors Market.

Available Customizations:

Saudi Arabia Aluminum Windows and Doors Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. SAUDI ARABIA ALUMINUM WINDOWS AND DOORS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product (Exterior Door, Patio Door, Sliding Window, Bi-Fold Window, Other)
 - 5.2.2. By Application (Residential, Commercial)
 - 5.2.3. By Region (Riyadh, Makkah, Madinah, Eastern Province, Dammam, Rest of Saudi Arabia)

- 5.2.4. By Company (2023)
- 5.3. Market Map

6. RIYADH ALUMINUM WINDOWS AND DOORS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Product
 - 6.2.2. By Application

7. MAKKAH ALUMINUM WINDOWS AND DOORS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product
 - 7.2.2. By Application

8. MADINAH ALUMINUM WINDOWS AND DOORS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product
 - 8.2.2. By Application

9. EASTERN PROVINCE ALUMINUM WINDOWS AND DOORS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product
 - 9.2.2. By Application

10. DAMMAM ALUMINUM WINDOWS AND DOORS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product

10.2.2. By Application

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

13.1. YKK AP America Inc

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel/Key Contact Person

13.1.5. Key Product/Services Offered

13.2. Apogee Enterprises, Inc

13.2.1. Business Overview

13.2.2. Key Revenue and Financials

13.2.3. Recent Developments

13.2.4. Key Personnel/Key Contact Person

13.2.5. Key Product/Services Offered

13.3. Milgard Manufacturing, LLC

13.3.1. Business Overview

13.3.2. Key Revenue and Financials

13.3.3. Recent Developments

13.3.4. Key Personnel/Key Contact Person

13.3.5. Key Product/Services Offered

13.4. ALUMIL ALUMINIUM INDUSTRY SA

13.4.1. Business Overview

13.4.2. Key Revenue and Financials

13.4.3. Recent Developments

13.4.4. Key Personnel/Key Contact Person

13.4.5. Key Product/Services Offered

13.5. Andersen Windows, Inc.

13.5.1. Business Overview

- 13.5.2. Key Revenue and Financials
- 13.5.3. Recent Developments
- 13.5.4. Key Personnel/Key Contact Person
- 13.5.5. Key Product/Services Offered
- 13.6. Bradnam's Windows and Doors Pty. Ltd
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel/Key Contact Person
 - 13.6.5. Key Product/Services Offered
- 13.7. Cornerstone Building Brands, Inc.
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel/Key Contact Person
 - 13.7.5. Key Product/Services Offered
- 13.8. Altus Group Ltd.
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials
 - 13.8.3. Recent Developments
 - 13.8.4. Key Personnel/Key Contact Person
 - 13.8.5. Key Product/Services Offered

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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